

AQUA TECH DIVE CENTER

A Division of TOREK DEVELOPMENT, INC

Supplying the World of Diving



**Prime Vendor to the U.S. Military and various
authorized Government organizations. In partnership with DSCP,
Defense Supply Center Philadelphia.**

Contract No. SP0D0099D0003 / Cage Code 0KZA5

**COMMERCIAL / MILITARY / TACTICAL
SPORT / MARINE / SCIENTIFIC / TECHNICAL
SEARCH & RESCUE**

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AQUA TECH

Welcome to "Our World of Diving"

Aqua Tech Dive Center is proud to present our 10th edition of the Aqua Tech catalog. This catalog will be available on Compact Disk and on the world wide web at: www.Divecenter.com. For on-line shopping visit www.Divecenter.com.

Aqua Tech Dive Center is a **Prime Vendor**, in partnership with **Defense Supply Center Philadelphia, DSCP**, supplying **Marine, Life Saving and Diving Equipment to United States Military and Government Sponsored Agencies**. Aqua Tech supplies **Commercial, Military, Sport, Scientific and Technical Diving and Marine equipment to operations World Wide**.

Aqua Tech Dive Center has come a long way from our humble beginnings. In 1974 we started as a small Sport Diving shop in Modesto, California. This shop started as a means of getting people involved in the sport of diving. As our reputation for fast and dependable service began to spread, we found ourselves servicing the needs of the diving community in more and more distant locations. Because of these demands placed on our small company, by customers from other States and Countries, we moved our operations center to the New Orleans, Louisiana area. In just 10 years we were operating three Diving Supply stores in three different cities, New Orleans and Morgan City, LA. and San Diego, CA..

During this time Aqua Tech began the manufacture of many products for use by Commercial as well as Military Divers. Aqua Tech manufactures diving compressor packages, diver control consoles, diver safety harnesses and the World famous **AquaThermic** brand of **Underwater Cutting Electrodes and Cutting and welding Torches**. We are constantly adding new products for use by the diving community.

In 1995, in order to better serve our many customers, world wide, Aqua Tech moved it's entire operations to our present location in San Diego, California. Aqua Tech is located in the heart of San Diego. Our San Diego sales, and manufacturing facilities encompass more than 16,000 sq. ft. of floor space.

As a result of our staff's dedication to service and quality products, Aqua Tech Dive Center is now one of the largest diving supply operations in the World. We are here to serve you. We know that without satisfied customers no company can grow and prosper. I would personally like to take this opportunity to say "thank you for your past support and we look forward to serving you in the future."

Jesse L. Dean, president



Member since 1980



Keeping America Ready

AQUA TECH

comsales@divecenter.com / milsales@divecenter.com
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www.Divecenter.com

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ZERO THRUST-
BLASTING GUN 247

Aqua Tech has been supplying diving operations *world wide* for more than 30 years! We are proud to be appointed a Prime Vendor for the U.S. Military and Authorized Government Organizations for the Supply of Diving and Marine Safety Equipment, in Partnership with Defense Supply Center Philadelphia.



BUSINESS LINE CARD

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 Carter Lift Bags
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 Cetacea
 Chronosport
 Circle Seal
 Citizen Watches
 Climb Ax/Kong
 CMC Rescue
 Cochran Computers
 ConBraCo
 Cramer Decker
 Cressi Sub
 Crousehind
 Dacor
 Danner Shoes
 Deep Sea Power & Light
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 Global (GMC)
 Grace W.R.
 Granite Gear Compression Sacs
 Gyrolok
 Halcyon
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 Hoke
 HQ Air
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 Krill Light
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 Morse Diving
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 Nikonos Cameras
 Nite Rider
 NRS River Supplies
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 Ocean Kayak
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 Patagonia

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 RIX Compressors
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 Scuba Max
 Scubapro (military & commercial)
 SeaCon Connectors
 Seagate Cylinders
 Sea Pearls Weights
 Sea & Sea Camera
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 Sport Divers MFG
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 Sure Fire Lights
 Suunto
 Tescom Regulators
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AQUA TECH

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WHITES DRYSUITS



FEATURES ▶ Latex wrists and neck with cold water neck dam (neoprene tuck seals can be ordered at no additional cost). ▶ Rugged-molded Air Control knee pads with adjustable ankle straps minimize air transfer to the boots. Knee pads available in 2-tone silver/black or all black. ▶ Si Tech low profile automatic/adjustable exhaust valve with ratchet face plate. ▶ Si Tech swivel inflate valve, swivel action allows the diver to connect the LP hose from any angle. ▶ Si Tech LP hose with easy disconnect. ▶ Molded valve pads provide excellent seal and suit reinforcement. ▶ Rugged air-tight dry suit zipper with external protective flap. ▶ Adjustable internal suspenders. ▶ Rugged dry suit boots, neoprene-insulated, with tough vulcanized rubber sole covering and fin keeper. ▶ Anatomically-correct CAD-designed pattern for the perfect fit with pre-bent arms, legs and torso. ▶ Suit comes complete with bag, zip wax, and dry suit manual.

EXTRA FEATURES ON POLAR FLEX EZ-IN SELF ENTRY ▶ Tough Tek mesh vents allow easy access to dry zipper, while venting air from the zipper tunnel.

POLAR FLEX

UPPER BODY MATERIAL ▶ Available in either 420 Denier bi-laminate or tri-laminate.

LOWER BODY MATERIAL ▶ 3mm DT3 Denstek compressed neoprene.

UPPER BODY SEAM CONSTRUCTION ▶ External nylon seam tape, six thread mauler locked sewn. ▶ Internal seams high-pressure heat sealed with polyurethane tape.

LOWER BODY SEAM CONSTRUCTION ▶ Six step glue process. ▶ Outer seams blind stitched with heavy duty nylon thread. ▶ Inner seams coated with polymer sealant.

SIZES ▶ Polar Flex shoulder-entry available in standard unisex sizes or custom computer fit. ▶ Polar Flex self-entry available in standard unisex sizes or modified custom computer fit.

BI-LAMINATE COLORS ▶ Black, Royal Blue, Red, Gold (choose one color only)

TRI-LAMINATE COLORS ▶ Black, Royal Blue, Red (choose one color only)

DENSTEK COMPRESSED NEOPRENE
▶ Black

PRO DRY FEATURES ▶ 3mm "roll in" neoprene neck and wrist seals. ▶ Tapered neck dam to seal in dry suit hood. ▶ Rugged molded air control knee pads with adjustable ankle straps minimize air transfer to the boots (available in 2-tone silver/black or all black). ▶ Si Tech low profile automatic/adjustable exhaust valve with ratchet face plate. ▶ Si Tech swivel inflate valve, swivel action allows the diver to connect the LP hose from any angle. ▶ Si Tech LP hose with easy disconnect. ▶ Molded valve pads provide excellent seal. ▶ Rugged air-tight dry suit zipper with external protective flap. ▶ Rugged dry suit boots, neoprene insulated, with tough vulcanized rubber sole covering and fin keeper. ▶ Anatomically-correct, CAD-designed pattern for the perfect fit with pre-bent arms, legs and torso. ▶ Seamless crotch eliminates potential leaks in this high stress area. ▶ Seamless armpit panel increases comfort while reducing seam stress. ▶ Suit comes complete with bag, zip wax and dry suit manual.

PRO DRY

BODY MATERIAL ▶ 7mm neoprene sport or 7mm neoprene commercial

SEAM CONSTRUCTION ▶ Six-step glue process. ▶ External seams blind-stitched with heavy-weight nylon thread.

SIZES ▶ Shoulder-entry style available in standard male and female sizes or custom fit. ▶ Self-entry style available in standard male/unisex sizes and custom fit.

7MM NEOPRENE SPORT COLORS ▶ Black, Spruce Blue, Royal Blue, Red, Wine, Charcoal, Forest Green

7MM NEOPRENE COMMERCIAL ▶ Black, Red (suits can be ordered in one or two colors).

Aqua Tech DIVE CENTER



Desco Mark V

Serial# 1252 June 6, 1944

Completed on D-Day the day the allies began repatriation of Europe at the beaches of Normandy France.

Historical Diving Museum



SI TECH LOW PROFILE AUTOMATIC/ADJUSTABLE EXHAUST VALVE WITH RATCHET FACE PLATE



RUGGED, MOLDED AIR CONTROL KNEE PADS WITH ADJUSTABLE ANKLE STRAPS MINIMIZE AIR TRANSFER



SEAMLESS ARMPIT PANEL INCREASES COMFORT WHILE REDUCING MATERIAL STRESS

WHITES DRYSUITS



- ▶ Si Tech swivel inflate valve, swivel action allows the diver to connect the LP hose from any angle.
- ▶ Si Tech LP hose with easy disconnect.
- ▶ Valve pads provide a great seal.
- ▶ Air-tight dry suit zipper with external protective.
- ▶ Adjustable internal suspenders.
- ▶ Dry suit boots, neoprene-insulated, with tough vulcanized rubber sole covering and fin keeper.
- ▶ Anatomically-correct CAD-designed pattern for the perfect fit with pre-bent arms, legs and torso.
- ▶ Suit comes complete with bag, zip wax, and dry suit manual.

BODY MATERIAL ▶ Available in 420 Denier bi-laminate.

SEAM CONSTRUCTION ▶ External nylon seam tape, six-thread mauer-locked seam. Internal seams high-pressure heat-sealed with polyurethane tape.

SIZES ▶ Available in standard unisex sizes or custom computer fit.

BI-LAMINATE COLORS ▶ Red

Tour Entry Bi-Laminate #1 2002



VELCRO-CLOSURE BELLOWS POCKET

FEATURES ▶ Latex wrists and neck with cold water hood dam (neoprene tuck seals can be ordered at no additional cost). ▶ Molded air control knee pads with adjustable ankle straps minimize air transfer to the boots (knee pads available in 2-tone silver/black or all black). ▶ Reflective arm bands. ▶ Velcro-closure bellows pockets. ▶ Si Tech low profile automatic/adjustable exhaust valve with ratchet face plate.



FLIP-DOWN REFLECTIVE ARM BANDS

MULTI S.A.R.

SPECIAL MULTI S.A.R. OPTIONS ▶ Clip-in neoprene vest for added warmth and flotation. ▶ Radio pocket and flip-down reflective arm bands. ▶ Custom or stock name on arm band. ▶ Upper body in 200 Denier nylon. ▶ Vulcanized rubber dive boot. ▶ Heavy-duty deck boot, non-marking sole. ▶ Diagonal self-entry design. ▶ D-ring attachment for engine cut-off lanyard. ▶ Double layer 420 Denier nylon knees. ▶ Rugged air control knee pads.

BODY MATERIAL ▶ 420 Denier Bi-laminate.
SEAM CONSTRUCTION ▶ External nylon seam tape, six-thread mauer-locked seam. ▶ Internal seams high-pressure heat-sealed with polyurethane tape.

SIZES ▶ Available in standard unisex sizes or custom fit.

420 DENIER BI-LAMINATE COLORS ▶ Black, Royal Blue, Red, Gold.
200 DENIER BI-LAMINATE COLORS ▶ Black, Royal Blue, Red, Gold

BASE SUIT FEATURES ▶ Latex wrists and neck (neoprene tuck seals can be ordered at no additional cost). ▶ Air-tight dry suit zipper with external protective flap. ▶ Adjustable internal suspenders and nylon soft sock. ▶ Anatomically-correct CAD-designed pattern for the perfect fit with pre-bent arms, legs and torso. ▶ Suit comes complete with bag, zip wax and dry suit manual.

S.A.R. SURFACE

SIZES ▶ Available in standard unisex sizes or custom fit.
420 DENIER BI-LAMINATE COLORS: ▶ Black, Royal Blue, Red, Gold.
200 DENIER BI-LAMINATE COLORS: ▶ Black, Royal Blue, Red, Gold.



RUGGED DECK BOOT WITH NON-MARKING SOLE



S.A.R. SURFACE SELF-ENTRY

FEATURES ▶ Latex wrists and neck (neoprene tuck seals can be ordered at no additional cost). ▶ Thigh D-ring attachment point for engine cut-off lanyard. ▶ Reflective arm bands. ▶ Rugged air-tight dry suit zipper with external protective flap. ▶ Adjustable internal suspenders. ▶ Rugged deck boot with non-marking sole. ▶ Anatomically-correct CAD-designed pattern for the perfect fit. ▶ Pre-bent arms, legs and torso. ▶ Suit comes complete with bag, zip wax, and dry suit manual.

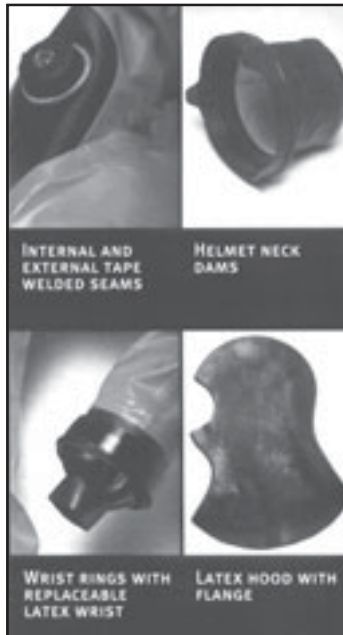
OPTIONS ▶ Clip in neoprene vest.
UPPER BODY MATERIAL ▶ 200 Denier bi-laminate for maximum mobility.

LOWER BODY MATERIAL ▶ 420 Denier bi-laminate for maximum strength.

SEAM CONSTRUCTION ▶ External nylon seam tape, six-thread mauer-locked seam. ▶ Internal seams high-pressure heat-sealed with polyurethane tape.

WHITES & O'NEILL DRYSUITS

HAZ-MAT



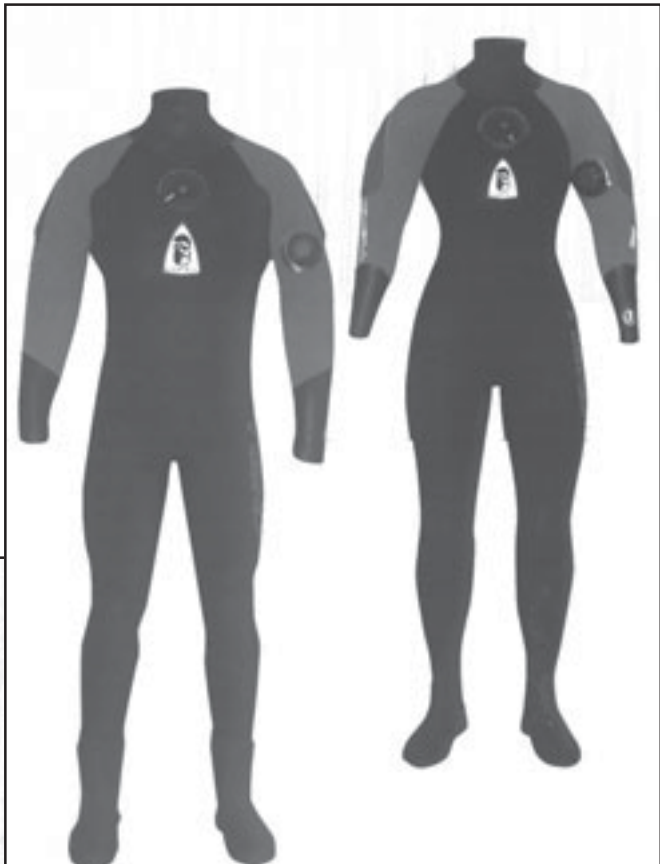
FEATURES ▶ Latex wrists and neck. ▶ Heavy-duty tri-laminate overlays at the knees and shoulders. ▶ Si Tech low profile automatic/ adjustable exhaust valve with ratchet face plate. ▶ Si Tech swivel inflate valve. ▶ Swivel action allows the diver to connect the LP hose from any angle. ▶ Si Tech LP hose with easy disconnect. ▶ Molded valve pads provide excellent seals. ▶ Rugged heavy-duty air-tight dry suit zipper. ▶ Internal and external tape welded seams. ▶ Adjustable internal suspenders. ▶ Rugged dry suit boots, neoprene-insulated, with tough vulcanized rubber sole covering and fin keeper. ▶ Anatomically-correct CAD-designed pattern for the perfect fit with pre-bent arms, legs and torso. ▶ Suit comes complete with bag, zip wax, and dry suit manual.

OPTIONS ▶ Wrist rings with replaceable latex wrist seals. ▶ Dry Glove assembly (gloves sold separately). ▶ Neck ring system (latex neck seal sold separately). ▶ Helmet neck dams (inquire for style availability).
BODY MATERIAL ▶ Haz-Mat tri-laminate.
SEAM CONSTRUCTION ▶ Sewn with heavy-duty nylon thread. ▶ External seams high-pressure heat-sealed with polyurethane tape. ▶ Internal seams high-pressure heat-sealed with polyurethane tape.
SIZES ▶ Available in standard unisex sizes or custom computer fit.
HAZ-MAT TRI-LAMINATE COLORS
 ▶ Black/Orange

O'Neill Neoprene Drysuits

MEN'S 0449
 Black/Pacific
 All Black
 S-XXXL, MT, LS, LT, XLS

WOMEN'S 0450
 Black/Pacific
 All Black
 4-16



Aqua Tech
 stocks drysuit
 repair parts and
 accessories.

7mm 7000X Dry Suit *all new design*

- Launch Padz
- Flexloc
- Spectra grade neoprene
- 100% Fusion Tape seams
- Seam reduction
- Protective zipper flap

VIKING DRYSUITS



PRO 1000 and PRO 1000 WIDE
 Material: the Pro suit is made of black or red EPDM/natural rubber (1,000 gr/m²), with a two-way stretch polyester lining.

Suit fitted with rotating inlet (center chest position) and exhaust valve and HD zip. The suit is equipped with black integrated reinforcements from the foot over the knee to the seat. Boots with fin holders. Non-magnetic version for military use, only available in black, with non-magnetic zips. Non-magnetic valves can be ordered on special request.



Aqua Tech stocks several brands of both wet and drysuits.



HEAVY DUTY 1500
 Material: the Heavy Duty and Diver's Dress are made of red EPDM/natural rubber (1,500 gr/m²), with a two-way stretch polyester lining.

The suit has extended black reinforcements on knees and elbows and HD zip. Rotating inlet and exhaust valves factory-mounted for demand breathing systems.

HEAVY DUTY 1500 DEMAND/WIDE
 Red with black reinforcements on knees and elbows and HD zip. Rotating inlet and exhaust valves factory-mounted for demand breathing systems.

HEAVY DUTY 1500 FREE FLOW/WIDE
 Red with black reinforcements on knees and elbows and HD zip. No inlet and exhaust valves. For free-flow breathing systems.

DIVER'S DRESS
 Hard-hat diving suit, red with black reinforcement on elbows. With feet for heavy, metal diving shoes. No inlet and exhaust valves.

USIA Drysuits

Technological Leaders in the development of Advanced Military Diving Systems. USIA Crew Dry Suits are the choice of Special Ops Worldwide.

USIA builds the system for YOUR mission, from Specialized Dry Bags to Non-Magnetic features for Spec Warfare and EOD Diving Suits.

Please Call for Additional Information



Hood options

	Nautic	Surveyor	Turbo	Magnam	Combat
Outer shell	Neoprene	Latex	Rubber	Rubber	Latex
Face seal	Smooth skin	Latex	Latex	Latex	Latex
Inner hood	-	Open cell liner	Latex	Open cell liner	Open cell liner
Neck seal	Latex/Neoprene	Latex	Latex	Latex	Neck ring + latex

Yokes

Diversdress collar

DIVING UNLIMITED INTL' DRYSUITS

DUI CF200X Drysuit

CF200 Is the Bellwether by which other drysuits are measured. Constructed out of Crushed Neoprene, the CF200 has proven to be durable, rugged, flexible, comfortable, and warm (toasty), and the choice of professional divers world wide.

CF200X Features:

- * DUI's Patented CF200 Material
- * Diagonal front entry zipper
- * Telescoping torso allows for easy donning, a closer fit and complete freedom of movement
- * Internal Suspenders and Crotch Strap to hold the suit in place
- * Warm Neck Collar for use with Warm Neck Hood
- * Zipper Guard protects the waterproof zipper
- * Rock Boot System
- * CF200 Knee Pads
- * Swivel inlet and low profile exhaust valves
- * Adjustable, Automatic Exhaust Valves
- * Latex Neck and Wrist Seals
- * Also available in a shoulder-entry model (warm neck collar & zipper guard not included)



DUI CLX 450 Drysuit

Heralded as being the new lighter weight drysuit for wreck divers or other divers in high abrasion areas, DUI has taken the durability of Cordura® and blended it with the suppleness of polyester for a new high performance drysuit. Durability combined with the light weight and fast-drying capabilities of this fabric makes it ideal for divers who want a more durable suit that's excellent for traveling.

CLX450 Features

- * Trilaminate Material made of Cordura® / Polyester blend / Butyl Rubber / Polyester
- * Diagonal front entry zipper
- * Telescoping torso allows for easy donning, a closer fit and complete freedom of movement
- * Suspenders and Crotch Strap to hold the suit in place
- * Warm Neck Collar for use with Warm Neck Hood
- * Zipper Guard protects the waterproof zipper
- * Rock Boot System
- * Double layer material over knee area for extra durability
- * Swivel inlet and low profile exhaust valves
- * Internal waist adjustment cord
- * Latex Neck and Wrist Seals
- * Available in Stock Sizes, Special Production and Signature Series
- * Adjustable, Automatic Exhaust Valves



DUI FLX50/50 Drysuit

One of the most fashionable drysuits on the market today, DUI combines the best features of DUI's TLS350 and CF200 drysuits. The top half has the lightweight and fast-drying comfort of the TLS with a soft polyester outer fabric. The bottom half has the stretch and incredible durability of DUI's patented CF200 material.

FLX50/50 Features

- * Diagonal front entry zipper
- * Telescoping torso allows for easy donning, a closer fit and complete freedom of movement
- * Suspenders and Crotch Strap to hold the suit in place
- * Warm Neck Collar for use with Warm Neck Hood
- * Zipper Guard protects the waterproof Zipper
- * Rock Boot System
- * CF200 Knee Pads
- * Internal waist adjustment cord
- * Swivel inlet and low profile exhaust valves
- * Latex Neck and Wrist Seals
- * Available in Stock Sizes, Special Production and Signature Series



DUI TLS350SE Drysuit

Using the same durable, lightweight and fast-drying material as the dive proven TLS350, the TLS350SE has become a favorite among divers. And because the System includes divewear insulation, it is an excellent value.

Also available but not shown is the TLS350. Used by USCG Rescue Swimmers. A reliable and proven drysuit, the sleek design allows unrestricted agility in the water. Lightweight, quick drying. The TLS350 has a front Diagonal Zipper.

TLS350 SE Features

- * Trilaminate Material made of Nylon / Butyl Rubber / Nylon
- * Shoulder-entry zipper
- * Unique design provides closer fit yet full freedom of movement
- * Internal waist cord
- * Rock Boots
- * Double layer material over knee area for extra durability
- * Swivel inlet and low profile exhaust valves
- * Latex Neck and Wrist Seals
- * Includes divewear insulation! Select from a single layer. Actionwear Jumpsuit or double layer. Actionwear Jacket & Pants



XCEL WETSUITS

XF SERIES



Description

XF SHORT SLEEVE SHORTY

- Super Soft Smoothskin Velcro wrap collar
- Texture skin upper body
- Nylon-2 neoprene lower body, sleeves and gussets
- Back Zipper

Construction: Flatlock seams

Men's Sizes: XS, S, M, ML, L, XL, XXL, 3XL
 Women's Sizes: 4, 6, 8, 10, 12, 14, 16

Men's XF

MX221001 - 2mm

Colors

Black, Black/Royal/Ash,
Black/Yellow/Royal

Colors

Black, Black/Yellow/Purple,
Black/Royal/Pink

Women's XF

WX221001 - 2mm

Men's XF

MX22XF01 3/2mm

Colors

Black, Black/Royal/Ash,
Black/Yellow/Royal

Colors

Black, Black/Yellow/Purple,
Black/Royal/Pink

Women's XF

WX22XF01 3/2mm



Comfort Collar Seal



XF FULLSUIT

- Texture skin front and back upper body
- Super Soft Smoothskin Velcro wrap collar
- Back Zipper
- Pre-Bent Articulating knees with DuraFlex knee panels
- Wrist and ankle seals

Construction: Flatlock seams, blindstitched kneepanels

Men's Sizes: XS, S, M, ML, L, LS, L, LL, XLS, XL, XXL, 3XL
 Specialty Sizes: MLS, XLJ, 2XLS, 4XL
 Women's Sizes: 4, 6, 8S, 8, 8T, 10S, 10, 10T, 12, 14
 Specialty Sizes: 6T, 12S, 16



DuraFlex Tire Nylon Knee Panels

XPEDITION SERIES



Description

THE XPEDITION

- 1.5mm Titanium lined texture skin upper body
- 1mm Super Soft Smoothskin Velcro wrap collar
- 0.5mm Titanium GlideSkin lined body
- 0.5mm Titanium lined DuraFlex knees, shoulder and seat panels for maximum strength and flexibility
- Spine pad, foot stirrup in legs and thumb loop in sleeves

Fullsuit

The Xpedition is also a great item for layering with cold water suits
 Construction: Flatlock seams

Men's Sizes: S, M, ML, L, LS, L, LL, XLS, XL, XXL, 3XL
 Specialty Sizes: XS, MLS, XLJ, 2XLS, 4XL

Women's Sizes: 4, 6, 8S, 8, 8T, 10S, 10, 10T, 12, 14
 Specialty Sizes: 6T, 12S, 16

Men's Xpedition

MR001301-1.5/1/0.5mm

Colors

Black/Royal/Ash,
Black/Yellow/Royal

Colors

Black/Yellow/Purple,
Black/Royal/Pink

Women's Xpedition

WR001301-1.5/1/0.5mm

SPINE PAD



DuraFlex Tire Nylon Shoulder Panels



Comfort Collar Seal



DuraFlex Tire Nylon Seat Panels



DuraFlex Tire Nylon Knee Panels

XCEL WETSUITS

THERMO TRI-DENSITY SERIES



Description

THERMO TRI-DENSITY Titanium GlideSkin Fullsuit

- Titanium *GlideSkin* upper body
- Titanium lined throughout the wetsuit
- *Thermo Protection System* consists of a vertical back zipper with quadruple glued & blindstitched double skin-on-skin seal, wrist seals, ankle dams and Xcel's adjustable *Comfort Collar Seal System*
- *DuraFlex* seat and knee panels for maximum strength and flexibility
- *Pre-Bent Articulating* elbows and knees
- *Easy On-Off Sealed ANKLE ZIP System* with inner ankle dams.

Construction: Quadruple glued & blindstitched seams with *Taped* underarm stress points and crotch seams

MG071401 & WG071401: Titanium *GlideSkin* 7mm upper body, nylon Titanium lined 7mm body, 6mm lower legs, 5mm lower sleeves & collar
MG051401 & WG051401: Titanium *GlideSkin* 5mm upper body, Titanium lined 5mm body, 4mm sleeves and lower legs and 3mm collar
Men's Sizes: S, M, MT, ML, LS, L, LT, XLS, XL, XXL, 3XL
Specialty Sizes: XS, M/S, XL, 2XL, 4XL

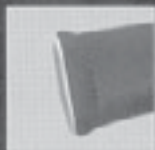
Women's Sizes: 4, 6, 8S, 8, 10S, 10, 12, 14
Specialty Sizes: 6T, 10T, 12S, 16



Comfort Collar Seal System



Pre-Bent Elbow Panels



GlideSkin Wrist Seals for Easy On-Off



DuraFlex Tire Nylon Seat Panels



DuraFlex Tire Nylon Knee Panels



Easy On-Off Sealed Ankle Zip System

Men's Thermo Tri-Density

MG071401 - 7/6/5mm
 MG051401 - 5/4/3mm

Colors

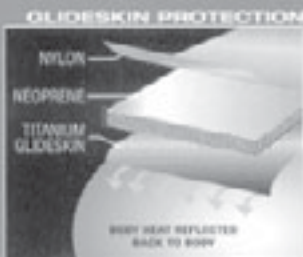
MG071401 Black, Black/Royal
 MG051401 Black/Royal

Women's Thermo Tri-Density

WG071401 - 7/6/5mm
 WG051401 - 5/4/3mm

Colors

WG071401 Black/Black Cherry, Black/Royal
 WG051401 Black/Black Cherry



TRI-DENSITY HOODED VESTS



WEAR OVER THERMO TRI-DENSITY FULLSUITS

Description

THERMO TRI-DENSITY Hooded Vest

- Titanium *GlideSkin* vented hood
- Multi Density hood with contoured chin for maximum warmth and comfort
- Titanium lined body with Lycra binding on arm and wrist openings
- Face seal has double bar tacks which allow for trimming to fit dive mask
- Side Zipper for ease of entry on Women's vest

Construction: Quadruple glued & blindstitched seams

MG0506F1 & WG0506F1: Titanium *GlideSkin* 6mm head with 5mm neck and chin, 4mm face seal panels, nylon Titanium lined 5mm body

MG4306F1 & WG4306F1: Titanium *GlideSkin* 4mm head with 3mm neck and chin, 4mm face seal panels, nylon Titanium lined 3mm body

Men's Sizes: S, M, ML, L, XL, XXL, 3XL

Women's Sizes: 4, 6, 8, 10, 12, 14

Men's Tri-Density Hooded Vest

MG0506F1 - 6/5/4mm
 MG4306F1 - 4/3mm

Colors
 Black

Women's Tri-Density Hooded Vest

WG0506F1 - 6/5/4mm
 WG4306F1 - 4/3mm

Colors
 Black



Women's Easy Entry Side Zipper

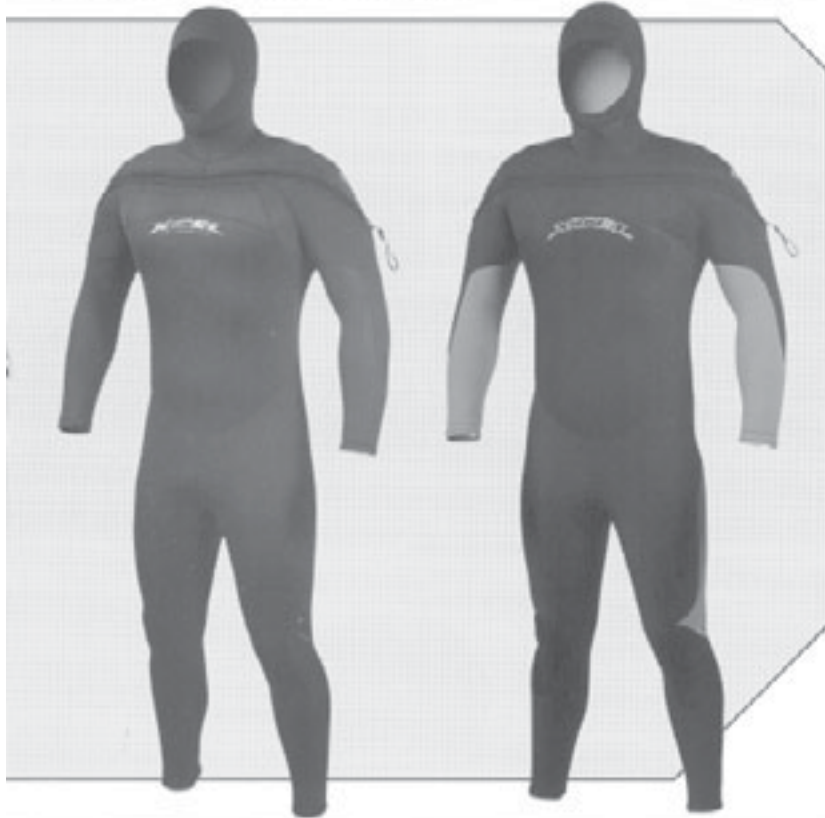


Multi Density Vented Hood

XCEL WETSUITS

POLAR TRI-DENSITY SERIES

Description



POLAR TRI-DENSITY

Hooded Fullbuit

- Xcel's **Polar Protection System** consists of a horizontal front zipper with a **Titanium** lined inner neck dam quadruple glued & blindstitched into the body, smoothskin face seal, extra wide wrist and ankle seals
- Multi density vented hood
- **Pre-Bent Articulating** elbows and knees
- The face seal has double bar tacks which allow for trimming to fit dive mask
- **Easy On-Off System** consists of 5mm **Ultrastretch** panels from behind knee to ankle

Construction: Quadruple glued & blindstitched seams with reinforced **Taped** crotch seams

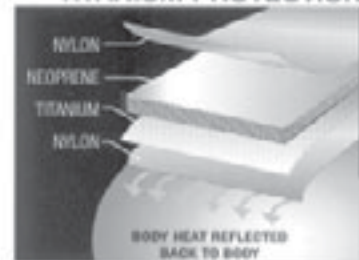
MJ765XH1: **Titanium** lined 7mm body and hood, 6mm lower sleeves, 5mm lower back legs

MG543XH1: **Titanium GlideSkin** 5mm upper body and 4mm hood, nylon **Titanium** lined 5mm body, 4mm lower sleeves, 3mm lower back legs

Men's Sizes: S, M, MI, ML, LS, L, LL, XLS, XL, XXL, 3XL

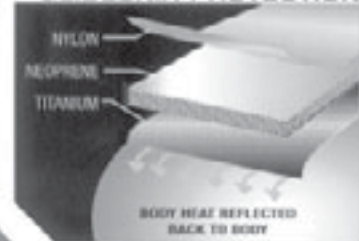
Men's Specialty Sizes: XS, MLS, XLT, 2XLS, 4XL

TITANIUM PROTECTION



BODY HEAT REFLECTED BACK TO BODY

GLIDESKIN PROTECTION



BODY HEAT REFLECTED BACK TO BODY

Men's Polar Tri-Density Titanium

MJ765XH1 - 7/6/5mm

Colors
Black

Men's Polar Tri-Density GlideSkin

MG543XH1 - 5/4/3mm

Colors
Black/Royal

Polar Protection System

Horizontal front zipper with a Titanium Skin lined inner neck dam quadruple glued & blindstitched into the body, smoothskin face seal, extra wide wrist and ankle seals.



GlideSkin Wrist & Ankle Seals for Easy On-Off
Only Available On MG543XH1



DuraFlex Tire Nylon Knee Panels



DuraFlex Tire Nylon Seat Panels



Polar Protection System



Pre-Bent Elbow Panels



Multi Density Vented Hood

O'NEILL WETSUITS

C O L D

ALL NEW DESIGN

TIMB TOOK JOHN JACKET

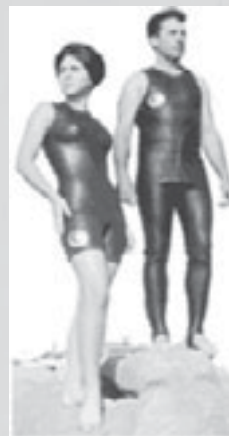


- FIREWALL
- GLIDERKIN SUPERSEAL CUFFS
- Ultraflex
- Launch Padz
- Flexloc
- Fluid Foam
- Expando Cuff
- Super Seal Neck

Firewall and Ultraflex key panels add warmth and increase stretch, while decreasing overall weight of wetsuit. Anatomical design for a custom fit and feel which maximizes warmth. Side panel design for maximum flexibility. Double hook and loop over the shoulder closure. for easy entry on John. #10 heavy duty zipper and key pocket. Zip flap incorporated into collar to reduce bulk on jacket.

MENS 0906
Black/Pacific
All Black
S-XXL, MT, LS, LT, XLS

WOMENS 0907
Black/Pacific
All Black
6-14



TIMB JOHN JACKET



- Launch Padz
- Flexloc
- Fluid Foam

Anatomical design for a custom fit and feel which maximizes warmth. Double hook and loop over the shoulder closure for easy entry on John. #10 heavy duty zipper and key pocket.

MENS 0253
Black/Pacific
All Black
S-XXL

WOMENS 0256
Black/Pacific
6-14



Wetsuits

O'NEILL TRIATHLON WETSUITS

O'Neill Thermo Short
ONE0006

XS-XXL



8 oz. Thermo Skin Short, lightweight, durable, dries faster, insulates well, anti-microbial agent treated, side panel design maximizes flexibility, elastic waistband

O'Neill Thermo X Hooded Shirt
ONE0009

XS-XXL



8 OZ. Thermo Skin side panel. 10.3 OZ. Thermo X Skins, front, back, and sleeves. Double Thermo X hood.

O'Neill Triathlon John 3/2
ONE0049

XS-XXL



Action cut upper torso allows greatest possible agility. Side panel design for maximum flexibility, stretch and agility. Extra long zipper provides easy exit.

O'Neill Triathlon Full 4/3
ONE0058

XS-XXL



Action cut upper torso allows greatest possible agility. Side panel design for maximum flexibility, stretch and agility. Extra long zipper provides easy exit. Hook and loop on zipper keeps O'webbing in place for rapid exit.

O'Neill Thermo Shirt
ONE0006



8 oz. Thermo Skin Shirt, light weight, durable, dries faster, insulates well, anti-microbial agent treated, side panel design maximizes flexibility.

O'Neill Thermo Long Sleeve Shirt
ONE0004



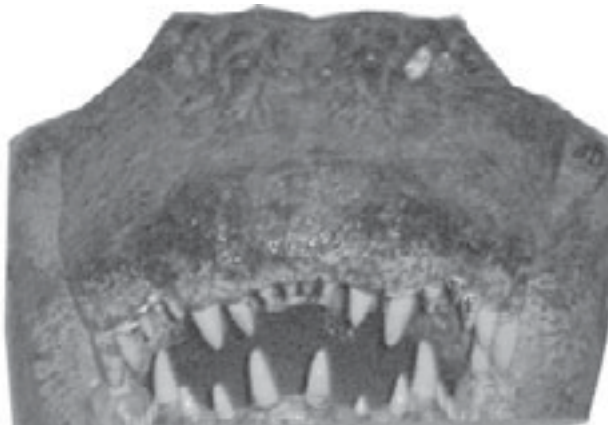
8 oz. Thermo Skin Shirt, lightweight, durable, dries faster, insulates well, anti-microbial agent treated, side panel design maximizes flexibility

Aqua Tech can supply all of your O'Neill suit and accessory needs. Contact us for additional information

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You Never Know Who or What is Hanging Out

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GIFTS & NOVELTIES

Crystal Scuba Diver
AJS



5" Crystal Scuba Diver

MK20 Diver
AJS



5" Crystal MK20 Diver

MK21 Diver
AJS



5" Crystal MK21 Diver

MK16 Diver
AJS



5" Crystal MK16 Diver

Closed Circuit Diver
AJS



5" Crystal Closed Circuit Diver

CCDBA Diver
AJS



5" Crystal Diver

MK20 Diver
AJS



5" Crystal MKV Diver & Mermaid

Anti-Mine Diver
AJS



6" Crystal Anti-Mine Diver

Speargun Diver
AJS



3" Crystal Speargun Diver

MKV Replica
INN50xx



MKV copper and brass replica with wooden base. 12" or 18"

Authentic Replica
NAUREPLICA



Full size fiberglass Japanese divers helmet replica. Approx. L 15" x W 15" x H 15".

Commercial Diver
INNGP4301



MKV helmet and commercial dress diver statue with base, 18" tall. Seagull not included.

Brass Cargo Lamp Replica
INNGP51xx



Authentic reproduced brass cargo lamp. Lamp bulb is the color of an oil flame. Avail. in 14 1/2" or 11".

24" Ships Wheel Clock
INNGP5006



Brass porthole clock mounted on ship's wheel. Diameter is 24".

Helmet Clock
INNGP5008



Made of solid copper and brass with quartz "Ship's Clock" mounted in helmet face plate. Height 8", width 10".

Porthole Clock
INNGP5007



Large brass reproduction ship's clock, 8" in diameter, three screw wall mount.

Ship's Transmission Controller
INNGP5095



42" Brass ship's controller.

Brass Porthole Mirror INNGP5130



11 1/2" Brass Porthole mirror, mirror has a hinge so it can swing away from wall.

Brass Bell
INNGP5135



Solid brass wall mount bell, 4 3/4" in diameter, and approximately 6 1/2" tall.

MKV Key Chains
DES6014



Mark V keychains available in pewter and brass models.

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AQUA TECH

Apparel

APPAREL

Aqua Tech Tee
White w/6 color print



ATTDxx

Aqua Tech Mermaid Tee
White w/6 color print



ATTxx

Aqua Tech Diver Tee
Navy w/Gold print



ATTBGxx

Aqua Tech Fish Tee
Navy w/6 color print



ATTF

Aqua Tech Embroidered Polo

ATP1xx



Aqua Tech Polo shirts are Navy Blue with Gold Embroidery

Sweet Revenge Tee



AMPD0042W

TRUWEST
True Arctic Parka
TRUDECTAxx



True West parka has a waterproof shell, and the exclusive TruArctic liner. Wicks water away quickly, leaving you warm and dry.

Sunken Helmet Tee
Black



AMPD0044B

Eel Cave Tee
Black



AMPD0004B

Sunken Plane Tee
Black



AMPD0015B

Dive the Night Tee
Black



AMPD0043B

I Get Tanked Tee
White w/6 color



AMPD0036W

O' Neill Hat



ONE0716

Aqua Tech Embroidered Hat



ATH1

O' Neill Hat



ONE1076

Trident Hat



TRIAP05

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EQUIPMENT MAINTENANCE

McNett Max Wax
MCN28114



Zipper lubricant in stick form with reusable container. Weight 3/4 oz.

McNett Zipper Ease
TRILP22



Easy to apply lubrication stick for use on zippers exposed to salt water, and chlorine. May be used in some moist environments to prevent rust.

McNett Silicone Grease
MCN26xxx



Food grade silicone. Oxidation resistant, helps preserve rubber. Great for "O" rings, fin straps, and some metal and plastic parts. 1/4 oz. & 1 1/2 oz. Larger quantities available.

Trident Liquid Silicone
TRISA68



Food Grade liquid silicone. Available in 1 gallon quantities.

McNett Silicone Spray
MCN20xxx

Contains Food Grade silicone. Great for rubber preservation, metal and plastic part lubrication, also ozone safe. Available in 12 oz. and 3 1/2 oz cans.



McNett Silicone Pump
MCN22xx4

Food Grade silicone in pump spray applicator. Great for rubber preservation, metal and plastic part lubrication. Available in 8 oz. and 1 gallon pump.



Trident O2 Lube
TRINT61



Specially designed lubricant grease that is oxygen compatible, chemically inert and odorless, not water soluble. For Nitrox and O2 breathing systems. NLGI Grade 2, light duty, wide temperature grease.

McNett Seal Saver
MCN24114

Dry suit seal conditioner. Helps seals maintain flexibility, preserves and lubricates seals. Works on latex, urethane, and neoprene seals. 1 1/4 oz. container.



McNett Wet Suit Shampoo
MCN30xx4

Lemon scented cleaner and conditioner for use on all neoprene products. Eliminates odors and organic residue when washed properly. Keeps suit from feeling sticky and dirty. Available in 8 oz. and 1 gallon containers.



McNett B.C. Life
MCN34xx8

B.C. cleaner, conditioner, and mold inhibitor. Proper maintenance means using B.C. Life after each use. Will inhibit B.C. bladder from deteriorating. 8 oz. container.



McNett MiraZyme
MCN36xxx

Odor remover incorporating McNett's extensive scientific research into odor causing enzymes. Highly versatile. Great for wetsuits, drysuits, outdoor gear, shoes, and other stinky things. Available in 2 oz., 8 oz. & 1 gallon containers.



Wet Suit Degreaser
MCN32114

Spot remover. For tough stains on drysuits, and all neoprene products. Apply to food, oil, tar, and organic buildup.



McNett Sea Gold
MCN40850

A very thick anti-fogger for short and long term anti-fog protection. Great for diving mask, and eyewear requiring anti-fog protection. 2 oz. container.



McNett Sea Drops
MCN40114

A concentrated anti-fogger for excellent anti-fog protection. Great for diving mask, and all eyewear requiring anti-fog protection. 1 1/4 oz. container.



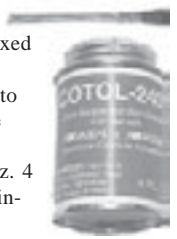
McNett Seal Cement
MCN14xxx

Heavy duty neoprene glue for quick repairs. Available in 2 oz., 4 oz., & gallon containers.



McNett Cotel 240
MCN12xx4

Accelerator and cleaner. When mixed with Aqua Seal, reduces tack time to 15 minutes & cure time to two hours. Available in 1/2 oz. 4 oz. or quart containers.



McNett Aqua Seal Glue **McNett Watersports Combo**
MCN1xxxx MCN11114



Urethane adhesive and sealant. Permanent, flexible, this multi use adhesive is one of the best on the market. Available in 1oz. & 8 oz. tubes.



Watersports combination pack includes; 1 oz. Aquaseal, 1/2 oz. cotel 240. Everything you need to make rapid field repairs. Every spare parts kit should have a Combo Pack.

McNett Iron Mend
MCN16xxx



Iron on repair fabric for all neoprene fabrics. Use household iron for repairs on wet suits, dry suits, lycra suits, waders and neoprene accessories.

McNett Seam Tape
MCN18110



Seam tape, for gluing and setting seams. Comes in black, 20 mm wide.

Masks

MASKS AND ACCESSORIES

Scubapro *Frameless*
SBP24340000



Black Silicone, Frameless Design
High Volume

Ocean Master *View 3*
OCE4325xx



Black Silicone Skirt/Black Clear Silicone
Skirt/Blue/Clear/Pink 3 Window w/Q
Strap adjusts easily w/no tangle & Purge
Valve

Aqua Lung *Scan*
USD5029xx



Black Silicone Skirt/Black 3 Window
Design High Volume

Aqua Lung *Maui*
USD503350



Black Silicone Skirt/Black
Single Window
Low Volume

Cressi Sub *Sky*
CREDS2210xx



Black Silicone Skirt/Black
Clear Silicone Skirt/Clear Single
Lens

Cressi Sub *Focus*
CREDS2420xx



Black Silicone Skirt/Black
Clear Silicone Skirt/ Double Lens, Low
Volume

Cressi Sub *Big Eyes*
CREDS2620xx



Black Silicone Skirt/Black
Clear Silicone Skirt/Clear Double
Lens, Low Volume exceptional
downward field of view

Oceanic *ProEar*
OCExxxxxx



The Pro Ear mask keeps your ears dry
and allows easier equalization. If you
have ear problems or you are diving in
polluted water, this mask is for you.

Aqua Lung *Hawaii 2*
USD5025xx



Black Silicone Skirt/Black Clear
Silicone Skirt/Blue/Clear/Pink 2
Window Design

Aqua Lung *Hawaii 3*
USD5045xx



Black Silicone Skirt/Black Clear Silicone
Skirt/Blue/Clear/Pink 3 Window Design

Aqua Lung *Pacifica*
USD5078xx



Black Silicone Skirt/Black Clear
Silicone Skirt/Yellow Single Lens,
High Volume, Purge Valve

Aqua Lung *Atlantis*
USD5077xx



Black Silicone Skirt/Black
Clear Silicone Skirt/Yellow
Single Lens, High Volume

Aqua Lung *Wraparound*
USD5026xx



Black Silicone Skirt/Black
Clear Silicone Skirt/Clear S.S.
Frame, 3 Window Design Light
Bar Available for Military use

Chemlite Bar
TTLA7171



Light Bar attaches Chemical Light
(cyalume) to the frame of the Aqua Lung
Wraparound Mask.

Chemlite Bar Repair Kit
TTLARK



Light Bar repair kit for the Aqua
Lung Wraparound Mask.

**Marsoop Neoprene Mask
Strap & Cover MARMKM**



Marsoops wide buoyant strap, will
keep your mask afloat if it falls off.
Inverting the strap will allow you to
have a protective pouch for your
mask.

Aqua Lung *Seal*
USD2204xx



Clear Silicone Skirt/Black, Blue
Black Silicone Skirt/Camouflage
available w/tinted lenses

Dacor *Bandit*
DAC5095xx



Black Silicone Skirt/Black Clear Silicone
Skirt/Blue

Rubber Mask Straps



A) Scubapro Black Rubber
SBP24461023
B) Underwater Kinetics Black Rubber
UND26032

Silicone Mask Straps



A) Scubapro Black Silicone
SBP24580025
B) Clear Silicone Slimline
TRIRP50 (not shown)

AQUA TECH

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www.Divecenter.com

FINS AND ACCESSORIES

Scubapro Twin Jet
SBP2538xxxx



Black or Graphite. Uses an unconventional hydrofoil shape that produces forward motion with less effort than any traditional blade.

Scubapro Jet
CREDS2210xx



Light weight construction Vented fin design helps to decrease resistance on the upstroke.

IDI Frog
IDIFN406x



Black Rubber or Black w/Blue The original non-vented power fin. This fin provides excellent propulsion for those divers with strong legs.

Force Fin Extra Force
FOREXTRA



Sizes S-XXXL

Black (Tan Delta available) Force Fins most powerful fin. variable thrust allowing you to shift gears while you're underwater. Toes free and adaptable for Force Wings.

Force Fin Whiskers
FORWHISKERS



Whiskers allow for variable thrust on many styles of Force Fins.

Apollo Bio Fin
APO1508xxxxxx



This fin provides faster speeds for longer duration than traditional fins. Less resistance with maximum propulsion.

Aqua Lung Rocket & Super
USD621xxx



Black rubber only One of the first vented rubber fins. Traditional all rubber design. New quick release buckles.

IDI Turtle
IDIFN418



This vented fin comes in one size only and is large enough to accommodate a commercial bottom boot or a combat boot.

Force Fin Pro
FORPRO



Sizes S-XXXL

Black (Tan Delta Available) Among the most efficient fins in U.S. Navy sponsored research. Toes free to reduce cramping, V shaped blade channels water for maximum thrust.

Blades Quick Clip Kit
USD622680



Black Rubber fin strap w/ buckles and mushroom clip (sold individually)

Aqua Lung Blades 2
USD626xxx



Blue, Neon Yellow or Black Ribbed blade delivers maximum thrust and stability. Rubber foot pocket promotes comfort, rigid sole helps prevent ankle strain

Cressi Sub Frog
CREBF19xxxx



Black w/Yellow, Blue or Graphite. The blade is located on top of the foot pocket increasing blade surface area. Reduced stress on legs. Variable flex blade results in extreme efficiency.

UDT Fin
UDT

subject to availability



Black rubber, Fin used by SAR and SEAL teams for training and by surface swimmers

Force Fin Bungie straps
FORBUNGIE



Bungee Heel Straps make it easier to put the Force Fin on and to take it off. Bungee Heel fleece and nylon pad to cushion the heel.

RocketFin Buckle Kit
USD62115



Black Rubber fin strap w/metal buckle kit (Sold as pair only).

Aqua Lung Pulse
USD601xxx



Black with Blue, Neon Yellow or Black Hydrodynamic styling for efficiency. Rubberized sole for improved traction. Comfortable foot pocket for prolonged use

Cressi Sub Space Frog
CREBD14xxxx



Grey w/Yellow, Blue, Black or Clear Patented Technology with three material molding process increases performance. Variable flex blade. 35% lighter than most fins

Zeagle Teloz Fins
ZEA5204



Lightweight, patented binding system allows for contoured fit, blade is flexible and tracks straight. Foot pocket accommodates bare feet and boots

Force Fin Instep Insert
FORINSTEP



Allows you to use the same Force Fins with booties and barefoot.

Rubber Fin Straps
NAT10382



Black rubber 18" fits most fins, won't slip with most buckle systems.

Fins & Snorkels

FULL FOOT FINN & SNORKELS

Deep See See Fin
DEE7020xx



Negative buoyant full foot fin. Soft pliable foot pocket, semi-stiff blade. Mens sizes 4 13

U.S. Divers Pacifica
USD263xxx



Combination of polymer plastic for stability with rubber for flexibility. Produces maximum thrust and lateral stability. Designed for snorkeling.

Cressi Sub Rondine Light
CRECA19xxxxxx



Light weight, fast durable, powerful. Great economic fin for SCUBA and free diving

Cressi Sub Gara 2000HF
CREBH1150xx



Long rigid fin for the savvy free diver. Light weight for endurance. Fast blade rebound enhancing speed on surface and free dive.

Cramer Decker Vented
CRAAKS400xx



Black Flex or Clear Flex, purge valve. Splash guard vent. Less residual water, easy to clear.

Deep See "J" Snorkel
DEE71xxx



This traditional design is proven and easy to use. Sturdy Flex "J" snorkel, comes with swivel and keeper.

Ocean Master Dry Snorkel
OCE2000xx



Float at air inlet keeps snorkel fully dry. Greatly reduces snorkel clearing resistance. Comfortable and easy to use. Assorted colors available.

Aqua Lung Impulse 2
USD733xxx



Dual purge valves reduces clearing resistance. The Impulse series snorkel is available in Flex or Standard "J", large bore.

Snorkel Keepers
UND2604x



Black Rubber Clear Silicone

Lightstick Holder
TRIFM65



Snorkel attachment for holding chemical light sticks. Will work on most round snorkels.

Silicone Mouthpiece
USD15889



Tough bite tabs, reduces bite through. Clear silicone.

Kraton Mouthpiece
SPO1145SC



Black Kraton Available in 2 types of bite tabs.

Seacure Mouthpiece
SEAxxxx



Seacure moldable mouthpiece designed to custom fit your mouth. Secure fit limits jaw fatigue and relaxes the diver.

Comfo Mouthpiece
USD1058xx



Black or clear silicone. Available in 2 sizes.

Aqua Tech DIVE CENTER



Historical Diving Museum

Russian 3 Bolt Helium Helmet



AQUA TECH

comsales@divecenter.com / milsales@divecenter.com
Toll free 1-800-345-3252 / Fax 619-237-1886

www.Divecenter.com

HOOD, BOOTS, GLOVES, & SANDALS

Aqualung Dryhood
USD3189xx



For use w/Latex Neckseal
Nylon 1 face and neck seal
6.5mm body, vented top.

Titanium Cold Water Hood

6.5mm/4mm
XCEAJ6519FO

4mm/3mm
XCEAJ0419FO



Titanium lined w/Skin in.

O'Neill Zippered Dryhood
ONE0050x



Vented top, Rear Zipper for ease of donning & Skin in face seal.

3mm Flatloc Cap
ONE0165xx



Warm water hood w/Chin strap.
Great for lap swimming and tropical dives

X-Cel Titanium Boots
XCEAJ659620xx

Sizes 5-14



6.5mm Titanium lined, Heel & Toe Cap, Gusseted Zipper.

Deep See Koral King Boot
DEE95211xx

Sizes 5-16



5mm Plush, Zippered, Triple Thick Sole, Rubber Toe & Heel Cap SAR approved

Deep See Echozip Boot
DEE95001xx

Sizes 5-16



5mm, Nylon II, Zippered w/Vulcanized Rubber Sole, also available in no zip.

Scubapro Decksole
SBP57101xx

Sizes 5-12



5mm, Gusseted Zipper, Heel Cap w/ Fin Retainer & Non Marking Sole.

3MM Heat ST Boot
ONE0678xx

Sizes 5-13



3mm, Adjustable Velcro Closure, Coated Scuff Zone, Textured Sole.

Deep See Surf Sock
DEE93651xx

Sizes 5-15



3mm all neoprene bootie for free diving & those who don't require a shoe sole.

Deep See Beach Walkers
DEE9220xx

Sizes 5-13 & Childrens



Flexible non slip rubber sole, Pull on w nylon finger loop, closed cell w/mesh gusset.

NRS Dive Boot
NRS2338xx

Sizes 7-13



This neoprene boot offers all the features of a high quality hiking boot; lace up w/ankle straps and is designed to fit most fin foot pockets.

X-Cel Titanium Gloves

3mm/2mm
XCEAJ329380



5mm/4mm
XCEAJ549380
Titanium Lined, Duraflex Palm & Finger Tips, Velcro Wrist Strap w/V Wedge extended Cuff.

Deep See Kevlar Gloves

5mm
DEE3851xx



3mm
DEE3831xx
Kevlar Palm & Finger Tips, Velcro Wrist Strap. Deep See's most durable glove.

Deep See Admiral Glove

5mm
DEE3851xx



3mm
DEE3831xx
2mm Nylon 2, Padded Synthetic Suede Palm, Velcro Wrist Strap Black SilverSAR approved.

Perfect Fit Cotton Glove
PERWBGR18xx



Cotton w/Crossed Rubber Grip Design Surface, Reversible Very Economically Priced.

DUI Rock Boot
DUIRBxx

Sizes 4-15



Drysuit Boot designed for anyone who walks, hikes or climbs. Non slip sole w/Great Ankle Support.

Steel Toe Bottom Boots
IMRBxx

Sizes 7-14



Commercial Rubber Work Boots w/ Thick Sole & Lace Up.

Teva Universal Approach
TEV6806xx

Sizes 7-16



Self-tailing and side-release fastener Antibacterial, Shock Pad in Heel and Non Slip Spider Rubber Sole.

Teva Terra-Fi
TEV6603xx

Sizes 4-16



Brain Drain Top Sole w/Added Support, Antibacterial, Shock Pad & Non Slip Spider Rubber Sole.

Regulators

REGULATORS

Aqua Lung Legend LX USD129010

Over Balanced 1st-stage
Protective Black Polyurethane Sheath
Environmental Dry Chamber
Superior Air Flow
2 High Pressure Ports
4 Low Pressure Ports
Balanced Second Stage
Breathing adjustment knob
Venturi Adjustment Lever
Lightweight 2nd Stage



Legend LX Supreme, the **Coldwater** version of the Legend LX (below 50 degrees F). Protective lip shield protects lips from heat conductivity. Meets CE standard for coldwater performance
Part Number; USD129040

Aqua Lung Titan USD1031

Balanced diaphragm 1st stage
Dependable 2nd stage
Venturi Adjustment Lever
Titan Glacia, the **Colwater** version of the Titan. First stage dry chamber, and Heat Exchangers.
Part Number; USD103155



Aqua Lung Octopus USD104180

Mid-size octopus
Venturi Assist Adjustment
Large Oral Breathing Channel
39" Yellow LP Hose



Sea Quest Apeks TX100 AQUAP0530

Over Balanced First Stage
Protective Satin Finish
Balanced Second Stage
Breathing adjustment knob
Venturi Adjustment Lever
Lightweight 2nd Stage



Sherwood Maximus CRASRB5600

Balanced First Stage
5 Low Pressure Ports
Adjustable Second Stage
Heat Transfer System
Venturi Adjustment Lever
Moisture Retention Fins
Underarm Hose Configuration



Sherwood Magnum CRASRB5900

Coldwater Regulator
Balanced First Stage
5 Low Pressure Ports
Durable Second Stage
Moisture Retention Fins
Fins are Plated for Heat Retention



Aqua Lung Legend USD129100

Over Balanced 1st-stage
Protective Black Polyurethane Sheath
Environmental Dry Chamber
Superior Air Flow
2 High Pressure Ports
4 Low Pressure Ports
Balanced Second Stage
Venturi Adjustment Lever
Lightweight 2nd Stage



Legend Supreme, the **Coldwater** version of the Legend (below 50 degrees F). Protective lip shield protects lips from heat conductivity. Meets CE standard for coldwater performance
Part Number; USD129106

U.S. Divers Calypso USD105100

High-flow piston design
Dependable 2nd stage
Venturi Assist
Comfo-Bite Mouthpiece
4 Low Pressure Ports



Aqua Lung Low Profile Octopus USD100960

Work well in all positions
Easy Mouthpiece Access for Buddy
Custom Quick-Release Clip
39" yellow hose



Sea Quest Apeks ATX50 AQUAP0500

Over Balanced First Stage
Protective Satin Finish
Balanced Second Stage
Breathing adjustment knob
Venturi Adjustment Lever
Lightweight 2nd Stage



Sherwood Oasis CRASRB5700

Balanced First Stage
5 Low Pressure Ports
Durable Second Stage
Moisture Retention Fins
Extended Exhaust Tee



The Sherwood Dry Air Bleed System keeps 1st stage environmentally sealed, preventing "O" ring deterioration and resists Freeze up. This Feature is highly efficient and unique to all Sherwood Regulators

Aqua Lung Coustea Micra ADJ USD100800

Balanced diaphragm 1st-stage
Breathing adjustment knob
Vane Adjustment Switch (VAS)
Small and Lightweight 2nd Stage



U.S. Divers Titan LX USD129390

Balanced diaphragm 1st stage
Balanced Lightweight 2nd stage
Venturi Adjustment Lever
Titan LX Supreme, the **Coldwater** version of the Titan LX, 1st stage dry kit. **Part Number; USD129370**



U.S. Divers Conshelf XIV USD1081

Durable Balanced Diaphragm
Traditional Chrome Plated
Brass 2nd Stage
Conshelf XIV Supreme, **Coldwater** version
Part Number; USD1088



Sea Quest Apeks ATX200 AQUAA0200

Over Balanced 1st-stage
Protective High Gloss Black Chrome
Environmental Dry Chamber
Superior Air Flow
2 High Pressure Ports
4 Low Pressure Ports
Balanced Second Stage
Breathing adjustment knob
Venturi Adjustment Lever
Lightweight 2nd Stage



The ATX200 is a high performance regulator that is suitable for all diving conditions

Poseidon Odin/Jetstream



Cyklon 5000



Poseidon's offers 2 HP & 4 LP ports, Nitrox ready, DIN valve attachment, Yoke. Includes nylon storage bag. The **Cyklon 5000** is a highly durable regulator with easy breathing resistance. The **Odin/Jetstream** is proven to deliver high volumes of air. This regulator is U.S. Navy approved and a Technical diver favorite. The **Odin** and **Cyklon 5000** have the same first stage.

AQUA TECH

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Toll free 1-800-345-3252 / Fax 619-237-1886

www.Divecenter.com

SCUBAPRO REGULATORS

Scubapro MK25/S600

SBP12970000

Balanced Piston
Chrome Plated Marine Brass
Thermal Insulating System
(Anti-freeze system w/deicing)
5 Low Pressure Ports
2 High Pressure Ports



Balanced second Stage
Venturi Adjust
Technopolymer Body and Components
Lightweight and Compact
Diver Adjustable Breathing Resistance

Scubapro MK25

SBP10710000

The MK25UL (not Shown) is also available. The UL body is machined from Aluminum Alloy with a ceramic like coating.



Balanced Piston
Chrome Plated Marine Brass
Thermal Insulating System
(Anti-freeze system w/de-icing)
5 Low Pressure Ports

Scubapro MK16/S550

SBP12790010

Balanced Diaphragm
Chrome Plated Marine Brass
Thermal Insulating System
(Anti-freeze system w/deicing)
2 Low Pressure Ports
2 High Flow Low Pressure Ports



Durable second Stage
Venturi Adjust
Technopolymer Body and Components
Lightweight and Compact
High-Flow Exhaust Valve

Scubapro MK18UL

SBP10757000

The MK18 Chrome Plated Marine Brass (not shown) is also available.



Balanced Diaphragm
Aluminum Alloy
Ceramic like coating
Completely Sealed first Stage
Thermal Insulating System
(Anti-freeze system w/de-icing)
5 Low Pressure Ports

Scubapro MK2Plus/R380

SBP12562000

Standard Piston
Chrome Plated Marine Brass
Thermal Insulating System
(Anti-freeze system w/deicing)
4 Low Pressure Ports



Durable second Stage
Venturi Adjust
Reversible Hose Attachment
Lightweight and Compact
High-Flow Exhaust Valve

Scubapro MK16

SBP10116010

Balanced Diaphragm
Chrome Plated Marine Brass
Thermal Insulating System
(Anti-freeze system w/de-icing)
2 Low Pressure Ports
2 High Flow Low Pressure Ports



Scubapro MK 2 Plus

SBP10061000

Standard Piston
Chrome Plated Marine Brass
Thermal Insulating System
(Anti-freeze system w/deicing)
5 Low Pressure Ports



Scubapro S600

SBP11600000

Balanced second Stage
Venturi Adjust
Technopolymer Body and Components
Lightweight and Compact
Diver Adjustable Breathing Resistance
High Flow Exhaust Valve



Scubapro D400

SBP11014000

Balanced second Stage
Venturi Adjust
Technopolymer Body and Components
Lightweight and Compact
Diver Adjustable Breathing Resistance
High Flow Exhaust Valve



Scubapro G250HP

SBP11264000

Balanced second Stage
Venturi Adjust
Automatic Anti-Set Feature
Diver Adjustable Breathing Resistance
High Flow Exhaust Valve
Time Tested High Performance



Scubapro R380

SBP11382000

Traditional Downstream Valve
Venturi Adjust
Reversible LP Hose Attachment
Lightweight and Compact
High Flow Exhaust Valve



Scubapro R190

SBP11390000

Classic Downstream Valve
Venturi Adjust
Reversible LP Hose Attachment
Anti-Set Feature



Scubapro R380 Octopus

SBP11383000

Dependable second Stage
Venturi Adjust
Reversible LP Hose Attachment
Yellow Cover
39" Hose



Scubapro R190 Octopus

SBP11315000

Dependable second Stage
Venturi Adjust
Reversible LP Hose Attachment
Yellow Cover
39" Hose



Scubapro Air 2

SBP21086000

Classic Downstream Valve
Balanced Power Inflator
Single Hose Configuration
Orange Oral Inflator Button
Orange Inflator Button
Low Maintenance



DIVING CONSOLES & BOTTOM TIMERS

Suunto Cobra
USD42142



The only air integrated dive computer on the market with separate Air, Nitrox, and Gauge modes, all complete with profile memory. PC Downloadable, 5000 PSI compatible, Metric or Std.

Suunto Viper
USD42185



For the diver who needs high end features, including: PC Downloadable, Built in simulator, Nitrox Programable, Logs last 36 hours, Reduced Gradient Bubble Model, User changeable battery; Gauge Mode

Suunto Fusion
USDxxxxxx



The Fusion is a versatile and dependable dive computer. Lux Backlit display, Audible alarms, Automatic water entry activation; Date/Time; Altitude adj., 9 Dive memory; Full Decompression Info., Dive History

Aqualung Mosquito
USD5976



The Mosquito has a complete Nitrox and Air capability and a freediving mode. Lux Backlit display, Dive alarms, Dive Planning, Date; Altitude adjustable, Extensive memory; Full Decompression Info., Daily Alarm

Suunto Favor
USD42206



The Favor is economical and a complete computer for the new to advanced diver. Luminescent LCD screen; Dive History, Dive Planning, Date/Time, Altitude adjustable, Do Not Fly Indicator, Full Decompression Information

Genesis Resource
GEN2810



The Resource is a reliable dive computer with many years of proven service. HydroGlow illumination, Deco stops to 40 ft., Visual alarms, Automatic altitude adjustable, 12 Dive Log

OMS Bottom Timer
OMSWB



The OMS Bottom Timer with the latest technology providing the diver the following information: Current Depth, Max. Depth, Dive Time, Air/Water Temp., Rate of Ascent, Surface Interval, 9 Dive Log; Alt. Compensation, Max. depth

Sherwood Nav. Console
SHECGxxxx



This 3 Gauge console features easy simultaneous monitoring of depth and direction by placing the compass and depth gauge on the same side. The console includes compass, depth gauge, and pressure gauge. This console is a great choice for group outfitting.

Scubapro Mini VIP 2
SBP28042900



This Dual console comes with depth gauge and pressure gauge. The Mini VIP 2 is great for traveling divers and anyone wanting to streamline their equipment. The brass housed SPG is 0-6000 psi, the depth gauge is 230 foot an air filled.

Suunto Dual Console
USD41182



The Analog Gauge Dual Console is ideal for Rental Departments and groups. Luminous faces, easy to read, bourdon tube mechanics, and maximum depth indicator needle.

Compact Standard
SHECG2210



The Sherwood Compact Standard Console is traditional in design. It places the depth gauge and pressure gauge on the same side. It includes a small round slate on the back which can be replaced by an optional compass.

Electronic Pressure Gauge
UWAXxxx



The first stand-alone electronic gauge in the industry. The same size as a standard SPG. The features are: Backlight; Calculates remaining air time; Low pressure and air time alarm; Temperature; Time; User settable between Metric and Imperial;

Sherwood Pressure Gauge
SHECGxxxxx



These Pressure Gauges feature an easy to read luminescent dial with color indicators, protective boot, 3/2" HP hose, thermometer. Also available in a brass housing. Metric or Imperial.

Uwatec Depth Gauge
SBPA1002



The Compact Depth Gauge has long been one of the most accurate Depth Gauges on the market. The diaphragm construction creates a benchmark for excellence.

Suunto SK 7 Compass
SEAQ41108



The Suunto line of compasses features the SK7. The SK7 is the top of the line compass with a 30 degree tilt range. It can be added to any Suunto console or be worn on the wrist.

These are just some of the many Gauges and Consoles Aqua Tech stocks. There are many different types of Compasses, Depth Gauge modules, and Gauge combinations.

ALADIN COMPUTERS



Aladin Sport Plus

The Aladin Sport Plus brings recreational divers the benefits of multi-level diving, plus a lot more. Specifically designed for recreational divers, the Aladin Sport Plus introduces the benefits of the Buhlmann ZH-L8 ADT (adaptive) algorithm. To maximize a diver's no decompression limit, it includes a variable ascent rate that allows faster ascent at depth, with slower ascents nearer the surface.

While the Aladin Sport Plus is very popular with divers who wish to avoid any decompression stops, should the need occur, the diver is advised exactly when to stop and when to continue. The Aladin Sport Plus continuously displays the no decompression stop time as well as the current depth, maximum depth and elapsed dive time. The Aladin Sport Plus even warns if you are ascending too fast for the allowable ascent rate, at any given depth. For simplicity, the Aladin Sport Plus displays only the important information as the diver needs it.

For post-dive analysis, it's possible to "relive" the dive by downloading the logbook from the Aladin Sport Plus to a personal computer with a Memo Mouse and DataTrak software. This makes the new UWATEC Aladin Sport Plus the ideal dive computer for both new and experienced recreational divers.



Aladin Pro Ultra

The Aladin Pro Ultra expands the diving experience for divers who want to plan and conduct decompression dives, whether breathing Air or Nitrox. This instrument features the advanced Buhlmann ZH-L8 ADT (adaptive) algorithm, which considers any microbubble build up resulting from actual diver behavior. The effects of repetitive diving, diving in cold water, decompression and ascent rate violations are all considered, and if required, included in a revised decompression schedule. If a decompression stop is missed prior to terminating the dive, the diver may be asked to make a longer stop, at a greater depth than the one that was missed.

The Aladin Pro Ultra allows a diver to dive on 21% oxygen (air) or any level of O₂ from 22% to 50% selectable in 2% increments. It monitors and warns on oxygen toxicity limits – both the accumulated CNS clock and the current partial pressure of oxygen.

Once out of the water, the power of the Aladin Pro Ultra can be combined with a personal computer and DataTrak software. This enables a diver to critically analyze diving performance to enhance future diving experience, which makes the Aladin Pro Ultra ideal for enthusiast and professional divers alike.



ALADIN 3 GAUGE Console

The Aladin 3 gauge Console features the Aladin Pro, Nitrox, or Sport computers, the UWATEC analog compass and the UWATEC analog pressure gauge. A serious instrument package designed for serious divers.



DataTrak/Memo Mouse

The DataTrak for Windows package includes software for the PC and a compact portable storage device called a Memo Mouse that stores up to 66 hours of diving information from the dive computer. Information can be downloaded into the Memo Mouse on the spot, and downloaded from the Memo Mouse to a PC at the end of the dive trip.

- Store, Retrieve, Analyze, and Print a Record of Every Dive
- Download from More Than One Dive Computer
- Data Is Recorded at 20-Second Intervals for Greater Detail
- Use Your PC Mouse to Show Depth, Elapsed Dive Time and Maximum Depth at Any Point on the Dive Graph

ALADIN COMPUTERS



Aladin Air Z

The Aladin Air Z is a fully-integrated dive instrument that monitors all the essential information required to maximize the air diving experience. For the full duration of the dive, the Aladin Air Z is monitoring elapsed dive time, water temperature, depth and actual breathing behavior. By monitoring actual behavioral and environmental conditions throughout the dive, the Aladin Air Z can update the Adaptive Buhlmann decompression parameters and modify decompression schedules accordingly. Once the dive is finished, surface interval and altitude changes are continuously monitored to estimate the impact of microbubble formation on repetitive dive schedules.

The Aladin Air Z gives the diver complete diving flexibility. For the serious diver who likes to plan decompression dives, it can be used as a decompression diving computer. Divers who prefer to take a more casual approach to diving can simply keep an eye on the remaining bottom time figure in the lower screen. When this value reaches zero the diver must have started the ascent. The Aladin Air Z will then put them on the surface with a pre-determined air reserve, which is factory preset at 40 bar or 580 psi.

When the dive is finished, the Aladin Air Z can be easily downloaded to a personal computer for post dive analysis.



Aladin Air Z O₂

With an Aladin Air Z O₂, divers can monitor the total diving experience, whether using standard open-circuit scuba equipment on air or Nitrox, or semi-closed rebreather (SCR) equipment.

With conventional open-circuit scuba, it can be used with gas mixtures up to and including 99% O₂. While in this mode, it monitors oxygen toxicity, decompression status, remaining bottom time and a number of other parameters a diver would expect of a sophisticated Nitrox dive computer.

When linked to the OXY-2, an inline SCR O₂ sensor, the Aladin Air Z O₂ gives divers the actual gas composition being breathed, rather than relying on a pre-set percentage. This is important as actual O₂ usage depends on the diver's metabolism. High workloads require a higher supply of O₂ than light workloads, so the actual gas mixture in the rebreather depends on the premixed gas, selected flow and the diver's O₂ consumption (workload). With a reliable measuring device, the diver no longer has to rely on an estimated gas mix. The Aladin Air Z O₂ provides the actual O₂ fraction in the gas mix and the exact partial pressure of O₂ that is being breathed.

Given reliable O₂ measurement and appropriate warnings, the system enhances safety and optimizes performance because calculations are based on actual instead of anticipated loading. While this feature-packed model is ideal for divers who want to experience all levels of diving, its use is solely recommended for divers specially qualified to dive with Nitrox.



OXY-2

The OXY-2 is a sensor/transmitter designed for use with a semi-closed rebreather. The OXY-2 is inserted in the gas flow of the rebreather inhalation hose and contains two oxygen sensors that can be independently calibrated. When paired with the Aladin Air Z O₂, it transmits the actual oxygen content of inhaled gas to the wrist unit.

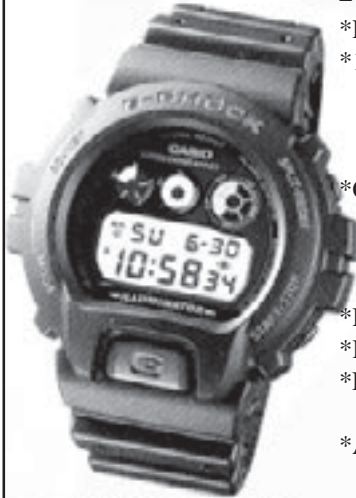
Aqua Tech DIVE CENTER

A full-body mannequin in a white diving suit with a helmet and a large oxygen tank on its back. Below the mannequin is a circular metal plate with text: "U.S. NAVY DIVING HELMET MARK V-MOD I DIVING EQUIPMENT SALVAGE CO. MILWAUKEE, WIS. NO. 10000 DATE 1950".

Historical Diving Museum

CASIO AND CITIZENS WATCHES

Casio G-Shock



DW6900-1V

- Shock Resistant**
- Alarm Chronograph**
- Mineral Crystal**
- Illuminator Backlight**
- 200 Meter Water Resistant**
- *Electro-luminescent backlight
- *1/100 second stopwatch
Measuring capacity: 23:59'59.99"
- Measuring mode: net time, split time, 1st-2nd place times
- *Countdown alarm
Input range: 1 minute to 24 hours
Measuring unit: 1 second
Auto-repeat function
- *Daily alarm
- *Hourly time signal
- *Regular timekeeping: hour, minute, second, am/pm, month, date, day
- *Auto-calendar (pre-programmed until the year 2039)
- *12-24-hour formats
- *Accuracy +-15 seconds per month
- *Battery: Approx: 2 years on CR2016

Casio G-Shock



DW5600E-1V

- Shock Resistant**
- Alarm Chronograph**
- Mineral Crystal**
- Illuminator Backlight**
- 200 Meter Water Resistant**
- *Electro-luminescent backlight
- *1/100 second stopwatch
Measuring capacity: 23:59'59.99"
- Measuring mode: net time, split time, 1st-2nd place times
- *Countdown alarm
Input range: 1 minute to 24 hours
Measuring unit: 1 second Auto-repeat function, repeat function
- *Multi function alarm
- *Hourly time signal
- *Regular timekeeping: hour, minute, second, am/pm, month, date, day
- *Auto-calendar (pre-programmed until the year 2039)
- *12-24-hour formats
- *Accuracy +-30 seconds per month
- *Battery: Approx: 2 years on CR2016

Citizen-Hyper Aqualand

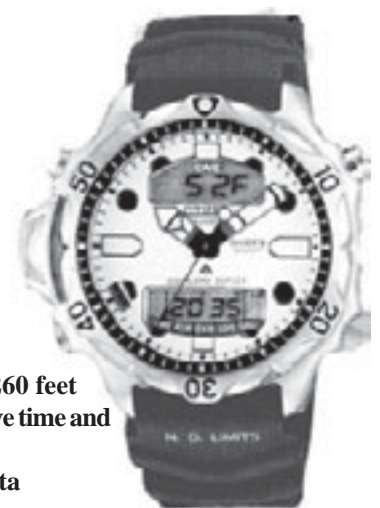
Worlds First Professional Diving Watch with Depth Display Personal Computer Interface



- *Transfer Dive Log Data to PC with included interface
- *Display and /or print dive data and graphs
- *Record diver name, buddy name, date, location and notes
- *Retrieve dive profiles by date or diver name

Dive Features

- *Depth display and memory-current and maximum
- *water temperature display and memory-current and maximum
- *Dive log memory for up to 30 dives
- *Dive start, finish and elapsed time memory (to 199 minutes)
- *Alarms for ascent rate, low battery, display or sensor errors
- *Air temperature display while above water
- *Measures elapsed surface time after the dive
- *200 meter water-resistant



Aqualand Duplex

- *Underwater depth display down to 260 feet
- *Second display for maximum depth, dive time and water temperature
- *4-dive memory of important dive data
- *Auto-start dive mode
- *Rapid ascent warning signal
- *One-way rotating elapsed-time bezel
- *Screw back case and screw-down crown
- *200 meter water-resistant

COMPUTER/WATCH & TIMERS

Stinger Nitrox Computer/Watch



Titanium, Stainless & Economy Models Available

- Nitrox display alerts with visual and audible alarms when oxygen toxicity level becomes too high
- Free Diving/Gauge display shows you the relevant information for either dive by displaying present depth, alternative values for maximum depth, temperature, dive time, current time and dive number
- Ceiling and Floor display alerts with audible alarm, blinking ASC TIME and upward pointing arrow notifying you that your dive has become a decompression stop dive and that you are below the floor depth
- Safety Stop display includes a recommended safety stop in the depth range of 20-10 feet (6-3 meters) for every dive deeper than 33 feet (10 meters)
- Memory display includes high capacity logbook and profile memories with detailed dive information such as dive entry time/date, dive time, personal adjustments, possible violation notations, temperature at max depth, surface interval time and scrolling dive profiles with bookmarks
- Advanced watch functions include calendar, alarm clock and stopwatch
- Life-time history memory storing the total number of dives, dive hours and maximum depth ever reached

Stinger PC Interface: The Stinger memory information can be downloaded to a PC with the Suunto Dive Manager (SDM) software and interface. SDM allows you to keep a complete computerized logbook, simulate dives and analyze and print your dive profiles. SDM even allows you to send your dive profiles to Divers Alert Network, thus contributing to DAN's global Project Dive Exploration. You can download your free copy of SDM at www.suunto.fi.

Aristo Stopwatch 115W

- *8 recallable laps
- *1.1 hour presettable countdown
- *2.30 second shuttle countdown to remind the referee in sport matches that the 30 second time-out period is up.
- *Period presettable from 0.25 sec. beep (240/minute)
- *Beatcount up to 99
- *Water resistant case w/lanyard



Aristo Stopwatch 119W

- *Stopwatch: up to 10 hours in 1/10 increments
- *Split second, two at finish or 20 separate laps with first 7 laps recallable (in memory)
- *Count down stopwatch up to 10 hours with repeatable times past the original setting
- *LCD readout 3/8" high
- *Water resistant case w/lanyard



NAVIGATIONAL INSTRUMENTS

Scubapro *NeverLost Diver Receiver Unit*

SCUA12202



Uwatec NeverLost is a personal diving instrument that makes it simple to return to the entry point at the end of the dive.

NeverLost provides the diver with direction and distance information using two units: a stationary transponder that is placed in the water at the entry point, and a receiving unit carried by the diver. All direction calculations are computer controlled in real time and displayed to the diver using an easy to read LCD. Distance information is displayed on demand using the same LCD.

- * Single Button Control for Ease of Use
- * LCD with Large, Easy to Read Characters Showing Direction and Distance
- * Distance indicator Displays in 1 foot or meter increments
- * Operational Range up to 1000 feet or 300 meters
- * Four User-Selectable Channels to prevent Conflicts with other transponders
- * User Replaceable Standard Batteries
- * Up to 30 Diver Units can be Linked to One Transponder
- * Receiver Unit can be carried in a Dive Bag or BC Pocket

Scubapro *NeverLost Base Unit*

SCUA12201



Speedtech *Portable Depthfinder*

SPESM5



The depthmate portable depth finder can be used for accurate depth readings from a boat, a pier, underwater, or any depth finding platform.

This positive bouyant depthfinder can be switched from feet to meters, accurate to 250 feet or 80 meters. Depthmate takes a 9V battery, good for approximately 500 readings in continuous scan mode.

Operates at 400Khz, and has a beam angle of 6 degrees. Lighted digital display.

Meridian™ Marine



The Meridian Marine, one of Magellan's new premier line of rugged GPS hand-held receivers, was designed with serious navigators in mind, who demand a superior easy-to-use navigational tool to get them where they need to be. The Meridian Marine is customized for the mariner with a built-in background map that includes fixed nautical navaids, buoys, obstructions, and light-houses for increased functionality and added safety on your next boating adventure.

BUOYANCY COMPENSATORS

Zeagle Ranger

ZEA7907R



Weight integrated, 1050 denier Ballistic nylon, 6 D-rings, 2 zippered pockets, waist closure is a single buckle with elastic waist panels, 44 lb. lift (65 lb. and larger avail.). Single or twin tank capability.

Aqua Lung "The Wave"

USD7699xx



Tough / durable Armor shield Cordura material, Velcro cummerbund, Two large Velcro pockets, Carrying handle integrated into backpack. Two stainless steel D-rings. For children, the "Wave Jr".

Scubapro Knighthawk

SBP22130x10



Scubapro Ladyhawk

SBP22102xxx

please call for specs.

Streamlined, retractable aircell, Ultralight backplate and backpack, Depth Compensating Cummerbund, 1000 Denier Nylon, Weight Integrated, 2 pockets, 4 SS "D" rings, Rear Trim pockets. Available with power inflator or Air 2

Sherwood Freedom

SHEFRE00x



Back Inflation Unit, 10 S.S. D-Rings, Weight Integrated, Depth Compensating Cummerbund, double backpack straps for a secure cylinder, Elastic Front Closure allows full surface inflation without squeeze, 1000 Denier Urethane backing, includes Power Inflator and Safety Tube

Zeagle Escape

ZEA7105



Excellent lightweight B.C. for travel or local diving. Weight integrated, 430 denier nylon, 4 delrin D-rings, 4 utility pockets, 35 lb. lift capability low profile bladder. Depth compensating cummerbund.

Malibu RDS

USD7697xx



Back inflation 30 lbs, weight integrated, 420 Denier, depth compensating cummerbund, chest strap, BC positioning strap. Excellent traveling BC, Very compact when packed.

Scubapro Glide Sport

SBP22176x00



Constructed of 420 denier nylon Wrap-Around aircell, Waist Cummerbund and quick release chest strap, Weight integrated, Compact backpack with handle, 2 large Cargo Pockets

Zeagle SAR

ZEA7807R



The SAR and 911 are buoyancy systems specially designed for **Public Safety Divers**. Using Technical diving BC's as a benchmark for the design of these B.C.'s. Weight integrated, 1050 denier ballistic nylon, 65 lb. lift, 10 S.S. D-Rings, 11" spaced grommets for twin tanks, 2 zippered utility pockets, adjustable sternum strap, small lumbar pad, 2 double pull waist buckles in front, and SOLAS reflective tape. The only difference between the SAR and 911, the SAR has a permanently installed lifting harness.

Aqua Lung Maverick

USD7719xx



Weight integrated, Armor Cordura material, Stout D-rings, pocket w/retractor attachment, Depth compensating waistband, adjustable torso straps w/quick release buckles. Fully padded back pad.

Sea Quest Black Diamond

AQU34609x



Back inflation, 3D expandable, constructed of 840 denier nylon. Weight integrated, additional 2 side non-ditch pockets. 6 SS D-rings, and other great accessories.

Sea Quest Diva LX

AQU353xxx



Ladies jacket with 3D rear bladder, Armorshield Cordura, urethane slick skin. Weight integrated, depth compensating/multiset waistband. 2 Extra large pockets, and 5 SS D-Rings, other features included.

Zeagle 911

ZEA7607R



Specially Designed B.C.'s for Public Safety Applications

AQUA TECH

comsales@divecenter.com / milsales@divecenter.com
Toll free 1-800-345-3252 / Fax 619-237-1886

www.Divecenter.com

BUOYANCY COMPENSATORS

Calypso Military BC

USD394050



Single utility velcro pocket located mid-chest. Air Mic inflator w/integrated pull dump. Integrated twin 38-gram CO2 cartridges, Military approved.

OMS Retraction Band BC

OMSBC117-xx



Outer bag constructed of 1000 denier, inner single bladder is urethane. 2 Relief valves. Retraction bands streamline BC, distributes air evenly. This BC comes in #100 pound lift or #40 pound lift.

OMS IQ Pack

OMSIQHARNESS



Optional backplate allows diver to use soft or hard backpack. 2 butt mounted D-rings, 3 D-rings per side, 1 adjustable D-ring on each side of chest area, and 2 D-rings in the waist.

AIR MIC Inflator

USD778660



Air Mic inflator assembly. Includes mani fold, gasket, collar, rapid exhaust valve, 13.5" hose, and air mic inflator.

Seatec Sunfish

SEA1040



The bellwether of standard B.C.'s. Made of highly rugged 1000 denier nylon. This puncture resistant Military approved BC comes with single, or twin CO2 detonation.

OMS Dual Bladder BC

OMSBC118-R



Dual bladder, 1000 denier, urethane bladders. 4 Pull dumps. Elastomeric retractable bands. Divers side bladder located at lower left and upper right. Tank side bladder located at lower right and top left. Orange or black.

OMS Deluxe Harness

OMSBPxxx



Stainless steel backplate with Deluxe Harness, or an aluminum backplate. Incorporates single chest side or a side release buckle on each chest strap. 4 Chest and 2 waist area D-rings. Shown with optional No Sag pocket.

National Inflator Assembly

NAT10707



Inflator assembly. Includes manifold, gasket, collar, rapid exhaust valve, 19" hose, and low pressure inflator.

National Snorkeling BC

NAT107xx



This light weight snorkeling BC, is one bag construction. Comes with oral inflator. Available in neon green with CO2 detonator, or yellow w/o CO2 detonator.

OMS Single Bladder BC

OMSBC116-xx



Single urethane bladder BC, outer bag is 1000 denier nylon. One dump valve. Available in black 35 lb. and 45 lb. lift. Available in black or red at 55 lb. or 65 lb..

OMS Backplate

OMSBP0xx



This muscular backplate comes in stainless steel, weight 6 lbs., or aluminum, weight 2 lbs. Specially designed for the OMS harness and IQ pack systems, and OMS BC bladders.

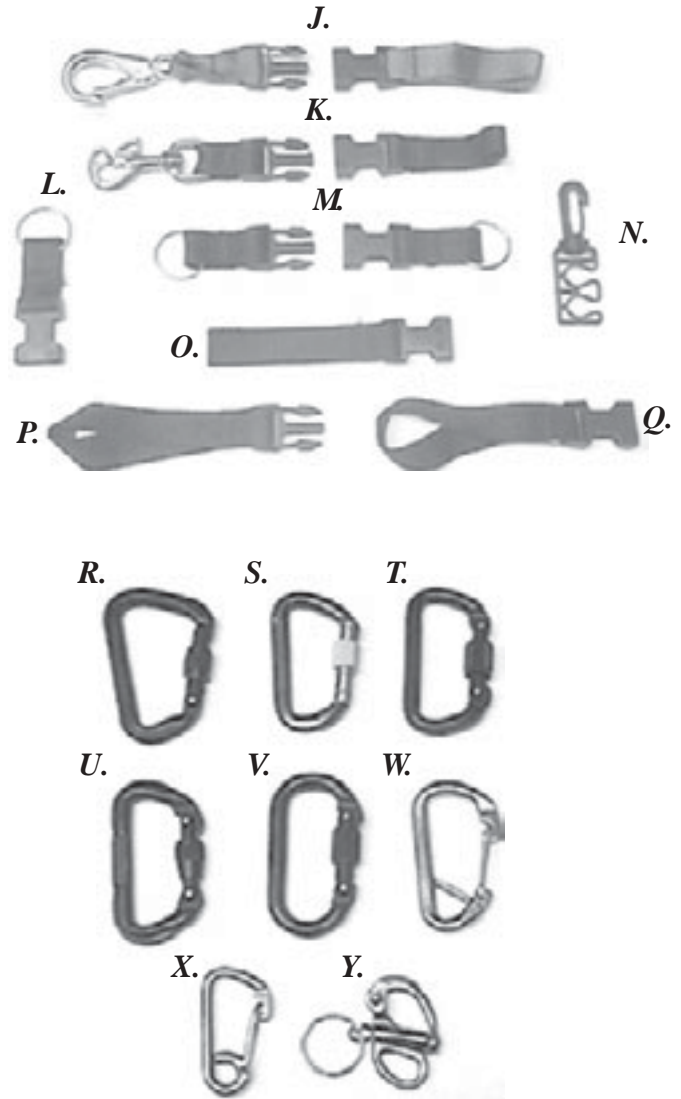
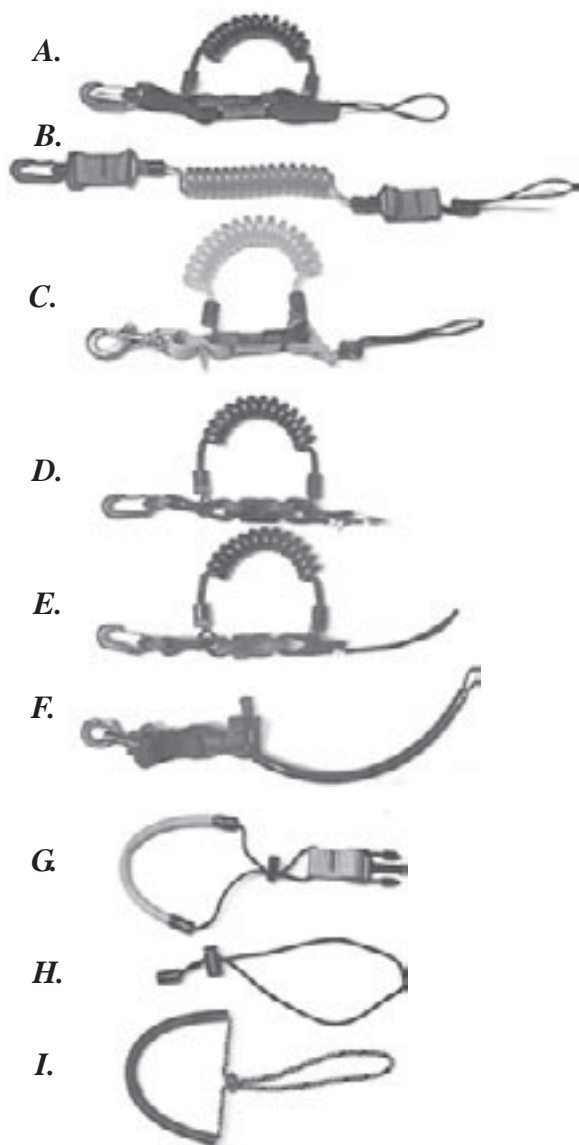
Trident Low Pressure Inflator

TRIAA45



Low pressure inflator assembly. Fits most standard low pressure quick disconnect hoses.

LANYARDS & GEAR CLIPS



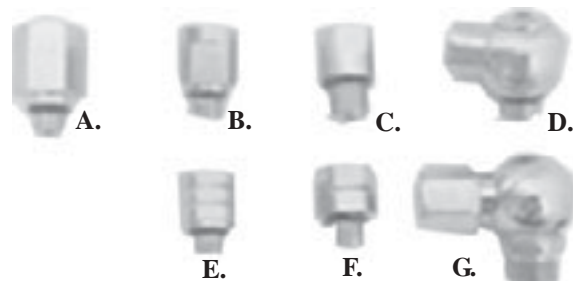
- A. **TRIRP03** Quick Release clip with coil lanyard
- B. **TRIRP01** Coil lanyard, clip to lanyard end
- C. **TRIRP79** Coil lanyard, brass clip to lanyard end
- D. **TRIMC03** Magnetic clip with coil lanyard
- E. **TRIMC02** Magnetic clip with coil lanyard
- F. **TRIMC85** Magnetic clip console/coil lanyard
- G. **TRIQR82** Safety lanyard to quick release male end
- H. **USE1** Nylon lanyard
- I. **UND44120** Nylon wrist lanyard
- J. **TRIQR06M** #2 Brass swivel with quick release male
- K. **TRIQR07M** #3 Brass marine clip with quick release male
- L. **TRIQR74** Female split ring
- M. **TRIQR40** Split ring to split ring conversion kit
- N. **TRIAA70** Hose holder clip
- O. **TRIQR70** 2" Female belt loop kit

- P. **TRIGC09** Male wrap around webbing clip
- Q. **TRIGC08** Female wrap around webbing kit
- R. **CLIK7370004** Large "D" screwgate locking carabiner
- S. **TRIGC01** Aluminum screwgate carabiner
- T. **LIB433017** "D" screwgate locking carabiner
- U. **LIB433110** "D" screwgate locking carabiner
- V. **LIB433012** Oval screwgate locking carabiner
- W. **TRIGC99** Stainless #4 wire snap carabiner
- X. **TRIGC13** Stainless #3 wire snap carabiner
- Y. **TRIGC40** Stainless halyard snap shackle

**Aqua Tech can supply all of your fastener needs.
If someone makes it, we can help you find it.**

SPORT DIVING HOSES/FITTINGS

- A. 3/8" Male to 1/4" FNPT,GLO57250
- B. 3/8" Male to 1/2" Female,DANAD35
- C. 1/2" Male to 3/8" Female,DANAD53
- D. 7/16" Male to 7/16" Female 90 degree HP Swivel, ...TRIAA57
- E. 3/8" Male to 7/16" Female HP Adapter,DANAD34
- F. 7/16" Male to 3/8" Female HP Adapter,DANAD43
- G. 360 Degree Regulator Swivel,TRIAA56
- H. 1/4" O2 Male to 3/8" Male,AT230
- I. 1/4" O2 Male to 3/8" Female,DANAD43



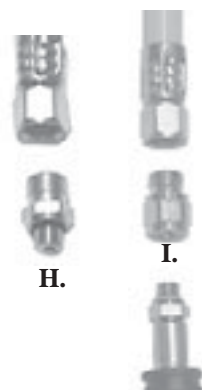
LOW PRESSURE REGULATOR HOSES				
Working Pressure 500 psi 5/16" I.D.				
LENGTH	*****Fitting Size*****			
INCHES	3/8"x 24	1/2"x 20	Poseidon Odin	AGA Hoses
6"	LP6	5LP6	*****	*****
28"	LP28	5LP28	LPP28	*****
30"	LP30	5LP30	*****	*****
32"	LP32	5LP32	LPP32	LPAGA32
34"	LP34	5LP34	*****	*****
36"	LP36	5LP36	LPP36	LPAGA36
38"	LP38	5LP38	*****	*****
40"	LP40	5LP40	*****	*****
42"	LP42	5LP42	*****	*****
48"	LP48	5LP48	*****	*****
60"	LP60	5LP60	LPP60	LPAGA60
72"	LP72	5LP72	*****	*****
84"	LP84	5LP84	LPP84	*****
96"	LP96	5LP96	*****	*****

Aqua Tech Hookah Hose

ATB13006FDA



Regulator not included



HIGH PRESSURE REGULATOR HOSES				
Working Pressure 5,000 psi 3/16" I.D.				
LENGTH	*****Fitting Size*****			
INCHES	7/16"x 20	3/8"x 24	1/4"npt-1/4"npt	3/8"x 24-1/4"npt
6"	HP6	3HP6	*****	4MS4MP6
28"	HP28	3HP28	TANK	*****
30"	HP30	3HP30	FILL	*****
32"	HP32	3HP32	HOSES	*****
34"	HP34	3HP34	(male 1/4"npt)	*****
36"	HP36	3HP36	*****	4MS4MP36
38"	HP38	3HP38	*****	*****
40"	HP40	3HP40	*****	*****
42"	HP42	3HP42	*****	*****
48"	HP48	3HP48	THP48	4MS4MP48
60"	*****	*****	THP60	*****
72"	HP72	3HP72	THP72	4MS4MP72
96"	HP96	3HP96	THP96	4MS4MP96
120"	HP120	3HP120	THP120	4MS4MP120

HOSE END ADAPTERS

PART NUMBER	DESCRIPTION
AD34	3/8"x 24m to 7/16"x20m
AD43	7/16"x 20m to 3/8"x 24f
AD35	3/8"x 24m to 1/2"x 20f
AD53	1/2"x 20m to 3/8"x 24f
AD63	9/16"x 18m to 3/8"x 24f
TRIDA41	3/8"x 24m to 9/16"x18m (connects two hoses to extend length and connects SCUBA hose to hookah hose)
	(connects first stage to hookah hose)

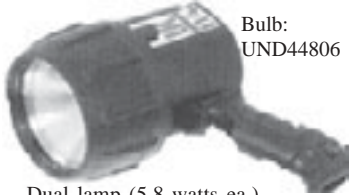
BC INFLATOR HOSES

Working Pressure 300 psi

LENGTH	*****Fitting Size*****		
INCHES	3/8"x 24	1/2"x 20	Octopus QD hoses
28"	BC28	5BC28	IRQD28
30"	BC30	5BC30	IRQD30
32"	BC32	5BC32	IRQD32
34"	BC34	5BC34	IRQD34
36"	BC36	5BC36	IRQD36
38"	BC38	5BC38	US Divers Airmic
40"	BC40	5BC40	Seaquest Air Source
42"	BC42	5BC42	Zeagle Octopus

LIGHTS

UK Sunlight D4 UND4402x



Bulb:
UND44806

Dual lamp (5.8 watts ea.)
7-10 hours on 4 D-Cells
dim: 4" dia. x 6" Lantern or Pistol
Grip, Lanyard

UK Sunlight C4

UND1901x



Bulb:
UND19904

Dual lamp (6.6 watts ea.)
3.5 - 4.5 hours on 4 C-Cells
dim: 3.2" dia. x 5.2"
Lanyard & Batteries

UK SL4

UND 800xx

Bulb: UND80501



Daytime light (good backup)
5.5 watts 4-5 hours on 4 C-Cells
dim: 6.2" x 2.46" x 1.7"
Lanyard & Batteries

Pelican Super Mitylite

PEL1970C

Bulb: PEL1974



Includes: Shirt clip, split ring, Lite
bender, Xenon lamp module and 2
AAA Batteries (included). 4.75" long

Pelican Super Saberlite

PEL2000C

Bulb: PEL2004



Includes: Belt spring clip, S.S. split
ring & lanyard. 7-13/16" long 12,000
cp on 3-C-Cells (batteries not in
cluded)

UK D4 Rechargeable UND4450x



Bulb:
UND44807
UND44806

Dual lamp (18 watt & 5.8 watt) 1.25 - 3
hours Nicad pack dim: 4" dia. x 6" Lan
tern or Pistol Grip, Lanyard & Batteries

UK C4 Rechargeable

UND1920x



Bulb:
UND19905
UND19904

Dual lamp (10 watt & 6.6 watt) 1.4 - 3
hours Nicad pack dim: 3.2" dia. x 5.2"
Lanyard & Batteries

UK SL6

UND1801x

Bulb: UND18503



Daytime light (good backup) 8 watts 4-5
hours on 8 C-Cells dim: 8.7" x 2.46" x
1.7" Lanyard & Batteries

Pelican Super Mitylite

w/PeliKnife PEL1980

Bulb: PEL1974



Includes: Mitylite, Shirt clip, split ring,
batteries (included), storage box and knife
w/ 1-7/8" S.S. blade.

Pelican Stealthlite

PEL2400C

Bulb: PEL2404



Safety switch & double shock mounted
battery compartment & lanyard 5-6 hours
on 4 AA's (included) 10,000cp 6-1/2" long

UK Sunlight D8 UND4502x



Bulb: UND45801

Dual lamp (14 watts ea.) 7-10 hours
on 8 D-Cells dim: 4" dia. x 8.25"
Lantern or Pistol Grip, Lanyard

UK Sunlight C8

UND1941x



Bulb:
UND19914

Dual lamp (13.2 watts ea.) 3.5 - 4.5
hours on 8 C-Cells dim: 3.2" dia. x
7" Lanyard & Batteries

UK Mini Q40

UND1401x

Bulb: UND14801



Mask Mount light (good backup)
2.1 watts 4-5 hours on 4 AA's dim:
5.6" x 1.5" x 1.2" Mask mount strap
& Batteries

Pelican Mitylite LaserSpot

PEL1900C

Bulb: PEL1904



Includes: Shirt clip, Laser spot lamp
module, 2 AAA's (included) &
litebender. 4-3/4" long

Pelican Stealthlite

Rechargeable PEL2400C



Bulb:
PEL2454

Includes: 110v or 12v charger (desk/
dash mount) & Nicad battery pack 1hr
10min. @ 15,000 cp, 6-1/2" long

UK D8 Rechargeable UND4550x



Bulb: UND45802
UND45801

Dual lamp (30 watts & 14 watt) 1.5
-3.5 hours Nicad pack dim: 4" dia. x
8.25" Lantern or Pistol Grip, Lan
yard

UK C8 Rechargeable

UND1960x



Bulb:
UND19915
UND19914

Dual lamp (20 watt or 18.5 watt)
1.5 - 2.5 hours Nicad pack dim:
3.2" dia. x 7" Lanyard & Batteries

UK Mini Pocket Light

UND090xx



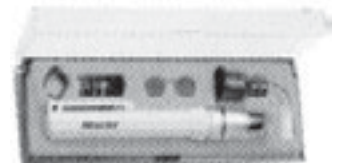
Bulb:
UND09801

Key ring/Hat light 1.13 watts 2-2.5
hours on 2 AAA's dim: .74" x 2.9" x
1.1" Slip on Hat Clip, Key ring &
Batteries

Pelican Mitylite System

PEL1950S

Bulb: PEL1904



Includes: Mitylite, spare lamp,
litebender, xenon lamp module,
storage box & 2 AAA's (included)

Pelican Heads Up Light

PEL2600xx



Bulb:
PEL2604LM
PEL2605LM

Includes: 2-Krypton bulbs (one high
intensity & one low), adjustable beam,
comfort forehead pad w/rubber or
cloth strap. 4 AA's (included)

LIGHTS & STROBES

Pelican King Lite

PEL4000MS

Bulb: PEL4003

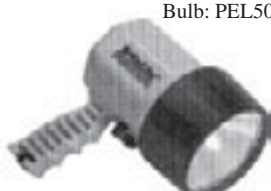


Dual filament bulb, pistol grip, negative or positive buoyancy & lanyard: 10-12 hours on 8 D-Cells (n/i) 14 watts 9-3/8" long

Pelican Britelite

PEL5000MS

Bulb: PEL5003



Dual filament bulb & lanyard 10-12 hours on 4 D-Cells (not included) 7 watts, 7-1/4" long

Princeton Vortec Headlamp

PRIHL40

Bulb: PRIHMP20



Head mounted, focused wide beam 5 hours (w/krypton bulb) 8 hours (w/halogen bulb) on 4 AA's (included) (red lens & narrow beam available)

Princeton Aqua Flash

PRIAF25



Alternately flashes high & low intensity 8 hours @ 2 watts on 2 AA's (included) w/lanyard and strap slots for arm or wrist band option.

Princeton Aqua Strobe

PRIAS10



70 flashes per minute w/3 mile visibility in clear conditions. 8 hours on 1-AA (included) lanyard & velcro strap.

Princeton Aqua Flare

PRIAF20P

Bulb: PRIPR4



Cone is easily removed underwater to reveal a mini flashlight & cone glows in case of light failure. 8 hours @ 2 watts on 2 AA's (included) lanyard.

InnovativeLazer-Stik

INNLT00xx



6" Battery operated light stick Constant on lasts 12 hours & Flashing model lasts over 20 hours, red & orange uses watch type batteries (included).

Innovative Yoke Light

INNLT3xxx



Regulator Yoke Screw Constant on lasts 12 hours & flashing model lasts over 30 hours uses coin cell lithium batteries (included).

Mini-C Fluorescent

IKE11xx



Compact Multi-purpose Light 3 4 hours halogen, 10 hours fluor. 4-C alkaline Batteries dim: 3" x 7"

Trident U/W Strobe

TRIDL05



Light Weight Underwater Strobe 25 hours on 1-C alkaline can be used underwater to 130'.

ACR Firefly II

LIF316



Rescue Strobe Light 8 hours on 2-AA alkaline dim: 4" x 2.2" x 1", weight 4 oz. USCG and FAA approved

ACR CSAR Strobe

LIF317



Combat SAR Strobe Light Meets MIL-L-38217 Specs 8 hour strobe on 2-AA alkaline dim: 4.5" x 2.2" , weighs 4 oz.

Emergency Strobe II

LIF319



Emergency Strobe and Flashlight Flashes 60 times per minute 10 hour strobe on 2-AA alkaline dim: 1.83" x 5.3" , weighs 5.6 oz.

Chemical Light Sticks

CHE06xx/CHE04xx



Chemical Light Sticks available in 4" and 6" lengths, and assorted colors. Burn time approx 6-8 hours.

PML Chemical Light

LIF231



Chemical light designed for life preservers. Squeeze handle to activate. USCG and FAA approved

Chemlite SOS Signal

LIF569



Chemlite with an attached 30" lanyard. High intensity orange with a five minute burn time.

Lightstick Holder

TRIFM65



Snorkel attachment for holding chemical light sticks. Will work on most round snorkels.

Chemlite Strap

LIF230



Used for attaching light sticks to carabiners, rescue hooks etc. Brass and stainless steel. NAVAIR approved.

Chemlite Bar

TTLA7171



Light Bar attaches Chemical Light (cyalume) to the frame of the Aqua Lung Wraparound Mask.

Chemlite Bar Repair Kit

TTLARK



Light Bar repair kit for the Aqua Lung Wraparound Mask.

KNIVES, LINE CUTTERS & TOOLS

Trident Scissors
TRIKN25



Cutting scissors with nylon sheath and "D" ring.

U.S. Navy Diver's Knife
DES29228



This knife continues its legacy and tradition into the 21st century. Polished brass and threaded sheath. 7" Steel blade with walnut handle.

Trident Knife Strap
TRIRP41



Quick release knife strap, made of neoprene rubber, 24" long.

Spyderco Utility Knives
SPYxxx



Designed for attachment above the waist. 3" Blade length, blade steel Aus-8. shackle clip SpyderEdge/ Sheepfoot.

Trident Clip Knife
TRIKNxx



Trident clip knives are great for a backup surface knife. Can be clipped on belt, harness, tool belt or anything else you can think of.

Deep See EZ Lock Knife
DEE81xx



Patented positive lock sheath. Serrated blade. Available in blunt tip, medium/dolphin point, and drop point. Blade length 3 3/4".

V-Blade Line Cutter
F061145



V-Blade line cutter. Commercial quality, able to cut most any line. Heavy duty industrial construction.

OMS "J Hook" Knife
OMSALCUT



Designed for use with cold water gloves as well as bare hands. Effective in cutting severe entanglement. Very sharp.

Scubapro



Easy to handle and attach. Great for backup or primary knife. Steel is K4 stainless.

Trident Divetool
TRIDA67



Stainless steel multi tool kit with contoured super grip frame. A requirement for any spare parts kit.

Buck Bucktool
BUC360



Folding multi plier tool. Utilizing Buck's world renowned professionalism and craftsmanship.

Deep See Blunt Knife
DEE8261



This knife disassembles for easy maintenance. Metal bottom cap, serrated top edge and built in line cutter. Blade length 5".

Akona Manu Knives
AKOxxxxx



Akona Manu knives with line cutter and serrated edge. Medium and drop point available in 304SS. Blunt tip is 420SS. lengths 4.5".

Deep See Squeeze Lock
DEE8130



Compact and streamlined design, mounts easily on any pocket or strap, a natural squeeze will release knife from sheath. Blunt tip with top serration. 304 S/S.

Dive Rite Z-Knife
DIV2059



Compact line cutter will cut through most types of line in 2 to 3 sweeps. Nylon sheath included.

Mc Nett Blakely
MCN 60133



Small utility knife, suitable for mounting on a BC.

Ocean Master Titanium Knives
OCE57xxxx



Custom Beta Titanium, Superior edge holding and corrosion resistance. Available in single edge point, point, and blunt, 5.5" long.

Spyderco Spydercard
SPYSC01PS



Compact, creditcard size. Comes with plain edge or SpyderEdge combined (shown) Blade length 2 13/16", blade steel AUS-6.

Triangle Sharpmaker
SPYC204MF



Spyderco knife sharpening kit. Includes 2 sets of high alumina ceramic stones, medium grit brown stones, and white stones for finishing. Everything needed for a professional quality edge.

Aqua Lung Sea Master
USD4226



Traditional Aqua-Lung divers knife. Strong, durable. Makes a great diving tool. Blade length 7"

KNIVES & MULTI-TOOLS

Cetacea Mini-Buddy
CETMBK01



Mini-Buddy Knife. Great for a backup, and as a B.C. attachment. 2" standard point.

Big Chief Knife
QUE45



Great inexpensive utility knife, used world wide in the commercial diving industry. Order with or without #1 gear clip. Order an extra

SOG Tigershark
SOGS5



The largest of the official SEAL knives. Blade length 9", stainless 440A powder coated, wt. 17.3oz, kydex sheath

SOG Seal 2000
SOGS37



The 7" model of the SEAL knife series. Blade length 7", stainless 440A powder coated, wt. 12.8oz., kydex sheath

SOG Trident
SOGS2



Trident reflects the fighting spirit of the U.S.Navy Seals. Blade length 6.25", stainless 440Cs, faceted tip, engraved with SEAL insignia.

SOG Mini Pentagon
SOGM14



Fine back-up and outdoor knife, serrated and bevel edge for cutting. Blade length 3.5", stainless 440A powder coated. Black leather sheath.

SOG Mini Tsunami
SOGM43



Design features influenced by the Samurai, makes a great tactical or field knife. Blade length 4.6", stainless 440A powder coated. Non slip kraton handle.

SOG Tsunami
SOGS43



Reinforced tip enables the Tsunami to be a great cutting and chopping tool. Blade length 4.6", stainless 440A powder-coated.

Ka-Bar Small
KAB1250



Small Fighting utility knife. Easy to handle. Blade length 5 1/4".

Ka-Bar Large
KAB1217



Fighting utility knife, the brand used extensively by the U.S.M.C.. Blade length 7".

SOG Pentagon Elite II
SOGPE18



Tactical knife incorporating new design for optimum performance. Used by military and law enforcement. Blade length 3.9", stainless 440C.

SOG Night Vision
SOGNV70



Award winning knife, one handed opening and closing. Removable clip. Steel ATS-34, weight 3.25oz.

SOG X42 Recondo
SOGX42



Tough, hard and durable. Designed for tactical performance first and foremost. Blade length 5" with full tang. Steel BG-42.

SOG PowerLock
SOGS60



PowerPlier series matriarch. Includes plier/gripper, wire cutter, etc. Length closed 4.6", open 7", wt. 9.5 oz.

SOG Pocket PowerPlier
SOGS44



Sturdy, small, includes 3-sided file, screwdrivers, and many other features. Length closed 4", open 6", wt. 5.3 oz..

SOG Paratool
SOGB31



Patented angled plier head capability, allowing usage at varying angles. Includes most standard features. Black oxide. Closed 4.3", open 6.4"

Spare Air

SPARE AIR SYSTEMS

Spare Air is available in four models: The standard Model **300** for recreational divers, Model **300-Nitrox** for those diving with Nitrox, Model **600-Twin** with two cylinders for those who dive deeper, and the smallest version, Model **170** for instructors and shallow depths. Simply pull **Spare Air** from your BC, insert the mouthpiece and breathe. No knobs to twist, no buttons to push. **Spare Air** is compact, and nearly neutrally buoyant.



All **SPARE AIR** Packages include the **SPARE AIR** unit of your choice, #915 Universal Refill Adapter so you can fill your Spare Air easily, and #970 Universal Mounting System so you can keep your spare Air Close to you at all times.

SPARE AIR SPECIFICATIONS			
Models	300/300-N	600-T	170
Maximum Capacity	3.0 cu. ft. / 85 liters	6.0 cu ft / 170liters	1.7 cu ft / 48 liters
Length	13.4" / 34 cm	15.1" / 38.35 cm	8.75" / 22.23 cm
Diameter	2.25" / 5.71 cm	2 x 2.25" / 5.71 cm	2.25" / 5.71 cm
Maximum Pressure	3000 psi / 200 bar	3000 psi / 200 bar	3000 psi / 200 bar
Weight (full)	2.17 lb / .985 kg	4.41 LB / 1.99 kg	1.51 LB / .687 kg
Surface Breaths*	57	114	30
Water Volume	26.62 cu in / .42 ltr.	53.24 cu in / .84 ltr.	13.7 cu in / .28 ltr.

* Based on 1.6 liter breath size.

Deluxe Holster SUB972



Fully enclosed, protective holster keeps Spare Air secure in any location. Two quick release straps allow for unlimited tank mounting possibilities

Mounting Package SUBxxxx



Mount **Spare Air** anywhere. Package includes; 1 Deluxe Holster, 1 Safety Leash

Universal Mounting System SUB970



Securely mounts your **Spare Air** to your BC in the recommended golden triangle area

Safety Leash SUB961



Prevents accidental loss and allows for quick retrieval of a dropped or dislodged **Spare Air**

Carrying Bag SUBBAG



Strong durable nylon carrying bag, with draw string enclosure

Fill Station Refill Adapter SUB920C

Refill adapter for standard Yokes



Scuba Tank Refill Adapter SUB910C

Yoke style refill adapter for filling from a Standard SCUBA tank



Aqua Tech Maintains a Large Stock of Spare Air Packages and Accessories

Helicopter Aircrew Breathing Device

USD1006xx

The Helicopter Aircrew Breathing Device fully independent system, which allows hands free operation during an emergency situation. H.A.B.D. Offers a wide variety of mounting options. The system can be rapidly deployed from its secured holster to a distressed. The Helicopter Aircrew Breathing Device (H.A.B.D.) Can be filled from any standard SCUBA tank.

Aqua Lung has designed the H.A.B.D. Specifically for helicopter crews during an emergency water contact. The tank has a volume of 1.5 CF, system weight is 2.5 lbs., air supply duration is 15 breaths. Available to Military, Commercial, and the Public Safety sectors only.



- * **Holster Material:** Nylon
- * **Cylinder Volume:** 2.5 CF (70 Liters)
- * **Cylinder Length with Regulator Attached:** 12.5"
- * **Rated Cylinder Pressure:** 3000 PSI
- * **L.P. Hose Length:** 24"
- * **First Stage Connection:** 360 Degree Swivel
- * **Regulator First Stage:** Modified Conshelf
- * **Regulator Second Stage:** Modified Micra
- * **Pressure Gauge:** Integral with First Stage
- * **Pressure Relief:** First Stage Mounted Over-Pressure Relief Valve
- * **System Weight:** Approximately. 3 lbs.
- * **Buoyancy:** Approximately. -2 lbs.
- * **Duration of Air Supply:** Approximately. 24 Breaths at 33 Feet

AQUA TECH

comsales@divecenter.com / milsales@divecenter.com
Toll free 1-800-345-3252 / Fax 619-237-1886

www.Divecenter.com

LUXFER ALUMINUM TANKS



6 CF 3000 PSI **13 CF 3000 PSI** **50 CF 3000 PSI** **63 CF 3000 PSI** **30 CF 3000 PSI** **40 CF 3000 PSI** **80 CF 3300 PSI** **80 CF 3000 PSI**

Luxfer the Leader in SCUBA tank manufacturing. Luxfer uses 6061 aluminum alloy, material tested for 100,000 + test cycles. Certified by Canadian Transportation and Department of Transportation. Corrosion resistant, thick damage protective walls. Great reliable tank for rental departments and commercial use. Call for color and stock availability

	Service Pressure (PSI)	Capacity (Cubic Feet)	Outside Diameter (Inches)	Overall Length (Inches)	Empty Weight (Pounds)	Minimum Internal Volume (Cubic Inches)	Minimum Water Weight (Pounds)	Salt Water Buoyancy --Full (Pounds)	Salt Water Buoyancy --Half (Pounds)	Salt Water Buoyancy -- Empty (Pounds)
6CF	3000	6	3.2	10.9	2.72	53.7		-1.49		-1.03
13CF	3000	13.2	4.4	12.9	5.9	116	4.18	-1.7	-1.2	-0.7
19CF	3000	19.9	4.4	18.6	8.1	175	6.3	-1.4	-0.6	0.1
30CF	3000	30	4.9	21.9	11.6	263	9.48	-1	0.1	1.2
40CF	3000	39.9	5.3	24.8	15.2	350	12.62	-0.8	0.7	2.2
50CF	3000	48.4	6.9	19	21.1	424	15.29	-2.4	-0.6	1.3
63CF	3000	63	7.2	21.9	26.6	552	19.9	-2.1	0.3	2.6
72CF	3000	69.6	6.9	26	28.4	610	22	-1.6	1	3.6
80CF	3000	77.7	7.2	26.1	31.3	678	24.45	-1.4	1.5	4.4
80CF	3300	77.4	7.2	25.8	4.8	630	2.72	-5.3	-2.4	.5
92CF	3200	90.3	8	24.8	37.6	750	27.04	-3.6	-0.2	3.1
100CF	3300	99.3	8	26.2	40.8	804	28.99	-4.3	0.6	3.2

STEEL TANKS



120 CF 3500 PSI 100 CF 3500 PSI 80 CF 3500 PSI 65 CF 3500 PSI

Aqua Tech is proud to carry the Press Steel Sport 3500 psi tanks, available in 120 cubic foot, 100 cubic foot, 80 cubic foot, and 65 cubic foot. Press Steel Pro is the 2400 psi series tanks, 120 cubic foot, 104 cubic foot, 95 cubic foot, and 80 cubic foot. Press Steel Pro tanks are not shown. The Press Steel Pro tanks are rated to a 10% overfill at 2640 psi, as with the Press Steel Sport tanks, they are negative buoyant throughout the dive. The lower working pressure of the Press Steel Pro tanks will allow the diver more air when a low psi operating compressor is in use. Some technical divers prefer a lower working pressure for gas blending. The Press Steel Pro tanks come with a standard valve orifice. The Press Steel Sport comes with the DIN VALVE for regulators with DIN adaptors. Please be sure your regulator can be fitted with the proper DIN fitting.

Sport: DOT E-9791/TC SU 4339 3500 PSI 7/8-16 threads

Pro: DOT/TC 3AA 2400 PSI; 3/4-14 threads

	Service Pressure (PSI)	Capacity (Cubic Feet)	Outside Diameter (Inches)	Overall Length (Inches)	Empty Weight (Pounds)	Minimum Internal Volume (Cubic Inches)	Minimum Water Weight (Pounds)	Salt Water Buoyancy --Full (Pounds)	Salt Water Buoyancy --Half (Pounds)	Salt Water Buoyancy -- Empty (Pounds)
45 CF	2400	45	5.5	26	19.1			-3.9		-0.7
80 CF	2400	78	7.2	26.2	31.5			-6.2		-0.8
95 CF	2400	95	8	26.8	38.8			-5.9		-0.9
108 CF	2400	108	8	29.8	42.5			-5.9		1.9
120 CF	2400	120	8	32.3	46.5			-6.		2.8
65 CF	3500	65	7.2	16.8	24					-1.5
80 CF	3500	80	7.2	19.8	26					-2.5
100 CF	3500	100	7.2	23.9	31					-1.4
120 CF	3500	120	7.2	27.9	35					-0.4

OMSJ135G

OMSJ121G

OMSJ108G

OMSJ085G

OMSJ098G

OMSJ045G

OMSJ066G



OMSJ013G



135 CF 2400 PSI +10%

121 CF 2400 PSI +10%

108 CF 2400 PSI +10%

098 CF 2400 PSI +10%

085 CF 2400 PSI +10%

066 CF 2400 PSI +10%

045 CF 2400 PSI +10%

013 CF 2400 PSI +10%

Ocean Management Systems

Ocean Management Systems nas incorporated their diving experience and engineering expertise in developing an efficient ergonomic tank design. OMS tanks are neutral when empty, but still light enough to be handled easy. OMS tanks operate at 2640 psi after a 10% overfill. The low pressure facilitates easy partial pressure filling. Good fills with a low PSI compressors.

Specifications supplied upon request

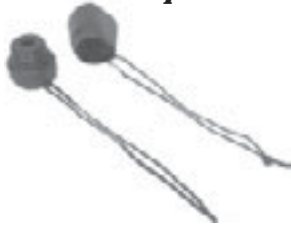
AQUA TECH

comsales@divecenter.com / milsales@divecenter.com
Toll free 1-800-345-3252 / Fax 619-237-1886

www.Divecenter.com

TANK ACCESSORIES

Valve Caps



Din: **TRIA140**
Std.: **NAT11013**

Scubapro Tank Handles
BP20151000



Scubapro® tank handle for Scubapro® steel tanks.

Tank Boots
UND250xx



Available in 6.9", and 7.25" for aluminum and steel. 8" For aluminum.

Mesh Tank Sleeves
NAT10900/BK



Plastic mesh cover sleeve for tank protection.

Cam Buckle
TRITA09



Replacement cam buckle

Deluxe Tank Band
NAT10905



Replacement tank band, fits most backpacks.s

Scubapro Supercinch
SBP20135000



Replacement tank band for Scubapro BC's.

Seatec Seaband
SEA1210



Replacement band assembly for Seatec BC's and some backpacks.

Seatec Seaband Extensions
SEA12xx



Extensions for dual tank mounting.

U.S. Divers KAM Pac
USD088150



Standard tank backpack with quick release buckles. Fits 6.9", 7.25", and 8" diameter tanks.

Mariner Twin Pack
USD083400



Dual cylinder backpack with quick release buckles. Fits 6.9", and 7.25".

Mariner Twin Tank Harness **USD08xx00**



Traditional dual tank harness. Comes in 6.9" or 7.25" diameter bands.

Stainless Steel Tank Bands
OMSxx



Stainless steel tank bands. Bands have a 2" width and .050 thickness. Comes in 5.5" - 6", 6.9" - 7.5", or 8" diameter. Aqua Tech can help you with all your diving hardware needs.

OMS SS Stage Bands
OMSxx



Stainless Steel stage tank bands. Available in 8", 7.25", 7", 5.5", 3.9", and 3.58" O.D.. Shown with adjustable band, which includes 2" SS "D" ring and bracket.

Billy Rings
OMSxxxx



Stainless steel Billy rings. Available in 45 or 90 degree rings.

SS Bands



S.S. stage tank bands. Available in 3 5/8" - 6 1/2" and 5 5/8" - 8 1/2".

Pony Bracket



Stainless Steel stage tank bands with D-ring.

Pelican Tank Rack
PEL20x



Classic Pelican tank rack, installs most anywhere. Fits 6.9", 7.25", and 8.0". 6 Or 4 tank racks.

Swing Strap
AQUSPEEDYS



Stage bottle rigging system

Tank Bank
TANx



Made out of rugged ABS plastic, ABS buckles, and polypropylene straps. Fits all tanks. 3-tank, 6-tank and 1-tank models available.

Pony Bag
TRITA15-xx



Pony tank bag. Three sizes 6, 13, and 19 cubic foot.

Roll Control System

Tank Holders
TRITA80



Adjustable tank holders

Bracket Kit
TRITA82



Roll Control 48" Rail
TRITA81



Aluminum 48" cut to size rail

DRÄGER SPORT REBREATHERS



Welcome to Dräger's world of diving technology...

Since 1889, following the first pressure reducer valve patented by Dräger and Gerling; Dräger has established itself as the world leader and innovator of quality diving equipment for many and varied applications for the military, the professional diver and of course the recreational diver as well.

Since then many years of research and development have been spent producing ground breaking equipment such as hose free helmet diving in 1912, the oxygen closed circuit diving apparatus as early as 1926, the mixed gas closed circuit set for exciting deep diving bells in 1969, this led to the release of the military version for mine clearance diving.

Through the years Dräger has continued to further develop and supply the world's diving companies and military forces with cutting edge rebreather diving technology; this expertise is now available to you in the form of the Dolphin and DrägerRay semi-closed rebreathers.

Dräger

Spectrum

For some people diving is fun as a spare-time occupation and exciting sport - for others it is professional routine.

Every day divers of rescue organisations, fire services, coast guard and police count on the reliability of DrägerDive diving equipment. Professional divers who perform welding at landing places, fill concrete foundations under water, clear fouled propellers or inspect oil pipelines are partners of DrägerDive.

During their special underwater tasks divers of the navy and other special forces count on the high reliability of DrägerDive equipment. Whether taking soil and plant samples or investigating archaeological findings research divers use DrägerDive apparatus.

Since the beginning of sports diving divers have used Dräger diving apparatus to discover the underwater world. With the closed-circuit diving apparatus - a special development for sports divers - they experience a new underwater dimension.



Dräger Dolphin

Dräger Dolphin - proven technology for the sophisticated rebreather diver.

The Dräger Dolphin rebreather stands out because of its robust and reliable technology. It offers you a great variety of accessories enabling you to individually extend your fields of application.

Its perfected technology is protected by a sturdy shell, the buoyancy jacket is equipped with an integrated weight drop system. Optionally an oxygen monitoring device may be integrated in the breathing circuit.

The "Oxygauge" constantly indicates the oxygen partial pressure in your breathing circuit. Five different dosage devices enable you to dive the Dolphin with four Nitrox mixtures and pure oxygen.

DrägerRay "Easy Rebreather diving"

DrägerRay combines diving gear, buoyancy compensator and emergency bail-out system in one unit. The patented combination of breathing circuit and buoyancy jacket results in low weight and easy handling. You will enjoy it.

As a result the advantages of pre-mixed Nitrox are extended:

- Improved reuse of breathing gas
- Bubble-free and noise-free diving
- Warm and moist breathing gas
- Sturdy and safe technology

"Aqua Tech can supply all of your

Draeger parts needs. Call for a quote"

www.Divecenter.com

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Toll free 1-800-345-3252 / Fax 619-237-1886

AQUA TECH

Rebreathers

DRÄGER MILITARY REBREATHERS

Draeger Breathing Gas Systems

Dräger offers a solution for every breathing gas problem at sea. Customized design, production and installation meet the individual needs of our customers

- * Filling systems
- * Booster pumps
- * Mixing systems
- * Aerotest gas measuring

Dräger Dive is offering all the products and components for preparation use and service to form the complete package and will meet the high standards and requirements in military diving. Diving equipment for;

- * Technical support and damage control
- * Special operations
- * MCM diving
- * Gas mixing and filling
- * Recompression



FGT II

Semi closed diving apparatus for MCM operations
Comply to STANAG 2897

Class A.

With integrated bail-out system.



LAR VII

Closed and semi closed circuit diving apparatus for use in all facets of VSW diving. LAR VII is generally available in two different configurations:

- I. LAR standard for selection of mode at surface
- II. LAR VII combination can be switched into closed circuit or semi closed mode even under water

- * Diving Depth: 0 to 10 msw (Oxygen) or 24 msw (Pre-Mixed Gas B)
- * Breathing Circuit: Semi-Closed or Closed
- * Gas Cylinder: 1.5 L, 200 bar, NM-Steel, TÜV
- * Breathing Gas: Pre-Mixed Gases B or Oxygen
- * Magnetic Level: Non-Magnetic **
- * Magnetic or low-magnetic gas cylinder on req

LAR VI

Closed circuit oxygen diving apparatus for use in special operations. LAR VI is designed in compliance with STANG 2897 class "A" for none Magnetic signatures. LAR VI is the successor of the LAR V most widely used within NATO and allied countries and has proven its simplicity and reliability. Depending on oxygen uptake the diving apparatus has an endurance of up to 4 hours even in cold water.

- * Diving Depth 0 bis 10 msw
- * Breathing Circuit Closed
- * Gas Cylinder 1.5 L, 200 bar NM-Steel or Aluminum
- * Breathing Gas Oxygen
- * Magnetic Level Non Magnetic
- * Code: T 13651
- * Different oxygen cylinders available



Dräger



Shadow

Life preserver and buoyancy control jacket for front and back mounted diving apparatus. Shadow can also be delivered with a comfort harness that integrates the harness of the apparatus and the life preserver into one.

This harness also contributes to more comfort due to better weight distribution.



Call Your Aqua Tech Sales Representative for additional Product and Technical Information

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GAS FILTERING MATERIALS



AQUA TECH HAS IN STOCK

Chemicals for Diving Applications

SODASORB® - (Available in Standard or High Performance)
Absorbs Carbon Dioxide in Helium-Oxygen Breathing Systems.

SILICA GEL - Tell - Tale (Color - Changing) Substance for Use
With SODASORB® (Re-Usable) and PURAFIL®.

ACTIVATED ALUMINA - Oil and Water Removal for High
Pressure Compressed Breathing Air.

ACTIVATED CHARCOAL - Odor and Taste Removal for
Compressed Air.

SODASORB HP

SODASORB® HP

DATA SHEET

CO₂ Absorbent/Soda Lime U.S.P.

High Performance Grade

DESCRIPTION: SODASORB HP consists essentially of hydrated lime (Ca(OH)₂), sodium hydroxide (NaOH) and potassium hydroxide (KOH), mixed by a special method, with carefully controlled moisture content and porosity.

U.S. PHARMACOPOEIA: SODASORB HP complies fully with the specification for soda lime carbon dioxide absorbent, Pharmacopoeia of the United States.

USES: **In Underwater Diving** ... absorbs carbon dioxide in helium-oxygen breathing systems, hyperbaric chambers and scuba apparatus.

In Industry ... absorbs acid gases, aids purification, Aldol condensation catalyst.

In Rebreathers ... absorbs CO₂ and acid gases in personnel rebreathers for mine, fire and other safety systems.

TYPES: **Regular SODASORB** and **Indicator SODASORB**, containing ethyl violet which changes in color from white to purple as its capacity for absorption is exhausted. The clearly observable color change signals a clinical point of exhaustion and need for replenishment.

MESH SIZE: The mesh size most commonly used in rebreathing systems is 4-8 Tyler, 4-8 USS. A finer 6-12 Tyler (USS) mesh material is available for special uses.

MOISTURE GRADES: **High Moisture** (14 to 19%), and **Intermediate Moisture** (10 to 14%) For these applications, high moisture SODASORB is used. In high humidity conditions, one of the other moisture levels may be appropriate.

SODASORB PACKAGES:

Container	Moisture Grades	Volume	Net Wt (approx) Each (lbs)	Gross Wt (approx) Per Container (lbs)
Plastic Pail (Snap-Off Lid)	High/Int.	1 gal	8	9
Plastic Pail (Pour Spout)	High/Int.	5 gals	37	41
Leverpak	High/Int.	30 gals	200	212
Drum	High/Int.	55 gals	365	415

SODASORB® HP is stocked by Aqua Tech at all three of our locations..



Plastic Pail — the most economical way to buy SODASORB. A durable all-plastic, five-gallon pail. Lighter in weight with added reuse value. Equipped with a handy, plastic pull-out, tamper-proof spout for easy pouring.

Canister-Pak® — a plastic-and-foil-lined bag which contains the exact amount to fill the popular 1350 gram canister. Airtight, easy to pour, readily disposable. Comes in a convenient 12-bag carton.

PHYSICAL FORM: SODASORB HP is specially processed into porous, coral-like granules in order to expose the greatest area of absorbent surface. In a canister, these knobby granules permit free inter-granular circulation of gases. They have no flat surfaces to stack and block, and their hardness makes them highly resistant to powdering and breakage in packing, shipping, and handling.

GREATER EFFICIENCY: Laboratory tests have proven SODASORB HP is fully effective 2-3 times as long as other absorbents. SODASORB HP, a refinement of Dewey and Almy's proven medical absorbent, was developed specifically for undersea and industrial applications. Proven up to twice as efficient as Dewey and Almy's medical SODASORB, independent tests have shown SODASORB HP to be up to 3 times more effective than competitive carbon dioxide absorbents, even at low temperatures.

Aqua Tech is a National Stocking Distributor for "SODASORB® HP" , for the Diving Industry..

EMERGENCY OXYGEN PACKS

Dan ***Dual Rescue Pak Extended Care DAN6013000



Includes two oxygen cylinders when emergency assistance is not immediately available, or for two divers requiring emergency oxygen.

- * **Dimensions:** L 23 1/4 " x L 20 3/4" x D 9"
- * **Weight:** 38 lbs.
- * **Case:** King Pelican Waterproof
- * **Regulator:** Brass Multifunction, Demand Valve with Hose, and Gauge
- * **Cylinder:** Two Luxfer Jumbo D's, 636 Liters., 22.85 CF Each
- * **Mask:** Pocket Mask, Non-Rebreather Mask
- * **Valve Handle:** Hand Wheel with Chain
- * **Delivery Time:** 120 Minutes

Dan ***Rescue Pak Extended Care DAN6011000



Be able to respond at the dive site to a dive emergency with this compact emergency oxygen kit.

- * **Dimensions:** L 23 1/4 " x L 20 3/4" x D 9"
- * **Weight:** 29 lbs.
- * **Case:** King Pelican Waterproof
- * **Regulator:** Brass Multifunction, Demand Valve with Hose, and Gauge
- * **Cylinder:** One Luxfer Jumbo D, 636 Liters., 22.85 CF
- * **Mask:** Pocket Mask, Non-Rebreather Mask
- * **Valve Handle:** Hand Wheel with Chain
- * **Delivery Time:** 60 Minutes

Dan ***Rescue Pak DAN6014000



Ideal for shore-based diving and training.

- * **Dimensions:** L 16" x W 13" x D 7"
- * **Weight:** 13 lbs. 4 oz.
- * **Case:** 1450 Pelican Waterproof
- * **Regulator:** Brass Multifunction, Demand Valve with Hose, and Gauge
- * **Cylinder:** One Luxfer M9, 248.22 Liters., 8.77 CF
- * **Mask:** Pocket Mask, Non-Rebreather Mask
- * **Valve Handle:** Hand Wheel with Chain
- * **Delivery Time:** 30 Minutes

Dan Remote Emergency Medical O2 DAN6511000



Ideal for diving off shore or remote areas, when one hour or more from EMS. Provides high concentrations of emergency O2 for up to 6 hours to a responsive injured diver. By recycling and filtering the diver's breath, it extends the duration of the O2 supply. Considered a supplemental oxygen device, can be used with any DAN O2 unit.

- * **Dimensions:** L 16 " x W 13 " x D 7"
- * **Weight:** Approx. 12 lbs.
- * **Case:** 1450 Pelican Waterproof Case
- * **Bag:** 5 Liter Rebreathing Bag
- * **Valves:** Assembled Cross Valve, and Circuit Valve. Two Tees with One Way Valve
- * **Mask:** Three Oral nasal Masks with Inflatable Cuffs. Mask Elbow
- * **Syringe:** 12 CC
- * **Tubing:** Oxygen
- * **Canister:** Carbon Dioxide Absorbent
- * **Delivery Time:** When Used with Jumbo D Cylinder, Up to 6 hours
When Used with M9 Cylinder, Up to 4 Hours

*** Available With MTV-100



CDI Oxygen System CDIO2C



Great lightweight, compact O2 emergency pack. Shoulder strap allows no hands operation, while transporting victim. Economically priced.

- * **Dimensions:** L 22 " x W 5 " x H 8" at Widest Point
- * **Weight:** 7.5 lbs.
- * **Case:** Denier Nylon Padded Soft Case
- * **Regulator:** Fixed Flow 12 Ltrs. Per. Min.
- * **Cylinder:** One Luxfer, 415 Ltrs., 14.7 CF
- * **Mask:** Face Mask
- * **Valve Handle:** Post Valve Type Handle
- * **Delivery Time:** 35 Minutes

Dan Non-Rebreather Mask

DAN6118100



Provides O2 to breathing divers who cannot tolerate demand valve O2 regulators or when you have two divers who need emergency O2. Not intended for non-breathing divers.

Dan Silicone Tru-Fit Mask

DAN6118400



Made out of 100% silicone. Compatible with DAN MTV-100 and DAN Demand Inhalator Valve. When combined with the Demand Inhalator Valve O2 regulator, allows you to provide nearly 100 % medical O2 in an emergency.

Dan Laerdal Pocket Mask

DAN6118200



For providing mouth to mouth ventilations and reduces the risk of possible disease transmission. O2 inlet port allowing constant flow of O2 in conjunction with rescue breathing efforts.

DAN FIRST AID KITS

DAN Guardian First Kit DAN631xxxx



First aid kit created for recreational divers and dive professionals.
Available in hard waterproof case or soft nylon case.

- * **Dimensions Soft Case:** 9-1/4 L x 7- 3/4 W x 4-1/2 D
- * **Weight:** 2.35 lbs.
- * **Dimensions Hard Case:** 9-1/4 Length x 7-3/4 Width x 4-1/2 Depth
- * **Weight :** 3-1/2 lbs.

CONTENTS

Medical Information/Reference

- * 1 DAN Dive and Travel Medical Guide

Wound Cleaning/Management

- * 1 20cc irrigation syringe and plastic Irrigation tip
- * 5 Providone iodine swabs
- * 6 Antiseptic toilettes
- * 10 Wound closure strips (.25" x 1.5")
- * 2 Tincture of benzoin swabs
- * 1 Eye wash 4 oz
- * 3 Cortisone cream 1%
- * 4 Antibiotic ointment

Dressings/Bandaging

- * 15 Strip bandages 1" x 3"
- * 2 Patch bandage 2" x 3"
- * 3 Knuckle wound strips
- * 2 Fingertip wound strips
- * 6 4" x 4" gauze pads
- * 5 2" x 2" gauze pads
- * 1 5" x 9" trauma pad
- * 1 Eye pad
- * 1 Eye patch
- * 1 3" conforming gauze bandage
- * 1 3" elastic bandage
- * 2 Stockinette bandage
- * 1 1" adhesive tape
- * 1 Triangular bandage

Tools/Instruments/Other

- * 1 EMT shears
- * 1 Hypothermia thermometer
- * 1 Splinter forceps (tweezers)
- * 1 Disposable razor
- * 3 Safety pins

DAN Guardian First Kit DAN6311200



First aid kit created for recreational divers and dive professionals. Available in hard waterproof case or soft nylon case.

Dimensions: 13-1/2 L x 11-1/2" W x 5-1/2 Depth
Weight: 14 lbs.

CONTENTS

Medical Information/Reference
1 DAN Dive and Travel Medical Guide

Wound Cleaning / Management

- * 1 20cc irrigation syringe with tip
- * 5 providone iodine swabs/wipes
- * 10 antiseptic swabs
- * 12 tincture of benzoin swabs
- * 1 tourniquet
- * 1 pkg of 10 wound closure strips (Steri-strips) .25"x1.5"
- * 1 eye wash/normal saline 4 oz. Bottle

Medications

- * 3 cortisone cream 1%
- * 3 double antibiotic ointment aspirin, 324 mg (5 grain) tablets
- * 10 ammonia inhalants
- * 6 burn treatment compound, ointment type, 11 oz
- * 1 aloe with lidocaine

Dressings/Bandaging

- * 2 boxes of 16 strip bandages (Band-Aids) 1" or 1/2"x3"
- * 2 patch bandage 2"x3" (Band-Aid)
- * 3 4x4 gauze pads / bandage compress
- * 2 boxes of 4 2x2 gauze pads / bandage compress
- * 1 8x10 trauma dressing/pad
- * 1 5x9 trauma dressing/pad
- * 1 pkg of 4 eye dressing / pad
- * 1 non-adherent sterile dressing (Adaptic) 3"x4"
- * 2 conforming gauze bandage (Kling, Kurlex) 3"
- * 1 ace wrap/bandage 3" with velcro closure
- * 2 stockinette bandage
- * 1 adhesive tape 1"x10 yd
- * 2 triangular bandage (cravat)

Tools / Instruments / Other

- * 1 EMT shears
- * 1 Foam covered aluminum splint (SAM splint)
- * 1 hypothermia thermometer (96-107F)
- * 1 splinter forceps (tweezers)
- * 1 disposable razor
- * 1 injury report and pencil
- * 1 cold compress
- * 1 heat compress
- * 1 plastic re-sealable waste bag
- * 1 Biohazard label
- * 1 space blanket
- * 1 latex gloves
- * 1 antimicrobial wipes
- * 1 Pocket Mask

DAN Otoscope DAN5012400



The otoscope is a versatile pocket examination light designed for ear, nasal and oral examinations. Easy to use, the otoscope features state-of-the-art technology providing superior illumination and durability.

Important! DAN recommends that you receive proper training in the use of an otoscope before attempting to perform the ear examination. The placement of foreign objects, including medical instruments, in the ear canal by an untrained person can result in significant and permanent injury. The final diagnosis and treatment of injuries or illnesses of the ear should always be performed by and prescribed by a qualified physician.

TECHNICAL DIVING EQUIPMENT

Manta Manta Sr.
MANREELSR



Manta reels are designed for deploying liftbags. Stainless steel hardware, solid spool, adjustable tension control, spring loaded AFS (anti-free spool) prevents free spooling. Available in left hand. 600' #24 Braided or 320' #36 Braided

Manta G5
MANG5xx



G5 is crafted from 1/4" stainless steel. Unibody construction for a strong and durable reel. Fixed stainless steel locking screw with large knob. G5: 185' #30 or 250' #24. G5-M: 100' #30 - 135' #24 G5-S: 320' #36- 600' #24

Cetacea Safety Kit
CETIMT02



Inflatable marker tube and safety kit. Comes with safety tube, and mesh bag. Easy to attach, great for current dives.

Hand Tank Gauge
USD700400



Hand tank pressure gauge for checking air pressure in tanks with standard tank valves.

Manta Manta Jr.
MANREELJR



Manta reels are designed for deploying liftbags. Stainless steel hardware, solid spool, adjustable tension control, spring loaded AFS (anti-free spool) prevents free spooling. Available in left hand. 250' #24 Braided or 185' #30 Braided

Trident Dive Reel
TRIDF15



Standard divers reel with 140' nylon line, stainless frame, screw down drag, lock and clip. Available in larger size.

Cetacea Safety Tube
CETIMT01



Inflatable marker tube, a must for every diver. Tube is 3.5' long.

Intermediate Pressure Gauge
ATIPG



Intermediate pressure gauge for checking first stage pressure by just connecting a standard LP hose to connector.

Manta Manta Mini
MANREELMINI



Manta reels are designed for deploying liftbags. Stainless steel hardware, solid spool, adjustable tension control, spring loaded AFS (anti-free spool) prevents free spooling. 135' #24 Braided or 100' #30 Braided (standard)

OMS R238 Second Stage
OMSR238



Downstream 2nd stage regulator. The R238 can be used for oxygen service. Comes with green cover and hose. Set for intermediate pressure of 125-145 PSI.

Carter Safety Tube
CAR



Personal safety Float, detachable 12" x 12" divers flag. Oral inflation valve, over pressure relief valve, totally enclosed, available in #35 lb., #75 lb., and #110 lb.. Rolls tight for easy attachment.

Bench Tester
GLO48155



Magnehelic gauge for testing exhalation and inhalation resistance in second stage.

Dive Equipment Reel
DIVWR



Comes with handle for Wreck diving, Survey work, and a bolt on adapter for 1-1/4" Speargun barrel attachment (speargun adapters available for wood mount without drilling). Aluminum Construction w/stainless and brass hardware.

OMS Jon Line
OMSA196



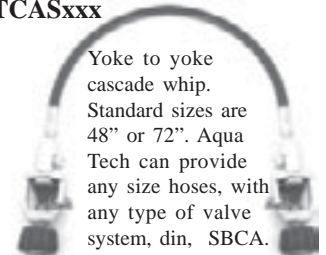
10' Jon Line, with stainless steel carabiner.

OMS Flotation Unit
OMSBCA2xx



OMS flotation units have a non-air spill valve, an Emergency SMB does not have this valve. The flotation units come in # 125 lb. Lift, 4'5", #50 lb. Lift, 5' 2", # 90 lb. Lift, #9' 7", and SMB at #50 lb. Lift, #5' 2".

Cascade Whip
ATCASxxx



Yoke to yoke cascade whip. Standard sizes are 48" or 72". Aqua Tech can provide any size hoses, with any type of valve system, din, SBCA.

Spearguns

RIFFE SPEARGUNS

Model	Stock Length	Spearshaft Dia. X Length	Tip	Handle	Power Bands	Power Band Stretch
#B - Bottom	38" (96.5 cm)	5/16" X 42" Threaded	Large	Mid	(3) 9/16" X 18"	28" (71 cm)
#M - Mid-Range	44" (112 cm)	5/16" X 48" Threaded	Large	Mid	(3) 9/16" X 20"	34" (86cm)
#H - Hawaiian	50" (127cm)	5/16" X 55" Threaded	Large	Mid	(3) 9/16" X 24"	40" (101.5 cm)
#N - No Ka Oi	56" (142 cm)	5/16" X 60" Threaded	Large	Mid	(3) 9/16" X 26"	44" (112 cm)
#I - Island	62" (157.5 cm)	5/16" X 65" Threaded	Large	Mid	(3) 5/8" X 28 1/2"	50" (127cm)
#W - Blue Water	68" (172.5 cm)	3/8" X 72" Threaded	Ice Pick	Mid	(4) 5/8 dia. X 32"	56" (142 cm)

Features:

- Three power bands
- 5/16"(7.9 mm) spearshaft, 3/8" (9.5 mm) standard on Blue Water
- Three power bands standard (four with Blue Water)
- More Powerful models must be fired with two hands to prevent injury from excess recoil
- Equipped with reinforced cross grain doweled muzzles
- Accepts all RIFFE parts and accessories
- *Island and Blue Water built with bolted-through muzzle for added reinforcement*

Riffe Torpedo Divers Float



RIFxx

- * 40" length x 10" dia.
- * 210 Denier Nylon
- * 24" Fiberglass Flag Pole
- * 12" sq. Diver Down Flag
- * 80 lbs. of lift at surface, 20 lbs. of lift at 100'
- * Side and Rear Handles
- * Hi-Vis Orange
- * Relief Valve
- * Manual Inflation

Riffe Reel

RIFxx

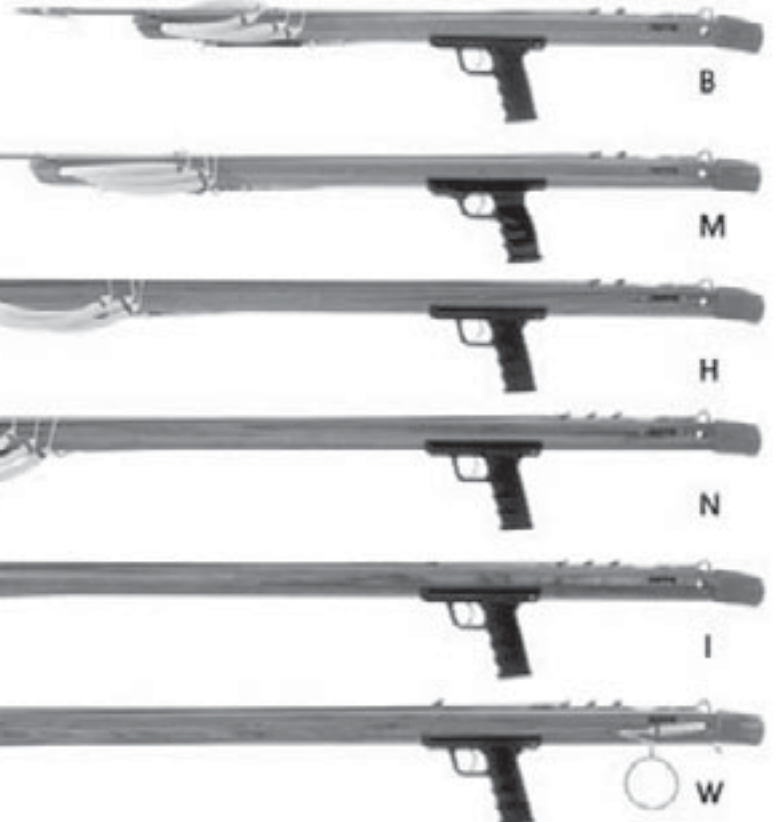


Composite light weight plastic, reel in drag release, designed by experienced spear fishers.

Riffe Spearheads

Tips listed left to right

- * Small 2-barbed (6 mm x 1)
- * Med. 2-barbed (6 mm x 1)
- * Large 2-barbed (6 mm x 1)
- * Large 2-barbed detachable (6 mm x 1)
- * Riffe Ice Pick Slip Tip Assembly
- * Large Hawaiian single-barb 9/32"
- * Small Hawaiian single-barb 1/4"



JBL SPEARGUNS

Surgical Tubing

- * NAT14540 Black 9/16"
- * NAT14500 Black 7/16"
- * NAT14580 Black 3/8"
- * NAT14609 Black 3/8"
Big Bore
- * NAT14520 Black 1/2"
- * NAT14560 Black 5/8"
- * NAT14550 Amber 9/16"
- * NAT14510 Amber 7/16"
- * NAT14590 Amber 3/8"
- * NAT14620 Amber 7/16"
Big Bore
- * NAT14610 Amber 3/8"
Big Bore
- * NAT14530 Amber 1/2"
- * NAT14570 Amber 5/8"



JBL8xx

JBL Speartips

JBL has several variations of the three basic designs, listed from top to bottom.



- * Non-Rotating Points
- * Rotating Points
- * Breakaway Points

JBL8xx



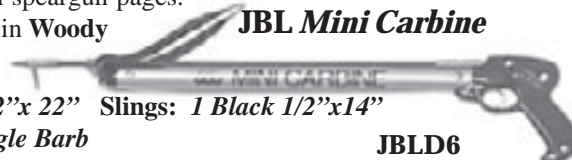
JBL8xx

Aqua Tech has a full stock of all spearfishing supplies, including pole spears, speargun slings, pole spear slings, wishbones, wishbone rings, crimps, shock cords, fish and hoop stringers, reels, and many other items. All models of spearguns are not listed on both speargun pages.

The *Woody is also available in **Woody Magnum** and **Sawed Off Magnum**.

JBL Mini Carbine

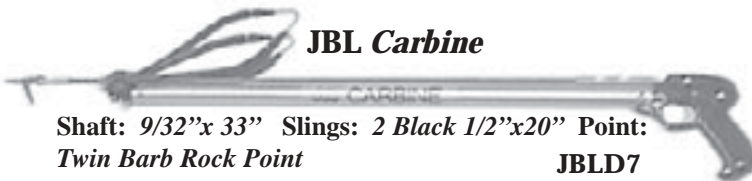
Shaft: 9/32"x 22" Slings: 1 Black 1/2"x14"
Point: Single Barb



JBLD6

JBL Carbine

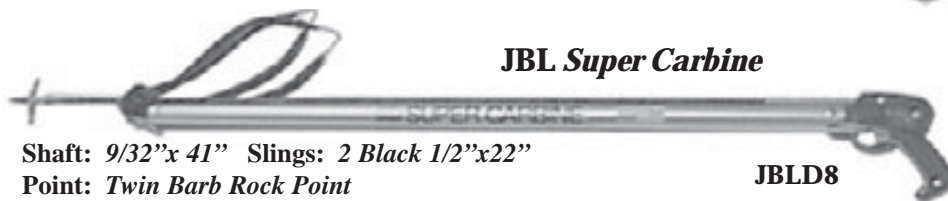
Shaft: 9/32"x 33" Slings: 2 Black 1/2"x20" Point: Twin Barb Rock Point



JBLD7

JBL Super Carbine

Shaft: 9/32"x 41" Slings: 2 Black 1/2"x22"
Point: Twin Barb Rock Point



JBLD8

JBL 38 Special Northwest

Shaft: 3/8"x 28" Slings: 3 Amber 9/16"x16"
Point: Rotating Twin Spinner Rock Point

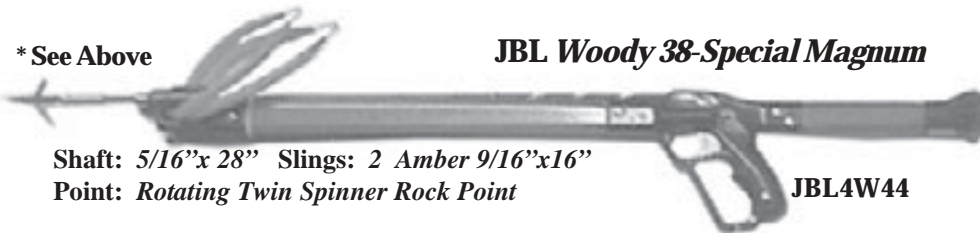


JBLD4D38

JBL Woody 38-Special Magnum

* See Above

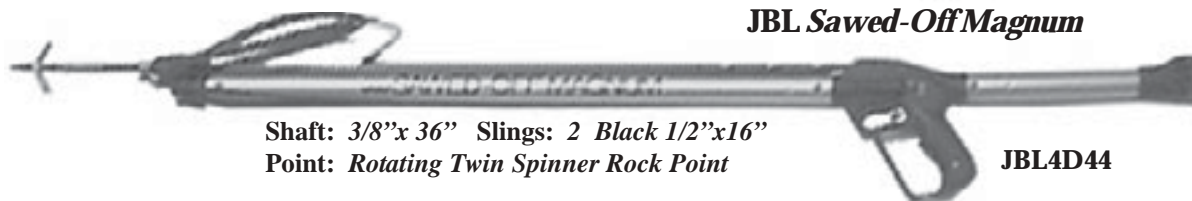
Shaft: 5/16"x 28" Slings: 2 Amber 9/16"x16"
Point: Rotating Twin Spinner Rock Point



JBL4W44

JBL Sawed-Off Magnum

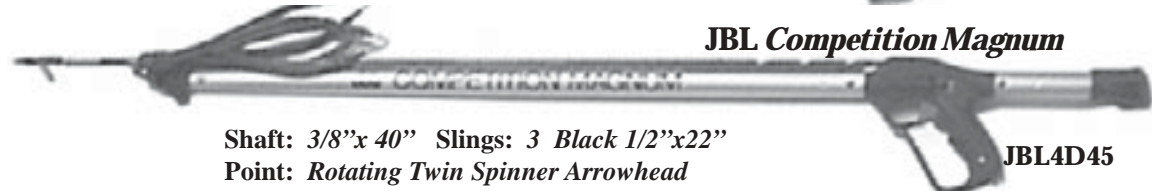
Shaft: 3/8"x 36" Slings: 2 Black 1/2"x16"
Point: Rotating Twin Spinner Rock Point



JBL4D44

JBL Competition Magnum

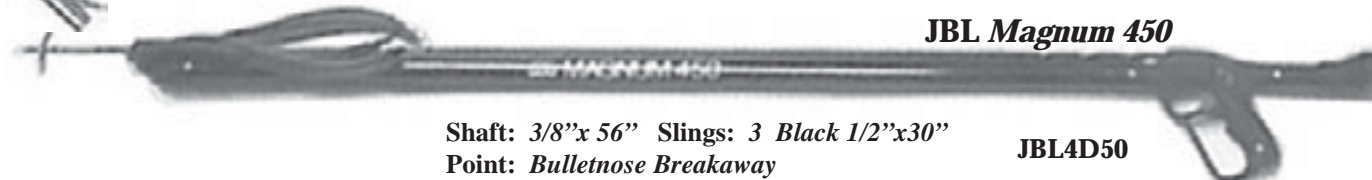
Shaft: 3/8"x 40" Slings: 3 Black 1/2"x22"
Point: Rotating Twin Spinner Arrowhead



JBL4D45

JBL Magnum 450

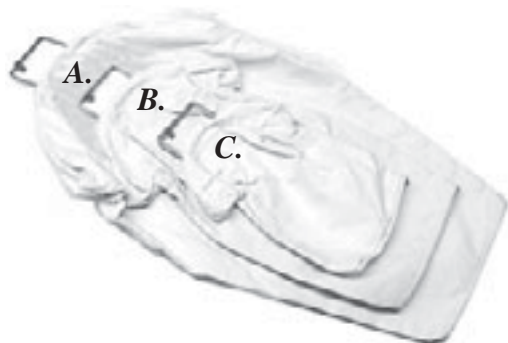
Shaft: 3/8"x 56" Slings: 3 Black 1/2"x30"
Point: Bulletnose Breakaway



JBL4D50

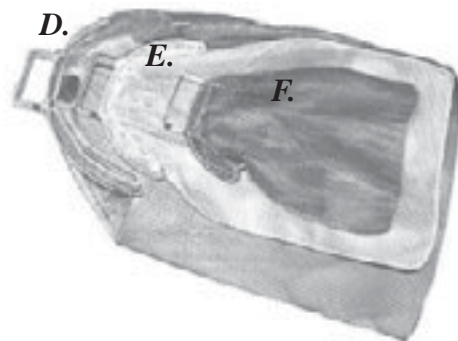
COLLECTION BAGS

National Canvas Goodie Bags



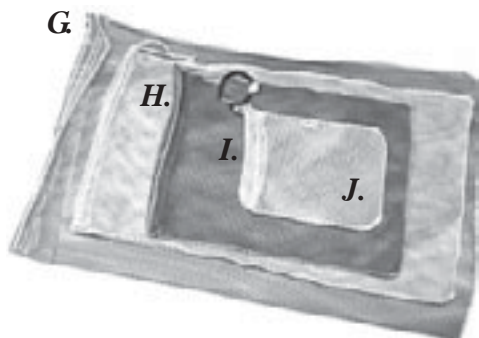
- A. NAT12720 Large canvas hoop bag. 22" X 40"
- B. NAT12719 Medium canvas hoop bag. 18" X 24"
- C. NAT12718 Small canvas hoop bag. 14" X 18"

Trident Mesh Wire Handle Goodie Bags



- D. TRIGB45 Extra Large wire mesh bag. 24" X 40"
- E. TRIGB42 Large wire mesh bag. 20" X 42"
- F. TRIGB40 Medium wire mesh bag. 15" X 19"

Trident Mesh Drawstring Goodie Bags



- G. TRIGB52 Extra large drawstring mesh bag. 24" X 40"
- H. TRIGB51 Large drawstring mesh bag. 15" X 19"
- I. TRIGB50 Medium drawstring mesh bag. 15" X 19"
- J. TRIGB49 Small drawstring mesh bag. 10" X 15"

Manta Tool & Goodie Bags



- M. MANTECHBAG Manta tool and collection bag. 10" X 15"

Trident Mesh bottom Lobster & Goodie Bags



- L. TRIGB66 One hand spring loaded operation. Large Lobster goody bag. 20" X 28"



Aqua Tech has a huge stock of gear bags and equipment cases. We can ship most items within 24 hours of the order being placed. A good place to start is www.DiveUS.com for all of your gear storage and travel needs.

EQUIPMENT BAGS

**Armor Stealth Luggage
ARM5x**



Looks like a suitcase, but is really an outstanding diving gear bag. Recessed handle with roller blade type wheels. Ballistic nylon, tamper proof lockable zippers, PVC supported corners, ventilation system eliminates moisture build up, and interior mesh bag closure. Comes in 3 sizes.

Large: 30" x 18" x 12"
Medium : 26" x 16 x 11"
Small : 22" x 14" x 10"

**Armor Rolling Duffel
ARM4**



The Rolling Duffel has a continuous 2" nylon webbing loop for extraordinary strength and durability. Rugged ballistic nylon delrin zippers with auto lock pullers, PVC supported corners, heavy duty roller wheels and recessed handle help make this bag a rugged but diver friendly.

Size : 34" x 14" x 15"
Pocket: 28" x 12" x 2"

**Akona Roller Backpack
AKOAKB142**



The Roller Backpack has heavy duty wheels and an extension pull handle for easy foot transits. Some features are a foldaway security sleeve, padded backpack straps, lower outside pocket for regulator bag, and Akona grab strap for easy lifting. Comes with regulator bag, protective console sleeve, water bottle and luggage tag.

Size : 31" x 21" x 14"

**Akona Deluxe Backpack
AKOAKB112**



This spacious bag is constructed of heavy duty nylon. It has outside fin pockets, side carry handles, security sleeve, padded backpack straps, outside pocket for regulator bag, interior straps for securing equipment, these are some of the many features. Comes with regulator bag, protective console sleeve water bottle and luggage tag.

Size : 26" x 22" x 14"

**O'Neill World Tour Duffel
ONE0633**



Made of bullet proof 420 denier nylon. The O'Neill World Tour Duffel equipment bag has 5 compartments, 2 way zippers on wet and main compartments, has in-line wheels and skid rails, has removable wet bag, padded shoulder straps, and easy to handle buckles. Size : 26" x 22" x 14"

**U.S.Divers Mariner
USD744600**



Made of proven 600 denier nylon. This sturdy bag has been a quality proven product. The proud tradition of Aqua Lung continues with the continued production of the Mariner. Water resistant interior lining. Has "D" rings on each top side of the bag.

Size : 29" x 14" x 14"

**U.S.Divers Convertible Mesh Duffel
USD745110**



Water can naturally drain through the mesh. Folds in to pillow shape cushion. Dry end pocket with zipper.

**O'Neill Shorepound
ONE0631**



Comfort designed shoulder straps, 2 main compartments, and an removable wet pack

**Foldable Mesh
Pack ARM28**



Padded shoulder straps, full length dry pocket, delrin zipper, and carrying pouch.

**Fin Trekker Bag
ARM28**



Adjustable shoulder strap, mesh drainage/ventilation, and zippered compartments

**Akona Daypack
AKOAKB302**



Adjustable padded back straps, waist strap, many pockets, and wet/dry compartment

**Akona Youth Pack
AKOAKB362**



Childrens day-pack. Adjustable padded back straps, waist strap, & many pockets.

**CameraPlus Bag
AKOAKB952**



Totally padded construction Camera bag. Has padded handles and shoulder strap.

**Deluxe Regulator
Bag ARM19**



Side padded construction, main & 2 outer compartments, YKK zipper, and shoulder strap.

**O'Neil Big Wig
ONE0175**



Nylon brief case, front and back padding, organizer pocket, shoulder strap, and zippered flat pocket.

CASCADE SEAL LINE DRY BAGS

dry bags

A. SEE BAGS™

Transparent, 19 oz vinyl dry bags make it clear what's packed inside. Bags close with our watertight Dry Seal™ roll-down closure and have a D-ring attachment. 30, 20, 10, and 5 liter sizes.

D. BAJA BAGS™

These heavy duty dry bags are made of 20 oz vinyl with extra-thick 34 oz vinyl bottoms. They have our watertight Dry Seal™ roll-down closure and D-ring attachment. 55, 40, 35 long, 30, 20, 10, and 5 liter sizes.

C. SAN JUAN BAGS™

All-purpose, lightweight vinyl drybags with a roll-down closure. 30, 20, and 10 liter sizes.

D. KODIAK SACS™

Lightweight dry bags made with tough low-friction nylon and shaped so they slide easily into tight spaces. They have a roll-down closure and D-ring attachment. Four straight sizes: 25, 15, 10, and 5 liters.

E. KODIAK TAPERS™

Kodiaks tapered to fit sea kayak bulkhead compartments with a purge valve to squeeze out extra air. 35 and 20 liter sizes.

F. BLACK CANYON DRY BAGS™

Our toughest bags, built with rugged yet lightweight urethane-coated 600 denier Cordura™ nylon. Dry Seal™ roll-down closure and D-ring. 50, 25 long, 20, and 15 liter sizes.

G. BLACK CANYON COMPRESSION DRY BAGS™

Side cinch straps on these Black Canyon bags secure the Dry Seal™ roll-down closure and compress the load inside. The purge valve eliminates excess air for maximum bulk reduction. 20 and 15 liter sizes.



packs

H. GUIDE PACK™

Our toughest waterproof pack, made with 500 denier Cordura® nylon and heavy-duty 34 oz vinyl bottom that extends partway up the sides. Features include Dry Seal closure, top and bottom grab handles, and removable, padded shoulder straps. 70 liters.

I. PRO PACK™

Rugged waterproof vinyl pack built for hauling really big loads. Comfortable hip belt and shoulder straps are padded and removable. Seals with side-cinch Dry Seal roll-down closure. 115 liters.

J. BOUNDARY PACK™

A lightweight, waterproof portage pack with a heavy-duty bottom, Dry Seal roll-down closure, and removable, padded shoulder straps. 115, 70, and 35 liter sizes.

K. GRAND PORTAGE PACK™

A new take on the classic Duluth-style canoe pack, made of 20 oz. vinyl. Padded, removable shoulder straps. Roll-down closure with top flap. Sizes #3.5 (4500 cu. in.) and #4 (6500 cu. in.).

L. ZIP DUFFLE™

Heavy-duty vinyl duffel with a truly waterproof zipper for quick and easy access. Available in two sizes.



accessories

M. MAP CASES

These transparent cases close with a waterproof zip seal. Corner D-rings attach to kayak deck, canoe thwart, backpack, or bike. Available in three sizes.

N. DECK BAG

Keep essential gear dry and handy on deck while sea kayaking. Waterproof vinyl construction with patented, splash-proof Zip Lips™ closure.

O. TOURING SEAT

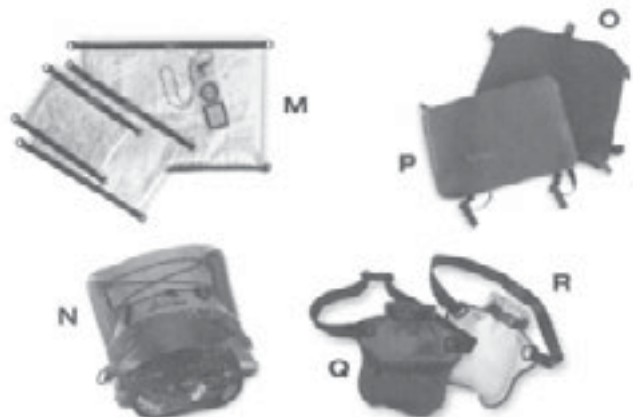
Anatomically designed, self-inflating paddling cushion attaches to most molded seats with six tie-down loops.

P. CANOE SEAT

Increase paddling comfort with this self-inflating cushion. Sewn-on buckled straps attach quickly to most canoes.

Q. SEAL PAK® and R. SEAL POCKET

Nylon hip packs with a roll-down closure to keep personal items handy and dry. Seal Pak has outer mesh pocket. Available in two sizes.



PELICAN CASES

Pelican cases are sturdy athletic cases combining lessons of the past with the technology of today. Manufactured of lightweight structural resin. Abrasion resistant, able to withstand abuse. The cases have a neoprene sponge "O" ring and purge valve. Pick 'N Pluck foam or padded dividers allow you to customize the case to the items that will be stored.

The foam can be replaced. Pelican cases surpass the highest standards set by the industrial, commercial, airline and military applications. Most sizes and custom cases are available

PEL1120 Dim.: 8 1/2" L x 6 1/2" W x 3 5/8" D
In. Dim.: 7 3/8" L x 4 7/8" W x 3 1/8" D

PEL1200 Dim.: 10 3/4" L x 9 3/4" W x 5" D
In. Dim.: 9 1/2" L x 7 1/2" W x 4 1/2" D

PEL1400 Dim.: 13 1/2" L x 11 3/4" W x 6" D
In. Dim.: 12 1/4" L x 9 1/4" W x 5 1/4" D

PEL1470 Dim.: 16 3/4" L x 13 1/4" W x 4 3/8" D
In. Dim.: 16" L x 10 3/4" W x 4" D

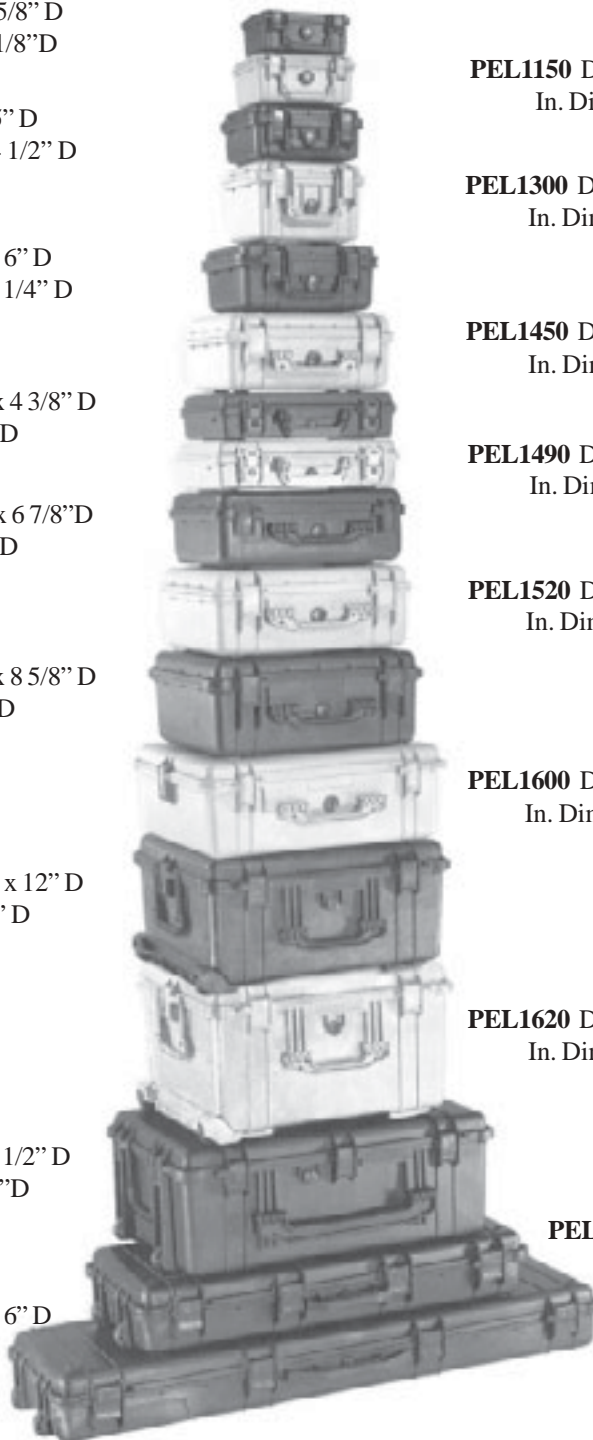
PEL1500 Dim.: 18 1/2" L x 15 1/4" W x 6 7/8" D
In. Dim.: 17" L x 11 3/4" W x 6" D

PEL1550 Dim.: 20 3/4" L x 17 1/4" W x 8 5/8" D
In. Dim.: 19" L x 14" W x 7 3/4" D

PEL1610 Dim.: 24 5/8" L x 19 1/2" W x 12" D
In. Dim.: 19" L x 14" W x 7 3/4" D

PEL1650 Dim.: 32" L x 21 3/4" W x 11 1/2" D
In. Dim.: 29" L x 18" W x 10 1/2" D

PEL1750 Dim.: 53 1/4" L x 17 1/2" W x 6" D
In. Dim.: 50 3/4" L x 13 1/2" W x 5" D



PEL1150 Dim.: 9 1/4" L x 7 3/4" W x 4 1/2" D
In. Dim.: 8 1/2" L x 6 1/2" W x 3 3/4" D

PEL1300 Dim.: 10 3/4" L x 9 3/4" W x 7" D
In. Dim.: 9 1/2" L x 7 1/2" W x 6 1/2" D

PEL1450 Dim.: 16 1/8" L x 13 1/4" W x 7" D
In. Dim.: 15" L x 10 1/2" W x 6" D

PEL1490 Dim.: 19 1/16" L x 14" W x 4 7/8" D
In. Dim.: 18 1/8" L x 11 3/4" W x 4 15/32" D

PEL1520 Dim.: 19 1/4" L x 15 5/8" W x 7 5/8" D
In. Dim.: 18" L x 12 7/8" W x 6 3/4" D

PEL1600 Dim.: 24 1/4" L x 19 1/2" W x 9" D
In. Dim.: 22" L x 17" W x 8" D

PEL1620 Dim.: 24 5/8" L x 19 1/2" W x 14" D
In. Dim.: 22 1/4" L x 17 1/8" W x 12 1/2" D

PEL1700 Dim.: 37" L x 17 3/4" W x 6" D
In. Dim.: 36" L x 13 1/2" W x 5" D

Watertight Cases

COMPACT STORAGE CONTAINERS

Witz Sure Safe
WIT001



Holds credit cards and valuables

Dimensions:
W 2.5" x L 3.7" x D .75"

Witz Keep it Safe
WIT002



Holds keys, cards, money

Dimensions:
W 2.7" x H 4.3" x D 1.3"

Witz Lens Locker
WIT003



Crush resistant glass case

Dimensions:
W 3" x H 6.3" x D 1.8"

Witz The Wrapper
WIT0xx



Crush resistant glass case for wrap around glasses

Dimensions:
W 2.75" x H 6.5" x D 3"

Witz Sports Locker
WIT005



Crush resistant glass case for wrap around glasses

Dimensions:
W 6.5" x H 6.3" x D 1.8"

Witz Shutter Case
WITxxx



Holds compact camera, binoculars

Dimensions:
W 3 5/8" x L 6 1/4" x D 3 1/8"

Witz Phone Locker
WITxxx



Cell phone case, protects cell phone from impact and water damage

Dimensions:
H 6.75" x W 2.4" x D 1.35"

Otter Box 1000
OTT1000



Holds small items such as cards, pencils, etc..

Dimensions:
4 3/8" x 2 7/8" x 1 3/8"

Otter 1300
OTT1300



Compartmentalized box with clear lid

Dimensions:
4 3/8" x 2 7/8" x 1 3/8"

Otter 2000
OTT2000



Holds small items, spare parts, etc.

Dimensions:
6 1/2" x 3 3/8" x 1 5/8"

Otter 2500
OTT2500



Holds small items, spare parts, etc.

Dimensions:
6 1/2" x 3 7/8" x 3 3/8"

Otter 3000
OTT3000



Holds small items, logbook, etc.

Dimensions:
8 3/8" x 4 3/8" x 1 7/8"

Otter 3500
OTT3500



Holds mask, hose less gauges, etc..

Dimensions:
8 3/8" x 4 3/8" x 4"

Otter 8000
OTT8000



Holds sunglasses, tools

Dimensions:
3" x 3 3/4" x 5 3/4"

Otter 9000
OTT9000



Cell phone holder

Dimensions:
3" x 3 3/4" x 7 1/2"

Trident Mask Box
TRIFM05



Hard plastic mask box, protects mask from impact damage

Most compact storage containers are available in a multitude of colors. Special needs, let Aqua Tech be your solution

GLOBAL FLOW & TEST BENCHES

Global Compact Deluxe Flow Bench / Manometer



Compact Deluxe Flow Bench Specifications:

- * **Dimensions:** Ht. 30" x Length 30" x Width 15"
- * **Air Supply:** Air banks, industrial SCUBA tank
- * **Air Supply:** 5 ft. Hose with yoke assembly.
- * **Gauges:** Inlet 5,000 psi 2.5" face; Output 5000 psi 4.5" face; Intermediate pressure 300 psi 4.5" face
- * **Flowmeter:** Floating ball type
- * **Breathing Effort Gauges:** Hi effort mode, dual scale +/- , 0-5" water column, 4" face; Expanded mode, 0-3" water column, 4" face or 3" red oil manometer
- * **Air-gun:** 4' hose and Air-gun, supplied by a separate regulator
- * **Electrical:** 110 VAC / 60 Cycles or 220 / 240 VAC / 50 cycles
- * **Shipping Weight:** 90 lbs.

Global Compact Deluxe Flow Bench GLO48250



The 48250 and 48251 are identical except for the easier to read 3" inclined red oil manometer. Global's best Test Benches. Housed in Solid oak cabinet. The master regulator enables the technician to test at all tank pressures. Special test valve allows the attachment of yoke din regulators. Easy to use test bench allowing, inhalation and exhalation efforts at both initiation and during air flow, air flow up to 30 cubic feet a minute for regulators as well as valves and manifolds, first stage intermediate pressure, lockup repeatability and stability, air tightness integrity. Expanded scale readings for breathing resistance down to levels as low as .01". Able to simulate and measure breathing resistance / air flows to 300'. The unique manual probe system allows the technician to test breathe any regulator while measuring inhalation and exhalation resistance dynamically. This allows the technician to find diving environment results, enabling a professionally tuned well documented and adjusted regulator, for carefree water enjoyment. Comes with complete instructions that entail installation, maintenance, use, complete description of testing procedures and parameters. Available with metric gauges. Model GLO48260, equivalent to model GLO48250.

Global Standard Regulator / Valve Workstation

GLO48400

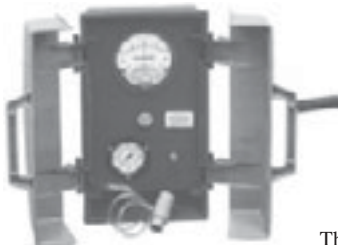


Housed in Solid oak cabinet. This Workstation provides controlled air pressure to a test stand where the functions of regulators can be tested. Can accommodate up to 5000 psi into the master regulator which can deliver up to 4500 psi into the test. Special test valve allows the attachment of yoke or din regulators. Easy to use test bench evaluates the following functions; first stage intermediate pressure, inhalation and exhalation resistance lockup repeatability and stability, air tightness integrity. Expanded scale readings for breathing resistance down to levels as low as .01". Comes complete with instructions that entail installation, maintenance, complete description of testing procedures and parameters.

Standard Regulator / Valve Workstation Specifications

- * **Dimensions:** Ht. 30" x Length 30" x Width 15"
- * **Air Supply:** Air banks, industrial SCUBA tank
- * **Air Supply Attachment:** 5 ft. Hose with yoke assembly.
- * **Pressure Gauges:** Inlet 5,000 psi 2.5" face; Output 5000 psi 4.5" face; Intermediate pressure 300 psi 4.5"
- * **Flowmeter:** Floating ball type
- * **Breathing Effort Gauges:** High effort mode, dual scale + / - , 0-5 inches water column, 4" face; Expanded mode, 0-3" water column, 4" face or 3" red oil manometer
- * **Air-gun:** 4' hose and Air-gun, supplied by a separate regulator
- * **Electrical:** 110 VAC / 60 Cycles or 220 / 240 VAC / 50 cycles
- * **Shipping Weight:** 90 lbs.

Global Portable Regulator Tester GLO48100



This compact utility unit facilitates rapid assessment of intermediate pressure and inhalation and exhalation resistance. The carrying case resembles a tackle box, with a lift-out tray for tools. Comes with magnetic gauge, and I.P. Gauge. Great for classes, boats, dive sites, and work sites.

Global Instrument Test Chamber GLO48300

GLO48300



GLO48301 Filler Yoke and Gauge

This chamber is designed for testing functions, watertightness, depth gauge accuracy, watches, dive computers, and certain photo equipment. This chamber is an industry standard. Each unit has an internal plastic water bucket, allowing equipment to be submerged while testing, this prevents any damage that might occur to gauges if tested dry. The chamber has a 10" inside diameter, and 11" usable internal depth. The outside dimensions are 10.8" in diameter by 15" high. Weight is approximately 100 lbs.. Constructed of steel alloy pipe with 0.45" wall thickness. The design utilizes a steel ring, which locks into the body by a pin and cog system, and has a 1" thick plexiglass view port with an "O" ring. The GLO48300 comes, as shown, with a 4.5" master gauge with an accuracy of 1% to 230', for analog gauges only. The GLO48310 chamber comes with a 4.5" master gauge. The gauge is tested to 300 FSW with an accuracy of 1 / 4 of 1 %. The GLO48310 can be used for digital gauge calibration. The GLO48301 yoke with hose is used for pressurizing the chamber. GLO48302 adapter is require for testing hose less gauges.

Global Instrument Test Chamber GLO48310



Ultrasonic Cleaners

ELECTROWAVE ULTRASONIC

As manufacturing requirements for cleanliness become even more stringent. Electrowave's product has risen to the top to become the "de facto" standard for industry. Their clients represent all facets of business, small and large, governments, military and multinationals around the globe. Electrowave's cleaner utilize a unique ceramic transducer system. This transducer produces a substantially higher movement to millivolt response. The transducer power will produce cavitation in the force range of over 100,000 psi. Guaranteed cavitation intensity in all units more than 750 micro amperes per square centimeter. Custom units are available. Larger units are also available in standard production.

All Electrowave units are MILSPEC Approved



Cabinet Ultrasonic Cleaners

Model	L" X W" X D"	Avg. Watts	Gallons
60	14 x 12 x 10	500	7
100	14 x 14 x 12	750	10
110	18 x 14 x 10	1000	11
160	20 x 16 x 12	1500	17
180	24 x 18 x 10	1700	19
250	24 x 24 x 10	2000	25
400	24 x 24 x 16	3000	40
425	36 x 22 x 18	400	62
900	36 x 24 x 24	5000	90

Specifications:

- * **Tank Covers and Perforated Baskets:** Included
- * **Stainless Steel Cabinets:** Standard on all units
- * **Langevin Bolt Transducers:** Utilized
- * **Power Requirements:**
Models 60 to 180; 120 VAC 50 / 60 Hz operation
Models 250 to 400; 220 VAC 50 / 60 Hz, Single Phase Operation
Models 425 to 900; 220 VAC 50 / 60 Hz, Three Phase Operation
- * **Heating Option:** Factory preset maximum 140 degrees Fahrenheit
- * **Timer :** Can be set for up to 30 minutes
- * **Frequencies:** Available in 13 kHz to 100 kHz
- * **Castors:** 5", Additional cost
- * **Explosion Proof Ultrasonic Cleaner:** ES and SU models
- * **Variable Heat Control:** Ambient to 200 degrees Fahrenheit
- * **Magnetostrictive Systems:** Available, call for quote

Table Top Ultrasonic Cleaners

Model	L" X W" X D"	Peak Watts*	Gallons
EW-3	9.5 x 5.5 x 4	360	0.9
EW-6	12 x 6.25 x 6	435	7.2
EW-11	12 x 9.5 x 6	750	2.9
EW-12	12 x 9.5 x 8	750	3.9
EW-13	20 x 6 x 6	750	3.1
EW-14	13 x 12 x 6	795	4.0
EW-21	20 x 12 x 6	1045	6.2
EW-22	20 x 12 x 8	1045	8.3
EW-40	24 x 8 x 6	1010	5.0
EW-30	30 x 8 x 6	1010	6.2
EW-36	36 x 8 x 6	1310	7.5
EW-40	40 x 8 x 6	1310	8.3

Specifications

- * **Tank Covers and Perforated Baskets:** Included
- * **Stainless Steel Cabinets:** Standard on all units
- * **Piezo-Electro Transducers:** Utilized
- * **Power Requirements:** Standard 120 VAC 50 / 60 kHz
- * **Heating Option:** Factory preset maximum 140 deg. F.
- * **Timer :** Can be set for up to 30 minutes
- * **Frequencies:** Available in 40 kHz to 60 kHz
- * **Drain:** Standard on model EW-12 and larger, drains can be added at a nominal charge
- * **Explosion Proof Ultrasonic Cleaner:** N.E.C., N.F.P.A. and O.S.H.A. . Explosion proof extra for models EW-3 to EW-6, EW-11 to EW-14, and models EW-21 to EW-40.



FULL FACE MASKS

Cressi Sub Full Face Mask
CREKX750089



Full face double seal neoprene mask for ice diving, cold water, and contaminated water. Will fit most regulators. 3 Point mask strap Affordable and rugged

Ocean Edge Neptune II
OCE33302



Neptune II is designed for underwater use. Can be used with a secondary and a primary regulator simultaneously, and can accommodate most underwater communication equipment. Bellows type silicone skirt Scratch resistant Available in cobalt or black Many variations and options available 6 Point head harness

Scubapro Full Face Mask SCU24150



Scubapro full face mask will make those cold water dives, ice dives, contaminated water work, or any diving adventure you might partake, more enjoyable and comfortable. Reduced dead air space in regulator compartment Removable accessory plugs for comms Optional alternate air source adapter

DESCO Demand Regulator DES59500



Same design as the FREE FLOW except right side mask mounted regulator. Aircontrol valve mounted on the regulator stem converts to free flow when open, demand when closed. Mask should not be used in demand for excessive periods of time, to avoid CO2 buildup, or ventilate regularly. Comes with non-return valve.

DESCO Commercial Free Flow DES59069-C



Air delivery to mask through non return valve and mask mounted right side air control valve. Left side exhaust. Compression molded rubber bonded on brass frame Five strap head harness with brass buckles Low profile design for confined spaces

Interspiro AGA OTS900157-xxx



The interspiro AGA is a proud leader in full face technology. The AGA mask has been used extensively in sport, commercial, and technical diving activities Available in black silicone positive pressure or demand Gold silicone is available in positive pressure or demand Double edge seal Easy to install communications

DSI EXO DSI300-0xx



Designed for surface supplied and SCUBA diving. The EXO facilitates near natural speech when using most wireless and all hardwire communications. Modular design allows easy maintenance. Durable plastic allowing an equal pull on the 5 point harness EXO Standard EXO Balanced regulator EXO Original are available with comm

Options:
No comms
W.P. Connectors or posts
EXO Standard, and EXOBR
oral nasal reduces CO2 buildup

DSI KMB18B & KMB28B DSI500-0xx



KMB 18B and KMB28B an economic but outstanding choice for the working air or mixed gas diver. KMB18B has fiberglass frame, KMB28B has injection molded plastic frame. Communication options are male W.P. Connectors or bare wire post Communication options are male W.P. Connectors or bare wire post Gas supply nonreturn valve Superflow series regulators Many other options and features

DESCO MASKS



U.S. NAVY FREE-FLOW DIVING MASK

Cat. No. 59069

The standard Navy mask. Air is fed through a non-return valve, an air-control valve, and a three-way inhale valve. Air is exhausted on the left side of the mask through a rubber-disc exhaust valve.



DESCO POOL-CLEANING MASK

Cat. No. 59069-A

This is a still simpler version of the basic Navy mask having neither the three-way inhale valve nor the air-control valve. Air is fed directly to the mask through a non-return inlet valve and a brass elbow.

PARTS FOR DESCO FREE-FLOW MASKS

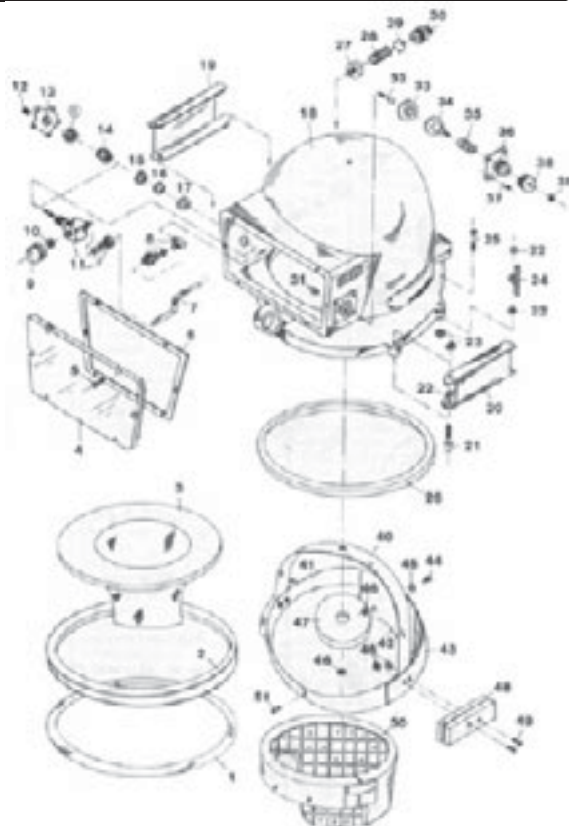
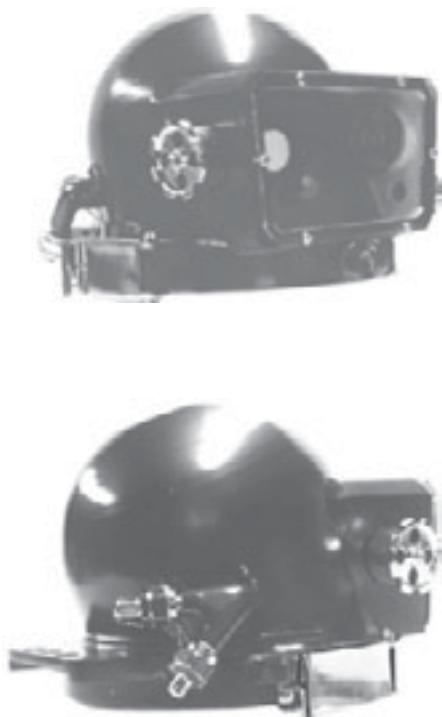
- Rubber Brass Mask Frame Replacement..... (Cat. No. 59065)
- Head Harness..... (Cat. No. 59041)
- Small Buckles..... (Cat. No. 59046)
- Extension Buckles..... (Cat. No. 59035)
- Exhaust Valve, Complete..... (Cat. No. 59028)
- Exhaust Valve Disc..... (Cat. No. 56026)
- Non-Return Valve, Complete..... (Cat. No. 59091)
- Non-Return Spring..... (Cat. No. 57029)
- Non-Return Disc..... (Cat. No. 52030)
- 3-Way Inhale Valve, Complete... (Cat. No. 59044)
(Used on No. 59069 only)
- Control Valve..... (Cat. No. 59003)
- Commercial Inhale Elbow..... (Cat. No. 60001)
(Used on No. 59069-C only)
- Pool-Cleaning Inhale Elbow..... (Cat. No. 60002)
(Used on No. 59069-A only)
- Commercial Double-Male Adaptor..... (Cat. No. 60003)
(Used on No. 59069-C only)
- Spare Parts Kit for free-flow masks..... (Cat. No. 60008)
- Square Exhaust..... (Cat. No. 59112)

SPARE PARTS & REPAIR KIT For Desco Free-Flow Masks Cat. No. 60008

Contains the following items:

- 1 Head Harness..... (Cat. No. 59041)
- 3 Small Buckles..... (Cat. No. 59046)
- 1 Extension Buckle... (Cat. No. 59035)
- 1 Exhaust Valve Disc... (Cat. No. 56026)
- 1 Non-Return Spring... (Cat. No. 59029)
- 1 Non-Return Disc.... (Cat. No. 52030)
- 1 Intake Flapper..... (Cat. No. 56028)
- 1 Lead Exhaust Washer..... (Cat. No. 57034)

DESCO AIR HAT



DESCO DIVING HAT CAT. NO. 61000

1-3	NECK RING INSERT ASSEMBLY	61050
1	NECK SEAL O-RING	61054
2	NECK RING INSERT	61051
3	NECK DAM	61052
4	SHIM	61053
5-7	WINDOW ASSEMBLY	61075
5	WINDOW	61076
6	WINDOW RETAINING SCREWS	61078
7	WINDOW GASKET	61077
8-18	AIR INTAKE ASSEMBLY	61125
8	COPPER TUBE	61127
9	ELBOW INSIDE	61128
10	AIR DISTRIBUTOR	61135
11	LANE SWOOL	
12	VALVE	61128
13	VALVE HANDLE NUT	61134
14	VALVE HANDLE	61133N
15	VALVE STEM ADAPTER	61132
16	VALVE RETAINING NUT	61131
17	BRASS WASHER	61130
18	LEAD WASHER	61129
19-26	POT & NECK RING ASSEMBLY	61025
19	POT & NECK RING	61026
20	NECK RING CLAMP (RIGHT)	61034
21	NECK RING CLAMP (LEFT)	61035
22	CLAMP SCREW	61030
23	CLAMP & LOCK WASHER	61031
24	CLAMP & LOCK NUT	61032
25	LOCK	61038
26	LOCK RETAINING SCREW	61037
27	NECK RING GASKET	61036
28-31	NON-RETURN VALVE ASSEMBLY	59091
28	BODY	53029
29	SPRING	57029
30	PLATE	52030
31	ADAPTER	53079

32-43	EXHAUST VALVE ASSEMBLY	60231
32	LOCKNUT	53025
33	SCREW	53037
34	FLAPPER	56026
35	O-RING	60234
36	FLAPPER GUARD	60238
37	STAR WASHER	60237
38	SET SCREW, 6-32	60235
39	CENTER SECTION	60233
40	PLUNGER	53024
41	SPRING	57029
42	TOP SECTION	60236
43	KNURLED CAP	53028
44	NUT	54016
45-55	HEAD PIECE ASSEMBLY	61100
45	TOP BAND	61103
46	HEAD BAND	61101
47	BACK PLATE	61104
48	3/8" BRASS SCREW	61106
49	BRASS FLAT WASHERS	61109
50	BRASS NUTS	61110
51	TOP PAD	61113
52	SIDE PAD	61112
53	7/16" BRASS SCREWS	61114
54	INSERT	61106
55	SCREW	61107
56-59	COMMUNICATIONS	61200
56	BINDING POST (complete)	61203
57	SPEAKER w/CLIPS	61204
58	TELEPHONE CUP	61209
59	RETAINING SCREW	54009
60-68	SINGLE EXHAUST VALVE	59112T
60	EXHAUST BASE	51025
61	SCREW	53037
62	FLAPPER	53026
63	PLUNGER	53024
64	SPRING	27009
65	COVER	52090
66	SCREW	54025
67	CAP	53028
68	NUT	54058



DESCO HELMETS

MARK V MODEL 1

CAT. NO. 29103



Double Spring
Adjustable Tension
Spit Cock
Four Windows
Telephone Cup
Transceiver
Welding Lens
Breast Plate Eyelets For Hose
Safety Lock & Chain

Weight: Approximately. 68lbs

ABALONE DIVERS HELMET

CAT. NO. 29211



This Helmet Features a Mark V Style Double Spring Adjustable Tension Exhaust Valve. All the Windows Have Guards & Are Secured by Screws. The non-return Valve is Integrated into the Air Elbow.

COMMERCIAL DIVE HELMET

CAT. NO. 29134-A



This Helmet is generally similar in material & construction to the U.S. Mark V Helmet, but makes use of a simpler, although equally rugged, design. Breast Plate fits Commercial Style Dress Only.

AGAR DIVERS HELMET

CAT. NO. 29198



This is a single Spring Adjustable Tension Head Butt Exhaust Valve. Windows are secured by Abalone Type wings w/out bars. The non-return is integrated into the Air Elbow.

U.S. NAVY HELIUM HELMET

CAT. NO. 29019



This is a usable Mark V Model 1 U.S. Navy Diving Helmet which has been modified in accordance w/ Navy specifications so as to be usable w/ Helium/Oxygen breathing mixtures.

SHALLOW WATER HELMET

CAT. NO. 59027



This Shallow Water Helmet is made of polished brass & copper and is equipped w/ 20 lb. Lead BreastPlate Weights in the front & rear.

SPONGE DIVER HELMET

CAT. NO. 29118



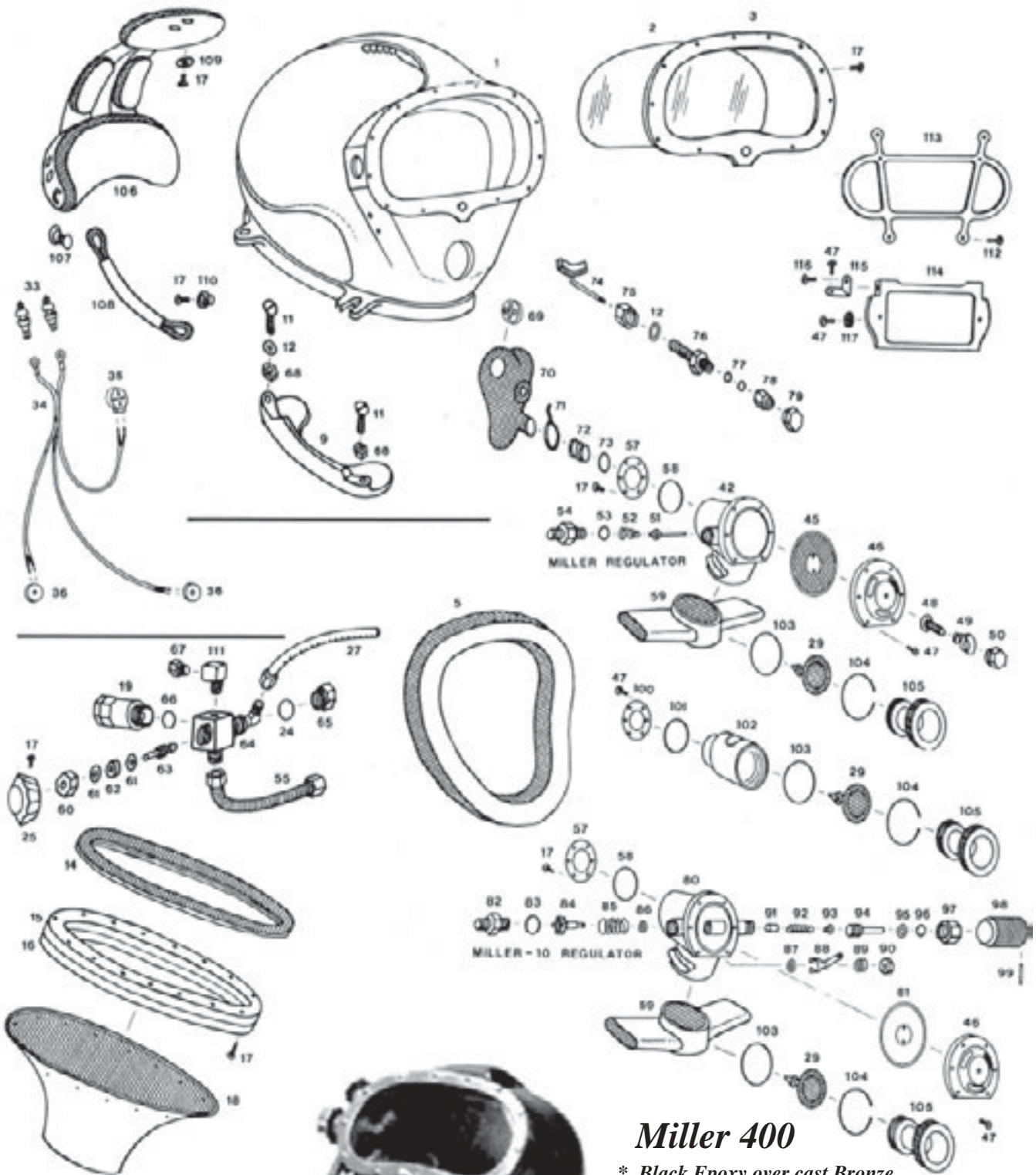
This Helmet features a Screw-In type Faceplate. The Windows are secured w/ threaded rims w/out Guards. The Exhaust is a nonadjustable head butt type. The non-return valve is Integrated into the Air Elbow.

HELMET REPAIR AND RECONDITIONING



Desco is uniquely equipped to Repair & Recondition old or damaged helmets.

MILLER 400 SCHEMATIC



Miller 400

- * Black Epoxy over cast Bronze
- * 2 Adjustable Exhaust
- Double Exhaust Avail.
- * Communication System
- * Locking Neckring
- * 2 Regulator Styles

Call Aqua Tech for additional Information!



MILLER HELMET PARTS

Drawing & Part No.	DESCRIPTION	Drawing & Part No.	DESCRIPTION	Drawing & Part No.	DESCRIPTION
400-1	Bronze Helmet Shell	400-54	Tilt Valve Housing	400-107	Adjustment Knob
400-2	Lexan Face Plate	400-55	Demand Tube & Guard Ass'y (200 Series)	400-108	Neck Band
400-3	Face Ring	400-57	Regulator Retainer Plate	400-109	Mount Washer
-4	(200 Series)	400-58	Regulator Body J-Ring	400-110	Band Button
400-5	Face Plate	400-59	Deflector	400-111	Ballout Elbo
-6	(200 Series)	400-60	Manifold Packing Nut	400-112	10-24 X 5/8" Screw
-7	(200 Series)	400-61	Packing Washer	400-113	Face Guard
-8	(200 Series)	400-62	Teflon Packing	400-114	Flip Up Welding Shield
400-9	Cam Handle (Right)	400-63	Valve Stem	400-115	Hinges
400-10	Cam Handle (Left) Not Shown	400-64	Valve Manifold Body	400-116	10-24 X 5/16" Nylon Screw
400-11	Handle Screw	400-65	Manifold Nut	400-117	Rubber Washer
400-12	Handle Screw Washer	400-66	Check Valve O-Ring		
-13	(200 Series)	400-67	1/4" NPT Plug		
400-14	Neck Ring Gasket	400-68	Cam Nut		
400-15	Upper Neck Ring (Tapped)	400-69	Oral Nasal Disc		
400-16	Lower Neck Ring	400-70	Oral Nasal		
400-17	10- X 1/2" Screw	400-71	Tie Strap		
400-18	Neoprene Neck Seal (Boat)	400-72	Oral Nasal Fitting	400-130	Communications Ass'y: 34, 35, 36
400-19	Non-Return Check Valve	400-73	Fitting O-Ring	400-131	Oral Nasal Ass'y: 69, 70, 71, 72, 73
-20	(200 Series)	400-74	Nose Rod w/Pad		
-21	(200 Series)	400-75	Inner Slotted Nut	400-132	Nose Device Ass'y: 12, 74, 75, 76, 77, 78, 79.
-22	(200 Series)	400-76	Nose Device Housing	400-133	Side Exhaust Ass'y 100, 101, 102, 103, 104, 105, 29, 47.
-23	(200 Series)	400-77	Nose Device Housing O-Ring	400-134	Freeflow Manifold Ass'y 24, 60, 61, 62, 63, 64, 65, 67.
400-24	O-Ring for Manifold	400-78	Packing Nut	400-135	Neck Ring Ass'y 15, 16, 17, 18.
400-25	Handle for Manifold	400-79	Nose Knob		
-26	(200 Series)	400-80	Miller-10 Regulator Body	40-136	Head Harness Ass'y 106, 107, 108, 109, 17.
400-27	Freeflow Muffler	400-81	10-Diaphragm	400-137	Face Guard Ass'y 112, 113.
-28	(200 Series)	400-82	Miller-10 Inlet Seat	400-138	Welding Shield Ass'y 114, 115, 116, 117, 47.
400-29	Rubber Exhaust Valve	400-83	10-Inlet O-Ring	400-139	Miller Regulator Ass'y: 29, 42, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 57, 58, 59, 17, 104, 105.
-30	(200 Series)	400-84	10-Disk & Retainer Ass'y		
-31	(200 Series)	400-85	10-Inlet Spring	400-140	Miller-10 Regulator Ass'y: 46, 47, 17, 57, 58, 59, 103, 29, 104, 105, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 55.
-32	(200 Series)	400-86	10-Washer	400-141	KMB-10 Regulator w/Miller Adaptors Ass'y (Not Shown)
400-33	Binding Post	400-87	10-Washer	-120	KMB-10 Regulator
400-34	Speaker Wire Ass'y	400-88	10-Demand Lever	-121	Base Adaptor
400-35	Microphone	400-89	10-Spacer	-73	Adaptor O-Ring
400-36	Earphone	400-90	10-Nut	-58	Base O-Ring
-37	(200 Series)	400-91	10-Piston	-57	Retainer Plate
-38	(200 Series)	400-92	10-Adjustment Spring Set	-17	Base Screw
-39	(200 Series)	400-93	10-Spacer	-122	Elbo Adaptor
-40	(200 Series)	400-94	10-Adjustment Shaft	-123	Elbo Adaptor O-Ring
-41	(200 Series)	400-95	10-Teflon Washer	-124	Adaptor Tube w/Guard
400-42	Regulator Body- Miller	400-96	10-O-Ring		
-43	(200 Series)	400-97	10-Packing Nut		
-44	9200 Series)	400-98	Miller-10 Adjustment Knob		
400-45	Miller Demand Regulator	400-99	10-Split Pin		
400-46	Regulator Diaphragm Cover	400-100	Exhaust Retainer Plate		
400-47	10-24 X 5/16" Screw	400-101	Exhaust Body O-Ring		
400-48	Adjustment Screw	400-102	Exhaust Body		
400-49	Adjustment Spring	400-103	Exhaust Inner O-Ring		
400-50	Adjustment Knob	400-104	Exhaust Clip Ring		
400-51	Tilt Valve	400-105	Exhaust Handle		
400-52	Tilt Valve Spring	400-106	Head Harness Body w/Pads		
400-53	Tilt Valve Housing O-Ring				

KIRBY MORGAN 17K



SuperLite 17K Helmet

Aqua Tech DIVE CENTER



Bob Kirby 16

On this early model helmet a band mask frame was attached to a rear shell to make it a full helmet.

Historical Diving Museum

Part Number	Description
500-050	SuperLite 17K Helmet w/Post Comms
500-051	SuperLite 17K Helmet w/MWP Comms

Parts & Accessories

17K Spares Kits

525-019	O-Ring Kit
525-309	Regulator Rebuild Kit
525-311	Side Block Rebuild Kit
525-347	SL 17K Helmet Spares Kit
525-349	SL 17K Overseas Spares Kit

17K Communications Assemblies

515-023	SL 17K Comm Assembly w/Post
515-024	SL 17K Comm Assembly w/MWP
515-029	SL 17K Microphone Assembly
515-033	SL 17K Comm Set
520-132	SL 17K Comm Module, Drilled for MWP

17K Neck Ring Assemblies

505-117	SL 17K Neck Ring Assembly, Latex, M-L
505-118	SL 17K Neck Ring Assembly, Latex, S
505-119	SL 17K Neck Ring Assembly, Neoprene, M

17K Accessories

525-717	SL 17K Brackets Kit
525-102	Double Exhaust Kit
525-620	Tool Kit w/Pouch
100-017	Operations/Maint Manual for SuperLite 17K

Color/Hardware options are available as listed below: Standard color is Yellow.

Optional Colors: Red, Mint Green, White, Smoke White (Light Grey), Dark Blue, Royal Blue, and Black.

Helmets

KIRBY MORGAN 17A/B/C & 27B



SuperLite 17B Helmet



SuperLite 17C Helmet



SuperLite 27 Helmet

Part Number	Description
500-005	SuperLite 17A Helmet
500-006	SuperLite 17A Helmet w/MWP Connector
500-010	SuperLite 17B Helmet
500-011	SuperLite 17B Helmet w/MWP Connector
500-600	SuperLite 17C Helmet w/MWP Connector
525-301	O-Ring Kit, SL 17 A/B
525-309	Regulator Rebuild Kit
525-311	Side Block Rebuild Kit
525-317	Helmet Spares Kit, SL 17 A/B
525-325	Overseas Spares Kit, SL 17 A/B
100-001	Operations/Maintenance Manual for SL 17A/B
100-006	Operations/Maintenance Manual for SL 17C
500-040	SuperLite 27 Helmet
500-041	SuperLite 27 Helmet w/MWP Connector
525-019	O-Ring Kit, SL 27
525-309	Regulator Rebuild Kit
525-311	Side Block Rebuild Kit
525-333	Helmet Spares Kit, SL 27
525-341	Overseas Spares Kit, SL 27
100-027	Operations/Maintenance Manual for SL 27

Color/Hardware options are available as listed below: Standard color is Yellow.

Optional Colors: Red, Mint Green, White, Smoke White (Light Grey), Dark Blue, Royal Blue, and Black.

KIRBY MORGAN 18A/B & 28A/B



Part Number	Description
500-020	KMB 18A Band Mask
500-021	KMB 18A Band Mask w/MWP Connector
500-025	KMB 18B Band Mask
500-026	KMB 18B Band Mask w/MWP Connector
500-028	KMB 28B Band Mask
500-029	KMB 28B Band Mask w/MWP Connector
525-303	O-Ring Kit, KMB 18 & 28
525-309	Regulator Rebuild Kit
525-311	Side Block Rebuild Kit
525-319	Mask Spares Kit KMB 18 & 28
525-327	Overseas Spares Kit 18 & 28
100-002	Operations/Maintenance Manual for KMB 18 & 28 A/B

Part Number	Description
100-150	Diving in High Risk Environments
200-017	Over-Pressure Relief Valve, Hi-Flow
500-901	Helmet/Mask Bag
505-047	MWP Connector Assembly
510-530	Neck Dam, Cold Water, 17 A/B, L
515-030	Communications Set 17, 18 & 28
515-061	Terminal Block Kit for MWP Connector
520-010	Hard Shell, KMB 18 & 28
525-100	Hot Water Shroud Kit
525-102	Double Exhaust Kit 17 A/B, K
525-120	Double Exhaust Kit 27
525-122	Double Exhaust Kit MK 21
525-130	Front Weight Kit 17 A/B, K & MK 21
525-210	Sealed Pull Pin Kit 27
525-330	One-Way Valve Kit 17/27 & 18/28
525-403	Weld Lens Assembly
525-405	Weld Lens, Light, #5
525-406	Weld Lens, Medium, #10
525-407	Weld Lens, Dark, #12
525-620	Tool Kit w/Pouch

Aqua Tech DIVE CENTER



Comstock Mask

This mask was designed in 1944 by a US Navy Diver.
The face seal was inflatable to adjust fit.

Historical Diving Museum

KIRBY MORGAN EXO 26



EXO BR



EXO Standard

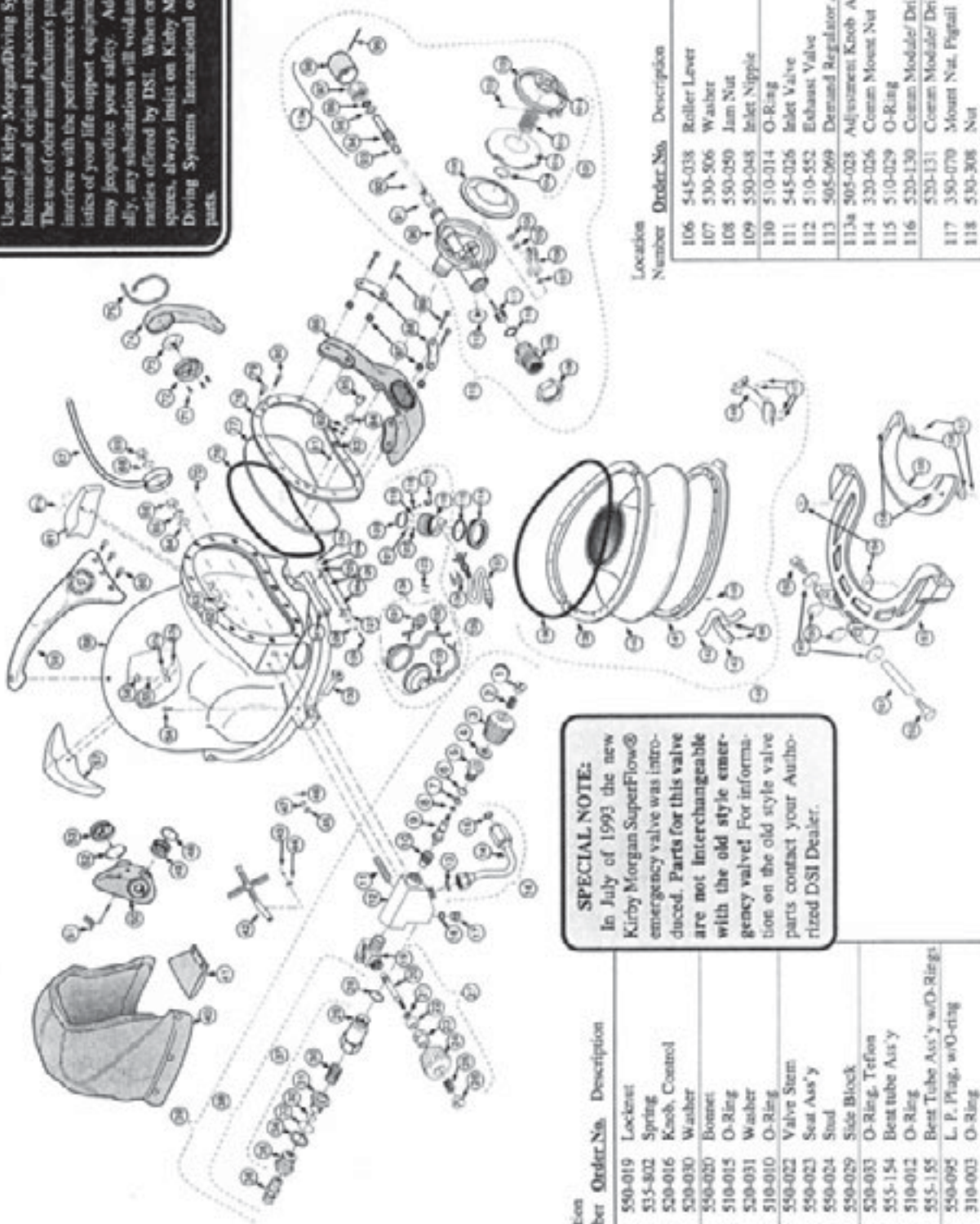
Part Number	Description
300-026	EXO Mask, Original, no Comms
300-027	EXO Mask, Original w/Hardware Comms & Posts
300-028	EXO Mask, Original w/Hardware Comms & MWP Connector
300-036	EXO BR Mask, Balanced Regulator, no Comms
300-037	EXO BR Mask, Balanced Regulator w/Posts
300-038	EXO BR Mask, Balanced Regulator w/MWP Connector
300-040	EXO Mask, Standard, no Comms
300-041	EXO Mask, Standard w/Posts
300-042	EXO Mask, Standard w/MWP Connector
325-305	Kit, Regulator Rebuild, Original/Standard
325-307	Kit, Mask Spares, Original/Standard
300-010	Hard Shell, EXO
300-902	Mask Bag for EXO
300-145	Manifold Block Assembly w/Scuba Adapter
300-150	Manifold Block Assembly w/9/16" O2
300-155	Manifold Block Assembly w/#6 JIC
100-030	Operations/Maintenance Manual, EXO 26 (All Models)

Part Number	Description
305-036	Air Inlet Swivel
310-030	Hood, EXO 26, S
310-031	Hood, EXO 26, M
310-032	Hood, EXO 26, L
305-020	Blank Comm Module w/Screws
315-017	Microphone Assembly, EXO Original
315-201	Comm Assembly w/Bare Wire Post, Original
315-206	Comm Assembly w/MWP, Original
315-210	Comm Assembly w/Post, Standard/BR
315-215	Comm Assembly w/MWP, Standard/BR
325-620	Spanner Wrench
325-630	Tool Kit w/Pouch, EXO 26
325-650	Tool Kit, EXO, Deluxe
325-635	Nose Block Device Kit, EXO Original
355-018	Hose 18" LP (Pony Bottle to Manifold Block)
355-026	Hose 26" LP (Manifold Block to EXO Mask)
355-028	Hose 28" LP (Scuba Tank to EXO Mask)

KIRBY MORGAN 27B SCHEMATIC

SuperLite 27 B Helmet

Caution - Warning
 Use only Kirby Morgan/Diving Systems International original replacement parts. The use of other manufacturer's parts will interfere with the performance characteristics of your life support equipment and may jeopardize your safety. Additionally, any substitutions will void any warranties offered by DSI. When ordering spares, always insist on Kirby Morgan/Diving Systems International original parts.



SPECIAL NOTE:
 In July of 1993 the new Kirby Morgan SuperFlow® emergency valve was introduced. Parts for this valve are not interchangeable with the old style emergency valve. For information on the old style valve parts contact your Authorized DSI Dealer.

Location Number	Order No.	Description
106	545-038	Roller Lever
107	530-506	Washer
108	550-050	Jam Nut
109	550-048	Inlet Nipple
110	510-014	O-Ring
111	545-026	Inlet Valve
112	510-552	Exhaust Valve
113	505-069	Demand Regulator Assy
113a	505-028	Adjustment Knob Assy
114	320-026	Coron Mount Nut
115	510-029	O-Ring
116	520-130	Coron Module/ Drilled For Posts
117	350-070	Coron Module/ Drilled For W7 Conn.
118	530-308	Mount Nut, Pigtail
119	530-525	Washer

Location Number	Order No.	Description
1	550-019	Locknut
2	515-802	Spring
3	520-016	Knob, Control
4	520-030	Washer
5	550-020	Bonnet
6	510-015	O-Ring
7	520-031	Washer
8	510-010	O-Ring
9	550-022	Valve Stem
10	550-023	Seat Assy
11	550-024	Stud
12	550-029	Side Block
13	520-033	O-Ring, Teflon
14	555-154	Bent tube Assy
15	510-012	O-Ring
16	555-155	Bent Tube Assy w/O-Ring
17	550-095	L. P. Plug, w/O-ring
18	310-003	O-Ring
19	550-140	Emerg. Valve Body

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KIRBY MORGAN 27B PARTS LIST

Location Number	Order No.	Description
120	510-630	Rubber Cover
121	330-030	Screw
122	330-035	Washer
123	515-055	Wiring Harness
124	530-035	Screw
124a	530-546	Washer
125	550-061	Spacer
126	540-086	Swing Tongue Catch
126a	520-167	Washer
127	535-825	Spring
127a	530-032	Screw
128	550-122	Spring Spacer
129	530-045	Screw
525-106		Swing Catch Retro Fit Kit
130	505-110	Sealed Pull Pin
525-210		Sealed Pull Pin Retro Fit Kit
131	515-020	Share @ Microphone
132	515-019	Earphone, Left
133	515-018	Earphone, Right
134	515-070	Communications Set
135	515-015	Comm Ass'y Complete w/ Posts
515-016		Comm Ass'y Complete w/ F.P. Conn/Male
136	315-020	Communications Post
137	505-065	W.P. Conn Ass'y, Male (Optional)
515-045		W.P. Conn, Male (w/so Packing & Terminals)
315-005		Pigtail (Packing Gland)
515-049		Terminals
138	510-450	O-Ring
139	540-105	Split Ring, (2 Required)
140	510-504	Neck Dam, Neoprene
510-500		Neck Dam, Latex (optional)
141	560-078	Stepped Ring
142	530-808	Pull Strap
143	540-115	Strap Plate
144	530-220	Screw
145	530-024	Screw
146	545-100	Chain Strap Ass'y Complete
147	530-022	Screw
148	505-100	Neck Ring Ass'y, Complete
505-095		NR Ass'y, Complete (Latex) optional
149	530-545	Washer
150	520-165	Washer
151	550-275	Flange Pin
152	530-200	Bolt
153	560-111	Locking Collar
154	550-113	Mount Nut
155	520-156	Neck Pad (new)
156	550-045	T-Washer
157	530-064	Screw
158	530-547	Washer

Location Number	Order No.	Description
61	560-081	Side Weight (Port)
61a	530-062	Screw
62	530-070	Screw
63	530-540	Washer
64	530-535	Washer
65	530-415	Washer
66	530-317	Nut
67	545-016	Air Train
68	530-535	Washer
69	530-317	Nut
70	530-050	Screw
71	530-032	Screw
72	550-350	Water Dump Body
73	510-557	Water Dump Valve
74	510-625	Water Dump Shroud
75	520-042	Tie Wrap
76	510-260	O-Ring
77	520-004	Face Port (Lexan)
78	560-070	Port Retainer Ass'y
79	530-052	Screw, Port Plug
80	530-035	Screw
81	510-010	O-Ring
82	510-008	O-Ring
83	550-116	Noise Block Guide
84	555-180	Packing Nut
85	550-062	Knob, Nose Block
86	510-556	Whisker, Rubber
87	550-061	Spacer
88	540-015	Plate
89	530-045	Screw
90	545-080	Regulator Body (SuperFlow 350)
91	550-060	Plusion
92	535-807	Spring Set
93	550-059	Spacer
94	550-057	Shaft
95	520-032	Washer
96	510-011	O-Ring
97	550-055	Packing Nut
98	550-053	Knob, Adjustment
99	530-601	Retaining Pin
100	510-553	Diaphragm
101	545-018	Cover Ass'y
101a	535-905	Retaining Clip
101b	540-055	Cover
101c	535-810	Spring
101d	520-017	Purge Button
102	530-030	Screw
103	545-020	Clamp
104	530-303	Nut
105	550-052	Spacer

Location Number	Order No.	Description
20	550-138	Stem
21	540-095	Washer
22	520-024	Packing
23	550-091	Packing Nut
24	520-025	Knob, Control
25	535-802	Spring
26	550-019	Locknut
27	505-070	Emerg. Valve Ass'y
28	510-483	O-Ring
29		Body
30		Spring
31		Poppet
32		O-Ring
33		O-Ring
34		Wiper
35		Seat
36	555-117	Adaptor, Brass, 1/4 NPT/0 ₁
37	555-195	One-Way Valve
38	505-060	One-Way Valve Ass'y
39	505-024	Slide Block Ass'y Complete (B)
40	510-663	Head Cushion
510-657		Head Cushion Bag
510-672		Replacement Foam Kit (40&41)
41	510-665	Chin Cushion
510-659		Chin Cushion Bag
525-119		Head Cushion Upgrade kit
42	540-054	Earphone Retainer
43	530-018	Screw
44	530-527	Washer
45	530-519	Washer
46	530-018	Screw
47	530-702	Seap
48	510-490	O-Ring
49	550-081	Nut, Regulator Mount
50	510-690	Oral Nasal, silicone (standard)
510-569		Oral Nasal, latex (small, optional)
51	545-070	Noise Block Device
510-575		Noise Pad
52	510-550	Valve, Oral Nasal
53	520-020	Valve Body
54	530-015	Screw
55	530-070	Screw
56	530-540	Washer
57	560-100	Diamond Weight
525-225		Diamond Weight Kit (optional)
57a	530-040	Washer
57b	530-078	Screw
58	505-105	Helmet, Fiberglass w/Ring
59	560-106	Handle
60	530-045	Screw

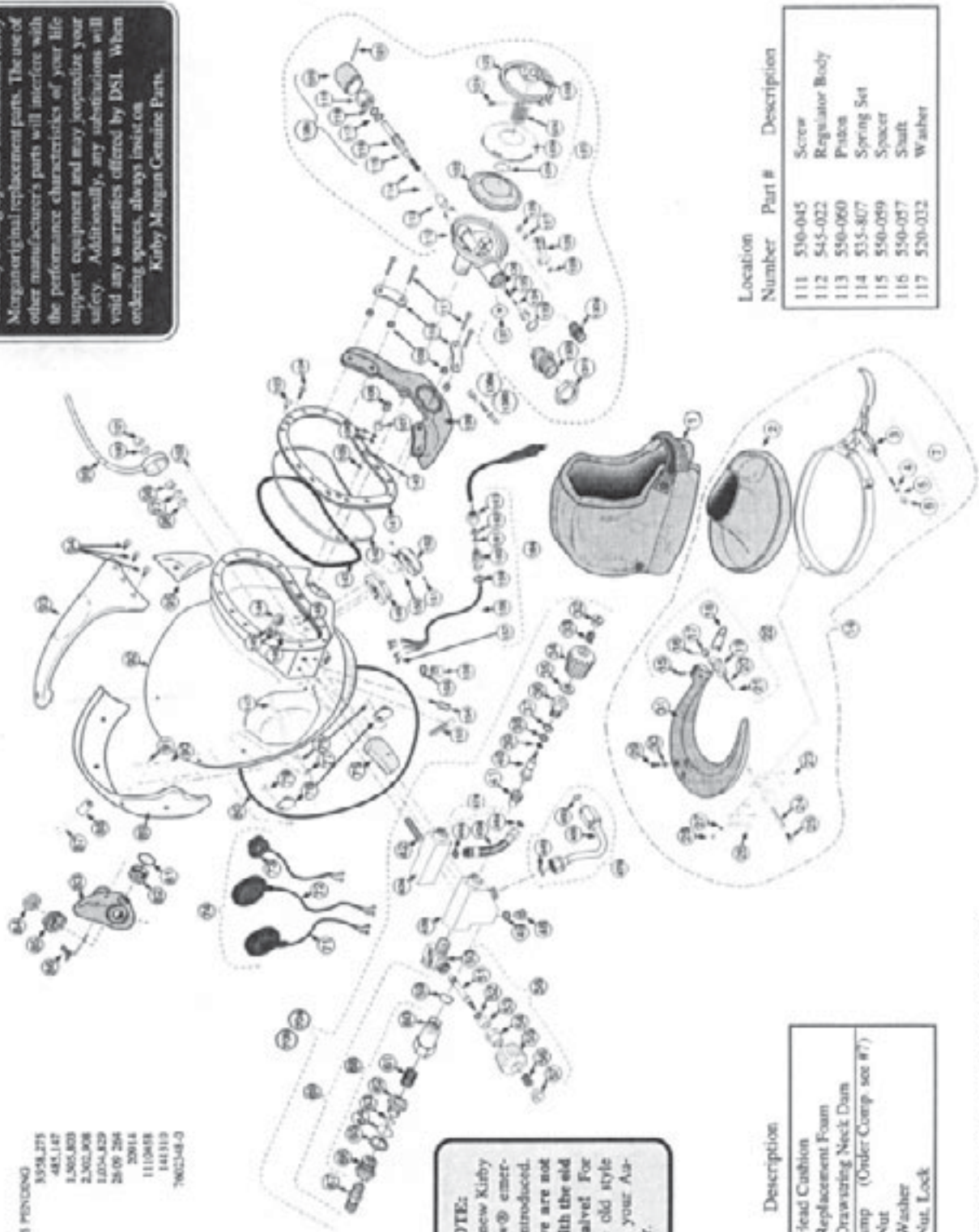
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KIRBY MORGAN 17A/B SCHEMATIC

SuperLite-17 A/B Helmet

PATENTS PENDING
 U.S.A. 3594,275
 Austria 485,147
 United Kingdom 2,505,803
 France 2,502,908
 Canada 1,004,829
 Germany 28,09,264
 Italy 20914
 Japan 1110498
 Norway 144319
 Sweden 7002548-0

Caution - Warning
 Use only Diving Systems International Kirby Morgan original replacement parts. The use of other manufacturer's parts will interfere with the performance characteristics of your life support equipment and may jeopardize your safety. Additionally, any substitutions will void any warranties offered by DSI. When ordering spares, always insist on Kirby Morgan Genuine Parts.



SPECIAL NOTE:
 In July of 1993 the new Kirby Morgan SuperFlow® emergency valve was introduced. Parts for this valve are not interchangeable with the old style emergency valve! For information on the old style valve parts contact your Authorized DSI Dealer.

Location Number	Part #	Description
111	530-045	Screw
112	545-022	Regulator Body
113	550-060	Piston
114	535-807	Spring Set
115	550-059	Spacer
116	550-057	Shaft
117	520-032	Washer

Location Number	Part #	Description
1	510-521	Head Cushion
	510-523	Replacement Foam
2	510-533	Drawstring Neck Dam
3		Neck Clamp (Order Comp. see #7)
4	530-317	Nut
5	530-415	Washer
6	530-320	Nut, Lock

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KIRBY MORGAN 17A/B PARTS LIST

Location Number	Part #	Description	Location Number	Part #	Description
7	505-055	Neck Clamp Assy.	118	510-011	O-Ring
8-13	not used		119	550-055	Packing Nut
14	505-008	NC w/ Yoke Assy w/ Pull Pin	120	550-053	Knob, Adjustment
15	530-066	Screw	121	530-601	Retaining Pin
16	530-601	Roll Pin	122	510-553	Diaphragm
17	550-255	Knob	123	545-018	Cover Assy
18	535-900	Safety Pin	123a	535-905	Retaining Clip
19	560-051	Latch Catch Body	123b	540-055	Cover
20	535-808	Spring	123c	535-810	Spring
21	550-257	Plunger	123d	520-017	Purge Button
22	505-010	Latch Catch Assy, Pull Pin	124	530-030	Screw
23	560-026	Hinge	125	545-020	Clamp
24	550-018	Sleeve	126	530-303	Nut
25	530-201	Bolt	127	550-052	Spacer
26	545-013	Rear Hinge Tab	128	545-038	Roller Lever
27	530-406	Washer	129	530-506	Washer
28	530-025	Screw	130a	550-046	Inlet Nipple "A"
29	530-080	Screw	131b	550-050	Jam Nut "B"
30	530-530	Washer	132b	550-048	Inlet Nipple "B"
31	520-060	Fiberglass Yoke	133	510-014	O-Ring
32	550-019	Locknut	134	545-026	Inlet Valve
33	535-802	Spring	135	535-804	Spring
34	520-016	Knob, Control	136	530-505	Washer
35	520-030	Washer	137	510-552	Exhaust Valve
36	550-020	Bonnet	138a	505-026	Demand Reg. Assy "A"
37	510-015	O-Ring	138b	505-027	Demand Reg. Assy "B"
38	520-031	Washer	138c	505-028	Reg. Adjustment Knob Assy
39	510-010	O-Ring	139	510-554	W/icker, Rubber
40	550-022	Valve Stem	140	550-116	Nose Block Guide
41	550-023	Seat Assy	141	560-070	Port Ret. Assy
42	550-024	Stud	142	520-004	Face Port (Lexan)
43a	550-026	A Side Block	143	510-260	O-Ring
43b	550-026	B Side Block	144	550-040	Nut
44a	510-011	O-Ring	145	530-308	Nut
44b	520-033	O-Ring (teflon)	146	530-525	Washer
45a	555-152	Regulator Hose	147	540-054	Earphone Receiver
45b	555-154	Bent Tube Assy	148	530-035	Screw
46a	510-010	O-Ring	149	550-063	Exhaust Body
46b	510-012	O-Ring	150	510-561	Exhaust Valve
47a	555-152	Regulator Hose Assy w/O-Rings	151	530-021	Screw
47b	555-155	Bent Tube Assy w/O-Rings	152	545-024	Exhaust Cover
48	550-095	L.P. Plug, w/O-ring	153	515-061	Terminal Block
49	310-003	O-Ring	154	515-035	Communications Post
50	550-140	Emerg. Valve Body	155	510-481	O-Ring
51	550-138	Stem	156	550-043	Plug
52	540-095	Washer	157	515-049	Terminal
53	520-024	Packing	158	515-045	Waterproof Conn, Male
54	550-091	Packing Nut	159	510-481	O-Ring
55	520-025	Knob, Control	160	555-175	Packing Gland
56	535-802	Spring	161	520-035	Ferrule, Front
57	550-019	Locknut	162	520-036	Ferrule, Back
58	505-070	Emerg. Valve Assy	163	555-178	Packing Nut
59	510-483	O-Ring	164	505-047	W.P. Connector Assy
60		Body	61		Order complete See # 68
61		Spring	62		For Replacement Parts Order Kit #525-330
62		Poppet	63		
63		O-Ring	64		
64		O-Ring	65		
65		Wiper	66		
66		Seat	67	555-117	Adapter, Brass, 1/4NPTx1, One-Way Valve
67	555-117	Adapter, Brass, 1/4NPTx1, One-Way Valve	68	555-195	One-Way Valve
68	555-195	One-Way Valve	69	505-060	One-Way Valve Assy
69	505-060	One-Way Valve Assy	70a	505-022	"A" Side Block Assy Complete
70a	505-022	"A" Side Block Assy Complete	70b	505-024	"B" Side Block Assy Complete
70b	505-024	"B" Side Block Assy Complete	71	515-005	Earphone Right
71	515-005	Earphone Right	72	515-006	Earphone Left
72	515-006	Earphone Left	73	515-009	Microphone
73	515-009	Microphone	74	515-030	Communications Set
74	515-030	Communications Set	75	550-023	Starboard Weight
75	550-023	Starboard Weight	76	530-070	Screw
76	530-070	Screw	77	530-550	Washer
77	530-550	Washer	78	545-027	Snaps Tab
78	545-027	Snaps Tab	79	530-078	Screw
79	530-078	Screw	80	510-446	O-Ring
80	510-446	O-Ring	81	510-211	O-Ring
81	510-211	O-Ring	82	550-038	Nut, Regulator Mount
82	550-038	Nut, Regulator Mount	83	510-690	Mask, Oral/Nasal
83	510-690	Mask, Oral/Nasal	84	510-550	Valve, Oral/Nasal Intake
84	510-550	Valve, Oral/Nasal Intake	85	520-020	Body, Oral/Nasal Intake Valve
85	520-020	Body, Oral/Nasal Intake Valve	86	545-015	Nose Block device
86	545-015	Nose Block device	87	530-090	Alignment Screw
87	530-090	Alignment Screw	88	550-039	Alignment Sleeve
88	550-039	Alignment Sleeve	89	550-005	Rear Weight
89	550-005	Rear Weight	90	530-070	Screw
90	530-070	Screw	91	530-540	Washer
91	530-540	Washer	92	520-065	Helmet, Fiberglass
92	520-065	Helmet, Fiberglass	93	550-014	Handle
93	550-014	Handle	94	530-040	Screw
94	530-040	Screw	95	550-019	Port Weight
95	550-019	Port Weight	96	530-535	Washer
96	530-535	Washer	97	530-415	Washer
97	530-415	Washer	98	530-317	Nut
98	530-317	Nut	99	545-016	Air Train
99	545-016	Air Train	100	530-535	Washer
100	530-535	Washer	101	530-317	Nut
101	530-317	Nut	102	530-050	Screw
102	530-050	Screw	103	530-052	Screw, Port Plug Screw
103	530-052	Screw, Port Plug Screw	104	530-035	Screw
104	530-035	Screw	105	510-010	O-Ring
105	510-010	O-Ring	106	510-008	O-Ring
106	510-008	O-Ring	107	555-180	Packing Nut
107	555-180	Packing Nut	108	550-062	Knob, Nose Block
108	550-062	Knob, Nose Block	109	550-061	Spacer
109	550-061	Spacer	110	540-015	Plate

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KIRBY MORGAN 17C SCHEMATIC

SuperLite 17 C Helmet

Caution - Warning
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Location Number	Order No.	Description
1	550-019	Locknut
2	535-802	Spring
3	520-016	Knob, Control
4	520-030	Washer
5	540-020	Bonnet
6	510-015	O-Ring
7	520-031	Washer
8	510-010	O-Ring
9	550-022	Valve Stem
10	550-023	Seat Ass'y
11	550-024	Stud
12	550-029	Side Block
13	520-033	Washer
14	555-154	Bent tube Ass'y
15	510-012	O-Ring
16	555-155	Bent Tube Ass'y w/O-Rings

SPECIAL NOTE:
 In July of 1993 the new Kirby Morgan SuperFlow® emergency valve was introduced. Parts for this valve are not interchangeable with the old style emergency valve! For information on the old style valve parts contact your Authorized DSI Dealer.

Location Number	Order No.	Description
107	550-048	Inlet Nipple
108	510-014	O-Ring
109	545-026	Inlet Valve
110	535-804	Spring
111	530-505	Washer
112	510-552	Exhaust Valve
113	505-027	Demand Reg. Ass'y
114	550-062	Knob, Nose Block
115	555-180	Packing Nut
116	560-070	Port Retainer
117	550-116	Nose Block Guide
118	510-008	O-Ring
119	510-010	O-Ring
120	530-035	Screw
121	550-040	Nut
122	530-035	Screw
123	505-110	Sealed Pull Pin

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KIRBY MORGAN 17C PARTS LIST

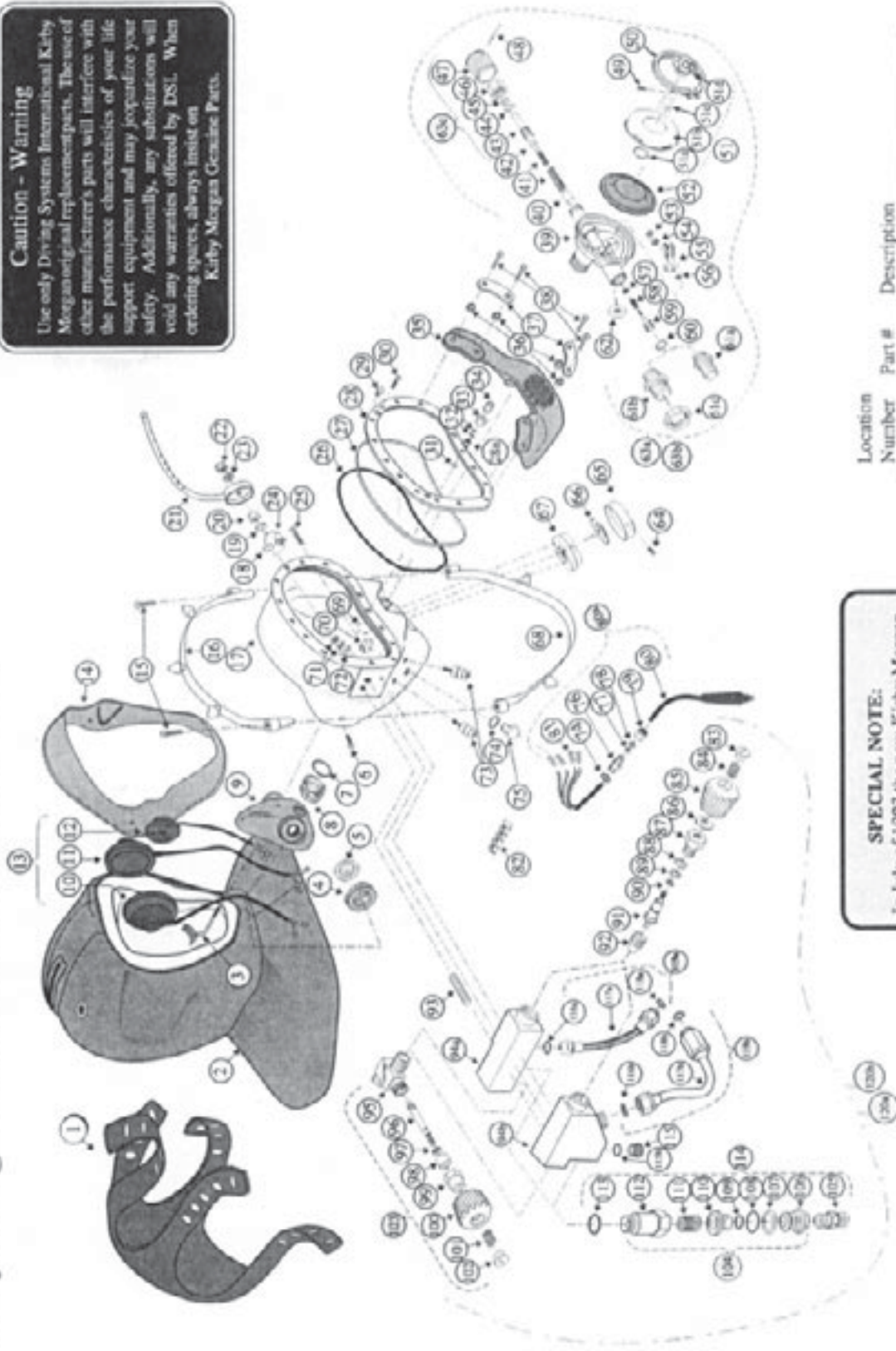
Location Number	Order No.	Description	Location Number	Order No.	Description	Location Number	Order No.	Description
17	550-095	L. P. Plug, w/O-ring	62	530-062	Screw	124	515-061	Terminal Block
18	310-003	O-Ring	63	530-406	Washer	125	530-035	Screw
19	550-140	Emerg. Valve Body	64	540-132	Mount Bracket- Starboard Side	126	530-546	Washer
20	550-138	Stem	65	540-133	Handle	127	550-061	Spacer
21	540-095	Washer	66	540-130	Mount Bracket- Port Side	128	540-086	Swing Tongue Catch
22	520-024	Packing	67	530-045	Screw	129	520-167	Washer
23	550-091	Packing Nut	68	530-040	Screw	130	530-032	Screw
24	520-025	Knob, Control	69	505-106	Helmet, Fiberglass w/Ring	131	535-825	Spring
25	535-802	Spring	70	560-086	Weight, Port Side	132	550-122	Spring Spacer
26	550-019	Locknut	71	530-078	Screw	133	530-045	Screw
27	505-070	Emerg. Valve Ass'y	72	530-540	Washer	134	550-063	Exhaust Body
28	510-483	O-Ring	73	530-535	Washer	135	510-561	Exhaust Valve/Water Dump
29		Body	74	530-415	Washer, Lock	136	545-024	Exhaust Cover
30	Order	For	75	530-317	Nut	137	530-021	Screw
31		Spring Replacement	76	545-016	Air Train	138	515-049	Terminal
32	Complete	Parts Order	77	530-535	Washer	139	515-045	Waterproof Conn., Male
33		Kit #525-330	78	530-317	Nut	140	510-481	O-Ring
34	See #37		79	530-050	Screw	141	555-175	Packing Gland
35		Seal	80	510-250	O-Ring	142	530-035	Female, Front
36	555-117	Adapter, Brass, 1/4(NPT)7/8	81	520-004	Face Port/Viewing Lens (Lexan)	143	520-036	Female, Back
37	555-195	One-Way Valve	82	530-052	Screw	144	555-178	Packing Nut
38	505-060	One-Way Valve Ass'y	83	530-035	Screw	145	505-047	W.P. Connector Ass'y
39	505-024	Side Block Ass'y Complete (B)	84	510-554	Whisker, Rubber	146	510-450	O-Ring
40	510-682	Head Cushion	85	550-061	Spacer	147	540-105	Split Ring, (G Required)
	510-654	Head Cushion Bag	86	540-015	Plate	148	510-631	Neck Dam, Latex (medium)
40a	510-683	Chin Cushion	87	530-045	Screw	149	510-628	Neck Dam, Neoprene (medium)
	510-639	Chin Cushion Bag	88	545-022	Regulator Body	150	560-078	Stepped Ring
	510-671	Replacement Foam Kit	89	550-060	Piston	151	530-808	Pull Strap
41	515-005	Earphone Right	90	535-807	Spring Set	152	540-115	Strap Plate
42	515-006	Earphone Left	91	550-059	Spacer	152	530-220	Screw
43	515-009	Microphone	92	550-057	Shaft	153	530-034	Screw
44	515-030	Communications Set	93	520-032	Washer	154	530-022	Screw
45	540-054	Earphone Retainer	94	510-011	O-Ring	155	540-056	Catch, Front Yoke
46	530-377	Washer	95	550-025	Packing Nut	156	520-012	Front Yoke
47	530-018	Screw	96	550-053	Knob, Adjustment	157	530-312	C Clip
48	530-519	Washer	97	530-601	Retaining Pin	158	530-022	Screw
49	530-018	Screw	97a	505-028	Reg. Adjustment Knob Ass'y	159	550-216	Front Yoke Hinge Block
50	530-702	Seal	98	510-553	Diaphragm	160	530-311	Hing Pin
51	510-211	O-Ring	99	545-018	Cover Ass'y	161	505-101	Neck Ring Ass'y, (latex)
52	590-038	Nut, Regulator Mount	99a	535-905	Retaining Clip	162	530-545	Washer
53	510-690	Oral Nasal Mask	99b	540-055	Cover	163	530-165	Washer
54	545-015	Nose Block Device	99c	535-810	Spring	164	550-275	Hinge Pin
55	510-575	Nose Block Pad	99d	520-017	Purge Button	165	530-200	Belt
55	510-550	Valve, Oral Nasal	100	530-030	Screw	166	560-111	Locking Collar
56	520-020	Valve Body	101	545-020	Clamp	167	550-113	Adjustment Nut
57	530-015	Screw	102	530-303	Nut	168	530-547	Washer
58	530-540	Washer	103	550-052	Spacer	169	520-098	Neck Pad
59	530-078	Screw	104	545-038	Roller Lever	170	550-045	T-Nut
60	530-078	Screw	105	530-506	Washer	171	530-064	Screw
61	560-125	Weight, Top Rear	106	550-050	Jam Nut			

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KIRBY MORGAN 18A/B SCHEMATIC

Kirby Morgan 18 A/B & 28 B Band Mask

Caution - Warning
 Use only Diving Systems International Kirby Morgan original replacement parts. The use of other manufacturer's parts will interfere with the performance characteristics of your life support equipment and may jeopardize your safety. Additionally, any substitutions will void any warranties offered by DSI. When ordering spares, always insist on Kirby Morgan Genuine Parts.



Location Number	Part #	Description
80	515-045	W.P. Connector, Male (4 pin)
80a	505-047	W.P. Connector Ass'y. complt.
81	515-049	Terminal
82	515-061	Terminal Block

SPECIAL NOTE:
 In July of 1993 the new Kirby Morgan SuperFlow® emergency valve was introduced. Parts for this valve are not interchangeable with the old style emergency valve! For information on the old style valve parts contact your Authorized DSI Dealer.

Location Number	Part #	Description
1	510-509	Head Harness (Spider)
2	510-510	Hood & Seal Deluxe

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KIRBY MORGAN 18A/B PARTS

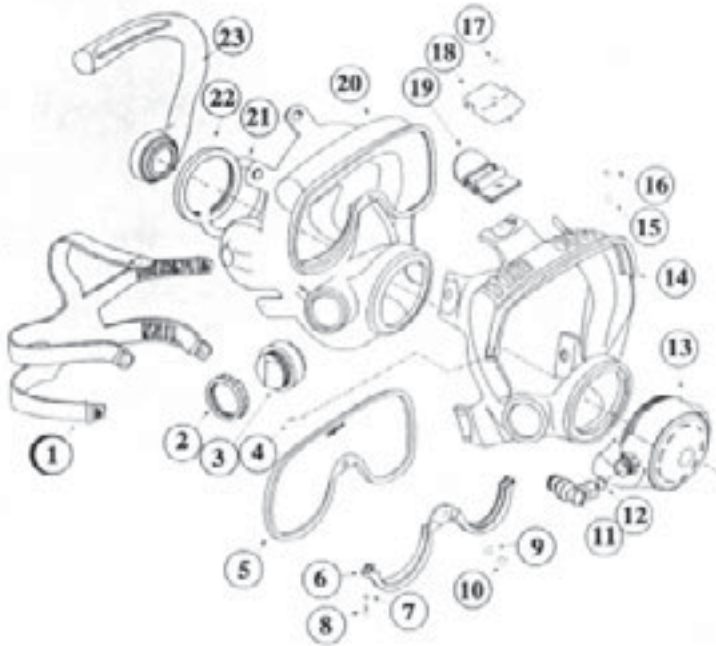
Location Number	Part #	Description	Location Number	Part #	Description	Location Number	Part #	Description
3	545-015	Nose Block Device	44	520-032	Washer	83	550-019	Locknut
4	510-575	Nose Block Pad	45	510-011	O-Ring	84	535-802	Spring
5	520-020	Valve Body	46	550-055	Packing Nut	85	520-016	Knob, control
6	510-550	Valve, Oral Nasal	47	550-053	Knob, Adjustment	86	520-030	Washer
7	530-060	Screw (18 only)	48	530-601	Retaining Pin	87	550-020	Bonnet
8	510-211	O-Ring	49	530-030	Screw	88	510-015	O-Ring
9	550-038	Regulator Mount Nut	50	545-020	Clamp	89	520-031	Washer
10	510-690	Oral Nasal Mask	51	545-018	Cover Ass'y	90	510-010	O-Ring
11	515-005	Earphone, Right	51a	535-905	Retaining Clip	91	550-022	Valve Stem
12	515-006	Earphone, Left	51b	540-055	Cover	92	550-023	Seat Assembly
13	515-009	Shure® Microphone	51c	535-810	Spring	93	550-024	Stud - Side Block
14	515-030	Communications Set	51d	520-017	Purge Button	94a	550-026	Side Block - "A"
15	520-050	Comfort Insert (18 only)	52	510-553	Diaphragm	94b	550-029	Side Block - "B"
16	530-095	Screw	53	530-303	Nut	95	550-140	Emerg. Valve Body
17	545-007	Top Band	54	550-052	Spacer	96	550-138	Stem
18	520-055	Mask, Fiberglass (18 only)	55	545-038	Roller Lever	97	540-095	Washer
19	520-096	Mask, Xenoy Frame (28 only)	56	530-506	Washer	98	520-024	Packing Nut
20	530-535	Washer	57	530-505	Washer	99	550-091	Packing Nut
21	530-415	Washer	58	535-804	Spring	100	520-025	Knob, Control
22	530-317	Nut	59	545-026	Inlet Valve	101	535-802	Spring
23	545-065	Air Train	60	510-014	O-Ring	102	550-019	Locknut
24	530-050	Screw	61a	550-046	Inlet Nipple, "A"	103	505-070	Emerg. Valve Ass'y
25	510-260	O-Ring	61b	550-048	Inlet Nipple, "B"	104	555-195	One-Way Valve
26	520-004	Face Port (Lexan) (18 only)	61c	550-050	Jam Nut, "B"	105	555-117	Adapter, Brass, 1/4NPT0 ₂
27	520-128	Face Port (Lexan) (28 only)	62	510-552	Exhaust Valve	106		Seat
28	560-070	Port Retainer	63a	505-026	Demand Regulator Ass'y "A"	107	Order	Wiper
28n	550-116	Nose Block Guide	63b	505-027	Demand Regulator Ass'y "B"	108	Complete	O-Ring
29	530-052	Screw, Port Plug	63c	505-028	Reg Adjustment Assembly	109	See	O-Ring
30	530-035	Screw	64	530-021	Screw	110	#104	Poppet
31	510-010	O-Ring	65	545-024	Exhaust Cover (18)	111		Spring
32	510-008	O-Ring	65	545-041	Exhaust Cover(28)	112		Body
33	555-180	Packing Nut	66	510-561	Main Exhaust Valve	113	510-483	O-Ring
34	550-062	Knob, Nose Block	67	550-063	Exhaust Body (18 only)	114	505-060	One-Way Valve Assembly
35	510-554	Whisker, Rubber	68	545-009	Bottom Band	115	550-095	L.P. Plug, w/O-ring
36	550-061	Spacer	69	530-035	Screw (18 only)	115b	310-003	O-Ring
37	540-015	Plate	70	550-040	Nut	116a	510-011	O-Ring
38	530-045	Screw	71	530-308	Hex Nut	116b	520-033	O-Ring, Teflon
39	545-022	Regulator Body	72	530-525	Washer	117a	555-152	Regulator Hose
40	550-060	Piston	73	515-035	Communications-Post	117b	555-154	Bent tube Assembly
41	535-807	Spring Set	74	510-481	O-Ring	118a	510-010	O-Ring
42	550-059	Spacer	75	550-043	Plug	118b	510-012	O-Ring
43	550-057	Shaft	76	555-175	Packing Gland	119a	555-152	Regulator Hose w/O-Rings
			77	520-035	Ferrule, Front	119b	555-155	Bent Tube Assembly w/O-Rings
			78	520-036	Ferrule, Back	120a	505-022	"A" Side Block Ass'y Compl.
			79	555-178	Packing Nut	120b	505-024	"B" Side Block Ass'y Compl.

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KIRBY MORGAN EXO SCHEMATIC

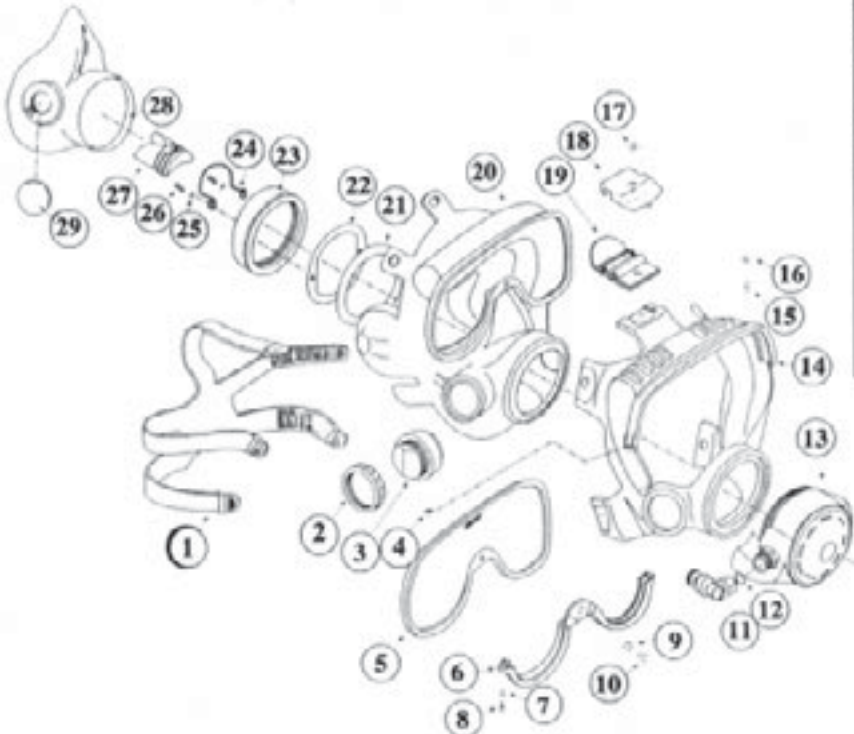
Kirby Morgan EXO Original Full Face Mask

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1	310-025	Spider
2	320-026	Comm Mount Nut
3	320-025	Comm Plug,
	305-020	Comm Plug, w/ screws & Washers
4	330-105	Nut
5	365-002	Lens
6	320-017	Clamp, black
7	330-205	Washer
8	330-005	Screw
9	330-506	Washer
10	330-010	Screw
11	305-036	Inlet Angle Ass'y (includes #12)
12	510-010	O-Ring
13	305-010	Regulator Ass'y (includes #11)
14	320-015	Frame Exoskeleton, black
15	330-020	Screw
16	330-210	Washer
17	350-040	Nut
18	320-019	Buckle Cap, black
19	345-010	Buckle
20	310-001	Mask Seal
21	320-040	Reg. Mount Washer
22	350-005	Mount Nut
23	310-015	Inlet Tube

Kirby Morgan EXO Standard Full Face Mask

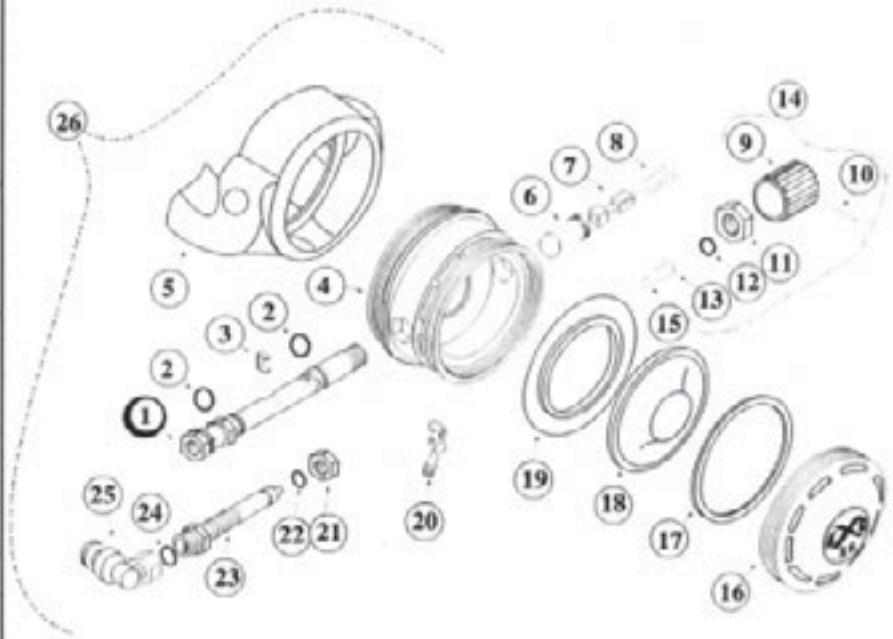


1	310-025	Spider
2	320-026	Comm Mount Nut
3	320-025	Comm Plug,
	305-020	Comm Plug, w/ screws & Washers
4	330-105	Nut
5	365-002	Lens
6	320-017	Clamp, black
7	330-205	Washer
8	330-005	Screw
9	330-506	Washer
10	330-010	Screw
11	305-036	Inlet Angle Ass'y (includes #12)
12	510-010	O-Ring
13	305-055	Regulator Ass'y (includes #11)
14	320-015	Frame Exoskeleton
15	330-020	Screw
16	330-210	Washer
17	350-040	Nut
18	320-019	Buckle Cap,
19	345-010	Buckle
20	310-001	Mask Seal
21	320-040	Reg. Mount Washer
22	340-015	Mount Ring
23	350-047	Mount Nut
24	330-900	Wire Retainer
25	330-515	Washer
26	330-040	Screw
27	310-357	Equalizer
28	310-055	Oral Nasal
29	320-001	Plug

EXO REGULATOR SCHEMATIC

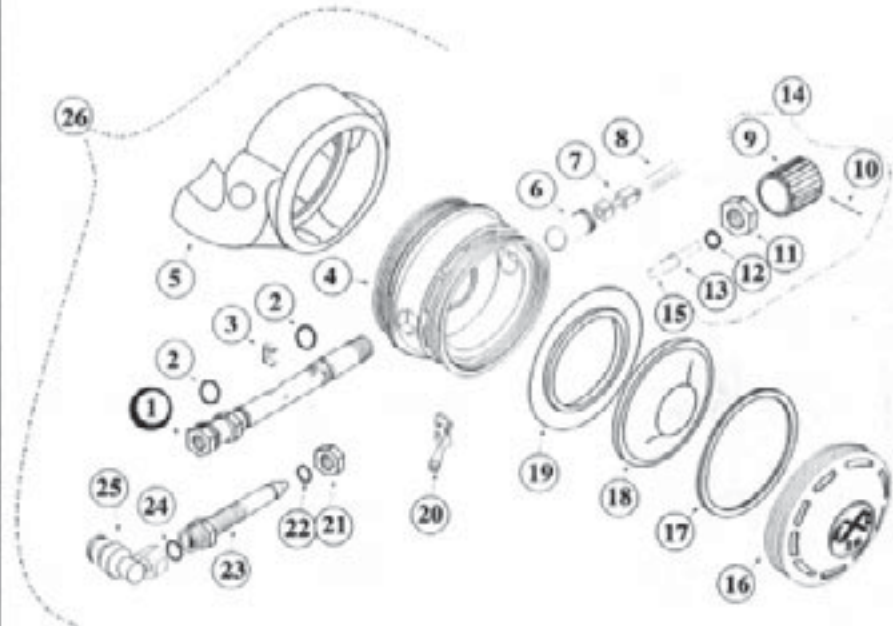
Kirby Morgan EXO Original Regulator

1	350-010	Main Tube
2	310-013	O-Ring
3	340-004	Horseshoe
4	320-005	Regulator Body
5	310-020	Exhaust Whisker
6	350-035	Sleeve
7	305-030	Inlet Valve
8	335-005	Spring
9	320-035	Knob, Adjustment
10	530-601	Roll Pin
11	350-025	Packing Nut
12	510-011	O-Ring
13	350-045	Shaft, Adjustment
14	305-015	Reg Adjustment Assembly
15	350-065	Spacer
16	305-005	Cover Assembly
17	320-030	Washer
18	510-553	Diaphragm
19	310-065	Exhaust Valve
20	545-038	Roller Lever Assembly
21	350-020	Nut, Adjustment Lock
22	510-010	O-Ring
23	350-015	Nipple Tube
24	510-010	O-Ring
25	305-036	Inlet Angle Ass'y (w/ 24)
26	305-010	Regulator Assembly



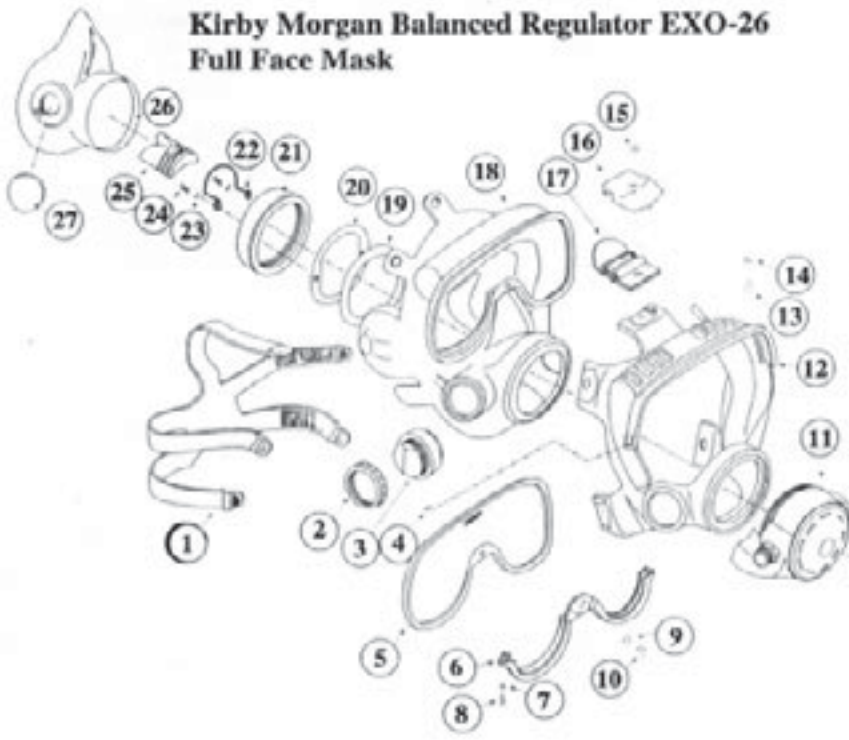
Kirby Morgan EXO Standard Regulator

1	350-010	Main Tube
2	310-013	O-Ring
3	340-004	Horseshoe
4	320-084	Regulator Body
5	310-020	Exhaust Whisker
6	350-035	Sleeve
7	305-030	Inlet Valve
8	335-005	Spring
9	320-035	Knob, Adjustment
10	530-601	Roll Pin
11	350-025	Packing Nut
12	510-011	O-Ring
13	350-045	Shaft, Adjustment
14	350-015	Reg Adjustment Assembly
15	350-065	Spacer
16	305-005	Cover Assembly
17	320-030	Washer
18	510-553	Diaphragm
19	310-065	Exhaust Valve
20	545-038	Roller Lever Assembly
21	350-020	Nut, Adjustment Lock
22	510-010	O-Ring
23	350-015	Nipple Tube
24	510-010	O-Ring
25	305-036	Inlet Angle Ass'y (w/ 24)
26	305-055	Regulator Assembly



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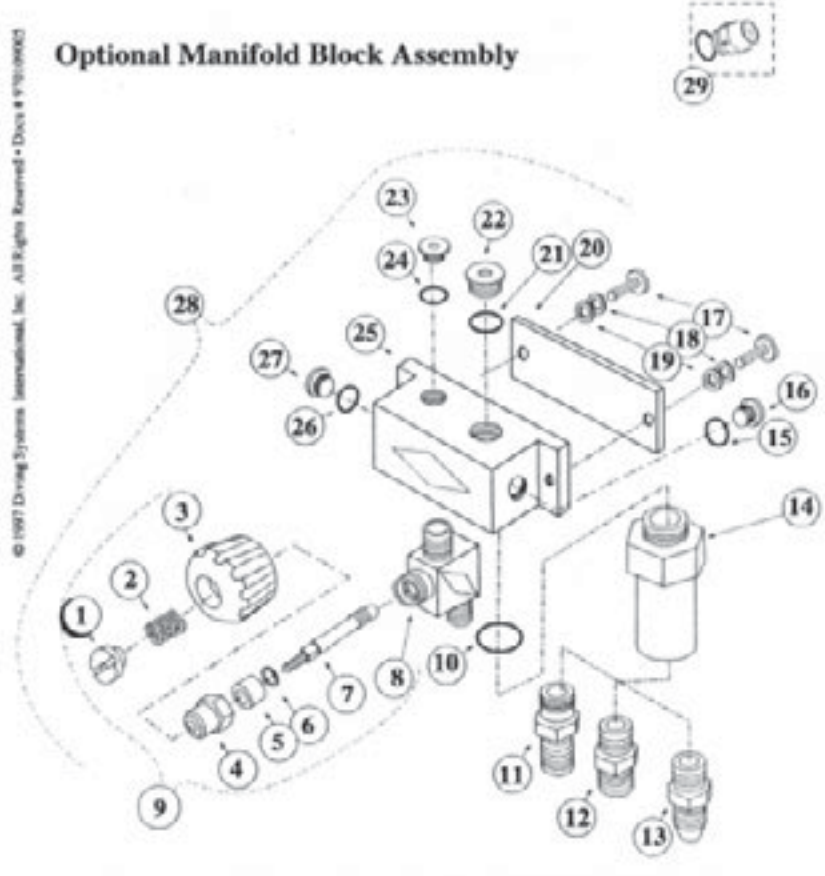
EXO 26 & SIDEBLOCK SCHEMATIC



Kirby Morgan Balanced Regulator EXO-26 Full Face Mask

1	310-025	Spider
2	320-026	Comm Mount Nut
3	320-025	Comm Plug.
	305-020	Comm Plug, w/ screws & Washers
4	330-105	Nut
5	365-002	Lens
6	320-028	Clamp, yellow
7	330-205	Washer
8	330-005	Screw
9	330-506	Washer
10	330-010	Screw
11	305-010	Regulator Ass'y
12	320-016	Frame Exoskeleton, yellow
13	330-020	Screw
14	330-210	Washer
15	350-040	Nut
16	320-021	Buckle Cap, yellow
17	345-010	Buckle
18	310-001	Mask Seal
19	320-040	Reg. Mount Washer
20	340-015	Mount Ring
21	350-047	Mount Nut
22	330-900	Wire Retainer
23	330-515	Washer
24	330-040	Screw
25	310-357	Equalizer
26	310-055	Oral Nasal
27	320-001	Plug

Optional Manifold Block Assembly



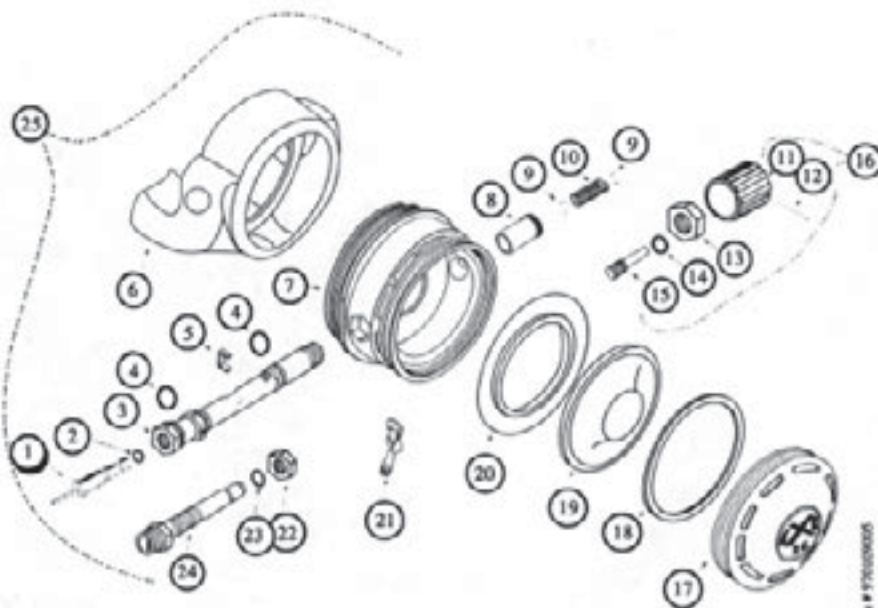
1	550-019	Locknut
2	535-802	Spring
3	520-025	Knob
4	550-091	Packing Nut
5	520-024	Packing
6	540-095	Washer
7	550-138	Stem
8	550-140	Valve Body
9	505-070	Emergency Valve Ass'y
10	510-483	O-Ring
11	355-205	Scuba Adapter
12	555-117	Adapter, Brass O ²
13	355-225	Adapter, Brass #6 JIC
14	555-195	One Way Valve High Flow
15	310-003	O-Ring
16	550-095	Plug, small w/O-ring
17	530-070	Screw
18	330-405	Lock washer
19	530-527	Washer
20	340-011	Backing Plate
21	510-013	O-Ring
22	350-060	Plug, Large w/O-ring
23	550-095	Plug, Small w/O-ring
24	310-003	O-Ring
25	350-050	Manifold Block
26	310-003	O-Ring
27	550-095	Plug, Small w/O-ring
28	300-150	Manifold Ass'y complete (O ²)
	300-155	Manifold Ass'y complete (#6 JIC)
	300-145	Manifold Ass'y complete (scuba)
29	200-017	Over Pressure Relief Valve

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EXO 26 REG. & COMMS SCHEMATIC

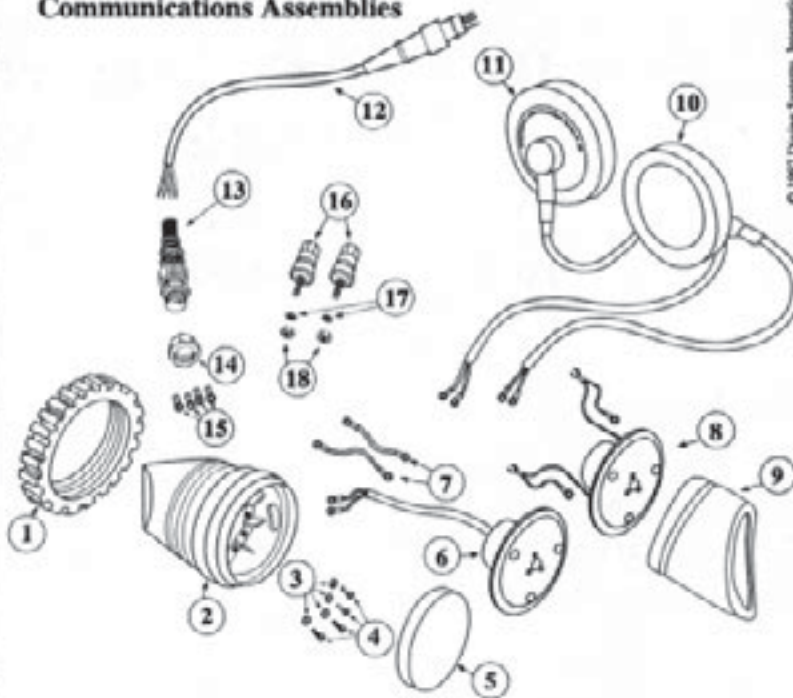
1	305-057	Inlet Valve
2	310-006	O-Ring
3	350-032	Main Tube
4	310-013	O-Ring
5	340-004	Horseshoe
6	310-020	Exhaust Whisker
7	320-041	Regulator Body
8	350-035	Sleeve
9	350-065	Spacer
10	535-910	Spring
11	320-035	Knob, Adjustment
12	530-601	Roll Pin
13	350-025	Packing Nut
14	510-011	O-Ring
15	350-053	Shaft, Adjustment
16	305-045	Reg Adjustment Ass'y
17	305-005	Cover Assembly
18	320-030	Washer
19	510-553	Diaphragm
20	310-065	Exhaust Valve
21	545-038	Roller Lever
22	350-020	Nut, Adjustment Lock
23	310-007	O-Ring
24	350-042	Nipple Tube
25	305-040	Regulator Assembly

Kirby Morgan EXO-26 Balanced Regulator



1	320-026	Comm Mount Nut
2	305-020	Comm Module w/5 & 6
	320-023	Comm Module, drilled for posts
	320-024	Comm Module, drilled for W.P.C.
	315-210	Comm Module complete ass'y. w/comms & posts, (Std & BR)
	315-215	Comm Module complete ass'y. w/comms & Male W.P.Connector (Std & BR)
	315-201	Comm Module complete ass'y. w/comms & posts, (Original)
	315-206	Comm Module complete ass'y. w/comms & Male W.P.Connector (Original)
3	330-035	Washer
4	330-030	Screw
5	510-630	Rubber Cover (Std & BR)
6	515-020	Shure Mic. Assembly (Std & BR)
7	515-055	Wiring Harness
8	315-017	Shure Mic. Assembly (Original)
9	310-060	Microphone cup (Original)
10	315-016	Earphone Assembly, Left
11	315-015	Earphone Assembly, Right
12	515-045	Male W.P. Connector
13	315-005	Pigtail
14	350-070	Mount Nut, Pigtail
15	515-049	Terminal
16	315-020	Comm Posts, EXO
17	530-525	Washer
18	530-308	Hex Nut

Optional Communications Assemblies



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KIRBY MORGAN PARTS KITS

DSI PART # 325-090**Oral Nasal Kit, EXO-26**

PART #	DESCRIPTION	QTY.
310-055	Oral Nasal Mask	1
320-001	Plug	1
310-357	Equalizer	1
330-040	Screw, Socket Head	2
330-515	Washer	2
330-900	Wire Retainer	1
340-015	Mount Ring	1
350-047	Mount Nut	1
325-640	Reg Mount Nut Tool	1
325-645	Mount Ring Adj Tool	1

DSI PART # 325-105**SuperFlow FIRST STAGE****REGULATOR REBUILD KIT**

PART #	DESCRIPTION	QTY.
310-003	O-Ring	4
310-022	O-Ring	1
310-023	O-Ring	1
310-115	O-Ring	1
330-320	Hex Lock Nut	1
350-120	Seat	1
355-035	Filter	1
410-010	O-Ring	1
510-008	O-Ring	1
510-010	O-Ring	1
510-011	O-Ring	1
510-012	O-Ring	3
510-013	O-Ring	2

DSI PART # 325-305**EXO REGULATOR****REBUILD KIT (Orig. & Std.)**

PART #	DESCRIPTION	QTY.
310-013	O-Ring	2
305-030	Inlet Valve	1
335-005	Spring	1
510-011	O-Ring	1
510-553	Diaphragm	1
310-065	Exhaust Valve	1
510-010	O-Ring	2

DSI PART # 325-307**EXO MASK SPARES KIT (Orig. & Std.)**

PART #	DESCRIPTION	QTY.
310-025	Spider	1
320-019	Buckle Cap, Black	1
330-105	Nut	2
330-205	Washer	2
330-005	Screw	2
330-506	Washer	1
330-010	Screw	1
330-210	Washer	2
330-020	Screw	2
345-010	Buckle	1
350-040	Nut	2
325-305	Reg. Rebuild Kit	

DSI PART # 325-321**SuperFlow FIRST STAGE****REGULATOR MAINTENANCE KIT**

PART #	DESCRIPTION	QTY.
310-022	O-Ring	1
350-120	Seat	1
510-012	O-Ring	1

DSI PART # 325-323**REGULATOR REBUILD KIT FOR PLASTIC SCUBA REGULATOR ADJUSTABLE/NONADJUSTABLE**

PART#	DESCRIPTION	QTY
510-011	O-Ring	1
510-016	O-Ring	1
510-481	O-Ring	1
510-552	Exhaust Valve	1
510-553	Diaphragm	1
530-303	Nylon Locknut	1
545-026	Inlet Valve	1

DSI PART # 325-325**REGULATOR REBUILD KIT FOR METAL SCUBA REGULATOR**

PART#	DESCRIPTION	QTY
510-011	O-Ring	1
510-014	O-Ring	1
510-552	Exhaust Valve	1
510-553	Diaphragm	1
530-303	Nylon Locknut	1
545-026	Inlet Valve	1

DSI PART # 325-630**EXO TOOL KIT W/ POUCH**

PART #	DESCRIPTION	QTY.
325-620	Spanner Wrench	1
325-625	Adj. Wrench	1
525-613	Tool Kit Pouch	1

DSI PART # 325-635**ORIGINAL EXO-26****NOSE BLOCK DEVICE KIT**

PART #	DESCRIPTION	QTY.
305-025	Nose Block w/Pad & Velcro	1
330-806	Velcro Loop, cut	1
345-055	Sandpaper	1

DSI PART # 325-650**DELUXE TOOL KIT FOR EXO-26**

PART #	DESCRIPTION	QTY.
325-620	Spanner Wrench	1
325-625	Back Up Wrench	1
325-640	Reg. Mount Nut Tool	1
325-645	MountRingAdj.Tool	1
525-613	Tool Pouch	1

DSI PART # 425-120**DCS 2A REGULATOR KIT**

PART #	DESCRIPTION	QTY.
410-008	O-ring	1
410-119	O-ring	1
410-121	Thread seal	1
430-022	Hexnut, nylock	1
450-038	Seat Assembly	1
455-135	Conical seals	2
510-008	O-ring	1
510-014	O-rings	2

DSI PART # 515-030**COMMUNICATION SET****SUPERLITE 17 A/B HELMET, KMB 18 & KMB 28 BAND MASK**

PART #	DESCRIPTION	QTY.
515-005	Earphone, Right	1
515-006	Earphone Left	1
515-009	Microphone	1

DSI PART # 525-019**O-RING KIT FOR SL 17K & 27B**

PART #	DESCRIPTION	QTY
310-003	O-Ring	1
510-008	O-Ring	2
510-010	O-Ring	2
510-011	O-Ring	1
510-012	O-Ring	1
510-014	O-Ring	1
510-015	O-Ring	1
510-029	O-Ring	1
510-260	O-Ring	1
510-450	O-Ring	1
510-483	O-Ring	1
510-490	O-Ring	1
520-033	O-Ring, Teflon	1

DSI PART # 525-023**O-RING KIT FOR****SUPERLITE 17B/NS Mod. 1**

PART#	DESCRIPTION	QTY
510-008	O-Ring	2
510-010	O-Ring	3
510-011	O-Ring	1
510-012	O-Ring	1
510-014	O-Ring	1
510-015	O-Ring	1
510-260	O-Ring	1
510-446	O-Ring	1
510-481	O-Ring	1
510-483	O-Ring	1
510-490	O-Ring	1
520-033	O-Ring, Teflon	1

KIRBY MORGAN PARTS KITS

DSI PART # 525-100

HOT WATER SHROUD KIT FOR SUPERLITE HELMETS & KMB BAND MASKS

PART#	DESCRIPTION	QTY
510-597	Side Valve Cover	1
510-598	Corrugated Tube	1
510-599	Regulator Cover	1
520-042	Tie Wrap, Large	2
520-046	1" Flange	2

DSI PART # 525-102

DOUBLE EXHAUST KIT FOR ALL SUPERLITE 17 HELMETS & KMB 18 MASKS

PART#	DESCRIPTION	QTY
510-550	Exhaust Valve	1
510-558	Double Exhaust Whisker 1	1
510-561	Exhaust Valve	1
520-020	Valve Body	1
520-042	Tie Wrap, Large	2
530-032	Screw	3
550-087	Dbl. Exhaust Main Body 1	1

DSI PART # 525-106

SWING CATCH RETRO FIT KIT FOR SUPERLITE SL 27 HELMETS

PART#	DESCRIPTION	QTY
520-167	Washer	1
530-018	Screw	2
530-035	Screw	1
530-045	Screw	1
530-546	Washer	1
535-827	Spring	1
545-077	Swing Catch, retro 1	1
540-089	Tongue Spacer	1
550-061	Spacer	1
550-122	Spring Spacer	1

DSI PART # 525-130

FRONT WEIGHT KIT FOR ALL SL 17 & MK 21 HELMETS

PART #	DESCRIPTION	QTY.
560-010	Buffed Weight	1
530-047	Screw, SL 17	2
530-048	Screw, MK-12	2
530-520	Washer, #8 Thin	2
530-310	Nut	2
560-011	Chrome Weight <i>special order</i> 1	1

DSI PART # 525-301

O-RING KIT FOR SL 17 A/B

PART#	DESCRIPTION	QTY
310-003	O-Ring	1
510-008	O-Ring	2
510-010	O-Ring	3
510-011	O-Ring	2
510-012	O-Ring "B"	1
510-014	O-Ring	1
510-015	O-Ring	1
510-211	O-Ring	1
510-260	O-Ring	1
510-446	O-Ring	1
510-481	O-Ring	1
510-483	O-Ring	1
520-033	O-Ring "B" teflon	1

DSI PART # 525-303

O-RING KIT FOR KMB 18/28 BAND MASKS

PART#	DESCRIPTION	QTY
310-003	O-Ring	1
510-008	O-Ring	2
510-010	O-Ring	3
510-011	O-Ring	2
510-012	O-Ring "B"	1
510-014	O-Ring	1
510-015	O-Ring	1
510-211	O-Ring	1
510-260	O-Ring	1
510-481	O-Ring	1
510-483	O-Ring	1
520-033	O-Ring "B" teflon	1

DSI PART # 525-309

REGULATOR REBUILD KIT SUPERLITE HELMETS & KMB BAND MASKS

PART#	DESCRIPTION	QTY
510-011	O-Ring	1
510-014	O-Ring	1
510-552	Exhaust Valve	1
510-553	Diaphragm	1
520-032	Washer	1
530-303	Nut	1
520-505	Washer	1
530-506	Washer	1
530-601	Retaining Pin	1
535-804	Spring	1
535-807	SpringSet	1
545-026	Inlet Valve	1

DSI PART # 525-311

SIDE BLOCK REBUILD KIT

PART#	DESCRIPTION	QTY
310-003	O-Ring "B"	1
510-010	O-Ring	2
510-011	O-Ring "A"	1
510-012	O-Ring "B"	1
510-015	O-Ring	1
520-016	Knob, Control	1
520-024	Packing	1
520-029	Packing	1
520-030	Washer	1
520-031	Washer	1
520-033	O-Ring "B" teflon	1
525-330	One Way vlv kit	1
540-095	Washer	1
550-034	Washer	1
550-023	Seat Assembly	1

DSI PART # 525-317

HELMET SPARES KIT FOR SUPERLITE 17 A/B HELMETS

PART#	DESCRIPTION	QTY
510-008	O-Ring	2
510-010	O-Ring	1
510-211	O-Ring	1
510-260	O-Ring	1
510-446	O-Ring	1
510-481	O-Ring	1
510-521	Head Cushion	1
510-533	Neck Dam	1
510-550	Oral Nasal Valve	1
510-554	Whisker, Rubber	1
510-561	Exhaust Valve	1
510-575	Nose Block Pad	1
510-690	Oral Nasal Mask	1
515-030	CommunicationsSet	1
525-309	Regulator Rebuild Kit	1
525-311	Side Block Rebuild Kit	1
530-025	Screw	1
530-035	Screw	2
530-045	Whisker Screw	1
530-317	Nut	1
530-320	Lock Nut	1
530-406	Washer	1
530-415	Washer	1
535-900	SafetyPin (Pull Pin)	1
540-080	Plunger Pin (Push Pin)	1
550-061	Whisker Spacer	1

Caution - Warning

Use only Genuine Diving Systems International Kirby Morgan original replacement parts. The use of other manufacturer's parts will interfere with the performance characteristics of your equipment and may jeopardize your safety. Additionally, any substitutions will void any warranties offered by DSI. When ordering spares, always insist on

Genuine Kirby Morgan Parts.

KIRBY MORGAN PARTS KITS

DSI PART # 525-319

**SPARES KIT FOR
KMB 18/28 BAND MASKS**

PART #	DESCRIPTION	QTY.
510-008	O-Ring	2
510-010	O-Ring	1
510-211	O-Ring	1
510-260	O-Ring	1
510-481	O-Ring	1
510-509	Head Harness	1
510-510	Hood & Face Seal	1
510-550	Oral Nasal Valve	1
510-554	Whisker, Rubber	1
510-561	Exhaust Valve	1
510-575	Nose Block Pad	1
510-690	Oral Nasal Mask	1
515-030	Communications Set	1
525-309	Regulator Rebuild Kit	1
525-311	Side Block Rebuild Kit	1
530-035	Screw	2
530-045	Screw	1
550-061	Spacer	1

DSI PART # 525-325

OVERSEAS SPARES KIT SL 17A/B

PART #	DESCRIPTION	QTY.
510-008	O-Ring	2
510-010	O-Ring	1
510-211	O-Ring	1
510-260	O-Ring	1
510-446	O-Ring	1
510-481	O-Ring	1
510-521	Head Cushion	1
510-533	Neck Dam	2
510-550	Oral Nasal Valve	2
510-554	Whisker, Rubber	1
510-561	Exhaust Valve	2
510-575	Nose Block Pad	2
510-690	Oral Nasal Mask	2
515-030	Comm Set	2
525-309	Regulator Rebuild Kit	1
525-311	Side Block Rebuild Kit	1
530-025	Screw	1
530-035	Screw	6
530-045	Whisker Screw	2
530-080	Screw	1
530-317	Nut	2
530-320	Lock Nut	1
530-406	Washer	1
530-415	Washer	1
535-900	Safety Pin (pull pin)	1
540-080	Plunger Pin (pushpin)	1
550-061	Whisker Spacer	2

DSI PART # 525-327

**OVERSEAS SPARES KIT FOR
KMB 18/28 BAND MASKS**

PART #	DESCRIPTION	QTY.
510-008	O-Ring	2
510-010	O-Ring	1
510-211	O-Ring	1
510-260	O-Ring	1
510-481	O-Ring	1
510-509	Head Harness	1
510-510	Hood & Face Seal	1
510-550	Oral Nasal Valve	2
510-554	Whisker, Rubber	1
510-561	Exhaust Valve	2
510-575	Nose Block Pad	2
510-690	Oral Nasal Mask	2
515-030	Comm Set	2
525-309	Regulator Rebuild Kit	1
525-311	Side Block Rebuild Kit	1
530-035	Screw	6
530-045	Screw	2
530-095	Screw	2
550-061	Spacer	1
545-007	Top Band	1
545-009	Bottom Band	1

DSI PART # 525-333

**SPARES KIT FOR
SUPERLITE 27 HELMET**

PART#	DESCRIPTION	QTY
330-030	Screw	1
330-035	Washer	1
510-008	O-Ring	2
510-010	O-Ring	1
510-029	O-Ring	1
510-260	O-Ring	1
510-450	O-Ring	1
510-490	O-Ring	1
510-504	Neck Dam, neo.	1
510-550	Oral Nasal Valve	1
510-556	Whisker, Rubber	1
510-557	Valve, Water Dump	1
510-575	Nose Block Pad	1
510-625	WaterDumpWhisker	1
510-682	Head Cushion	1
510-683	Chin Cushion	1
510-690	Oral Nasal Mask	1
515-070	Communications Set	1
520-042	Tie Wrap	1
525-309	Regulator Rebuild Kit	1
525-311	Side Block Rebuild Kit	1
530-035	Screw	2
530-045	Screw	1
550-061	Whisker Spacer	2

DSI PART # 525-330

ONE WAY VALVE KIT

PART #	DESCRIPTION	QTY.
510-483	O-Ring	1
510-491	O-Ring	1
510-492	O-Ring	1
520-028	Wiper	1
535-920	Spring	1

DSI PART # 525-341

**OVERSEAS SPARES KIT FOR
SUPERLITE 27 HELMET**

PART#	DESCRIPTION	QTY
330-030	Screw	2
330-035	Washer	2
510-008	O-Ring	2
510-010	O-Ring	1
510-029	O-Ring	1
510-260	O-Ring	1
510-450	O-Ring	1
510-490	O-Ring	1
510-504	Neck Dam, neo.	2
510-550	Oral Nasal Valve	2
510-556	Whisker, Rubber	1
510-557	Valve, Water Dump	1
510-575	Nose Block Pad	1
510-625	WaterDumpWhisker	1
510-682	Head Cushion	1
510-683	Chin Cushion	1
510-690	Oral Nasal Mask	2
515-070	Communications Set	2
520-042	Tie Wrap	3
525-309	Regulator Rebuild Kit	1
525-311	Side Block Rebuild Kit	1
530-015	Screw	2
530-018	Screw	5
530-022	Screw	2
530-024	Screw	6
530-035	Screw	6
530-045	Screw	2
530-220	Screw	1
530-519	Washer	4
530-702	Male Snap	4
550-061	Whisker Spacer	2

The inlet valve on your helmet or mask should be replaced every six months or 200 operating hours, whichever comes first. Your entire regulator should be rebuilt every year or 400 operating hours, whichever comes first.

KIRBY MORGAN PARTS KITS

DSI PART # 525-345

SPARES KIT FOR SUPERLITE MK21 HELMET

PART#	DESCRIPTION	QTY
510-521	Head Cushion	1
510-533	Neck Dam	2
510-548	Oral Nasal Mask	2
510-550	Oral Nasal Valve	4
510-555	Whisker, Rubber	1
510-563	Valve, Water Dump	2
515-032	Comms Set	2
525-023	O-Ring Kit	1
525-309	Regulator Repair Kit	1
525-311	Side Block Repair Kit	1
530-021	Screw	2
530-035	Screw, Port Retainer	6
535-900	Safety Pin	1
540-080	Plunger Pin	1

DSI PART # 525-347

SPARES KIT FOR SUPERLITE 17K HELMET

PART#	DESCRIPTION	QTY
330-030	Screw	1
330-035	Washer	1
510-008	O-Ring	2
510-010	O-Ring	1
510-029	O-Ring	1
510-260	O-Ring	1
510-450	O-Ring	1
510-490	O-Ring	1
510-628	Neck Dam, neo.	1
510-550	Oral Nasal Valve	1
510-556	Whisker, Rubber	1
510-561	Valve, Water Dump	1
510-575	Nose Block Pad	1
510-682	Head Cushion	1
510-683	Chin Cushion	1
510-690	Oral Nasal Mask	1
515-070	Communications Set	1
525-309	Regulator Rebuild Kit	1
525-311	Side Block Rebuild Kit	1
530-035	Screw	2
530-045	Screw	1
550-061	Whisker Spacer	2

DSI PART # 525-349

OVERSEAS SPARES KIT FOR SUPERLITE 17K HELMET

PART#	DESCRIPTION	QTY
330-030	Screw	2
330-035	Washer	2
510-008	O-Ring	2
510-010	O-Ring	1
510-029	O-Ring	1
510-260	O-Ring	1
510-450	O-Ring	1
510-490	O-Ring	1
510-550	Oral Nasal Valve	2
510-556	Whisker, Rubber	1
510-561	Valve, Water Dump	1
510-575	Nose Block Pad	1
510-625	Water Dump Whisker	1
510-628	Neck Dam, neo.	2
510-682	Head Cushion	1
510-683	Chin Cushion	1
510-690	Oral Nasal Mask	2
515-070	Communications Set	2
525-309	Regulator Rebuild Kit	1
525-311	Side Block Rebuild Kit	1
530-015	Screw	2
530-018	Screw	5
530-022	Screw	2
530-024	Screw	6
530-035	Screw	6
530-045	Screw	2
530-220	Screw	1
530-519	Washer	4
530-702	Male Snap	4
550-061	Whisker Spacer	2

DSI PART # 525-403

WELD LENS KIT FOR SUPERLITE HELMETS & KMB BAND MASKS

PART#	DESCRIPTION	QTY
510-577	Bumper	2
520-030	Washer	2
530-210	Mount Screw	2
530-320	Lock Nut	2
530-408	Star Washer	2
530-527	Spacer	2
530-535	Washer	2
535-901	Snap Ring	1
540-030	Mount Ear	2
550-025	Stud	2
560-046	Weld Lens Frame	1

DSI PART # 525-620

TOOL KIT W/POUCH FOR ALL SUPERFLOW & SUPERFLOW 350 REGULATORS

PART#	DESCRIPTION	QTY
525-611	Regulator Adjst. Wrench	1
525-612	Socket Wrench	1
525-613	Tool Pouch	1
525-616	Inlet Valve Tool	1
525-618	Castle Wrench	1

DSI PART # 525-717

ACCESSORY MOUNTING BRACKETS FOR SUPERLITE 17K

PART#	DESCRIPTION	QTY
530-040	Screw	2
540-130	Bracket	1
540-132	Bracket	1

O-rings should be lubricated with Dow Corning #111 O-ring silicone grease for maximum life. The demands of your working environment will dictate the need to replace O-rings, as well as the frequency of your diving. At a minimum, all O-rings should be replaced once a year, or every 400 operating hours, whichever comes first. Exposure to extreme heat or ozone will cause O-rings to age prematurely. Helmets and masks which are used in a heavy oil environment, in jetting operations, or caustic chemicals will require more frequent O-ring replacement.

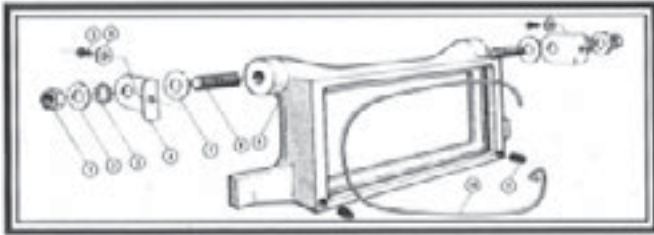
Aqua Tech keeps an extensive supply of original DSI parts and helmets in stock to allow for immediate delivery.

Aqua Tech DIVE CENTER



Historical Diving Museum

DSI ACCESSORIES



WELDING LENS ASSEMBLY 525-403

The welding lens assembly will fit all masks or helmets designed by Kirby and Morgan. It is necessary to drill and tap the port retainers on all pre-1978 models.



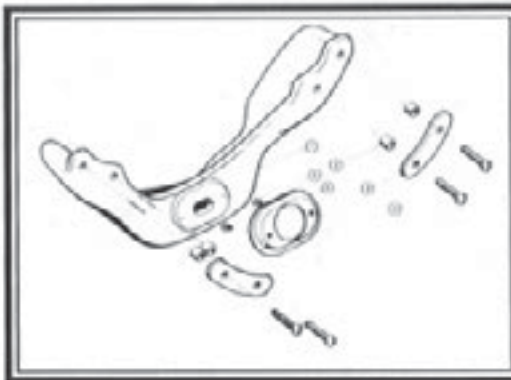
REGULATOR ADJUSTMENT WRENCH SET. 525-615

Used with all Diving Systems Superflow regulators and other regulators of similar design. Comes complete in a handy tool pouch



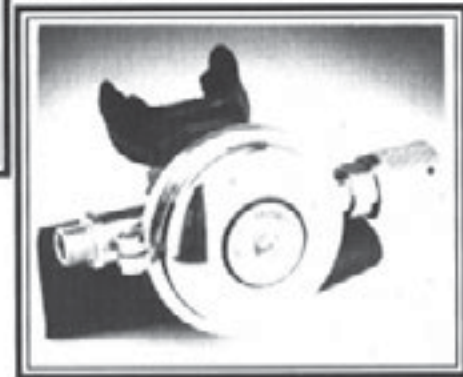
HELMET BAG 500-901

All helmet bags are made of extra heavy duty black ripstop nylon material featuring padded bottom, side pockets, grommeted drain holes and large carrying straps.



WHISKER KIT 525-201

The whisker kit deflects the exhaust bubbles away from the face port and out of the divers vision. All "after 1978" DSI masks and helmets have this improved exhaust system installed. The whisker kit supplies all necessary parts to backfit any model 9, 10, 17 or 18.



SUPERFLOW 2 COMMERCIAL SCUBA REGULATOR 500-400

This regulator is nearly identical to the units on the Kirby Morgan masks and helmets. The only change is to allow the use of a standard, rubber, scuba mouthpiece. All replacement parts are interchangeable with the parts on the commercial mask and helmets.



DRAWSTRING NECK DAM 510-533

The drawstring neck dam functions identically as the standard neck dam. The drawstring feature allows for rapid and easy changing without disassembly of the yoke/neck clamp.



DSI ACCESSORIES

Part Number

Description



- 400-020 DCS 2A (Dive Control System 2A)
- 400-021 DCS 2A w/Optional Shutoff Valve
- 400-022 DCS 2A w/Wireless Tender
- 400-023 DCS 2A w/Optional Shutoffs & Wireless
- 400-018 DCS 2A, no Comms
- 400-019 DCS 2A, no Comms, w/Shutoffs
- 100-005 Operations/Maintenance Manual for DCS 2A
- 415-140 Head Set w/Boom Mic (for DCS 2A Comms)



- 300-266 SuperFlow® Scuba Regulator w/Plastic 2nd Stage
- 300-276 SuperFlow® Scuba Regulator w/Metal 2nd Stage
- 300-286 SuperFlow® Scuba Regulator w/Non-Adj 2nd Stage
- 305-161 SuperFlow® 1st Stage Regulator, no Hose
- 305-166 SuperFlow® 2nd Stage Regulator, Adjustable Plastic, no Hose
- 305-171 Octopus 2nd Stage, Non-Adjustable, no Hose
- 305-175 SuperFlow® 2nd Stage Regulator, Adjustable Metal, no Hose
- 200-017 Over-Pressure Relief Valve, Hi-Flow
- 255-050 Optional Big-Bore Hose for SuperFlow® Regulator



- 600-003L EXO T-Shirt, L
- 600-003X EXO T-Shirt, XL
- 600-004L SL 17 T-Shirt, L
- 600-004X SL 17 T-Shirt, XL
- 600-005L DSI Logo T-Shirt, L
- 600-005X DSI Logo T-Shirt, XL
- 600-006 SL 17 T-Shirt, XXL
- 600-007 DSI T-Shirt, XXL
- 600-008 EXO T-Shirt, XXL
- 600-013L 3 Diver T-Shirt, L
- 600-013X 3 Diver T-Shirt, XL
- 600-014 3 Diver T-Shirt, XXL
- 600-015 Sweatshirt, Crew Neck
- 600-020 Sweatshirt, Hooded
- 600-022L SL 27 T-Shirt, L
- 600-022X SL 27 T-Shirt, XL
- 600-023 SL 27 T-Shirt, XXL
- 600-029 Hat, 17 Helmet
- 600-030 Hat, DSI Logo
- 600-031 Patch, DSI Logo/Light
- 600-032 Patch, DSI Logo/Dark

T-Shirts are available in L, XL and XXL. DSI Logo Shirts are available in standard colors (call for availability of colors). Sweatshirts are available in L and XL. Hats are one-size-fits-all baseball type.



AIR CONTROL SYSTEMS

Diving Systems International *Dive Control System 2A*



Dive Control System-2A is a lightweight, portable control box for use in surface and supplied air diving operations. The DCS-2A controls the diver's air supply, communications and monitors the diver's depth. It allows two divers clear push-to-talk (two wire) or round robin (four wire) communications.

The air supply can be either from a low pressure or high-pressure cylinders. The DCS-2A's adjustable first stage regulator reduces the high-pressure air and supplies low pressure through the umbilical to the diver's breathing system. High pressure yokes permit U.S. standard SCUBA cylinders to be used. Low pressure air supply fittings allow for a compressor to be used as the primary air source. A complete pneumo system with dual reading gauges (both U.S. Standard and Metric) is provided for each divers air, as well as a shut-off/bleed system that uses two high pressure feed lines which allows changing of used cylinders without interruption of the diving operation. Optional shut off valves allow the isolation of each diver's air supply.

The Communication Set is a multipurpose intercommunication system that provides reliable and clear communications between a topside operator (tender) and one or more surface-supported divers, diving bells, personnel transfer capsules (PTC), recompression chambers, or other submersible systems. It supports both two-wire and four-wire diver communication configurations, and the system can be interconnected with one or more other units to support the most demanding and diverse diving requirements. A unique and secure "self-learning" battery charge and life monitor system provides battery life information and charge control for a lead acid gelcell type rechargeable.

The set can be easily and inexpensively modified with a radio option to support wireless tender communications. It is designed additionally to support future developing wireless underwater communications, in-water diver recall systems, navigation and positioning systems, and data transfer systems.

A. The communication Set is multi-purpose intercommunication system that provides reliable and clear comms..

B. Depth Gauge/Pneumo Systems: Dual reading gauges are accurate to +1/4 of 1% of scale, continuously monitoring the diver's depths from 0-250 FSW, (0-78 MSW) Maximum recommend user depth: 130 FSW.

C. Depth Monitoring/Pneumo Knob is used to meter the flow of air used for depth measurement.

D. The Stainless Steel Air Outlets fittings connect the diver's the air supply hose and depth monitoring/pneumo hose to the DCS-2A, providing a strong, reliable, corrosion resistant connection. Optional Shut Off Valves allow the isolation of one diver's air supply from the other.

E. Regulator Adjustment Knob controls the air pressure to the diver's umbilical. Variable pressure settings from 115 P.S.I. to 225 P.S.I. are obtainable.

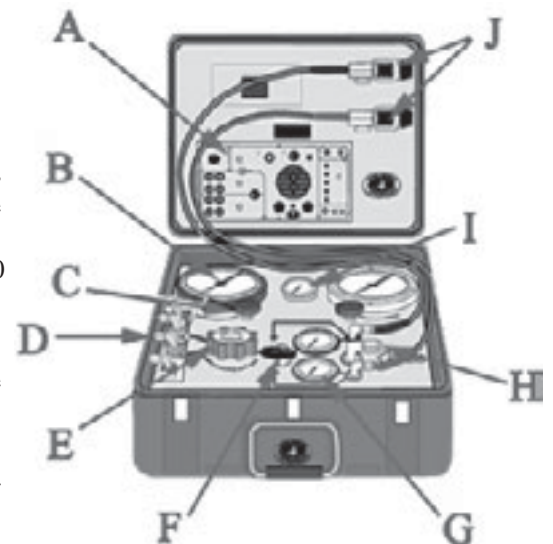
F. Selector Valve Handle is used to choose either one of the air supply cylinders. Individual cylinders may be changed out with no interruption of the dive.

J. High Pressure Air Supply Yokes permit U.S. standard SCUBA cylinders to be used as the air supply. Each yoke has a bleeder valve for rapid cylinder changing. H.P. Supply Maximum 3000 P.S.I. (200 Bar).

H. Low pressure Air Supply Fitting allows a low pressure compressor to be used as the primary air source.

G. High pressure Supply Gauges directly monitor the pressure in each of the air cylinders.

I. Umbilical Pressure Gauge provides a constant reading of the pressure in the diver's umbilical. The gauge is glycerine filled to protect the mechanism from shock. The scale on the gauge is 0-300 P.S.I. (0-20 Bar). Recommended umbilical pressure range 150-225 P.S.I.



AIR CONTROL SYSTEMS

The **Dive Control System 2000** is especially suited for those fast Fly-A-Way Jobs when mobility is important. The system is designed to be reliable, rugged & affordable. The unit is housed in a sturdy attractive yellow case of injection moulded ABS Polycarbonate. The case is water proof and has a vent screw for bleeding off air created by atmospheric changes. The case also has an "O"-ring for added protection from the elements.

The **Dive Control System 2000** allows two divers to be controlled from one central system. The system incorporates two 6" face pneumo/depth gauges with an accuracy of 1/2 of 1% thru the entire range. The gauges are protected from over pressurization by use of a regulator mounted down-stream in the gauge air supply line. Two divers can be monitored separately and at different depths for complete control.

The Air Control Portion of the System allows two separate low-pressure sources to be connected to the manifold via two 1/2" Brass Ball Valves with #10 JIC Brass fittings. A separate regulated H.P. safety air supply can be connected to the control manifold via a 1/4" Brass Ball Valve and #6 JIC fitting.

A Pressure Relief Valve is incorporated into the manifold system to vent pressure in the event of accidental over pressurization of the system. This Valve is factory set to relieve at 250 psi.

AQUA TECH 1 DIVER PNEUMO PANEL AT1DPP



This one diver pneumo panel is housed in a Pelican 1450 case, 16" l x 13" w x 6" d. The gauge is a bronze tube and brass socket, 0 - 250 FSW at 1 foot increments. Comes with a 10' pneumo whip. Fittings are O2 in and O2 out. Shock mounted utilizing stainless steel springs.



DIVE CONTROL SYSTEM Model AT-2000

The **Dive Control System 2000** Air Manifold is constructed of solid brass bar-stock, for many years of rugged reliability. The ideal system for any job requiring complete control of the divers breathing gas and depth monitoring capabilities.

FEATURES

- Rugged and attractively packaged
- Manifold machined from Solid Brass-Stock
- Sturdy yellow water proof case
- 2- 6" face, 0-250 FSW, pneumo/depth gauges
- 0-300 psi Inlet Pressure Gauge, solid brass cased
- Pressure Regulator for gauge protection
- 2- 1/4" npt Brass Ball Valves for diver air control
- 2- 1/2" npt Brass Ball Valves for L.P. Inlet air control
- 1- 1/4" npt Brass Ball Valve for Regulated H.P. Air Inlet
- Over-Pressure Relief Valve set at 250 psi

SPECIFICATIONS

Working Pressure	250 psi Max.
Pneumo/Depth Gauges	0-250 FSW, in 1 ft. increments
Inlet Pressure Gauge	0-300 psi
Case	ABS Polycarbonate
Dimensions	20.9 x 18.0 x 8.34 inches (55.63 x 45.72 x 21.34 cm)

AQUA TECH

comsales@divecenter.com / milsales@divecenter.com
Toll free 1-800-345-3252 / Fax 619-237-1886

www.Divecenter.com

BIRNS LIGHTING & CONNECTORS

BIRNS Marine lights operate within the marine and aquatic environments, especially underwater at great depths. These lights are typically used on submarines, remotely operated vehicles, and by commercial divers, and are generally grouped as Flood Lights, Work Lights, ROV/SUB Lights, Camera/Helmet Lights, Lights for Ultra-Deep Submergence, and Advanced Technology Lights.

Birns Snooperette



76 Millimeter and versatile low-voltage light, perfect for divers, cameras and ROV's. Include your choice of clear, blue, or blue frosted lens and various voltage and wattage lamps.

Birns Snooper



SNOOPER comes complete with a hand grip and your choice of 300 to 1000 watt lamp, and clear, frosted, blue, or blue-frosted lens. Various connector options are also available.

Birns Snooperwide



The SNOOPERWIDE is available with 3 interchangeable beam angle lamps. Medium beam lamp gives a bright 90 degree coverage. The "spot" lamp provides a 25 degree angle and 75,000 center-beam candlepower, wide-angle lamp provides a 150 degree beam for close-up work.

Birns XT120



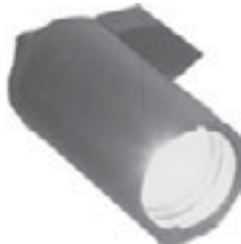
A small 76 mm diameter bright, directional light, comes complete with your choice of lamp, clear, frosted, blue or blue-frosted lens, 30 second tool-free relamping for easy maintenance and complete versatility.

Birns Sirius



1000 watt SIRIUS will operate in air, in the splash zone, or underwater to 150 meters. Includes finned hard-anodized housing, 19 mm thick glass lens, 120v/1000w lamps (your choice of narrow, medium, or wide-angle).

Birns Pico



30 second tool-free relamping, wet-mateable connector, 44 mm OD by 99 mm long, anodized aluminum housing, 3000 hour lamp life, 100 meter depth rating, and in-water weight of 110 grams.

Birns Varilite



This innovative light offers a variable beam angle, up to 500 watt lamps. No wiring to maintain. 60 second tool-free relamping. 89 mm diameter; depth rating: 1,500 or 6000 meters. Your choice of 120 or 240 VAC or VDC.

Birns SOR



SOR ROV lights come in 3 different models, and are rated to 1500, 3000, 5000 meters respectively. Marine grade heat tempered aluminum. SOR accepts 100-500 W tungsten halogen lamps, 120/240V or 12/24V 30-250W.

Birns Miteylite



The 32 mm x 133 mm MITEYLITE features 30 second relamping, and choice of 100, 150, or 250 watt lamps with 60 degree beam and color temperature of 3000K!

Birns Chamber Light



Extensive testing has proven the **BIRNS** chamber light to meet or exceed applicable Det Norske Veritas (DNV), Lloyds, and UL requirements. Choice of 25 to 50-watt lamp, and four different lens options. Superior thermal design permits the use of higher-output lamps than in competing models, and the **BIRNS** exclusive "doubly safe" dual helium release method makes the entire front of the light its own helium release valve and a 45 meter **BIRNS** power

BIRNS CONNECTORS



BIRNS manufactures several ranges of connectors, including the advanced third-generation Millennium Series (Miniature High-Density Metal Shell), Metal Shell, Polymeric, Rubber, Aquamate (wet/ underwater mateable) and Penetrators. In addition, **BIRNS** performs special connector work for special applications. All **BIRNS** connectors provide adequate pin engagement, superior gold plating, and proper engagement sequence.

DEESEA POWER & LIGHTING

Deep-SeaLite DEEFL710001

- * 11,000 Meter Rating
- * Can Accommodate 1000 W Lamp
- * 3 Different Beam Pattern Reflectors are Available
- * Housing is Constructed of 6AL-4 V titanium (iodized finish) and 6061 Aluminum Hard Anodized
- * 6.5" Diameter
- * 7.87" Long
- * Quartz Lens



Deep-Sea Projector DEE71000502

- * 6,000 Meter Rating
- * Utilizes Slide Projector Optics
- * Designed for Research Small Defined Areas
- * Housing is Constructed of 7075-T6 Aluminum Black Delrin, Titanium
- * BK-7 Borosilicate
- * 3.95" Diameter
- * 22.14" Length
- * 82 V Input Voltage
- * 330 W Lamp



Micro-SeaLite DEE710002027

- * 1,000 Meter Rating
- * Ultra-Small DC Light
- * Wet/DRY Operation
- * Housing is Constructed of 6061-T6 Aluminum hard
- * 1.485" Diameter
- * 2.65" Length
- * Available in 12 or 24 VDC
- * Lite Available in 12 W, 20 W, and 35 W
- * Collar and Yoke Bracket Inc.
- * Unique ground and polished Quartz Window (Lens), provides broad and even beam



Mini-SeaLite Helmet Light DEEFL710071

- * 1,000 Meter Rating
- * Ultra-Small and Lightweight
- * Housing is Constructed of 6061-T6 Aluminum
- * Stainless Steel is Optional
- * 1.5" Diameter
- * 5.5" Length
- * Collar and Yoke Bracket Inc.
- * 78 Degrees Beam Pattern (full angle measure to half power point)



Multi-SeaLite DEEFL710040

- * 1,000 Meter Rating
- * Compact and Lightweight
- * Housing Material is available in Aluminum, Stainless Steel, or Titanium
- * Titanium Stainless Steel is Optional
- * 3.1" Diameter
- * 6.1" Length
- * Clear Tempered Borosilicate



RiteLite DEEFL710050

- * 1,000 Meter Rating
- * Helmet Mounting Bracket
- * Housing is Constructed of Glass reinforced epoxy body and plastic Cowl
- * Clear Tempered Borosilicate
- * 3.1" Diameter
- * 4.6" Length
- * 12 or 24 VDC



Micro-SeaCam 2000 Camera DEEFV740000

- * Ultra-Small, High Performance Color Video Camera
- * 2,000 Meter Rating
- * 6,000 Meter Rating Option Avail.
- * Housing is Constructed of Titanium
- * 1" Diameter
- * 8.5" Length
- * Sapphire Window
- * 1/2" CCD Image Sensor
- * 470 Horizontal Line Resolution
- * Pixels 768 (Horiz.) X 493 (Vert.)
- * f3.5, Fixed Iris, Fixed Focus Lens
- * NTSC, PAL Video Format
- * 13-30 Volts DC Power
- Above 18 Volts, Camera must be in Water
- * 300 mA Current



Multi-SeaCam DEExxxx

- * Color or Black and White Camera
- * 6,000 Meter ROV Rating
- * 300 Meter Diver Rating
- * Housing Material, Titanium (ROV)
- * Housing Material, Delrin (Diver)
- * 1.87" Diameter
- * 5.1" Length
- * 1/3" or 1/2" CCD Image Sensor
- * 3 Diff. Pixel Variations Avail.
- * 3 Diff. Res. Variations Avail.
- * 3 Different Scene Illum. Avail.
- * Scratch Resistant Sapphire Port
- * Depth of Field 4" to Infinity, or 12" to Infinity
- * Wide Angle Fixed Focus Optics
- * 11-30 Volts DC Power
- * 110 mA Current **ALSO AVAILABLE IN LED**



SeaCam 2003 DEExxxx

- * Color CCD Video Camera
- * Hand Held or Fixed Mount Applications
- * 1000 Meter Depth Rating
- * Housing is Constructed of Delrin
- * 3.4" Diameter
- * 10" Length
- * 1/2" CCD Image Sensor
- * 510 (H) x 494 (V) Pixels
- * 450 Line Resolution
- * 3.7 mm, f 1.8 Auto-iris Lens
- * Fixed Focus
- * Depth of Field 4" to Infinity
- * Scratch Resistant Acrylic Port
- * NTSC, PAL Video Format
- * 12 Volt DC Power
- * 350 mA Current



Super SeaCam Camera Series DEExxxx

- * **Super SeaCam 5000**, Low-Light CCD Camera
- * **Super SeaCam 6000**, Color CCD Camera
- * **Super SeaCam 6500**, Low-Light Color Camera
- * 6,000 Meter Rating, Titanium Housing
- * **Super SeaCam 5000**, 4,000 Meter Rating, Aluminum Housing
- * **Super SeaCam 6000/6500**, 3,000 Meter Rating, Aluminum Housing
- * 300 Meter, Delrin Housing
- * 3.75" Diameter
- * 9.9" Length
- * Optically Polished Glass Port with Anti-Reflective Coating



- * **Super SeaCam 5000**, 1/2" CCD Image Sensor
- * **Super SeaCam 6000**, 1/3" CCD Image Sensor
- * **Super SeaCam 6500**, 1/4" CCD Image Sensor
- * **Super SeaCam 5000**, 3.8 mm, f0.80 Lens
- * **Super SeaCam 6000**, 5.4-64.8 mm (12X) Zoom
- * **Super SeaCam 6500**, 18X (12X Optical, 6X Digital), Zoom f=4.1 - 73.8 mm
- * **Super SeaCam 5000**, Fixed Focus
- * **Super SeaCam 6000/6500**, Auto Focus



The Descriptions and Technical Data have been summarized, and there are more products to choose from.

Call Aqua Tech for Information and Product availability

DEESEA® CAMERA CONTROL UNITS

Camera Control Unit, CCU-2000 DEEFV742000

Deep Sea's Camera Control Unit (CCU) is a rugged, plastic case containing a VHS-format VCR, 13" color TV (NTSC Format) and camera power supply. With all options installed the CCU is a complete topside control unit that provides power to the diver's video camera, adjustable power to diver's lights, communications between diver and topside, topside viewing and taping of underwater activity, and time/date/caption device overlay video for annotation.

Options for the CCU include:

- * 500 W Light Controller
- * Time, date and two-line overlay generator



Specifications:

- * **Width** 55.88 cm (22")
- * **Depth** 53.34 cm (21")
- * **Height** 59.69 cm (23.5")
- * **Weight** 32 kg (70 lbs.)
- * **Input Power** 120 VAC
- * **Output Power** 13 VDC, 1 AMP for Camera
- * **VCR** VHS Format (NTSC Only)
- * **Monitor** 13-inch Color (NTSC only)

Tool-Box Camera Control Unit DEExxxx

The Tool-Box CCU is the smallest, most portable topside Camera Control Unit available anywhere. With its small footprint, light weight and battery operation, extension cords and slow setup times are a thing of the past and remote imaging applications are a breeze.

The Tool-Box CCU will power any one of our Cameras and will provide power for both camera and lights on systems with integrated LED lighting, such as the SST-1370.

Front panel features include a power switch, a dimmer knob for the lights (SST-1370), video in/out (RCA jack), auxiliary AC power input and Camera connector.

The high-resolution monitor includes an integrated sunshade and a detachable neoprene sunboot for use in direct sunlight. To maximize battery life, an interlock switch automatically shuts off system power when the unit is closed.



Specifications

- * **Dimensions:** 15.5" x 8.55" x 8.45"
- * **Weight:** 12 lbs.
- * **Input Power:** 14.4 VDC/120 VAC
- * **Output Power:** Variable 8.0 to 12.5 VDC
- * **Monitor:** 5" Black & White, EIA Std.
- * **Video Resolution:** 700 Line Resolution
- * **Recharger:** 120 VAC Input, Will Charge NiCAD or NiMH Batteries, 1 Hour Charge Time
- * **Battery:** 14.4 VDC, Current 2.0 Ah (NiCAD) Current 2.2 Ah (NiMH)

Suitcase Camera Control Unit, CCU-3000 DEExxxx

The SCCU can be easily transported by one person, set up at the job site within minutes, and includes everything required to operate and monitor DeepSea video Cameras and Lights while making Video and Audio recordings. The SCCU continues DeepSea's trend of producing extremely rugged imaging products for real applications at competitive prices. The Color LCD display, for example, can withstand mechanical shock that would damage a CRT monitor. The VCR, which is protected during transport within a pop-up rack-mount, "floats" on a leaf spring suspension system. All components are hard-mounted and secure within the Suitcase CCU when in transport. An isolation transformer combined with a ground fault circuit interrupt provides 2 layers of electrical safety.

A complete set of input and output connectors maximize the available configurations. For example, the output connections allow for remote monitor/VCR setups for the customer or agency inspectors while the SCCU is positioned with the tender at the scene of diver deployment. Operators can hook up cameras to the SCCU using banana jacks and BNC terminations and lights via the AC outlets, or specify a cable for all components that takes advantage of the 14-pin universal connector. A video caption device can be connected in seconds using the auxiliary video connector. Rain protection provided by a clear rain hood.

Specifications:

- * **Dimensions:** 20.75" x 23.25" x 9"
- * **Weight:** 53 lbs.
- * **Input Power:** NTSC, 120 VAC, 60 Hz PAL, 240 VAC, 50 Hz
- * **Output Power:** 15 VDC to Camera
0-140 or 240 VAC Light
- * **VCR:** VHS Recorder/Player
- * **Monitor:** 6.4" Color LCD, NTSC or PAL
- * **Video Format:** NTSC or PAL
- * **Video Signal:** Composite, S-VHS Pass-Through



Camera Control Unit, CCU-5000 DEExxxx

The CCU-500 is a compact, full featured and versatile Camera Control Unit. The system includes an internal rechargeable battery, commercial grade VHS VCR and Color LCD monitor enclosed in an impact and water-resistant case.

The Touch Pad control interface on top of the monitor housing provides a simplified control interface for the built-in VHS VCR, a LANC-controlled VCR or camcorder (user supplied), or both simultaneously.

The CCU-5000 has an Auto-Switching AC power supply with a range of 100-240 volts (47-63 Hz), an Internal Battery, and an included Car Adapter, providing you with three means of power.

Hands-Free microphone is standard, and a front panel jack allows the use of an optional keyed microphone for recording and playback in noisy environments.

Pivoting Color LCD monitor with Sunshade and Sunboot for glare free viewing.

Specifications

- * **Dimensions:** 18.5" x 14.5" x 8.0"
- * **Weight:** 30 lbs.
- * **Input Power:** 100-240 VAC, 47-63 Hz/12-15 VDC (PAL) 240 VAC, 50 Hz
- * **Battery** 300-1000 Charging Cycles, 2.5 Hours per Charge
- * **Monitor** 5" Color, NTSC or PAL
- * **Recorder** VHS Recorder
- * **Video Format** NTSC or PAL



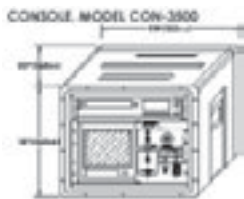
OUTLAND TECHNOLOGY

Complete Color Video System with DC Light UWS-3510

OUTUWS3510

Features

- * UWC-325/p, Fixed focus, Color Camera
- * UWL-300, 35 watt 12VDC light
- * C-2501, 500 foot cable
- * CON-3500, Console with 10" Color monitor, power supply with GFI safety circuits, VHS recorder



Options:

Video Time/Date/Typewriter (400 line) VCR and Monitor

UWS-3520 PAL version

KP-750, Digital keypad controller for all cameras
Optionally, any other camera can be used with this system.

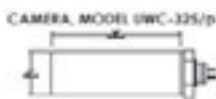
Camera, Model UWC-325/p Specifications

Mechanical

- * Weight 6 oz. (.2kg) Dry, 3 oz. (.48kg) Wet
- * Depth Rating 1000 ft. (300m)
- * Housing Black Delrin

Electrical

- * Image Device 1/3" CCD Sensor (512)h x 492v)
- * Sensitivity 2 lux @ f 1.4
- * Resolution 400 TV lines standard
- * Video Out 1.2 Vpp, NTSC standard (PAL option)
- * Power 12 VDC @ 200 ma.



Optical

- * Lens 2.9mm, Electronic-Iris
- * Focus Fixed, 6" to Infinity
- * Angle of View 70 Horiz. (in water)

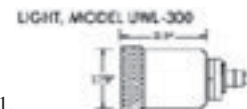
Light, Model UWL-300 Specifications

Mechanical

- * Weight .48 oz. (.22kg) Dry, .25lbs. (.11kg) Wet
- * Depth Rating 1000 ft. (300m)
- * Housing 6061-T6 Anodized Aluminum

Electrical

- * Power 35 watts
- * Color Temp 3000k
- * Bulb Q150/cl/mc std., MR11,



Cable, Model C-2501 Specifications

- * Conductor 2 ea. #18, #20 & #22 awg, 1 RG-59 Coax
- * Length 500 ft. (150m)
- * Diameter .4" (10mm)
- * Materials Black, Polyurethane jacket
- * Interstices Water Blocked



Console, Model CON-3500 Specifications

- * Weight 74 lbs (33kg)
- * Power 110 VAC/60Hz, fused at 5 amperes, (3520. 110/220 VAC 50/60 Hz)
- * Light Control Variable control 0-100 %, 0-35 watts
- * Monitor 10" Color w/audio
- * Safety GFI for main power, Isolation transformer for light
- * Connections Front panel connections for umbilical, Audio & Mic
- * VCR VHS format (standard)

Pan & Tilt Camera OUTUWC180



6mm f1.4 Lens, 470 color and 570 B & W horiz. line resolution, dia. 5.4" x 6", 1000 m rated depth, 6061 T6 hard coat anodized alum.

Pan & Tilt Zoom & Focus OUTUWC185



8-80 mm f1.6 Lens, 470 color and 570 B & W horiz. line resolution, dia. 7.25" x 8.25", 1000 m depth, 6061 T6 hard coat anodized alum.

Black & White Camera OUTUWC300



This B & W camera has a 4.3 mm f 1.6 lens, 400+ B & W horizontal line resolution, sensitivity is .03 lux, dia. 1.6" x 4.94", black delrin, 300 m

Low Light Color Camera OUTUWC325C



This color camera has a 3.6mm f 2 lens, 400+ color horizontal line resolution, sensitivity is .2 lux, dia. 1.6" x 4.94", black delrin, 300 m depth rated

Ultra Low Light Camera OUTUWC350



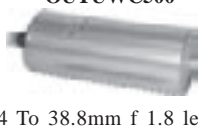
This black & white camera has a 5mm f 1.4 lens, 570+ B & W horiz. line resolution, sensitivity is .0003 lux, dia. 2.8" x 3.25", stainless steel, 1000 m depth

Ultra Low Light Color OUTUWC400



This color camera has a 3.6 mm f 2 lens, 400 color horiz. line resolution, sensitivity is 1 lux, dia. 2.8" x 3.25", stainless steel, 1000 m depth

Color Zoom Camera OUTUWC500



3.24 To 38.8mm f 1.8 lens, 2-1 digital zoom (38.8 to 77.6mm), auto focus, 460+ line resolution, sensitivity is 1 lux, auto focus, dia. 3.1" x 8", stainless steel, 1000 m depth

250 Watt Light OUTUWL100



This 250 watt light is shown with and without the optional wide angle reflector, dia. 2.375" x 3.25", 6061 T6 hard coat anodized alum., 1000m depth

150 Watt Light OUTUWL200



150 Watt light, dia. 1.6" x 3.25", 17-4 ph stainless steel, 1000m depth rated

12 Volt 35 Watt Light OUTUWL300



12 Volt 35 watt light, stainless steel helmet mount, dia. 2" x 2.5", 6061 T6 hard anodized alum., 300 m depth rated

OUTLAND TECHNOLOGY

Complete Color Video System with AC Light UWS-3010

OUTUWS3010

Features

- * UWC-325/p, Fixed focus, Color Camera
- * UWL-200, 150 watt light
- * C-2001, 500 foot cable
- * CON-3000, Console with 10" Color monitor, power supply with LIM & GFI safety circuits, VHS recorder

Options:

Video Time/Date/Typewriter (400 line) VCR and Monitor
 UWL-100, 250 watt light
 UWS-3020 PAL version
 KP-750, Digital keypad controller for all cameras
 Optionally, any other camera can be used with this system

Light, Model UWL-200 Specifications

Mechanical

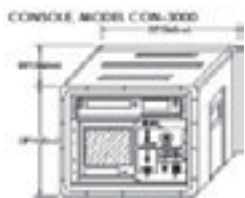
- * Weight 21 oz. (.6kg) Dry, 20 oz. (.48kg) Wet
- * Depth Rating 3300 ft. (1000 m)
- * Housing 17-4 Stainless

Electrical

- * Power Up to 150 watts
- * Color Temp 3000 k
- * Bulb Q150/cl/mc std., (75 & 100 Opt.)

Console, Model CON-3000 Specifications

- * Weight 90 lbs (40 kg)
- * Power 110 VAC/60 Hz, fused at 5 amps, (3020. 110/220 VAC 50/60 Hz)
- * Light Control Variable control 0-100 %, 0-250 watts
- * Monitor 10" Color w/audio
- * Safety GFI for main power, LIM to monitor umbilical, Isolation transformer for light
- * Connection Front panel connections for umbilical, Audio & Mic.
- * VCR VHS format (standard)



Camera, Model UWC-325/p Specifications

Mechanical

- * Weight 6 oz. (.2kg) Dry, 3 oz. (.48kg) Wet
- * Depth Rating 1000 ft. (300m)
- * Housing Black Delrin

Electrical

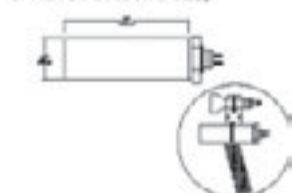
- * Image Device 1/3" CCD Sensor (512)h x 492v)
- * Sensitivity 2 lux @ f 1.4
- * Resolution 400 TV lines standard
- * Video Out 1.2 Vpp, NTSC standard (PAL option)
- * Power 12 VDC @ 200 ma.

Optical

- * Lens 2.9mm, Electronic-Iris
- * Focus Fixed, 6" to Infinity
- * Angle of View 70 Horiz. (in water)



CAMERA, MODEL UWC-325/p



Cable, Model C-2001 Specifications

- * Conductor 2 ea. #18, #20 & #22 awg, 1 RG-59 Coax
- * Length 500 ft. (150 m)
- * Diameter .4" (10mm)
- * Materials Black, Polyurethane jacket
- * Interstices Water Blocked

CABLE, MODEL C-2001



Complete Portable Color Video System with AC Light

OUTUWS7010

Features

- * UWC-325/p, Fixed focus, Color Camera
- * UWL-200, 150 watt light
- * C-2001, 500 foot cable
- * CON-3000, Console with 10" Color monitor, power supply with LIM & GFI safety circuits, VHS recorder

Options:

- * Video Time/Date/Typewriter
- * KP-750, Digital keypad controller for all cameras

Optionally, any other camera can be used with this system

Console, Model CON-7000 Specifications

- * Weight 32 lbs (14.5 kg)
- * Size 18" w x 13" d x 7" h
- * Power 110 VAC/60 Hz, fused at 5 amperes
- * Light Control Variable control 0-100 %, 0-150 watts
- * Monitor 10.4" LCD w/audio
- * Safety GFI for main power, LIM to monitor umbilical, Isolation transformer for light
- * Connections Front panel connections for umbilical, Audio & Mic.
- * VCR VHS format (standard)

This portable unit has all the same features and equipment as the UWS3010, except the console. Please see above for specifications



The UWS-3010, also comes in a PAL version, UWS-3020.

The UWS-3510, also comes in a PAL version, UWS-3520.

The Staff

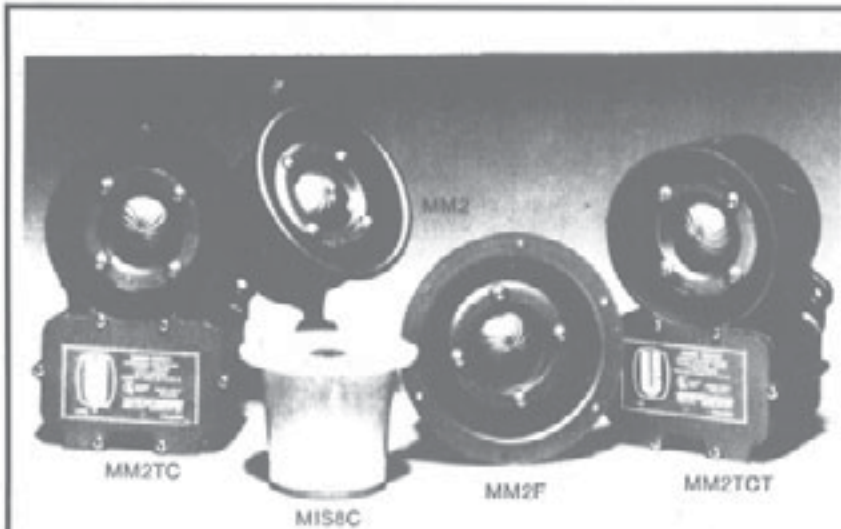
Outland's design engineering staff are experienced in many disciplines. With a combined 60 years + in Electronics and Undersea work they have developed Video systems and Video components that are second to none. Their use of computer aided design of mechanical systems, electrical systems, printed circuit boards and pressure vessels assure that products meet the quality and design turnaround time required to be a major player in these markets.

The Products

Developed from actual field experience, Outland's product line is not only rugged and effective, but also combines uniqueness with safety features to maximize the value of your purchase



SPEAKERS & BANANA PLUGS





TALK BACK SPEAKER
MODEL 11303
Designed for Diving environments such as diving bells & chambers.
(8 ohms) Metal housing
Also in foam proof model



BANANA PLUG
MODEL 10850



BANANA PLUG WITH ADAPTER
MODEL 11200





Shure® Microphone
This mike is used in all Diving Systems® helmets & masks.
8 ohms. Rugged Quality
Order.....Shure Mike


MODEL	FREQUENCY RESPONSE 6 dB down points (Maximum Range)	POWER HANDLING CAPACITY WATTS	DISPERSION 6 dB down points			SOUND PRESSURE LEVEL ¹	VOICE COIL IMPEDANCE	VOICE COIL REPLACEMENT PART #	DIMENSIONS	SHIPPING WEIGHT	APPLICATIONS
			1000 Hz	2000 Hz	4000 Hz						
MM2	650-4 kHz (350-10 kHz)	25 Watts	177°	86°	39°	117 dB	8 ohms	#258	6" Dia. x 5" L 7 1/4" Dia. x 3 1/4" L	6 Lbs.	Locations having high humidity live steam, fresh or salt water spray; excellent multi-duty speakers in mining and submergent-proof application Similar to MM2, but for flush mounting
MM2F	650-4 kHz (350-10 kHz)	25 Watts	168°	95°	43°	117 dB	8 ohms	#25B	6 1/2" W x 10" H x 4 1/4" L	9 Lbs.	
MM2TC			200°	90°	39°	117 dB	8 ohms			10 Lbs.	
MM2TCT			200°	90°	39°	117 dB	Variable ²			10 Lbs.	
MIS4C	600-7 kHz (500-13 kHz)	10 Watts	167°	153°	72°	115 dB	4 ohms	#431	5 1/2" Dia.	3 Lbs.	Similar to MM2, but for surface wall mounting Similar to MM2TC, but with built-in transformer
MIS8C						8 ohms	#432	4 1/4" Deep			
MIS4SC						45 ohms	#433				


(1) Measurement taken at 4' on axis at rated power input using pink noise, band-limited from 500 to 3000 Hz.
(2) Models with built-in 70V and 25V line transformers with push-on terminal connections.


SPEAKERS



20-175


20-177


20-226


20-224A


20-174


20-225

MINIATURE SPEAKERS WITH CLEAR PLASTIC CONES
With clear plastic cones for use as emitters, beepers, etc. (Imp.—8 ohms)


Specifications


20-174—1 5/8" Round, 1/4" deep	20-177—2 1/2" Round
20-175—1 3/4" Round, 1/4" deep	20-224A—1" Round, 1/4" deep
20-176—2" Round	20-224—1" Round, 1/4" deep


Designed for miniature equipment. Amazing tone quality in a small size speaker for transistor and all sub-miniature applications. Precision made, ideally suited for pocket radio, small amplifiers and most transistorized equipment. **Paper cones.** (Imp.—8 ohms)


Specifications


20-225—1 1/2" PM Speaker—Square 1" deep	20-228—2 1/2" PM Speaker—Round 1" deep
20-225R—1 1/2" PM Speaker—Round 1" deep	20-229—2 1/4" PM Speaker—Round 1" deep
20-226—2" PM Speaker—Round 1" deep	20-247—3" PM Speaker—Round 1" deep
20-227—2 1/4" PM Speaker—Round 1" deep	


20-224


20-227


20-228


20-229


20-247

OTS COMMUNICATIONS

COMBOX 1 AIR INTERCOM



Compact Design
20 Watts of Power
Easy battery access
Heavy Duty Housing
Loud front panel speaker

MK-2-DCI AIR INTERCOM



Two wire push to talk mode
Four wire round robin mode
20 Watt power output
Tender/Diver Controls
Industrial Panel Speaker

OTS DSR-100B DIVER RECALL



Comes w/Main Electrical Unit
Heavy Duty Housing
Deluxe Transducer (25' Cable)
Hand-Held Mic., and listen mode
Rechargeable Batteries
Battery Charger

OTS STX-101M Surface Station



Designed for Rigorous Military Use
Compatible with Aquacom and Buddy
Phones. Easy to operate 8 Channel Front
panel. Low Voltage Battery Alarm

OTS STX101 Surface Station



Hand Microphone, Transducer (35' Cable)
Record Out Receptacle (Female RCA), Squelch
Control, 12 V, External Receptacle, Channel
Select Panel Speaker

MK-7 W/ THB-7A HEADSET



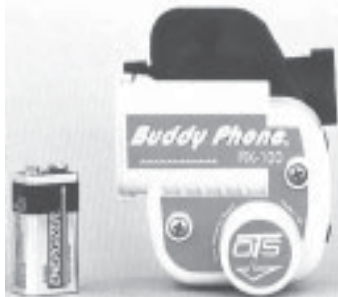
Deluxe Headset with Boom Microphone
One or Two Diver Hardwire Intercom
8-cell AA Battery Holder
Items can be ordered separately

SSB-2010 With MKII-G FFM



VOX Push-to-talk Variable
3 W Acoustic Output Power
30 to 35 kHz Frequency Range
300 to 4000 Hz Audio Bandwidth
8 AA Batteries or Nicad Pack

OTS RX-100 BUDDY PHONE



Receiver unit only. For use with conven-
tional Scuba, Powered by single 9 volt
battery for use with all single band Aquacom
or buddy phone transceivers

MKII-BUDS BUDDY PHONE



Nominal range: 50 to 500 meters
Operating Depth: 130 ft. of the sea water
Battery type: Alkaline 9 volt "transistor type"
Battery Life: 8-10 hours (10% duty cycle)

EMA-2 EAR/MIC. ASSEMBLY



Dual Earphones with Holders
Push-to-talk Control
Hot Mic. Element

EMX-2 EAR/MIC. ASSEMBLY



Compatible w/Exo-26 full face mask
Dual earphone, hi-use connector
Push-to-talk control, 150 OHM Hot-Mic for
hard wire or wireless.

OTS GILL-1



Built in snorkel for air conservation at
the surface. Comes installed on non-fog
treated AGA visor.

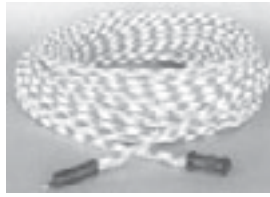
OTS COMMUNICATIONS

OTS-4P Hi Use



Can withstand severe marine conditions 1/2 Hardened Naval Brass w/ Gold Plated Pins

OTS Com-Rope



100% Nylon, 7/16" Static Kimmantle Rope
Breaking Point: 3,050 lbs

OTS Mouth Mask



Silicone mouth, soft and comfortable Straps on snugly. For use with or without the Buddy Phone

Battery Supplies



Aqua Tech has an assortment of batteries, rechargers, and adaptors for domestic and international power supplies.

SPECIFICATIONS:	SSB-1001B	STX-101M
Range:	Calm sea 2,000 meters	3,000 meters calm sea.
Carrier Frequency:	25 to 33 kHz (8 channels)	22 to 35 kHz (8 channels)
Transducer:	Piezoelectric type	Piezoelectric type
Earphone:	Dual, diver worn (ceramic)	Front panel speaker or optional headset with boom microphone
Voltage:	12 volts DC	(2) 6 volt alkaline lantern batteries w/springs or (2) RB-6V.
Auto Gain Range:	120 dB dynamic range	Greater than 100 dBv
Input Power:	12 volts	12 volts, DC @ minimum of 4 amps via front panel connector
Acoustic Output Power:	5 watts (nominal)	10 watts (nominal)
Power On Indicator:	Red LED w/low battery alarm	Background Audio
Transducer Cable:	Not applicable	55 feet with connectors and transducer
Low Battery Indicator:	Red LED	At 8 volts, short beep for 2 min. At 7 volts beep every 30 sec.
Battery Type:	Nimh pack or 8-AA Alkaline batteries	(2) 6 volt alkaline lantern batteries w/springs or (2) RB-6V.
Battery Life:	AA = 6 hrs. @ 10% duty cycle	20 hrs w/Alkaline, 12 hrs. with gel-cell @ 20% duty cycle
Battery Charge Time:	14 hrs. for Nicad Pack	14 hrs for a completely depleted battery
Maximum Depth:	400 fsw.	Not applicable
Housing Material:	High impact, Polycarbonate.	Heavy duty U/K 603 case.
Dimensions:	H-7.60", W-3.55", D-1.8"	H-6.500", W-14.00", D-10.60"
Weight:	Less than 1/2 lbs. in water	12 lbs with batteries
Channels for both SSB-1001B & STX-101M:		
Channel #1:	32.768 kHz upper sideband (Sport)	Channel #2: 32.768 kHz lower sideband
Channel #3:	31.250 kHz upper sideband	Channel #4: 31.250 kHz lower sideband
Channel #5:	28.5 kHz upper sideband	Channel #6: 28.5 kHz lower sideband
Channel #7:	25 kHz upper sideband (Military)	Channel #8: 25 kHz lower sideband

Specifications:	MK2-DCI	ComBox-1	MK-7 Buddy-Line
Battery Life:	20 hrs. continuous use.	26 hours continuous use (Alkaline).	12 hrs. using Alkaline batteries.
Battery Type:	(2) 6 volt lantern batt. (alkaline) Optional RB-6 rechargeable batt.	(2) 6 volt lantern batteries (alkaline) Optional RB-6 rechargeable battery.	(8) Alkaline AA batteries. Opt. RGBM-15 Nicad batt. pack.
Charging Time:	14 hours w/optional Gell Cell batteries.	14 hours w/optional Gell Cell batteries.	14 hours.
Power Output:	20 watts.	20 watts.	2 watts.
Frequency Response:	600 to 12,000 Hz.	600 to 10,000 Hz.	600 to 10,000 Hz
Controls:	Volume: Tender, diver 1, diver 2, Speaker, Cross talk, PTT, Speaker On/Off, select diver 1, diver 2 or both.	Volume: Tender, diver, Speaker On/Off.	Volume: Tender, diver 1 & diver 2
Receptacles:	Remote speaker, record out, 12 volt in, headset with boom mic, binding posts.	Record out, divers umbilicals, headset.	Record out, divers umbilicals, headset.
Low Batt. Indicator:	LED type battery meter.	LED flashing.	Tone battery indicator.
Speaker:	Front panel speaker or optional headset.	Front panel speaker or optional headset.	Headset w/boom microphone.
Housing Dimensions:	Height: 10.60" Width: 14.00" Depth: 6.85", Weight: 12.5 lbs.	Height: 9.750" Width: 10.750" Depth: 7.00", Weight: 9 lbs.	Height: 6 3/4" Width: 4 1/4" Depth: 2 3/4" Weight: 1 lbs.

DRS 100 DIVER RECALL SYSTEM



DRS100 Diver Recall System



DRS-100 DIVER RECALL

The DRS-100 Diver Recall System is primarily designed to recall free-swimming SCUBA divers. Sound is transmitted through the water, omnidirectional, via an under water transducer. Additionally, the system allows the topside user/s to Listen, via the Hydrophone mode.

In all, this system will prove itself an invaluable tool for the organized Dive Supervisor.

FEATURES

- Visual LED's
- Line IN jack
- Record jack
- Hydrophone mode
- High Power transducer
- State-of-the-art components
- Portable, self-contained
- Heavy duty front panel speaker
- Rugged, sea worthy housing
- External power and charging jack
- Easy access to rechargeable batteries

DESCRIPTION

The DRS-100 (MOD B) Diver Recall System/Hydrophone consists of a self-contained control module housed in a rugged #63 Underwater Kinetics case (O-ring sealed w/relieve valve), a transducer attached to 25 feet of cable, two 12 volt maintenance free/rechargeable batteries, 110 volt/60 cycle battery charger and operators manual. The system can operate in two modes; a) emit a constant or intermittent tone or send audible voice communications to recall or talk to the diver/s. The user can also send music and/or data via the front panel LINE IN jack. b) Listen to noises (man made and/or biological) picked up via the transducer. Additionally, you can record the sounds via the record out jack located on the front panel. All underwater listeners, within range, receive the signal via their ear (divers need no special equipment). To transmit voice with the DRS-100, simply depress the push-to-talk button located on the front panel and talk into the front panel speaker (optional hand held microphone available). Your voice is then transmitted through-water to all divers within range. The DRS-100 is a must for all SCUBA diving operations.

Input Voltage:	24 vdc
Input Current:	7 amps max.
Idle Current:	75 mA
Transmit Power:	Recall and Tone: 132 Watts Voice: 65 watts
Frequency Response	
Transmit:	500 Hz to 4,000 Hz
Receive:	500 Hz to 10,000 Hz
Microphone:	Optional hand held, Push-to-talk
Transmit Mode:	Front panel, PTT button
Shipping Weight:	30 lbs. (control module = 13 lbs, transducer = 13 lbs.)

Recall Oscillation Rate:	5 Hz
Beam Pattern:	Omnidirectional
Transducer Cable:	25 feet
Transducer:	Anodized aluminum housing with ceramic piston.
Receiver Gain:	Greater than 60 dB
Battery Charger:	110 Volt/60 cycle (other voltages available for Export countries).



ELECTRO PRODUCTS

ELECTRO PRODUCTS

Underwater Electrical Connectors

INSTALLATION, MAINTENANCE, AND LUBRICATION INSTRUCTIONS

These instructions are applicable for Series 51, 53, B51, B53, 59, 510, 52, 610 and 41 products.

LUBRICATION

To optimize the performance of these products, pins and sockets of mating connectors must be lubricated with silicone grease, (e.g. Dow Corning #4 or General Electric Insulgrease® #635). Grease should be applied to the entire surface of each male contact pin. A small amount of silicone grease should be placed inside the entry hole of the female socket. Products must be relubricated on a regular maintenance cycle.

MATING AND UNMATING

Connector must be well lubricated. Insertion should be accomplished with as little flexing as possible. Separation of multi-conductor connectors can be aided by flexing the connector head up to 15° to help the separation process. Flexing beyond 15° must be avoided.

MOUNTING OF BULKHEAD PENETRATORS

For 59 and 510 Series — Drill holes with sufficient clearance for diameter of threaded body. Coat the rubber skirt on the bottom of connector with silicone grease to insure a good seal. Install washer and jam nut from low pressure side with sufficient pressure to keep connector from turning. Extreme bending of connector during mating may temporarily affect the seal.

For 53 and 41 Series — Drill and tap hole to match thread size of connector. Lubricate the O-ring with silicone grease to improve seal. Torque down hand-tight and, then add 1/4 turn more with a wrench.

Bulkhead connectors must be installed with pigtailed on low pressure side of bulkheads or interior of vessels. Pressure on pigtail side must not exceed the pressure on external side of connector.



AQUA TECH Stocks All Popular styles of "CROUSE-HINDS" Connectors. Call for Special Applications and needs. We are here to serve you.

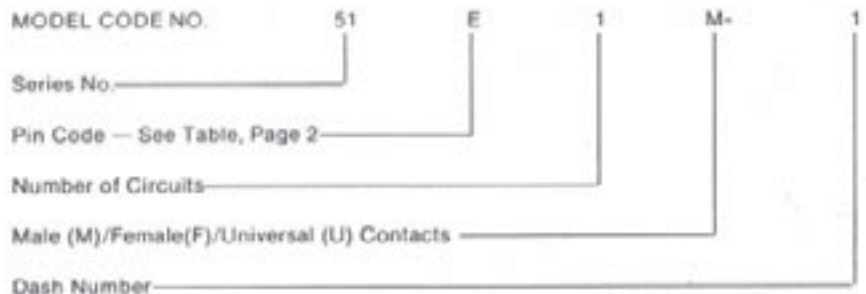


ELECTRICAL SPECIFICATIONS:

- Guaranteed dry seal insulation resistance is 100 megohms at 500 V-DC, contact-to-contact, or contact-to-ground when plugged in sea water.
- Hi-Pot Specification is 1200 Volts D.C.
- Beryllium copper contact resistance less than .005 ohms.

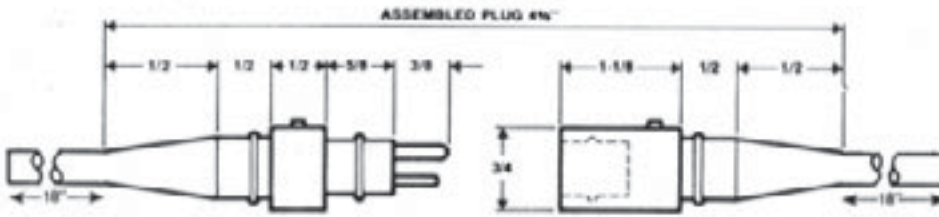


TYPICAL CATALOG NUMBER



WP SERIES CONNECTORS

Waterproof Connectors WP Series

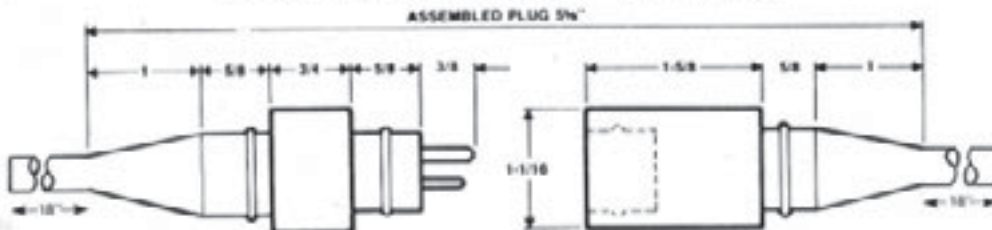


FACE VIEW				LOCKING SLEEVES
FEMALE CONTACTS	WP-2-FS 1-#10	WP-3-FS 1-#10	WP-4-FS 1-#10	58FLS-1
MALE CONTACTS	WP-2-MP 1-#14	WP-3-MP 2-#14	WP-4-MP 3-#16	58MLS-1
VOLTS/AMPS CABLE	300/7 18/2 SJO	300/7 18/3 SJO	300/7 18/4 SJO	

SJO=MEDIUM-DUTY CABLE

SO= HEAVY-DUTY CABLE

Waterproof Connectors—WP Series



FACE VIEW				LOCKING SLEEVES
FEMALE CONTACTS	WPS-3-FS 1-#10	WPS-4-FS 1-#10	WPS-6-FS 1-#14	58FLS-2
MALE CONTACTS	WPS-3-MP 1-#14	WPS-4-MP 3-#14	WPS-6-MP 5-#16	58MLS-2
VOLTS/AMPS CABLE	600/7 16-3 SO	600/7 18/4 SO	300/7 18/6 SO	

SJO=MEDIUM-DUTY CABLE

SO= HEAVY-DUTY CABLE

DESCRIPTION:

The WP and WPS series are transferred moulded from the same specially compounded neoprene as used with the underwater connectable line of connectors. All WP and WPS connectors are vulcanized directly to the cable to provide a positive seal at all pressures up to 20,000 psi.

TYPICAL APPLICATIONS:

- Underwater instrumentation & Control Systems.
- Underwater Cameras.
- Underwater Lighting Systems.
- Underwater Habitats.

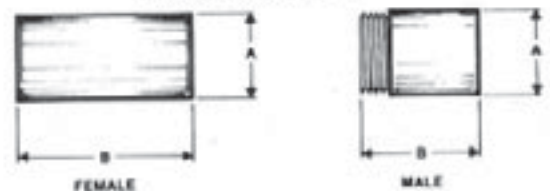
DUMMY PLUGS:

Dummy Plugs (Caps) are available for purposes of sealing off connectors when not in use and also when possible environmental exposure could damage the connector. To order write **DO** after connector designation.

QUALITY ASSURANCE:

WP and WPS connectors are designed to meet highest standards of reliability for this type connector.

LOCKING SLEEVES



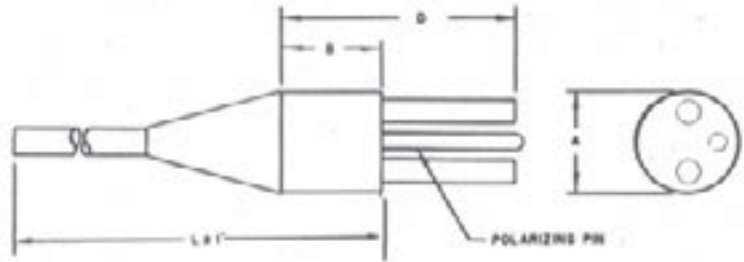
AQUA TECH Stocks All Popular styles of "CROUSE-HINDS" Connectors. Call for Special Applications and needs. We are here to serve you.

		DIMENSION TABLE		APPLICATION TABLE
		A	B	
FEMALE MALE	58 FLS-1	1"	1-3/8"	WP-2, 3 & 4 FS
	58 MLS-1	1"	5/8"	WP-2, 3 & 4 MP
	58 FLS-2	1-3/8"	1-7/8"	WPS-3, 4 & 6 FS
	58 MLS-2	1-3/8"	7/8"	WPS-3, 4 & 6 MP

NOTES: Unless otherwise specified, dimensions are nominal.

SERIES 51 CONNECTORS

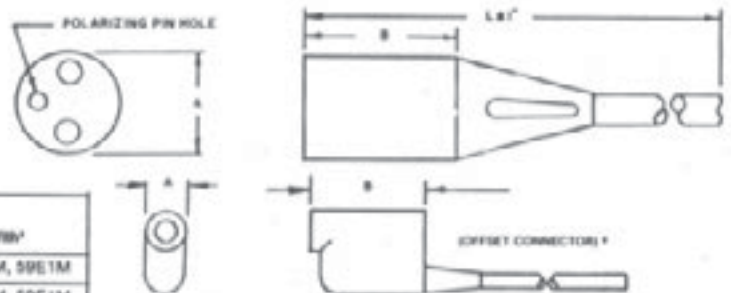
Series 51 Male Connector "Underwater Pluggable"



Model	No. of Contacts	No. of Pins	Max. Volts	Contacts Per Pin	Rating Amper ¹	Wire Size AWG	A in.	B in.	D in.	L ± 1 in.	Mates With ²
51E1M-1	1	1	230	1	15	16	7/16	1	2	24	51E1F, 53E1F, 59E1F, Series 54 & 84 J Box
51E1M-80	1	1	230	1	15	16	5/8	1-9/16	2-9/16	24	51E1F, 53E1F, 59E1F, Series 54 & 84 J Box
51H1M-1	1	1	440	1	60	8	1	1-1/2	3-1/2	36	51H1F, 53H1F, Series 54 J Box
51E2M-1	2	2	230	1	15	16	1	3/4	1-3/4	24	51E2F, 53E2F, Series 54 J Box
51F2M-1	2	1	115	2	7.5	18	7/16	1	2	24	51F2F, 53F2F, 59F2F, Series 54 & 84 J Box
51F2M-80	2	1	115	2	7.5	18	5/8	1-9/16	2-9/16	24	51F2F, 53F2F, 59F2F, Series 54 & 84 J Box
51E3M-1	3	3	230	1	15	16	1	3/4	1-3/4	24	51E3F, 53E3F, Series 54 J Box
51H3M-1	3	3	440	1	60	6	2	1-1/2	3-1/2	36	51H3F, 53H3F, Series 54 J Box
51L3M-1	3	3	440	1	100	4	2-1/2	2	4-3/8	36	51L3F, 53L3F, Series 54 J Box
51E4M-1	4	4	230	1	15	16	1-1/4	3/4	1-3/4	24	51E4F, 53E4F, Series 54 J Box
51F4M-1	4	2	115	2	7.5	18	1	3/4	1-3/4	24	51F4F, 53F4F, Series 54 J Box
51H4M-1	4	4	440	1	60	6	2	1-1/2	3-1/2	36	51H4F, 53H4F, Series 54 J Box
51L4M-1	4	4	440	1	85	4	2-1/2	2	4-3/8	36	51L4F, 53L4F, Series 54 J Box
51F6M-1	6	3	115	2	7.5	18	1-1/4	3/4	1-3/4	36	51F6F, 53F6F, Series 54 J Box
51F8M-1	8	4	115	2	7.5	18	1-1/4	3/4	1-3/4	36	51F8F, 53F8F, Series 54 J Box

- NOTES
1. Per Contact
 2. Add DO for dummy connector, all circuits open.
Add DS for dummy connector, all circuits shorted or paired as indicated.
- Unless otherwise specified dimensions are nominal.

Series 51 Female Connector "Underwater Pluggable"

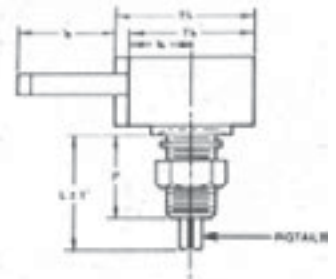
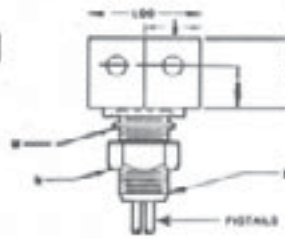


Model	No. of Contacts	Max. Volts	Rating Amper ¹	Wire Size AWG	A in.	B in.	L ± 1 in.	Mates With ²
51E1F-1	1	230	15	16	3/8	1-1/8	24	51E1M, 53E1M, 59E1M
51E1F-80	1	230	15	16	5/8	1-9/16	24	51E1M, 53E1M, 59E1M
51H1F-1	1	440	60	8	1	3-3/4	36	51H1M, 53H1M
51E2F-1	2	230	15	16	1	1-1/8	24	51E2M, 53E2M
51F2F-1	2	115	7.5	18	7/16	1-1/8	24	51F2M, 53F2M, 59F2M
51F2F-10	2	115	7.5	18	5/8	1-9/16	24	51F2M, 53F2M, 59F2M
51E3F-1	3	230	15	16	1	1-1/8	24	51E3M, 53E3M
51H3F-1	3	440	60	6	2	2-1/4	36	51H3M, 53H3M
51L3F-1	3	440	100	4	2-1/2	2-3/8	36	51L3M, 53L3M
51E4F-1	4	230	15	16	1-1/4	1-1/8	24	51E4M, 53E4M
51F4F-1	4	115	7.5	18	1	1-1/8	24	51F4M, 53F4M
51H4F-1	4	440	60	6	2	2-1/4	36	51H4M, 53H4M
51L4F-1	4	440	85	4	2-1/2	2-3/8	36	51L4M, 53L4M
51F6F-1	6	115	7.5	18	1-1/4	1-1/8	36	51F6M, 53F6M
51F8F-1	8	115	7.5	18	1-1/4	1-1/8	36	51F8M, 53F8M

AQUA TECH Stocks All Popular styles of "CROUSE-HINDS" Connectors. Call for Special Applications and needs. We are here to serve you.

SERIES 510 CONNECTORS

Series 510 Two Pin Male/Female/Universal Connector Right Angle Connector "Underwater Pluggable"



Model	No. of Circuits	No. of Pins or Sockets	Max. Volts	No. of Circuits Per Pin or Socket	Amps Per Connector (Max.)	Wire Size AWG	P Inch	L Inch	E Thread	Mates With
S10E2M or F or U-4	2	1 1 1/1	230	1	15	18	1/2	12	7/16-20	S2E2F or M or U-1
S10E2M or F or U-5	2	1 1 1/1	230	1	15	18	3/4	12	7/16-20	S2E2F or M or U-1
S10E2M or F or U-6	2	1 1 1/1	230	1	15	18	1	12	7/16-20	S2E2F or M or U-1
S10F4M or F or U-4	4	1 1 1/1	115	2	7.5	18	1/2	12	7/16-20	S2F4F or M or U-1
S10F4M or F or U-5	4	1 1 1/1	115	2	7.5	18	3/4	12	7/16-20	S2F4F or M or U-1
S10F4M or F or U-6	4	1 1 1/1	115	2	7.5	18	1	12	7/16-20	S2F4F or M or U-1

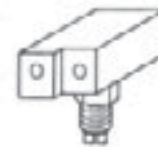


MALE

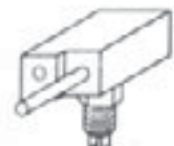
GENERAL SPECIFICATIONS

- Series 510 right angle receptacles are designed for bulkhead mounting where space is limited. Exclusive construction of these patented WATERMATE™ electrical connectors permits underwater plugging and unplugging with electrical power de-energized.
- Pressure rated up to 5,000 psi or equivalent to maximum 11,000 feet of sea water. (Optionally available to 20,000 psi).
- Pressure balanced for easy engagement and disengagement in high pressure environments.
- Body is specially formulated neoprene rubber. Contacts are beryllium copper.
- Longer shanks (P) and pigtail (L) lengths are optionally available.
- Electrical specification similar to Series 51 and 53.

Bulkhead connectors must be installed with pigtails on low pressure side of bulkheads or interior of vessels. Pressure on pigtail side must not exceed the pressure on external side of connector.



FEMALE



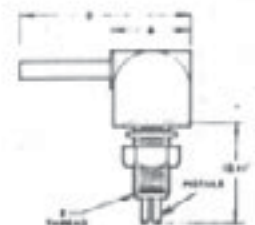
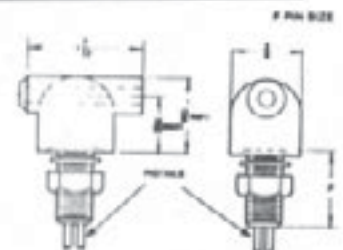
UNIVERSAL

Series 59 Single Pin Male/Female Right Angle Connectors "Underwater Pluggable"

Model	No. of Circuits	No. of Pins or Sockets	Max. Volts	Pin or Socket Dia. Inches	Circuits Per Pin or Socket	Amps Per Connector (Max.)	Wire Size AWG	P ± 1/32 Inch	B Inch	D Inch	E Thread	Mates With*
S59F2M or F-1	2	1	115	3/16	2	7.5	18	1/2	13/16	1-13/16	3/8-24	S1F2F or M
S59F2M or F-2	2	1	115	3/16	2	7.5	18	3/4	13/16	1-13/16	3/8-24	S1F2F or M
S59F2M or F-3	2	1	115	3/16	2	7.5	18	1	13/16	1-13/16	3/8-24	S1F2F or M
S59F2M or F-4	2	1	115	3/16	2	7.5	18	1/2	13/16	1-13/16	7/16-20	S1F2F or M
S59F2M or F-5	2	1	115	3/16	2	7.5	18	3/4	13/16	1-13/16	7/16-20	S1F2F or M
S59F2M or F-6	2	1	115	3/16	2	7.5	18	1	13/16	1-13/16	7/16-20	S1F2F or M

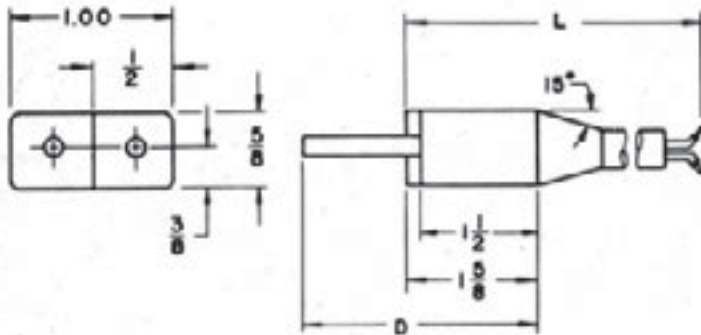
GENERAL SPECIFICATIONS

- Series 59 right angle receptacles are designed for bulkhead mounting where space is limited. Exclusive construction of these patented WATERMATE™ electrical connectors permits underwater plugging and unplugging with electrical power de-energized.
- Pressure rated up to 10,000 psi or maximum 22,000 feet of sea water. (Optional to 20,000 psi)



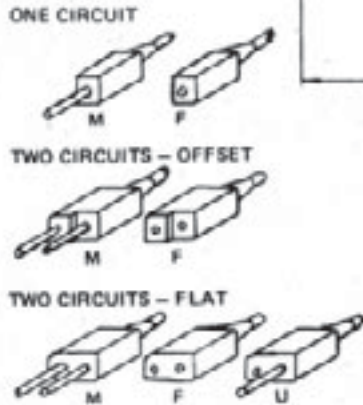
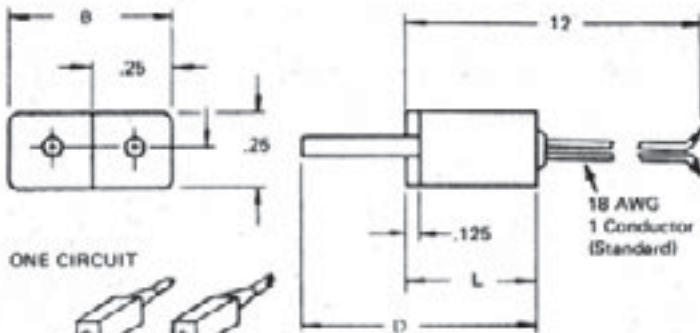
SERIES 52 CONNECTORS

Series 52 Two Pin Male/Female/Universal Connector Connector "Underwater Pluggable"



Model	No. of Circuits	No. of Pins or Sockets	Max. Volts	No. of Circuits Per Pin or Socket	Amps Per Connector (Max.)	Wire Size AWG	D Inch	L 1 Inch	Mates With
52E2M or F or U-1	2	2 2 2/2	230	1	15	16	2-1/2	24	52E2F or M or U, 510E2F or M or U
52F4M or F or U-1	4	2 2 2/2	115	2	7.5	18	2-1/2	24	52F4F or M or U, 510F4F or M or U

Miniature Connectors Series 56 Male/Female/Universal "Underwater Pluggable" (20,000 psi Rated)



Model	No. of Circuits	No. of Pins or Sockets	Max. Volts	Face Style	Amps Per Connector (Max.)	Wire Size AWG	B Inch	D Inch	L Inch	Mates With
56B1 M or F-1	1	1 1 --	230	Flat	7.5	18	.25	1.56	1.000	56B1 M or F-1
56B2 M or F-52	1	2 2 --	230	Offset	7.5	18	.50	1.87	1.125	56B2 M or F-52
56B2 M or F-1	2	2 2 --	230	Flat	7.5	18	.50	1.64	1.080	56B2 M or F-1
56B2U-1	2	-- -- 1/1	230	Flat	7.5	18	.50	1.64	1.080	56B2U-1

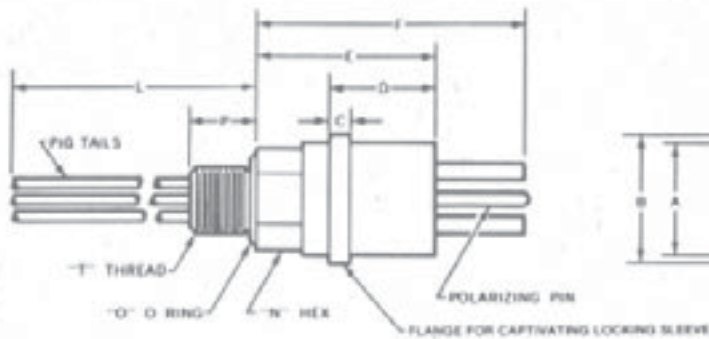
GENERAL SPECIFICATIONS

- Exclusive construction of these patented WATERMATE™ electrical connectors permits underwater plugging and unplugging with electrical power de-energized.
- Pressure rated up to 20,000 psi or maximum 45,000 feet of sea water.
- Pressure balanced for easy engagement and disengagement at high pressure.
- Body is specially formulated neoprene rubber. Contacts are beryllium copper.
- Ad DO to base model number for dummy connector, all circuits open.
Ad DS to base model number for dummy connector, both circuits shorted.
- Standard leads are #18 AWG — 1 conductor Hypalon insulated wire. Connectors can be supplied on 2 conductor cords as specials.



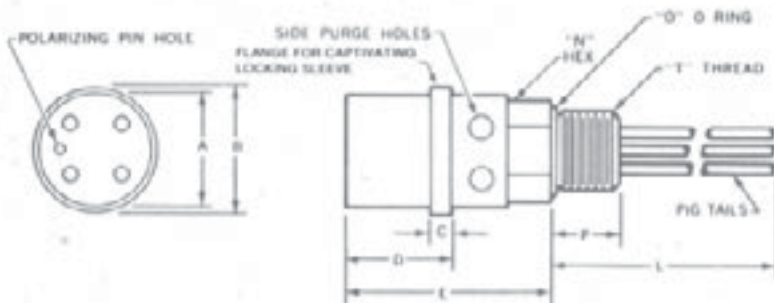
SERIES B53 CONNECTORS

Series B53 Male Connector "Underwater Pluggable"



Model	No. of Connectors	No. of Pins	Volts Max.	Wire Size AWG	Rating Amper*	A Dia.	B Dia.	C	D	E	F	O	L In.	P	T	N	Mates With
B53E1M-1	1	1	230	16	15	.62	.82	.25	1.19	2.00	3.00	2-015	12	.50	1/2-20 UNF	7/8	B51E1F-1
B53L1M-1	1	1	440	1	175	1.25	1.45	.25	1.19	2.50	4.87	2-122	12	1.00	1-14 UNF	1-1/2	B51L1F-1
B53E2M-1	2	2	230	16	15	1.00	1.20	.25	1.19	2.00	3.00	2-015	12	.50	1/2-20 UNF	7/8	B51E2F-1
B53F2M-1	2	1	115	18	7.5	.62	.82	.25	1.19	2.00	3.00	2-015	12	.50	1/4-20 UNF	7/8	B51F2F-1
B53E3M-1	3	3	230	16	15	1.00	1.20	.25	1.19	2.00	3.00	2-015	12	.50	1/2-20 UNF	7/8	B51E3F-1
B53L3M-1	3	3	440	4	100	2.50	3.00	.37	1.87	5.00	6.37	2-136	12	1.50	1-3/4-12 UNF	2-1/2	B51L3F-1
B53E4M-1	4	4	230	16	15	1.25	1.45	.25	1.19	2.00	3.00	2-019	12	.75	3/4-16 UNF	1-1/8	B51E4F-1
B53F4M-1	4	2	115	18	7.5	1.00	1.20	.25	1.19	2.00	3.00	2-015	12	.50	1/2-20 UNF	7/8	B51F4F-1
B53L4M-1	4	4	440	4	100	2.50	3.00	.37	1.87	5.00	6.37	2-136	12	1.50	1-3/4-12 UNF	2-1/2	B51L4F-1
B53F6M-1	6	3	115	18	7.5	1.25	1.45	.25	1.19	2.00	3.00	2-019	12	.75	3/4-16 UNF	1-1/8	B51F6F-1
B53F8M-1	8	4	115	18	7.5	1.25	1.45	.25	1.19	2.00	3.00	2-019	12	.75	3/4-16 UNF	1-1/8	B51F8F-1

Bulkhead connectors must be installed with pigtailed on low pressure side of bulkheads or interior of vessels. Pressure on pigtail side must not exceed the pressure on external side of connector.



Series B53 Female Connector "Underwater Pluggable"

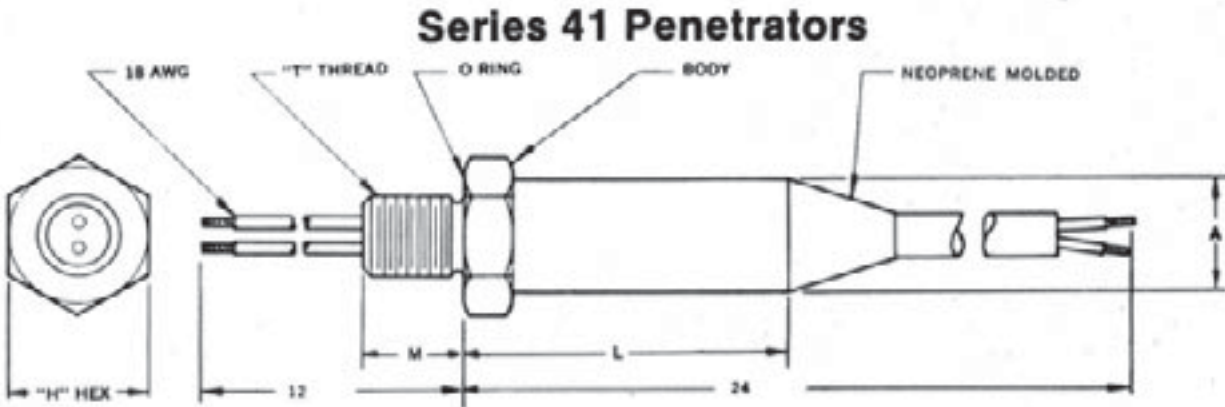
NOTES

1. Per Contact
2. Add DO for dummy connector, all circuits open.
Add DS for dummy connector, all circuits shorted or paired as indicated.
Unless otherwise specified dimensions are nominal.

Model	No. of Connectors	Max. Volts	Wire Size AWG	Rating Amper*	A Dia.	B Dia.	C	D	E	O	L In.	P	T	M	Mates With
B53E1F-1	1	230	16	15	.62	.82	.25	1.19	2.31	2-015	12	.50	1/2-20 UNF	7/8	B51E1M-1
B53L1F-1	1	440	1	175	1.25	1.95	.25	1.19	5.12	2-122	12	1.00	1-14 UNF	1-1/2	B51L1M-1
B53E2F-1	2	230	16	15	1.00	1.20	.25	1.19	2.31	2-015	12	.50	1/2-20 UNF	7/8	B51E2M-1
B53F2F-1	2	115	18	7.5	.62	.82	.25	1.19	2.31	2-015	12	.50	1/2-20 UNF	7/8	B51F2M-1
B53E3F-1	3	230	16	15	1.00	1.20	.25	1.19	2.31	2-015	12	.50	1/2-20 UNF	7/8	B51E3M-1
B53L3F-1	3	440	4	100	2.50	3.00	.37	1.87	6.50	2-136	12	1.50	1-3/4-12 UNF	2-1/2	B51L3M-1
B53E4F-1	4	230	16	15	1.25	1.45	.25	1.19	2.31	2-019	12	.75	3/4-16 UNF	1-1/8	B51E4M-1
B53F4F-1	4	115	18	7.5	1.00	1.20	.25	1.19	2.31	2-015	12	.50	1/2-20 UNF	7/8	B51F4M-1
B53L4F-1	4	440	4	100	2.50	3.00	.37	1.87	6.50	2-136	12	1.50	1-3/4-12 UNF	2-1/2	B51L4M-1
B53F6F-1	6	115	18	7.5	1.25	1.45	.25	1.19	2.31	2-019	12	.75	3/4-16 UNF	1-1/8	B51F6M-1
B53F8F-1	8	115	18	7.5	1.25	1.45	.25	1.19	2.31	2-019	12	.75	3/4-16 UNF	1-1/8	B51F8M-1

AQUA TECH Stocks All Popular styles of "CROUSE-HINDS" Connectors. Call for Special Applications and needs. We are here to serve you.

SERIES 41 PENETRATORS



Model Number	No. of Circuits	L ± 1/32 in.	H ± 1/32 in.	A ± 1/32 in.	T	"O" Ring	M ± 1/32 in.	Wire Size AWG
41-02	2	1-3/4	3/4	3/4	7/16-20 NF	2-014	1/2	16
41-03	3	2-3/16	1-1/8	7/8	5/8-18 NF	2-019	1/2	16
41-04	4	2-3/16	1-1/8	7/8	5/8-18 NF	2-019	1/2	18
41-06	6	2-3/8	1-1/4	1-1/8	7/8-14 UNF	2-021	1/2	18
41-08	8	2-3/8	1-1/4	1-1/8	7/8-14 UNF	2-021	1/2	18
41-12	12	3-1/8	1-1/2	1-1/4	1-14 UNF	2-122	7/8	18

APPLICATION

The Series 41 Penetrators are suitable where a watertight electrical penetration is required through a bulkhead.

CONSTRUCTION

Series 41 Penetrators consist of the penetrator stainless steel body, a length of molded cable on the high pressure side and leads on the low pressure side. Series 41 Penetrators feature an internal "waterstop" construction which prevents wicking of water through the penetrator leads, even if the molded section is cut completely through.

This unique construction is pressure rated up to 20,000 psi or maximum 45,000 feet of sea water.

OPTIONS AND SPECIALS

To fit the wide range of possible applications, the 41 Series Penetrators are available with a broad selection of options, as follows:

- **Body** Stainless steel is standard; other materials optional.*
- **Thread** Other thread sizes with length as required.*
- **Wire Length** The wire length on the high or low pressure side can be made as long as desired.*
- **Termination** Any compatible connector or junction box may be molded to the cable.*
- **Number of Wires** Designs are available for up to 168 conductors per penetrator.*

*Optional at extra cost.

IMPORTANT NOTE

Penetrators must be installed with pigtails on low pressure side of bulkheads or interior of vessels. Pressure on pigtail side must not exceed the pressure on external side of penetrator.

DIVING HOSE AND TAPES

Barfell hose, the Diver's choice when a positive buoyant, kink and twist resistant hose is needed. This hose is easy for the tender to roll out and reel in. This hose is resistant to contaminated water, resist ultra violet breakdown, can withstand stretching and continuous pressurization without nylon breakdown.



The inner wall construction is AFDA approved, rugged terylene reinforced, both braided and longitudinal to prevent stretch. Outer cover is abrasion resistant polymer. The hose is yellow for easy tracking of the hose by the tender.

Aqua Tech Dive Center Umbilical Assembly

Aqua Tech Dive Center has been involved in manufacturing umbilicals for over 25 years. Our commercial sales staff has extensive experience using as well as assembling umbilicals. If you have questions regarding the use or assembly of an umbilical, call or email, we are here to serve you.



Aqua Tech can manufacture umbilicals to our specifications or yours. Please see our custom order form on page 110.

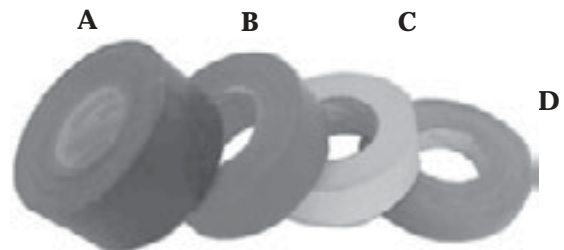


Aqua Tech has all the parts in stock. This allows for immediate assembly, testing, and shipping of your umbilical.

Polyken Adhesive Tapes

Polyken Brand Tapes serve a wide range of Technical Tape and Coating applications, across industries as diverse as aerospace, automotive, pipeline, heating & ventilation, commercial diving, military, and medical. Polyken products are engineered to meet the specific requirements of each of these demanding applications. The Polyken brand is recognized around the world as a high quality, engineered solution to customers requirements.

- | | | |
|--------------------------|--------------|------------|
| A. Black Heavy Duty Tape | 3" x 60 yds. | TAPxxxxxxx |
| B. Green Riggers Tape | 2" x 60 yds. | TAP2312x60 |
| C. White Umbilical Tape | 2" x 60 yds. | TAP8272x60 |
| D. Green Riggers Tape | 2" x 60 yds. | TAP2311x60 |



There are many sizes and types available, Please call for additional information.

Tapes Not Shown

- | | | |
|-----------------------|----------------|---------------|
| Black Electrical Tape | 3/4" x 60 yds. | TAP101 |
| Silver Duct Tape | 2" x 60 yds. | TAP203 |
| Red Duct Tape | 2" x 60 yds. | TAPTPI328-RED |

Hose, Umbilical

DIVERS BREATHING HOSE

Gates 33HB Divers Hose GAT33HB



Gates Divers Hose is the Bellwether hose of the commercial diving industry. Used and relied upon worldwide on a daily basis. 33-HB can be used in pneumo applications, umbilical, and any application where long lengths are required.

Made out of black synthetic rubber, fiber braid reinforcement, abrasion and oil resistant, anti-blistering treated, with a temperature range of -40 degrees F to +200 degrees F.



Hose I.D.	Hose O.D.	Working Pressure	Min. Bend Radius	Weight
3/8" (9.5 mm) 1/2" (12.7 mm)	.75" (19.1 mm) .94" (23.8 mm)	1125 psi (80 Kg/CM2) 1000 psi (70 Kg/CM2)	4" (102 mm) 5" (127 mm)	21 lbs. per 100 ft. 31 lbs. per 100 ft.

Synflex 34BA Breathing Air Hose CHExxx



Synflex can be used for diving applications, Hazmat, confined environment, and sand-blasting. Used and relied upon worldwide on a daily basis.

The tube is a seamless dual walled construction with a polyester liner and PVC backing.

Fiber reinforced with at least 6 longitudinal synthetic fibers spaced evenly around the circumference of the core tube.

The hose cover is a smooth, seamless, perforated thermoplastic PVC that is bonded to the reinforcement. Standard color is yellow, other colors available on request.

Hose I.D.	Hose O.D.	Working Pressure	Min. Bend Radius	Weight	Temperature Range
3/8" (9.5 mm)	.697"	250 psi (17 Bar)	1.5"	13.65 lbs. per 100 ft.	-15 degrees F to 150 degrees F 20 degrees C to 88 degrees C

AQUA TECH

comsales@divecenter.com / milsales@divecenter.com
Toll free 1-800-345-3252 / Fax 619-237-1886

www.Divecenter.com

DIVING UMBILICALS

Spiral 4 Surplus Communication Cable

The best communication cable available to the diving industry.

All cable supplied by Aqua Tech is tested & inspected prior to shipping.

Aqua Tech stocks this cable on the original steel reels of 1,320 ft.. Shorter lengths available.

Specifications

4 conductor, 18 gauge (7/28 strands, copper), stainless steel protective braid, Polyethylene waterblock, thermoplastic jacket.

Weight & Dimensions		Reel Dimensions	
Cable (1,320 ft.)	97 lbs. (44 kg)	Height	18" (46 cm)
Cable wt. on reel	135 lbs. (61 kg)	Width	19" (48 c)
		Weight	38 lbs.(17kg)

Aqua Tech Order NoATS418 (length)

SO Communication Cable

18 AWG, 2 or 4 conductor, 16 strand. Synthetic rubber insulation with neoprene jacket. 60° C, 600 Volt, Stranded copper conductor.

- 4 Conductor4A-1804
- 2 Conductor.....4A-1802

SJO Communication Cable

18 AWG, 2 or 4 conductor, 16 Strand. Synthetic rubber insulation with neoprene jacket. 60° C, 300 volt, Stranded copper Conductor.

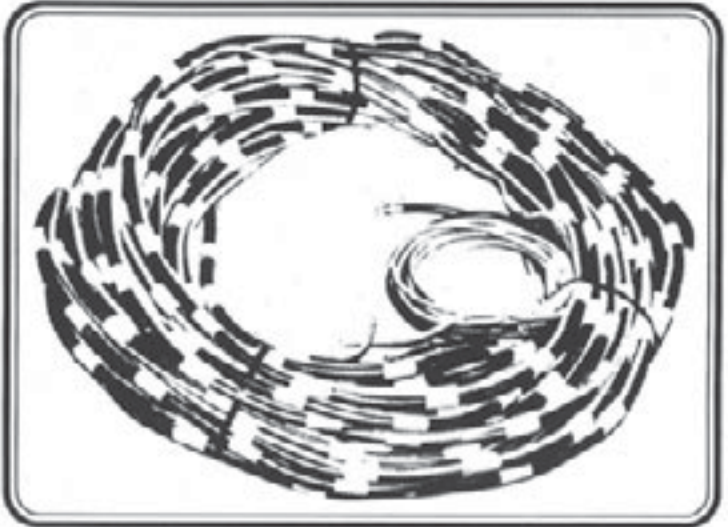
- 4 Conductor4B-1804
- 2 Conductor.....4B-1802

Welding Cable

A flexible conductor composed of fine, soft drawn bare copper wire, paper separator and neoprene jacket.

AWG Size	Stranding	Nom. O.D.	Current Ampere	Weight M ³ ft.lbs
1/0	1064/30	.61"	360	441
2/0	1323/30	.65"	450	526
3/0	1666/30	.72"	540	658

DIVING UMBILICALS IN STOCK FOR IMMEDIATE SHIPMENT. We Can manufacture to your specifications.. Thousands of feet in stock.



Poly-Pro Twisted Rope

Lightweight, strong and low stretch polypropolene. Floats, will not mildew, decay or rot. Made in the U.S.A.

- 3/8" yellow.....Polypro 3/8 Y
- 1/2" yellow.....Polypro 1/2 Y

Other colors available from Aqua Tech by special request...

Double Braid Nylon Rope

100% nylon. Nylon is an elastic cord with excellent recovery. A quality that gives it a shock absorbing action. Color is white. Made in the U.S.A.

- 3/8" 3/8" Ny Braid
- 1/2" 1/2" Ny Braid

Molded or Spliced Connectors Available

SO and SJO cables are available from Aqua Tech with molded waterproof connectors attached.

ATS418 cable is available from Aqua Tech with spliced waterproof connectors attached.

When ordering please state the cable part number and length, using "M" for molded connector and "S" for spliced connector.

Example: 4B-1804-300-M-4FS-2
SJO-18AWG-4 Conductor-300 ft.-Molded-4 Pin Female Waterproof Socket Connector on both ends of cable.

CUSTOM UMBILICAL ORDER FORM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

1. Divers Supply Hose

- 3/8" 33-HB Gates Divers Hose **A**
- 1/2" 33-HB Gates Divers Hose **B**
- 3/8" ATB13006FDA Shallow Water Hose **C**
- 3/8" 34BA-06 Synflex Divers Hose **D**
- Custom Specifications **E**

2. Divers Fitting End

- 3/8" Hose X Oxygen **A**
- 3/8" Hose X #6- JIC Female **B**
- 3/8" Hose X #8-JIC Female **C**
- 1/2" Hose X Oxygen **D**
- 1/2" Hose X Deepsea Submarine Female **E**
- Mil Spec **MIL-H-2815-F**
- 1/2" Hose X Deepsea Submarine Male **F**
- Mil Spec **MIL-H-2815-M**
- Custom Specifications **G**

3. Surface Fitting End

- Oxygen 9/16" **A**
- JIC6 **B**

4. Pneumo Hose Color

- Gray **G**
- Red **R**
- Yellow **Y**
- Blue **B**
- Custom Specifications **C**

5. Pneumo Hose Fittings

- 1/4" Hose X Oxygen Female 97R-B **A**
- 1/4" Hose X #4 JIC Female 97J-4-B **B**
- Custom Specifications **C**

6. Life Line Safety Member

- 3/8" Polypro 3 Standard American **A**
- 1/2" Polypro 3 Standard American **B**
- 3/8" Nylon Double Braided U.S.A. **C**
- 1/2" Nylon Double Braided U.S.A. **D**
- Custom Specifications **E**

7. Securing "D" Ring

- 2" X 1/4" S/S "D" Ring in Eye Splice **A**
- Custom Specifications **B**

Ordering your custom Umbilical to your exact specifications is easy. Match the box number to the part letter. Creating your own model number.

"Aqua Tech"
Custom Umbilicals
For All Applications:
 Hydraulic Tools
 Bell & Surface Support
 Deep & Shallow Water
 All Material In Stock



8. Quick Release Snap Shackle

- 5000 LB. Test Stainless Steel **A**
- 3000 LB. Test Stainless Steel **B**
- 5000 LB. Test Stainless Steel Schaefer **C**
- Custom Specifications **D**

9. Communications Cable

- S/S Braided 4 Cond. 18 Gauge **A**
- S.O. Cable 4 Cond. 18 Gauge **B**
- Custom Specifications **C**

10. Diver's End Connector

- 1-Banana Plug (2 Wire) **A**
- 4-Pin Waterproof male Connector **B**
- Custom Specifications **C**

11. Surface End Connector

- 1-Banana Plug (2 Wire) **A**
- 2-Banana Plugs (4 Wire) **B**
- 4-Pin Waterproof Female Connector **C**
- Hydro-Comm Connector (MIL-SPEC) **D**
- Custom Specifications **E**

12. Diver's Hose Length

Specify Length

13. Pneumo Hose Length

Specify Length

14. Comm. Wire Length

Specify Length

15. Tape Material

- 2" Silver Cloth Backed Duct Tape **A**
- 2" White Polyken Tape **B**
- Custom Specifications **C**

16. Certified Testing

- Certified Air Hose Pressure Test **A**
- Certified Pressure and Pull Test **B**
- Custom Specifications **C**

AQUA TECH DIVING HARNESSSES

Aqua Tech *Standard Diving Harness*
ATHARNESS



Buckle Close Up

"X-Plate" is an Exclusive copyright of Aqua Tech Dive Center. All Rights Reserved"

Aqua Tech designed Harness for the rigors of commercial diving. Aqua Tech incorporates our exclusive Stainless Steel X-Plate for superior strength and durability. 2 "D" rings, for secure attachment to the front of the diver. Comes in blue or black nylon.

Aqua Tech *Bell Diving Harness*
ATBELLHARNESS



Aqua Tech designed Bell Harness for the rigors of commercial and saturation diving. Aqua Tech incorporates our exclusive Stainless Steel X-Plate for superior strength and durability. Center strap with "D" ring and Jock strap slide. 2 "D" rings, for secure attachment to the front of the diver. Comes in blue or black nylon. Jockstrap not included.

Aqua Tech *Backpack Diving Harness*
ATBACKPACK



X-Plate

Aqua Tech designed Harness/Backpack commercial diving. This Harness incorporates our exclusive Stainless Steel X-Plate for superior strength and durability. 2 "D" rings, for secure attachment to the front of the diver. Strong rubber/nylon impregnated backpack for bail out bottle mounting. Jockstrap not included.

Aqua Tech *Bell Backpack Diving Harness*
ATBELLBACKPACK



Bell Center Strap



Jockstrap
ATJOCKSTRAP



48" Jockstrap

Aqua Tech designed Bell Harness/Backpack for commercial and saturation diving. This Harness incorporates our exclusive Stainless Steel X-Plate for superior strength and durability. Center strap with "D" ring and Jock strap slide. 2 "D" rings, for secure attachment to the front of the diver.. Strong rubber/nylon impregnated backpack for bail out bottle mounting. Jockstrap not included.

SAR & DIVING HARNESSSES

Standard Diving Harness

MILSHBLxx



Standard commercial diving harness. Has 2 front hook up "D" rings, for secure attachment to the front of the diver. Comes in blue or black nylon.



Bell Diving Harness

MILSHBLxx



This harness designed for bell or saturation diving. Has 2 front hook up "D" rings, elevated strap with hook up "D" ring located in the back between shoulder blades. With optional Jock Strap this "D" ring can be used to hoist an unconscious diver head first.

Backpack Diving Harness

MILSHBLxx



Commercial diving harness/backpack that has a strong flexible nylon/rubber backpack for bail out bottle mounting. Has 2 front hook up "D" rings for secure hose attachment to the front of the diver. Comes in blue or the more rugged black nylon.

Bell Backpack Diving Harness

MILBPKBELLxx



This Bell harness/backpack designed for bell or saturation diving. Has 2 front hook up "D" rings, elevated strap with hook up "D" ring located in the back between shoulder blades. With optional Jock Strap this "D" ring can be used to hoist an unconscious diver head first. Strong rubber/nylon backpack plate for bail out bottle mounting.

North Sea Diving Harness

MILBPKBELLNSEA



The North Sea backpack designed for bell or saturation diving. Has 2 front hook up "D" rings, elevated strap with hook up "D" ring located in the back between shoulder blades. This "D" ring can be used to hoist an unconscious diver head first. Double crotch strap support system with waist, shoulder, and double jock adjusters.

Lifesaving Systems

Surface Swimmer Harness

LIF204

NSN 4240-01-327-6185



U.S. Navy approved for all surface swimmers. Type 13 MIL-SPEC webbing used in the main harness. 304 Stainless steel used for all hardware components. 207 3-cord nylon thread used for structural stitching.

Lifesaving Systems

Aircrew Swimmer Harness

LIF205

NSN 4240-01-395-8413



U.S. Navy approved for all aircrew swimmers. Type 13 MIL-SPEC webbing used in the main harness. 304 or 316 Stainless steel used for all hardware components. 207 3-cord nylon thread used for structural stitching. Snaphook strap allows for dual recovery of swimmer and victim

MK 20 Harness

MILHARMARK20



U.S. Navy approved. Adjustable crotch strap, chest strap, and shoulder straps. All stainless steel hardware. High impact resistant plastic quick release buckles

BELTS & BUCKLES

Depth Compensating Buckle

INNWB0101



Innovative SCUBA depth compensating buckle

Stainless Buckle

TRIWB20



Heavy duty stainless steel buckle, with 3 webbing slots

Delrin Buckle

SHT2



Rugged delrin buckle

Stainless Buckle

TRIWB21



Standard stainless steel buckle, with 3 webbing slots

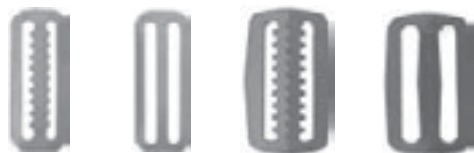
Stainless Wire Buckle

TRIWB40



Stainless steel 3 piece wire weight belt buckle. Neoprene belt is recommended

Weight Belt Slides



SHT1 Stainless SHT3 Stainless NAT18651 Delrin NAT18630 Delrin

Bare Lead Weight

(Weights Curved for comfortable fit.)



#2 lb.: SEAP2
#3 lb.: SEAP3
#4 lb.: SEAP4
#5 lb.: SEAP5
#6 lb.: SEAP6
#8 lb.: SEAP8
#10 lb.: SEAP10
#12 lb.: SEAP12

Coated Weight

(Weights Curved for comfortable fit.)



#2 lb.: SEAP2403
#3 lb.: SEAP3403
#4 lb.: SEAP4403
#5 lb.: SEAP5403
#6 lb.: SEAP6403
#8 lb.: SEAP8403
#10 lb.: SEAP10403
#12 lb.: SEAP12403

Soft Weight

(Lead shot bags)



#2 lb.: SEAPM2
#3 lb.: SEAPM3
#4 lb.: SEAPM4
#5 lb.: SEAPM5
#6 lb.: SEAPM6
#8 lb.: SEAPM8
#10 lb.: SEAP10
#12 lb.: SEAP12

Bullet Weight

SEAP21xx



Two pound bullet weights, available in black, neon yellow, neon green, royal blue, red, and neon pink

McNitt Ankle Weight

21xx



Ankle weights come in regular, 3.3 lbs.per pair. Long, 3.9 lbs. per pair. Double wrap, 9.9 lbs.per pair

Weight Mold

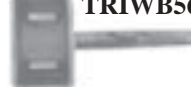
TRIWB55



Mold up to 4.5 lb. weights with this weight mold

Contoured Weight Mold

TRIWB56



Mold up to 14 lb. weights with this contoured weight mold

Weight Belt

ATWB



Standard nylon weight belt with delrin buckle

Mesh Weight Belt

ATWB



Mesh weight belt with individual pockets, and delrin zipper. Comes in 4, 5, 6, 7, and 8 pockets.

Bulk Belt Material

Bulk Nylon comes in 2' x 100'



NYLON WEBBING:
LOW200BLACK
LOW200RED
LOW200YELLOW
LOW200BLUE

NEOPRENE:
NAT18298 2'x 50'
NAT18300 2'x100'

Aqua Tech Commercial Lead Weights



#5 lb. Commercial Wt. bare lead: AT8005
#8 lb. Commercial Wt. bare lead: AT8008
#5 lb. With plate, nut, and bolts: AT8105
#8 lb. With plate, nut, and bolts: AT8108

Aqua Tech Commercial Weight Belts



Aqua Tech assembles commercial weight belts in house. This eliminates errors and allows us to customize to your personal specifications. The belt comes with or without suspenders. Standard weight is 25, 32 lbs and 40 lbs.. The belts are assembled using the least amount of #5 and #8 lb weights.

Weight Belt with suspenders, 25 lbs.	AT8025S
Weight Belt with suspenders, 32 lbs.	AT8032S
Weight Belt with suspenders, 40 lbs.	AT8040S
Weight Belt, 25 lbs. , 25 lbs.	AT8025I
Weight Belt, 32 lbs. , 32 lbs.	AT8032I
Weight Belt, 40 lbs. , 40 lbs.	AT8040I

Aqua Tech Commercial weight belt parts can be purchased separately. Contact Aqua Tech for Special applications.

Backing Plate & Screws.

AT8104



Commercial weight backing plate, screws, and nuts

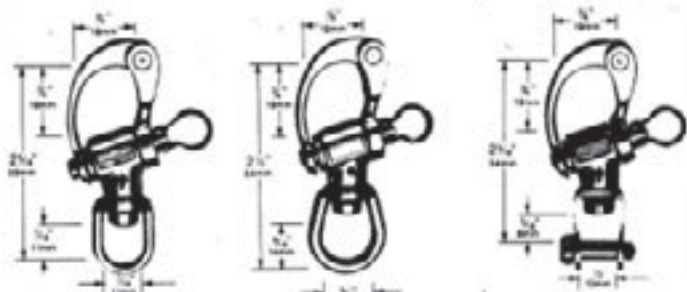
Aqua Tech Heavy Duty Buckle

AT8101



Heavy duty commercial weight buckle, brass. Comes with backing plates and screws

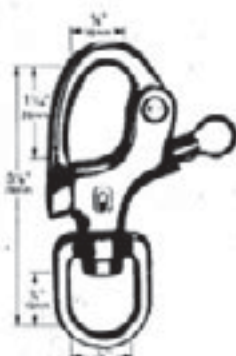
SNAP SHACKLES & HARDWARE



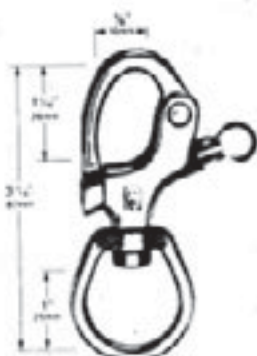
NF 16000S
(S Bail)
3000 lbs(1360kg)
2 oz(57g)

NF 16000FR
(FR Bail)
3000 lbs(1360kg)
2 1/2 oz(64g)

NF 16000P
(P Bail)
3000 lbs(1360kg)
2 1/2 oz(70g)
PIN DIA. 1/4"(6mm)



NF 11000S
(S Bail)
5000 lbs(2268kg)
4 oz(113g)



NF 11000FR
(FR Bail)
5000 lbs(2268kg)
4 1/2 oz(120g)

All of Nicro's Stainless snap shackles are made of investment cast 17-4PH stainless steel which yields a product that has both excellent corrosion resistance AND a high strength-to-weight-ratio.

IMPORTANT FEATURES:

- All hooks are individually X-Rayed (100%)
- Wide range of sizes and strengths
- Large selection of different bails and clevises
- Heavy springs on pull pins to prevent accidental opening
- Wide opening hook arms for quick, sure clearing of lines and fittings

LANYARD

Used to pull the bail pin when releasing a snap shackle.



ORDER (two per package) NICNF14600

UMBILICAL CLAMP



This cast bronze clamp permits the divers hose to be attached to the diver with a minimum of strain to the divers breathing umbilical. Order.....Hose Clamp



Stainless Steel Rings

Used to attach snap shackle to the divers hose in the absents of a clamp. Minimum order; box of 10 rings.

Stainless Steel Rings.

I.D.	Stock	
1 1/4"(32mm)	3/16"(5mm)	NF 10711
1 1/2"(38mm)	1/4"(6mm)	NF 10713
1 3/4"(44mm)	3/8"(8mm)	NF 10715



"D"-Rings, Stainless Steel

1/4" x 2-3/8"	AT4238
1/4" x 2-3/4"	AT4234



9. Safety Snap Hook. 1/8"(3mm) stainless steel stock. 3 1/4" L. Use for bow lines, lifting hooks, etc. Tensile strength 1500 lbs(680 kg). Wt. 3 oz(85g). I.D. 1/4"(3mm). NF 442

10. Fireman's Snap Hooks. Non-fouling, lightweight, stainless steel snaps used for safety harnesses, bow lines, or any situation where a quick, one-handed attachment is necessary. Strong spring keeps snap closed.

Length	O.A. Dia.	Wt.	
2 1/4"(57mm)	1/4"(6mm)	1 oz(28g)	NF 10511
3"(76mm)	3/8"(9mm)	2 1/2 oz(64g)	NF 10513
4"(102mm)	1/2"(12mm)	4 1/2 oz(128g)	NF 10515
5"(127mm)	3/4"(19mm)	8 1/2 oz(191g)	NF 10517

ROPE & CABLE

ROPE CONSTRUCTION

Twisted Poly Twisted Nylon Truck Rope

Solid Braid Nylon

Hollow-Braid Poly

Divecenter

Hank

Colette

Reel

Ball

anchor lines, shipping and trucking tie downs, hand lines, and as general-purpose cords.

Truck Rope. Colored black with distinctive orange marker yarn and internal manufacturer's identification tape. Approved and made to specifications of the trucking industry for all states. Black color improves resistance to deterioration from sunlight. Excellent general-purpose tie-down rope. Suggested industry uses: tie downs, well rope, anchor lines, golf course barriers, tarpaulin tie downs, temporary storage tents, and canopies.

Rope Size Diameter x Length	Packaging Configuration	Tensile Strength*	Safe Working Load†	Growe Rope Model	Stock No.
THREE STRAND TWISTED NYLON ROPE					
3/4" x 100'	Colette	1650 lbs	138 lbs	00121	2W736
3/4" x 100'	Colette	3700	308	03037	2W737
1/2" x 50'	Colette	6400	562	03038	2W738
1/2" x 100'	Colette	6400	562	03039	2W462
SOLID BRAID NYLON ROPE					
3/4" (#6) x 100'	Hank	800 lbs	80 lbs	00111	2W739
1/2" (#8) x 100'	Hank	1250	125	00115	2W740
1/2" (#8) x 500'	Reel	1250	125	06327	5W455
3/4" (#10) x 100'	Hank	1950	195	00117	2W741
3/4" (#10) x 300'	Reel	1950	195	05257	5W457
1/2" (#12) x 200'	Reel	2500	250	05258	5W456
1/2" (#16) x 250'	Reel	4000	400	05264	5W458
SEINE TWINE					
#18 x 550'	Ball	165 lbs	16.5 lbs	00090	5W454
THREE STRAND TWISTED POLYPROPYLENE ROPE					
3/4" x 1000'	Reel	800 lbs	80 lbs	05025	2W734
3/4" x 3000'	Reel	800	80	61W9Y	5W461
1/2" x 100'	Colette	1250	125	03031	2W728
1/2" x 100'	Reel	1250	125	05103	2W731
1/2" x 100'	Colette	2700	270	03027	2W729
1/2" x 600'	Reel	2700	270	05107	2W732
1/2" x 100'	Colette	4200	467	03033	2W730
1/2" x 600'	Reel	4200	467	05111	2W733
1/2" x 600'	Reel	6200	775	05113	5W460
1/2" x 600'	Reel	8500	1214	05115	5W459
HOLLOW BRAID POLYPROPYLENE ROPE					
1/2" x 500'	Reel	1200 lbs	120 lbs	05610	2W658
1/2" x 1000'	Reel	1200	120	05611	2W659
TRUCK ROPE					
3/4" x 100'	Colette	2700 lbs	270 lbs	15002	5W466
1/2" x 600'	Reel	2700	270	05614	5W464
1/2" x 100'	Colette	4200	467	15003	5W465
1/2" x 600'	Reel	4200	467	05618	5W463

(*) Approximate load of which new, unused rope breaks. Minimum is 10% less.
 (†) Maximum safe working load is the maximum load a rope should carry in situations where danger of life, bodily injury or valuable property. Dynamic loading occurs when rope is subjected to sudden extreme stress or shock loads; dynamic loading of a rope voids the figure given as a working load.

Swivel Eye Snaps

Available in zinc die cast, brass, galvanized malleable iron, burnished bronze, and stainless steel. The 3943T and 3915T series have stainless steel springs.

Stainless steel snaps are sand cast for corrosive atmospheres and where appearance is important. Malleable iron and bronze snaps conform to Navy Dwg. Z316852.

Material	Eye Dia.	Snap Open	O'ail	No.
Zinc Die Cast	3/4"	1/2"	3"	3943T1
Zinc Die Cast	1/2"	1/2"	3 1/2"	3943T2
Zinc Die Cast	3/4"	1/2"	3 1/2"	3943T3
Zinc Die Cast	3/4"	1/2"	3 1/2"	3943T4
Zinc Die Cast	1"	1/2"	3 1/2"	3943T5
Solid Brass	3/4"	3/4"	3 1/2"	3903T41
Solid Brass	1/2"	3/4"	3 1/2"	3903T42
Solid Brass	3/4"	3/4"	4 1/2"	3903T43
Cast Malleable Iron	1/2"	1/2"	3 1/2"	3903T12
Cast Malleable Iron	3/4"	1/2"	3 1/2"	3903T14
Cast Malleable Iron	1/2"	1/2"	3 1/2"	3903T16
Cast Malleable Iron	1/2"	3/4"	5 1/2"	3903T22
Burnished Bronze	3/4"	3/4"	3 1/2"	3903T24
Burnished Bronze	3/4"	3/4"	3 1/2"	3903T26
Burnished Bronze	3/4"	3/4"	5 1/2"	3903T28
Stainless Steel	3/4"	3/4"	3 1/2"	3715T41
Stainless Steel	1/2"	1/2"	3 1/2"	3715T42
Stainless Steel	1 1/2"	1/2"	4 1/2"	3715T43

Swivel Eye Trigger Snaps

Operate with one hand. Available in nickel plated zinc die cast, nickel plated cast malleable iron, burnished bronze, and stainless steel.

Material	Eye Dia.	Snap Open	O'ail	No.
Zinc Die Cast	3/4"	3/4"	2 1/2"	3819T11
Zinc Die Cast	1/2"	3/4"	2 1/2"	3819T12
Zinc Die Cast	3/4"	1/2"	2 1/2"	3819T13
Zinc Die Cast	3/4"	1/2"	2 1/2"	3819T16
Cast Malleable Iron	3/4"	1/2"	4"	3819T14
Cast Malleable Iron	1"	1"	4 1/2"	3819T15
Burnished Bronze	3/4"	3/4"	2 1/2"	3832T14
Stainless Steel	1/2"	1/2"	2 1/2"	3819T21
Stainless Steel	3/4"	1/2"	2 1/2"	3819T22

Rope End Sealer

Liquid vinyl seals ends of any thickness manila, cotton and synthetic rope. Use for newly cut rope to help prevent fraying. Colored red to eliminate searching for rope ends.

Also use to repair and patch canvas. Tough, flexible and permanent sealer is resistant to salt water, gas, oil, grease, alcohol and acids.

4-oz. can seals up to 100 rope ends.

No. 3843T14

Shrinkfast Rope Enders

Heat-shrinkable rope enders are a fast, economical solution to frayed, unraveled rope ends. Polyolefin, adhesive-lined tubing is ideal for use with manila, cotton, or synthetic ropes. Install with heat gun or flame from butane lighter. If an open flame itself should be used to shrink tubing. UL listed. Supplied in 4 foot lengths. Cut as needed.



Aqua Tech can help you with all your tie down needs. From string to cable, crimps to reels, manila to polypropylene, shackles to pelican clips!

WIRE ROPE, CLIPS & CLAMPS

Wire Rope Clips & Clamps



How to Use Wire Rope Clips

U-bolt clips must be installed correctly to obtain maximum holding power. Install U-bolt section of clip on dead or short end of rope, and saddle on live or long end of rope. Wrong installation of even one clip reduces efficiency of connection as much as 40%. For maximum holding power, clips should be installed 6 to 7 wire rope diameters apart. Never use clips to connect two straight lengths of rope.

U-Bolt Wire Rope Clips

CROSBY FORGED STEEL—For heavier duty applications than malleable iron. Forged steel saddle, steel U-bolt. 1/2" and 1/4" have cadmium plated bolts and nuts, rest have hot dipped galvanized finish.

STAINLESS STEEL—Resist corrosion from marine environments and many acids. Use with stainless steel cable. Drop forged, nonmagnetic Type 316 stainless steel bolt and saddle. Electro-polished finish. Meet Fed. Spec. QQ-S-763.



Wire Rope Dia.	Minimum Clips Per Fastening	Std. Pkg. Qty.	No.
1/8"	2		3465T11
1/4"	2		3465T12
3/8"	2		3465T13
1/2"	2		3465T14
5/8"	2		3465T15
3/4"	2		3465T16
7/8"	3		3465T17
1"	3		3465T18
1 1/8"	4		3465T19
1 1/4"	4		3465T21
1 1/2"	5		3465T22
1 3/4"	6		3465T41
1 7/8"	7		3465T42
2"	7		3465T43
2 1/2"	8		3465T44

Galvanized & Stainless Steel WIRE ROPE

Galva-Flex Wire Rope

6 x 37—FIBER CORE OR IWRC—Improved plow steel wire rope with excellent flexibility and high fatigue resistance due to the large number of small wires per strand. The 6 x 37 construction is more susceptible to crushing. This can be overcome by an independent wire rope core and by using well designed sheaves and grooved drums. This rope performs well in mildly corrosive environments. Applications are small drums and sheaves.

Core	Characteristics			
	Strength	Abrasion Resistance	Flexibility	Corrosion Resistance
Fiber	Moderate	Low	Excellent	Very Good
IWRC	Good	Moderate	Excellent	Very Good

Breaking Strength	Lbs.	No.
1/4"	4,940	3323T71
3/8"	10,980	3323T72
1/2"	19,260	3323T73
5/8"	30,000	3323T74
3/4"	42,800	3323T75

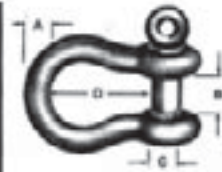


6 x 37 Fiber Core

Breaking Strength	Lbs.	No.
1/4"	5,300	3323T21
3/8"	11,800	3323T22
1/2"	20,600	3323T23
5/8"	32,200	3323T24
3/4"	48,000	3323T25



6 x 37 IWRC



Anchor Shackle With Screw Pin

Shackle Size	Work Load Limit, Lbs.	Inside Width at Pin, B	Pin Dia., C	Inside Length, D	No.
1/8"	667	3/8"	1/4"	1 1/4"	356T44
1/4"	1,000	1/2"	3/8"	1 3/4"	356T45
3/8"	1,500	7/32"	1/2"	1"	356T46
1/2"	2,000	21/32"	5/8"	1 1/4"	356T47
5/8"	3,000	21/32"	1/2"	1 1/4"	356T48
3/4"	4,000	13/16"	3/4"	1 1/4"	356T49
7/8"	6,500	1 1/4"	3/4"	2"	356T51
1"	10,000	1 1/4"	1"	2"	356T52
1 1/8"	13,000	1 1/4"	1"	2 1/2"	356T53
1 1/4"	17,000	1 13/16"	1 1/4"	3 1/2"	356T54
1 1/2"	19,000	1 13/16"	1 1/4"	4 1/2"	356T55
1 3/4"	24,000	2"	1 1/2"	4 1/2"	356T56
1 7/8"	28,000	2 1/4"	1 1/2"	4 1/2"	356T57
2"	34,000	2 3/4"	1 1/2"	5 1/2"	356T58
2 1/4"	50,000	2 3/4"	2"	5 1/2"	356T59
2 1/2"	70,000	3 1/4"	2 1/4"	7 1/4"	356T61



Chain Shackle With Screw Pin

Shackle Size	Work Load Limit, Lbs.	Inside Width at Pin, B	Pin Dia., C	Inside Length, D	No.
1/8"	1,000	15/32"	1/4"	1"	356T44
1/4"	1,500	17/32"	3/8"	1"	356T45
3/8"	2,000	17/32"	1/2"	1 1/4"	356T46
1/2"	3,000	21/32"	5/8"	1 1/4"	356T47
5/8"	4,000	13/16"	3/4"	1 1/4"	356T48
3/4"	6,500	1 1/4"	3/4"	2"	356T49
7/8"	10,000	1 1/4"	1"	2 1/2"	356T51
1"	13,000	1 1/4"	1"	2 1/2"	356T52
1 1/8"	17,000	1 11/16"	1 1/4"	3 1/2"	356T53
1 1/4"	19,000	1 13/16"	1 1/4"	3 1/2"	356T54
1 1/2"	24,000	2"	1 1/2"	3 1/2"	356T55
1 3/4"	28,000	2 1/4"	1 1/2"	4 1/2"	356T56
1 7/8"	34,000	2 3/4"	1 1/2"	5"	356T57
2"	50,000	2 3/4"	2"	5 1/2"	356T58
2 1/2"	70,000	3 1/4"	2 1/4"	6 1/4"	356T59

Wire Rope Thimbles



Heavy Pattern

Heavy pattern thimbles are for extra rugged service. Standard pattern thimbles are for standard service. This pattern aircraft thimbles are for light-duty applications. Stainless steel thimbles are for applications where corrosive atmospheres exist.

All thimbles listed below are constructed of stamped carbon steel or stainless steel. The carbon steel thimbles are hot dipped galvanized, except for the zinc-plated thimbles. The stainless steel thimbles are polished.

Standard Pattern Thimble

Wire Rope Dia.	Eye Opening Length		No.
	A	B	
GALVANIZED CARBON STEEL +			
1/4"	1 1/8"	1 1/4"	3494T11
3/8"	1 1/8"	1 1/4"	3494T12
1/2"	1 1/8"	1 1/4"	3494T13
5/8"	3"	1 1/2"	3494T14
3/4"	1 1/8"	1 1/4"	3494T15
7/8"	1 1/8"	1 1/4"	3494T16
1"	1 1/8"	2 1/2"	3494T17
1 1/8"	1 1/2"	2 1/2"	3494T18
1 1/4"	1 1/8"	3"	3494T19
1 1/2"	2"	3 3/4"	3494T21
1 3/4"	2 1/4"	3 3/4"	3494T22
2"	2 3/8"	4 1/4"	3494T23



FENDERS, BUOYS, & CHAINS

Polyform A-Series Buoys



Used for: Super yachts, Pleasure Boating, Cruise-ships, Fishing (nets), Fish Farming, Marking- and Anchor areas, Pipelines, Dredging, Geophysical Survey, Offshore, Agriculture, Fire Brigade, Navy (grey)

Buoy	Length	Dia.	Vessel Length
A-0	28CM	23CM	5 Meters or Less
A-1	39CM	31CM	3-7 Meters
A-2	51CM	40CM	5-9 Meters
A-3	62CM	49CM	7-14 Meters
A-4	73CM	60CM	9-18 Meters
A-5	94CM	76CM	14->18 Meters
A-6	119CM	94CM	18+ Meters
A-7	142CM	110CM	18+ Meters

CC-Series Multi Purpose Buoys



Buoy Length Dia.

CC-1	32.5CM	31CM
CC-2	42CM	40CM
CC-3	52CM	48.5CM
CC-4	62CM	60CM
CC-5	85CM	76CM
CC-6	109CM	94CM

SUPERFENDERS are the ultimate solution to protect your vessel from damage, caused by heavy sea or swell, used for: Heavy weather docking, stern to docking, swimming platform protection, boarding ladder protection, ocean swimming pools with shark netting, tender launching protection, diving lifting bags, etc..

- * Minimum Storage Space
- * Easy Handling and Light Weight
- * Very Strong and Long Lifetime
- * Can be used Vertical or Horizontal
- * Deflation or Inflation with vacuum cleaner or compressed air

Polyform FR, K, G-Series Fenders Heavy Duty Pneumatic Fenders



G-Series, F & K series not shown

FR-series: Ribbed fender, this ribbed construction ensures added strength and abrasion resistance, rope through the middle of the fender

K-series: Light weight fenders suitable for smaller size pleasure crafts, three rope holds.

G-series: Ribbed design for added strength and abrasion resistance, rope holds incorporating reinforcing grommets and added wall thickness. Inflation directly through the center hole of the valve screw.

All three series are moulded in one piece from tough, flexible Vinyl.

Standard colors: white and blue

Fender	Length	Dia.	Vessel Length
FR-1	38CM	15CM	3-7 Meters
FR-2	51CM	20CM	5-9 Meters
FR-3	66CM	25CM	7-14 Meters
FR-4	86CM	30CM	9-18 Meters
K-1	30CM	9CM	<3 Meters
K-2	38CM	11.5CM	3-5 Meters
K-3	51CM	14CM	3-7 Meters
G-2	40.7CM	11.7CM	<3 Meters
G-3	51.5CM	14.5CM	3-7 Meters
G-4	58.5CM	17CM	5-9 Meters
G-5	70.5CM	21.5CM	7-9 Meters



Hypalon Superfender

Buoy Length Dia.

A1	140CM	42CM
A2	275CM	42CM
A3	415CM	42CM
B1	140CM	65CM
B2	275CM	65CM
B3	415CM	65CM
C1	140CM	100CM
C2	275CM	100CM
C3	415CM	100CM
C3-FB	415CM	100CM
DI	140CM	135CM



Supreme quality twin-eye fender, moulded in one piece from tough, flexible vinyl, the larger F-Series are designed and manufactured for use offshore.

High energy absorption (up to 3.8 ton), the material is resistant to all weather conditions. The temperature range -20 degrees to +60 degrees C allows for application in Arctic as well as tropical zones.

Provided with the same rugged rope hold section as the A-Series Extra Heavy Duty rope holds for F11-F13.

Colors; White or Blue with Dark top, other Colors on request, Fender specifications on request

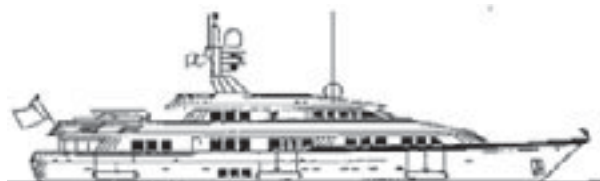
Fender Length Dia. Vessel Length

F-1	61CM	14.5CM	3-7 Meters
F-2	66CM	19CM	5-9 Meters
F-02	61CM	21.5CM	5-9 Meters
F-3	74.5CM	7-9CM	7-9 Meters
F-4	105CM	21.5CM	7-14 Meters
F-5	77CM	30CM	9-14 Meters
F-6	109.5CM	30CM	9-18 Meters
F-7	103CM	38CM	9-18 Meters
F-8	147.5CM	38CM	14->18 Meters
F-11	145.5CM	60CM	18+ Meters
F-13	195CM	80CM	18+ Meters

Mooring Chain

Available in 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8", 3/4", 7/8".

Please contact Aqua Tech for Technical information, specifications, size, and length availability.

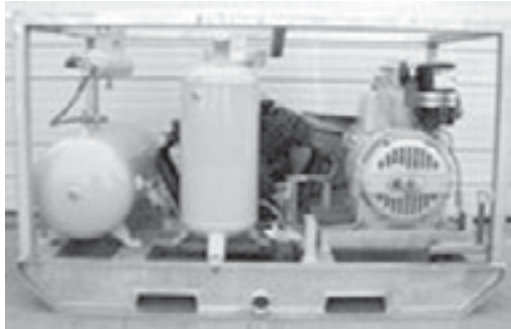


Example of 50M Yacht with 3 Fenders, 4M in Length



COMPRESSORS, LOW PRESSURE

Devair 447 Air Compressor
DIV447



Specifications

- * Two Stage, 4 Cycle
- * 49 CFM at 200 PSI Continuous
- * 22 HP Hatz Diesel, Hand Start
- * 30 Gallon ASME Coded Volume Tank
- * 4 Diver Manifold
- * 12 Gallon Fuel Tank
- * Steel Skids with Fork Lift Slots

Quincy 5120 Air Compressor
DIV5120



Specifications

- * Two Stage, 4 Cycle
- * 88.5 CFM at 200 PSI Continuous
- * 33 HP Hatz Diesel, Air Start
- * 60 Gallon ASME Coded Volume Tank
- * 4 Diver Manifold
- * 30 Gallon Fuel Tank
- * Galvanized Skids with Fork Lift Slots

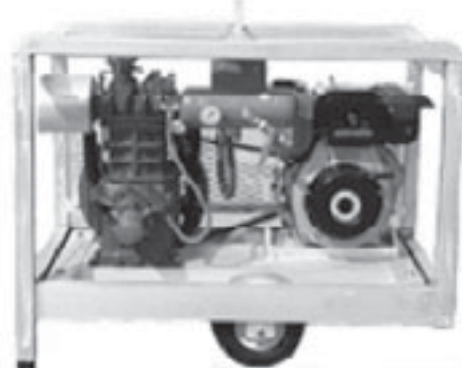
Devair 247 Air Compressor
DIV247



Specifications

- * Two Stage
- * 25.8 CFM at 200 PSI Continuous
- * 9 HP Yanmar Diesel
- * 200 PSI Surge Tank
- * Aluminum Shock Mounted Skid

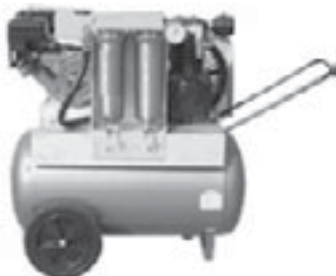
Quincy 325 Air Compressor
DIV325



Specifications

- * Two Stage
- * 16.4 CFM at 200 PSI Continuous
- * 9 HP Yanmar Diesel
- * 200 PSI Surge Tank
- * Aluminum Shock Mounted Skid

Devair 223 Air Compressor
DIVxxxxxx



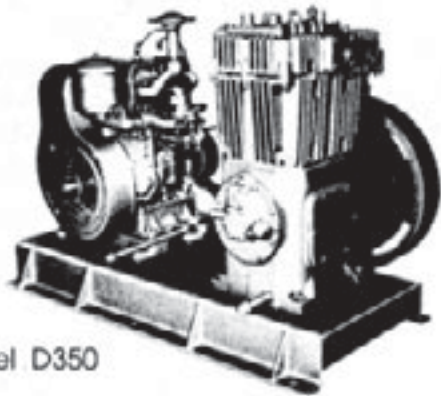
Specifications

- * Single Stage
- * 6.4 CFM at 150 PSI Continuous
- * 4 HP Honda Engine
- * 20 Gallon ASME Coded Tank
- * Aluminum Skid

Aqua Tech can help you with all your surface supplied diving needs. Such as filters, helmets, umbilical hoses, DCS systems, fittings, harnesses and anything else your job requires.

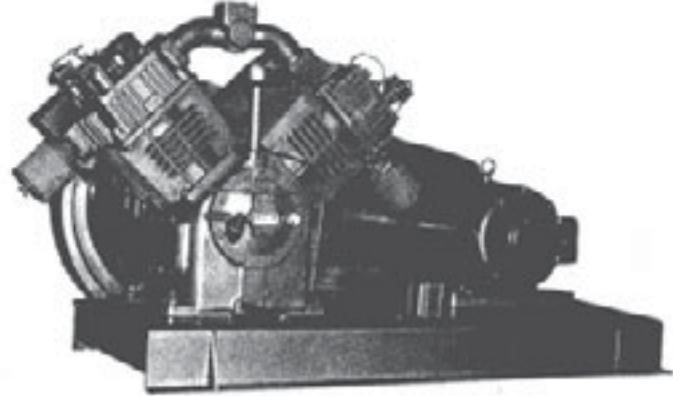
Please See Pages 135-139 For Filtration

QUINCY COMPRESSORS



Model D350

Base Mounted Compressors



Model 5120 Base Mounted Compressors

Standard equipment for Quincy two-stage base mounted compressor units includes: air compressor, electric motor or gasoline engine, inlet air filter, enclosed belt guard and V-belt drive, all mounted on a structural steel base. Specify loadless starting and

pressure switch for automatic operation, Quincy VD suction valve unloader for continuous operation or dual control. Compressors are lubricated with Quincy's Safe-Q-Lube lubrication system.

Contact Aqua Tech for Quincy® Compressors, Parts and manufacturers literature.

SPECIFICATIONS—PRESSURE LUBRICATED

MODEL	MOTOR OR ENG. H.P.	CU. FT. DISPL. MIN.	CU. FT. FREE AIR MIN.	OPER. PRESS. PSI	SIZE BORE & STROKE INCHES	OPER. SPEED R.P.M.	APPROX. SHIPPING WT.-LBS.
D310	1½	6.90	4.60	200	3½ & 2×2½	500	285
	2	9.10	6.20	200		660	310
	3 Eng.	10.00	6.90	200		730	300
D325	3	13.00	9.90	200	4½ & 2½×3	470	425
	5	21.60	16.40	200		780	450
	6 Eng.	23.30	17.70	200		840	475
D340	7½	34.70	26.00	200	5½ & 3×3½	770	880
	12 Eng.	39.50	29.60	200		900	750
D350	10	50.00	34.50	200	6 & 3¼×3½	860	1020
	12 Eng.	50.00	34.50	200		860	955
D370	10	48.00	33.60	200	6 & 3¼×4	730	1050
	15	66.00	46.00	200		1010	1115
	15 Eng.	62.00	43.50	200		950	1130
	20 Eng.	70.00	49.00	200		1070	1155
D390	10	54.50	40.50	200	7½ & 4×4	530	1345
	15	75.00	55.50	200		730	1395
	20	90.00	66.50	200		870	1500
	15 Eng.	65.00	48.40	200		640	1350
	20 Eng.	83.00	61.50	200		810	1350

NOTE: Performance data is based on maximum 110% motor load.

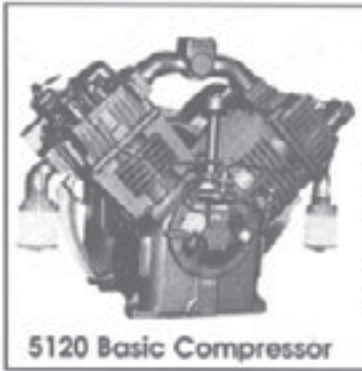
MODEL	MOTOR OR ENG. H.P.	CU. FT. DISPL. MIN.	CU. FT. FREE AIR MIN.	OPER. PRESS. PSI	SIZE BORE & STROKE INCHES	OPER. SPEED R.P.M.	APPROX. SHIPPING WT.-LBS.
D5105	15	81.90	57.30	200	6 & 3¼×3½	710	1710
	20	100.00	70.00	200		870	1765
	25 Eng.	100.00	70.00	200		870	1820
D5120	20	108.00	77.70	200	6 & 3¼×4	830	1790
	25	123.00	88.50	200		940	1880
	25 Eng.	100.00	72.00	200		760	1850
	30 Eng.	123.00	90.00	200		940	1930

NOTE: Performance data is based on maximum 110% motor load.

Two Cylinder Models

Four Cylinder Models

COMPRESSORS / PUMP SPECS



Quincy's two-stage compressors are designed for heavy-duty service and higher pressures. Lubrication is Safe-Q-Lube, Quincy's pressure lubrication system. The manually reversible oil pump easily permits operation either counterclockwise or clockwise. A finned tube intercooler designed as an integral part of the compressor maintains an unusually low temperature between stages resulting in more efficient compressor operation.

When ordering from Aqua Tech please specify loadless starting and pressure switch for automatic operation, Quincy® VD suction valve unloader for continuous operation or dual control.

SPECIFICATIONS—PRESSURE LUBRICATED

Two Cylinder Models

MODEL	MOTOR OR ENG. H.P.	CU. FT. DISPL. MIN.	CU. FT. FREE AIR MIN.	OPER. PRESS. PSI	SIZE BORE & STROKE INCHES	OPER. SPEED R.P.M.	APPROX. SHIPPING WT.-LBS.
310	1½	6.90	4.70	200	3½ & 2×2½	500	140
	2	9.19	6.25	200		660	160
325	3	13.00	9.90	200	4½ & 2½×3	470	240
	5	21.54	16.37	200		780	240
340	7½	32.00	24.17	200	5½ & 3×3½	730	360
350	10	49.25	34.23	200	6 & 3½×3½	860	410
370	10	48.00	33.60	200	6 & 3½×4	730	440
	15	66.10	46.27	200		1010	440
390	10	54.20	40.10	200	7½ & 4×4	530	725
	15	74.65	55.24	200		730	725
	20	90.00	66.50	200		870	725

NOTE: Performance data is based on maximum 110% motor load.

Four Cylinder Models

MODEL	MOTOR OR ENG. H.P.	CU. FT. DISPL. MIN.	CU. FT. FREE AIR MIN.	OPER. PRESS. PSI	SIZE BORE & STROKE INCHES	OPER. SPEED R.P.M.	APPROX. SHIPPING WT.-LBS.
5105	15	81.32	57.30	200	6 & 3½×3½	710	820
	20	99.64	70.25	200		870	820
5120	20	108.00	77.70	200	6 & 3½×4	830	820
	25	123.00	88.50	200		940	820

SPECIFICATIONS—PRESSURE LUBRICATED

MODEL	MOTOR OR ENG. H.P.	CU. FT. DISPL. MIN.	CU. FT. FREE AIR MIN.	PRESS.	SIZE BORE & STROKE INCHES	R.P.M. OPERATION SPEED	APPROX. SHIPPING WT.-LBS.
D208	¼	3.30	1.80	100	2×2	450	155
	¾	4.60	2.50	100		630	165
	2 Eng	6.60	3.80	100		900	155
D210	1	5.80	3.80	100	2½×2	610	195
	1½	8.70	6.00	100		770	215
	2 Eng	9.70	6.50	100		850	155
D214	2	10.60	6.60	100	2¾×2	770	250
	3 Eng	12.37	7.60	100		900	250
D216	2	12.80	7.40	100	3×2½	620	285
	3	18.50	10.70	100		900	340
	6 Eng	18.50	10.70	100		900	275
D230	3	21.00	12.60	100	3½×3	630	425
	5	30.00	18.00	100		900	450
	6 Eng	30.00	18.00	100		900	490
D240	5	34.20	19.80	100	4×3	780	450
	6 Eng	39.50	23.30	100		900	490
D255	7½	53.10	30.30	100	4½×3½	820	740
	12 Eng	58.00	33.60	100		900	820
D4125	15	107.00	63.10	100	4½×4	730	1715
	20	138.00	81.50	100		940	1775
	20 Eng	113.00	66.60	100		770	1735
	25 Eng	138.00	81.50	100		940	1845

TWO CYLINDER MODELS

FOUR CYLINDER MODEL

NOTE: Performance data is based on maximum 110% motor load on integral H.P. sizes

HQ AIR OILLESS COMPRESSORS

Powerex Oilless Air Compressors

Powerex Engineers and Assembles Compressed Air and Vacuum Systems to meet the unique specifications of a wide variety of applications both domestically and internationally. Powerex specializes in applying oilless scroll and reciprocating air compressors, depending upon your needs.

Tank mounted Air Compressors

Features

- * *Oilless Air*
- * *Simplex and Duplex*
- * *Low Noise*
- * *462 (L) (2) Certified*
- * *High Efficiency Motor*
- * *UL Listed Controls*
- * *ASME Air Receiver*
- * *Run Hour Meter*
- * *Duplex Alternating Control*



Optional Equipment

- * *Corrosion Resistant Receiver Tank*
- * *Electric Tank Drain*
- * *Premium Efficient Motors*
- * *Automatic Float Drain*
- * *NEMA Enclosures*
- * *Air Dryer Refrigerated or Desiccant*
- * *Electric Disconnect*
- * *Air Cooled After-cooler*
- * *Isolation Mounts*



For those critical applications where clean-dry compressed air is not just a luxury but a necessity, Powerex Pure Air Compressors have proven to be reliable and durable, time after time, in hospitals, dental offices, universities, schools, industries and laboratories. Powerex has many types of Air Compressors to choose from and is always on the cutting edge, introducing the First Dry Scroll to the Oilless Compressor market, is one example.

Base mounted Air Compressors

Features

- * *Oilless Air*
- * *Single Inlet/Outlet Port*
- * *Low Noise*
- * *Pressures Up to 150 PSIG*
- * *High Efficiency Motor*
- * *Mounting Brackets*
- * *Continuous Operation Un-loaders*
- * *Meets NFPA 99 Applications*



Optional Equipment

- * *Corrosion Resistant Receiver Tank*
- * *Electric Tank Drain*
- * *Premium Efficient Motors*
- * *Automatic Float Drain*
- * *NEMA Enclosures*
- * *Air Dryer Refrigerated or Desiccant*
- * *Electric Disconnect*
- * *Air Cooled After-cooler*
- * *Isolation Mounts*

HQ AIR OILLESS COMPRESSORS

NO OIL CARRYOVER...EVER!

HQ AIR, high performance oilless air compressors...

Oil-Free Air!

HQ Air oilless series compressors deliver pure, instrument-quality, oil-free compressed air. There can be no oil carryover because there is no oil anywhere in the compressor.

100% Duty Cycle!

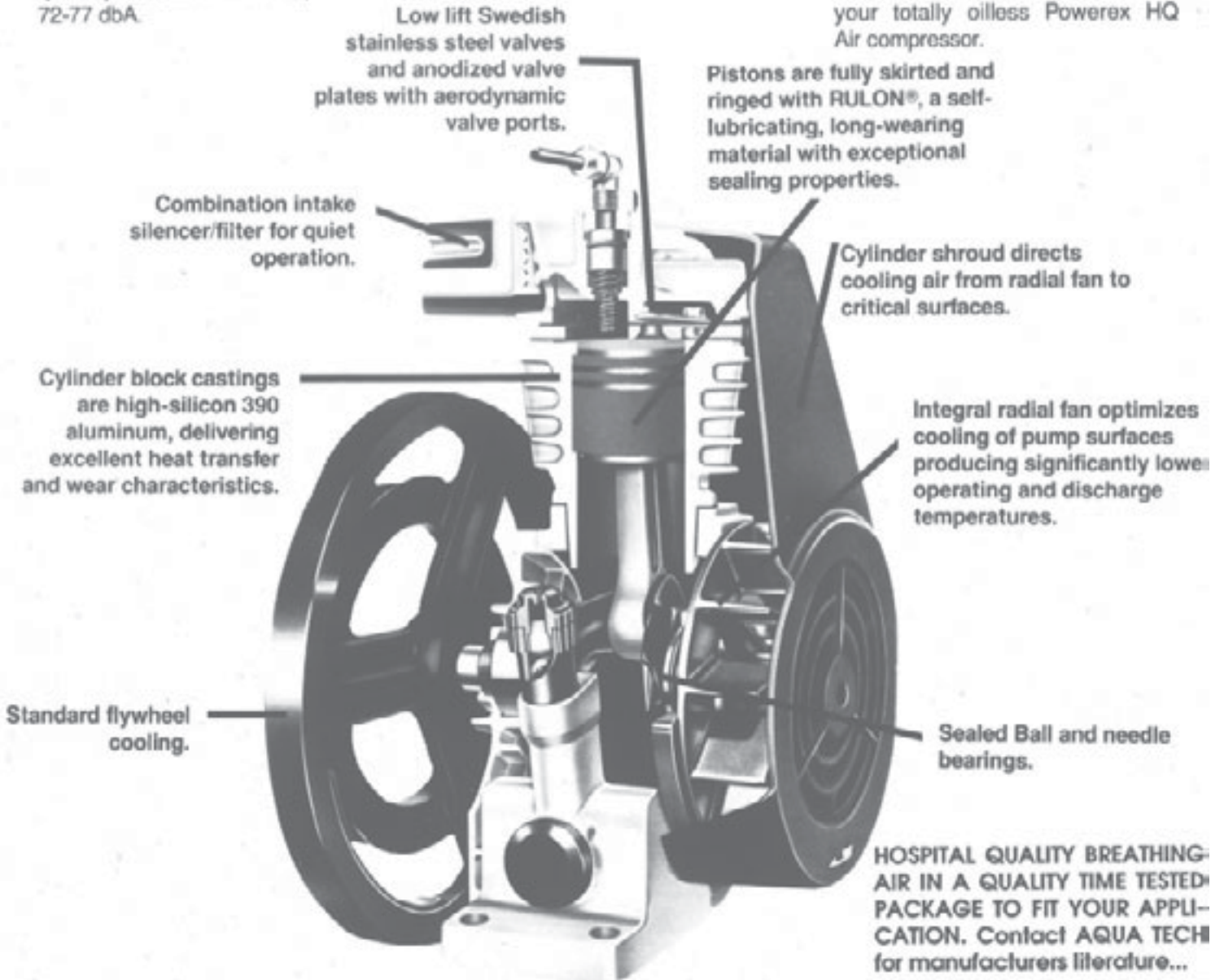
Continuous duty ensures constant air delivery to satisfy critical applications while reducing cost by eliminating the need to oversize intermittent duty compressors.

Extended Life Oilless!

The generous use of RULON® coupled with the unique Powerex dual cooling system minimizes heat buildup and greatly extends the serviceability of these oilless air compressors by minimizing wear and thus reducing maintenance requirements. The result is hour upon hour of trouble-free, reliable performance from your totally oilless Powerex HQ Air compressor.

Quiet!

Low compressor speeds result in quiet operation. All models produce 72-77 dbA.



HOSPITAL QUALITY BREATHING-AIR IN A QUALITY TIME TESTED PACKAGE TO FIT YOUR APPLICATION. Contact AQUA TECH for manufacturers literature...

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comsales@divecenter.com / milsales@divecenter.com
Toll free 1-800-345-3252 / Fax 619-237-1886

www.Divecenter.com

YANMAR ENGINES

Its secret is the newly developed and world's smallest fuel injection system.

The fuel injection system, the heart of a diesel, has been refined through years of research and development at Yanmar. We have now succeeded in minimizing the weight and size of this equipment and simplifying its structure by the adoption of a bushless pump and a reduction in the nozzle size. The ultra-precise FIE accurately injects fine jets of fuel through the 0.2mm small nozzle orifice. Its extraordinarily low fuel consumption is a result of the direct injection system—the first ever to go into a small air-cooled diesel engine.



A new milestone in engine technology.

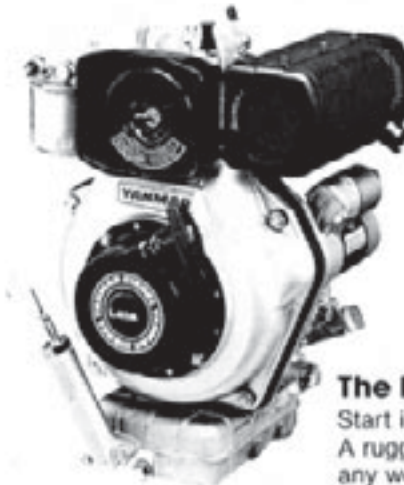
All the fundamentals of structure and materials have been re-analyzed and re-built around the new, ultra-small FIE. And by employing aluminum for major engine parts, reducing flywheel weight, and optimizing component arrangement, Yanmar has achieved a new level of diesel miniaturization. It opens up exciting new scope for the dieselization of small machinery, which so far has had access to only gasoline engine drive.

Fuel costs dip to a new low with Yanmar's direct fuel injection system.

Direct fuel injection has been adopted for the first time in this class of diesel engine. It makes fuel costs exceptionally low. Coupled with this fuel saving system is a combustion chamber specially designed for a small and high speed engine.

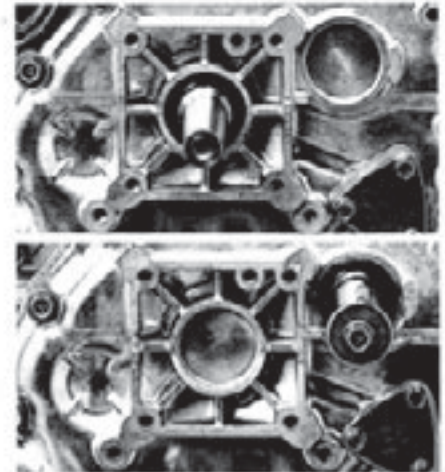
Instant starting by recoil starter—the first time in an air-cooled diesel.

The short 70cm stroke of the recoil starter and the light pull required is like that of a gasoline engine. Starting is effortless thanks to the unique auto-return decompression device and the highly efficient Yanmar combustion system. (Electric starting is available as an option).



Fitted with SAE flange for PTO. Right for every type of work machine.

The SAE flange allows a wide variety of work machines to be coupled with the engine. Power is taken off directly from the crankshaft—hookup is fast and simple. Camshaft coupling is also possible (belt drive at 1500 or 1800rpm).



The long runner!

Start it and leave it. Operates 24 days without re-fill. A rugged mover, perfect for remote locations on any worksite.

Special oil pan allows running on slopes up to 30°.

OIL PAN CAPACITY

Model	L40ABE-D	L60ABE-D
Oil pan capacity (effective/total l)	2.0/2.8	2.2/3.0
Oil supply interval (hr.)	500	500
Allowable inclination angle (continuous/instantaneous)	*20/30 degree (standard specification)	

*Operation inclination angle.

The large capacity oil pan may be designed for an allowable inclination angle of 40° max. at your request.

SPECIFICATION

Model	L40AE		L60AE		L75AE		L90AE	
	D	DE	D	DE	D	DE	D	DE
Application code	Single-cylinder, vertical 4-cycle air-cooled diesel							
Type	Direct injection system							
Combustion system	Direct injection system							
Displacement cc(cu.in.)	199 (12.14)		273 (16.66)		351 (21.42)		387 (23.62)	
Cylinder bore x stroke mm(in.)	68 x 55(2.68 x 2.17)		75 x 62(2.95 x 2.44)		80 x 70(3.15 x 2.76)		84 x 70(3.31 x 2.76)	
Speed rpm	3000/3600		3000/3600		3000/3600		3000/3600	
Maximum output hp	3.8/4.2		5.5/6.0		6.6/7.5		8.0/9.0	
Continuous output hp	3.4/3.8		5.0/5.5		6.0/6.5		7.0/8.0	
Power take off	Crankshaft or cam shaft (Cam shaft PTO rpm is 1/2)							
Starting system	Recoil starter	Starting motor	Recoil starter	Starting motor	Recoil starter	Starting motor	Recoil starter	Starting motor
Fuel tank capacity r (U.S.gal.)	2.5 (0.66)		3.5 (0.92)		5.5 (1.45)			
Lub oil capacity (Effective/Total) r (U.S.gal.)	0.25/0.75 (0.07/0.20)		0.4/1.1 (0.11/0.29)		0.6/1.65 (0.16/0.44)			
Recommended Fuel/Lub oil	Diesel light oil BS2869 A1 or equivalent SAE 10W30 (API grade CC or higher)							
Dimension (L x W x H) mm (in.)	332 x 392 x 416 (13.07 x 15.43 x 16.38)		383 x 421 x 450 (15.07 x 16.57 x 17.72)		417 x 470 x 494 (16.42 x 18.50 x 19.45)			
Dry weight kg (lbs.)	26 (57.3)	31 (68.3)	33 (72.8)	38 (83.8)	48 (105.8)	53 (116.8)	48 (105.8)	53 (116.8)

300 SERIES LP COMPRESSOR

THE COMMERCIAL 300 SERIES

Dependable performance for medium flow applications

Shown is Model C300YES with electric-start Yanmar diesel power and a quick connected 3 gallon reserve fuel tank. Solidly mounted on an aluminum cage with tough service, vibration isolators. A simply ingenious belt tensioner is included. Superior cooling design minimizes heat build up for extended compressor service life. Nine gallons of reserve air further ensures safe, trouble-free operation.

Stainless steel valves and anodized valve plates with aerodynamic ports

Proprietary composite pistons with glass-filled teflon rings

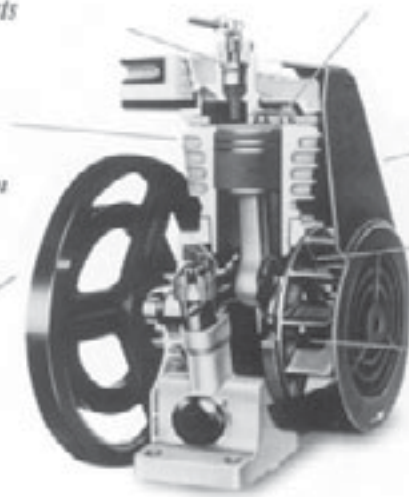
High-silicone 390 aluminum cylinder block

Fan shroud maximizes cooling fan air direction

Integral radial fan optimizes cooling of pump surfaces

Flywheel cooling

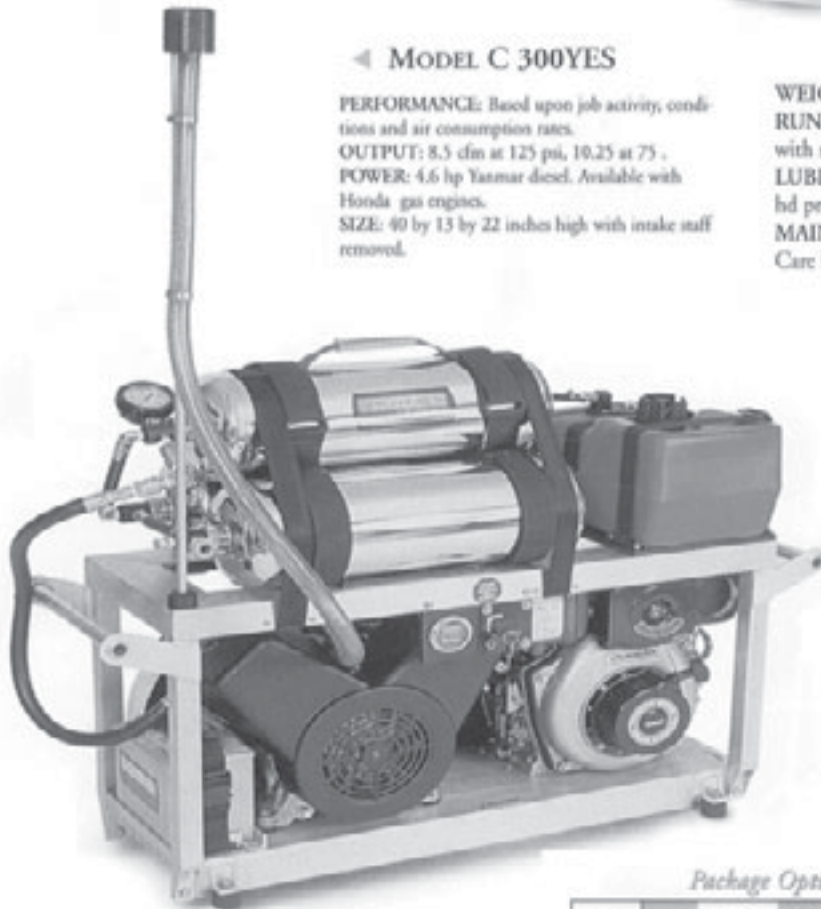
sealed ball and needle bearings



MODEL C 300YES

PERFORMANCE: Based upon job activity, conditions and air consumption rates.
OUTPUT: 8.5 cfm at 125 psi, 10.25 at 75 .
POWER: 4.6 hp Yanmar diesel. Available with Honda gas engines.
SIZE: 40 by 13 by 22 inches high with intake staff removed.

WEIGHT: 248 pounds handling (C 300YES).
RUN TIME: 15 hours with reserve fuel tank, 2.5 hours with standard tank.
LUBRICATION: Compressor; see top right. Engine; hd premium.
MAINTENANCE: Fresh water rinse. Care Kit, owner's manual.



COMMON EQUIPMENT ON ALL C300 MODELS

Aluminum cage mounting Model C 300YES. Channel structural aluminum base all others. Remote air intake assembly w/splash cap, a mil spec heat transfer hose w/built in particle filter and filter replacement kit, two 150 foot breathable air hoses, full Quick Release Swivel (QRS) hose connections, one QRS hose divider, two custom demand regulators, commercial grade belt guard. Models are easily customized.

Package Options For The Commercial 300 Series

Model	Power	# of Complete Diver Sets	QRS Hose Straps*	Simple Timing Belts	Drop Weight Cartridge Belts*	Yanmar Safe Access System*	Air Storage In Cyls.*	Care Kit*	Toolless Gear Tag
300YES	diesel	2	yes	•	2	2	9	1	1
300XE	gas	2	yes	•	2	2	9	1	1
300X	gas	2	yes	•	2	•	9	1	1
300B	gas	2	yes	2	•	•	•	•	•

BROWNIE'S DIRECT DRIVE

THE COMMERCIAL DIRECT DRIVE SERIES

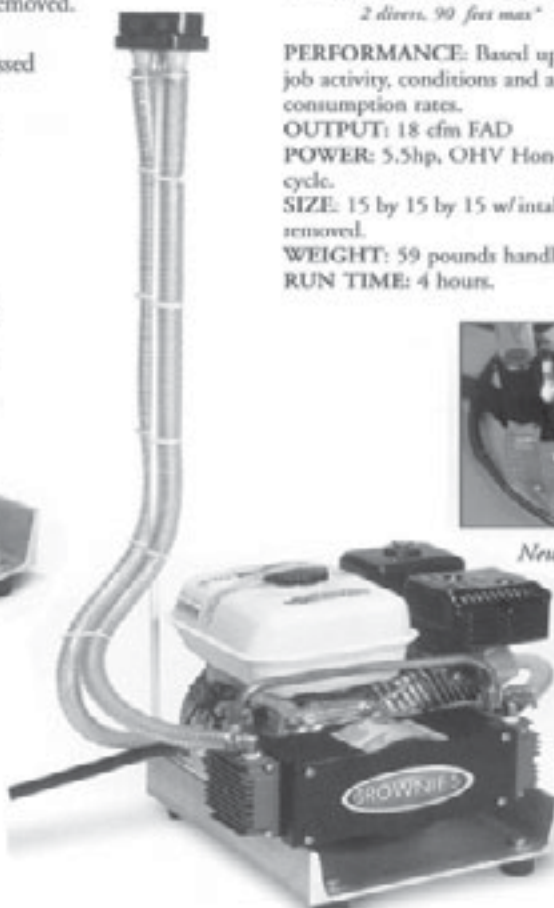
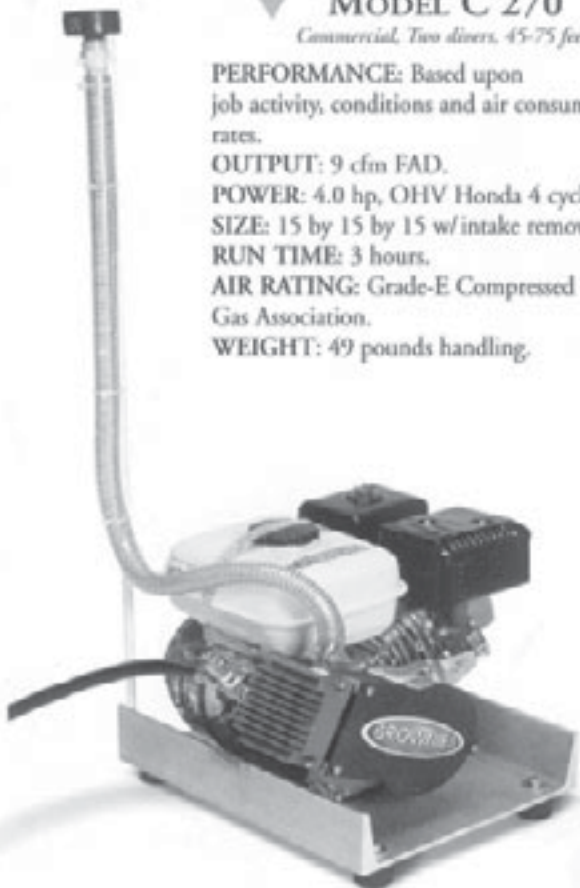
▼ MODEL C 270 *Commercial, Two divers, 45-75 feet**

PERFORMANCE: Based upon job activity, conditions and air consumption rates.
OUTPUT: 9 cfm FAD.
POWER: 4.0 hp, OHV Honda 4 cycle.
SIZE: 15 by 15 by 15 w/intake removed.
RUN TIME: 3 hours.
AIR RATING: Grade-E Compressed Gas Association.
WEIGHT: 49 pounds handling.

▼ MODEL C 390 *2 divers, 90 feet max**

PERFORMANCE: Based upon job activity, conditions and air consumption rates.
OUTPUT: 18 cfm FAD
POWER: 5.5hp, OHV Honda 4 cycle.
SIZE: 15 by 15 by 15 w/intakes removed.
WEIGHT: 59 pounds handling.
RUN TIME: 4 hours.

The new "Reference Standard" for performance in the Bahamas and Caribbean for harvesting lobster and conch under harsh conditions.



New units include "460" type single staff intake and stainless cover plate.

WE LOST A BUNCH OF PARTS...

No belts, straps or pulleys, basically a whole lot less to go wrong or require service. A revolution in Surface Supplied Air systems, our new Direct Drive Compressor System also provides more air flow than was possible with conventional belt and pulley systems.

Direct Drive allows divers to exert harder at depth than was feasible with older systems, or to reach depths that were previously beyond the range for a Surface Supply Air system in this class.

Package Options For The Commercial 270 Series

Model	# of Complete Diver Sets	QRS Hose Fittings*	Simple Towing Belts	Drop-Weight Cammerbelts*	Egress 6 Safe Ascent Systems*	Air Storage In Gals.*	Care Kit*	Textilene Gear Bag
270XE	2	yes	•	2	2	3	1	1
270X	2	yes	•	2	•	0	1	1
270B	2	yes	2	•	•	0	•	•

Package Options For The Commercial 390 Series

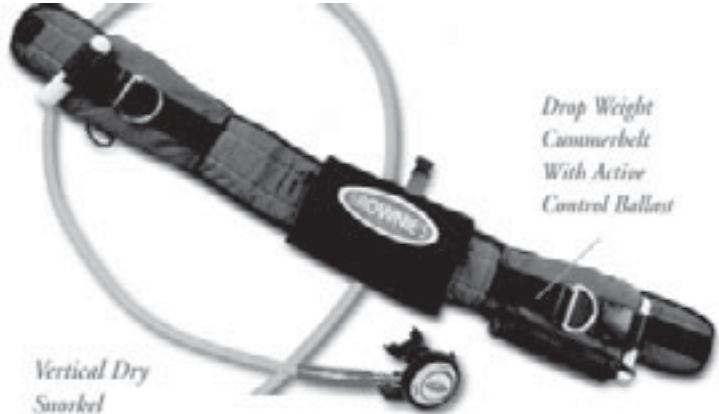
Model	# of Complete Diver Sets	QRS Hose Fittings*	Simple Towing Belts	Drop-Weight Cammerbelts*	Egress 6 Safe Ascent Systems*	Air Storage In Gals.*	Care Kit*	Textilene Gear Bag
390XE	2	yes	•	2	2	3	1	1
390X	2	yes	•	2	•	0	1	1
390B	2	yes	2	•	•	0	•	•

EXPLORER 460 SERIES

THE EXPLORER 460 SERIES

Shown is Explorer 460, allowing four divers to enjoy 40 - 60 foot depths. For those who need (or deserve) the very finest in a family diving system. And what a system! Direct Drive, everything for four, is the safest most convenient package available anywhere and at a price that goes beyond mere value.

The components in all Explorer models must meet the most rigid standards of performance and safety. Full packages start with the lower cost 460 Basic which on its own has features not available anywhere else, and continues with added features and added values through to our ultimate family diving system, the 460 XE . So take a long hard look and see if our model 460XE isn't the system you and your family deserve.



Drop Weight
Cammorbelt
With Active
Control Ballast

Vertical Dry
Snorkel



Custom Nylon
Dive Flag

Air Intake Staff

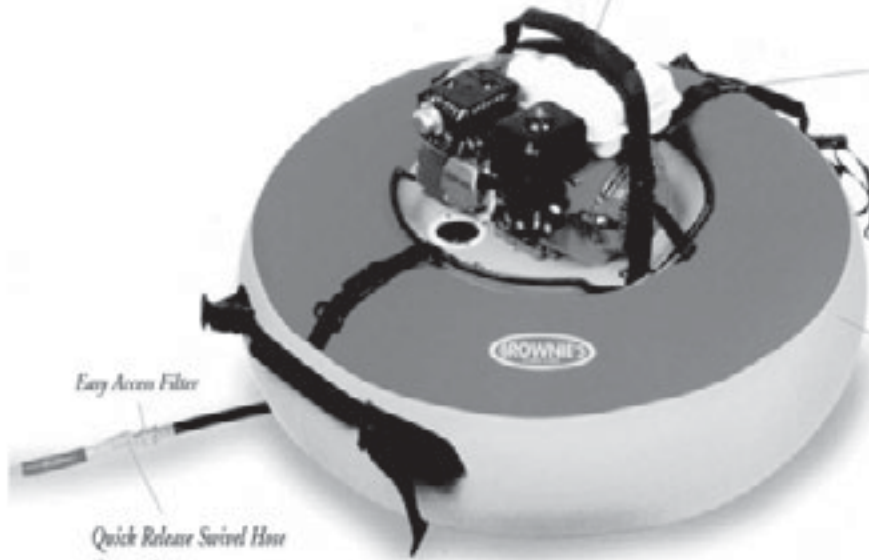
Center Lift handle



EZ. Release
Mounting Buckle

Lift Handle

*Full Wrap Cordura
Float Cover



Easy Access Filter

Quick Release Swivel Hose
Connections

▲ EXPLORER 460
4 divers, 60 feet

MOST IMPRESSIVE TWIN CYLINDER

- Lightest Weight (48lbs)
- Smallest Size (20" x 17")
- Largest Runtime (4+ hours)
- Highest Output (4 divers - 60 feet)
- Optional 4 hp version reduces weight to 43lbs and runtime to 5 hours

Package Options For The Explorer 460 Series

Model	# of Complete Diver Sets	Storage Bag	Cordura Float Cover*	Toolless Gear Bag**	QDS Hose Storage*	Simple Towing Buoy	Drop-Weight Cammorbelt*	Egress & Safe Access Systems*	Car Kit*
460XE	4	yes	yes	2	yes	•	4	•	1
460X	4	yes	yes	1	yes	•	4	•	1
460B	4	no	yes	1	yes	•	•	•	•
460D	4	no	no	1	yes	•	•	•	•

EXPLORER 325 SERIES

THE EXPLORER 325 SERIES

The choice of weekend sport divers who generally dive with one or two other friends or family members. It supports three divers to depths between 20 and 30 feet, and two divers to depths between 50 and 75 feet deep. The gas tank allows over three hour bottom times. Alternatively, one gas tank fill up per day provides more than enough dive time for most users. Light, compact and portable, the keys for a care free outing are all there for you and one or two companions. Exclusive features assure you of safe, breathable air in low maintenance packages.

Explorer 325's utilize Brownie's Direct Drive compressor and Honda 4 hp 4 cycle OHV engine.

SIZE: 17 by 24 by 17 inches in storage cover, 47 inches inflated tube.

WEIGHT: 38 pounds handling.

LUBRICATION: Compressor; oil free.

ENGINE: hd premium.

MAINTENANCE: Fresh water rinse, Care Kit, owner's manual.

THE CARE KIT ▼

Protection, Prevention and Remedy

Keep your gear looking and acting new with Brownie's Care Kit. Superior maintenance products and spare parts to save your vacation. Attractively packaged in a Cordura pouch for neat and convenient storage. Includes compressor cylinder rebuild kit.



▲ EXPLORER 325
3 divers, 20-30 feet
2 divers, 50-75 feet

Package Options For The Explorer 325 Series

Model	# of Complete Diver Sets	Storage Covers	Carbon Filter Canister*	Toxicity Gear Bag*	QRS Hose Fittings*	Simple Towing Belts	Drop Weight Cumberbells*	Figure 8 Safe Access Systems*	Care Kit*
325XE	3	yes	yes	2	yes	*	3	3	1
325X	3	yes	yes	1	yes	*	3	*	1
325B	3	yes	yes	1	yes	3	*	*	*
325V	3	yes	no	1	no	3	*	*	*

DROP WEIGHT CUMMERBELT ▼

Narrower Patent Pending

What the heck is a Drop-Weight Cammerbelt and why would I want one?

For starters, try comfort. A fully adjustable, wide, Cordura fabric belt with an elastic band, expands and contracts with your dive depth. Weight pouches stay secure until diver wishes to remove them. For safety, should the need arise, one-handed release of weight on each side is immediate and weights are evacuated easily while still retaining the belt. A neat trick as your umbilical hose is still secured providing a safe link to the surface.

Hose Tow Attachment



Stainless D-Rings

PIONEER 275 SERIES



*"THE WORLD'S LIGHTEST HOOKA"
(AND MOST AFFORDABLE)*

THE PIONEER 275 SERIES

◀ PIONEER 275

Brownie's new two person unit revolutionizes diving. New entry level Third Lung dramatically reduces the cost of diving. 32 pound base handling weight makes beach and boat diving easier than ever.

Supports two divers to 45-75 feet. Lightest Brownie unit produced, utilizes direct drive Honda light duty 2.5 hp, side valve engine. More than a three hour runtime is provided for by our unique hard coated aluminum three and one half quart fuel tank. Only Brownie's Third Lung offers ALL the details!



Package Options For The Pioneer Series

Model	# of Complete Diver Sets	Storage Cover	Gas/Water Filter Cover*	Toxic/Freeze Gas Bag*	QRS Hose Fittings*	Simple Towing Belts	Drop-Weight Canteen/Belt*	Extra 6' Sub Access System*	Case Kit*
275KE	2	yes	yes	1	yes	*	2	2	1
275X	2	yes	yes	1	yes	*	2	*	1
275B	2	yes	yes	*	yes	2	*	*	*
275V	2	yes	no	*	yes	2	*	*	*



◀ MODEL 110V140 *One diver, 40 feet*

POWER: 3/4 hp, 10.5 amp, AC service.
USE RATING: Continuous Duty.



◀ MODEL 110V240 *Two divers, 40 feet*

POWER: 1/2 hp, 110 volt, 10 amp AC service.
USE RATING: Continuous w/ventilation and shade.

THE ELECTRIC SERIES

If the job calls for an electric compressor, call for the *Brownie's* range of 110 volt AC and 24 volt DC systems. Choose from a one person tool for maintaining boat or pool, to a battery powered diving machine in your personal watercraft.

Common equipment on all 110V electric units is the compressor compactly nestled in the mounting pan with Storage Cover, a five foot, military spec heat transfer hose with built in particle filter, filter kit and full Quick Release Swivel hose connections.

The Full Range Of The Electric Series

Model	# of Complete Diver Sets	Storage Cover	Power Source	QRS Hose Fittings*	Simple Towing Belts
110V140	1	yes	110volt AC	yes	1
110V240	2	yes	110volt AC	yes	2
E270	2	no	Any AC	yes	2
E390	2	no	Any AC	yes	2

HOKAH AIR COMPRESSORS

Air Compressor and Engine Combinations Commercial

Model 263G Engine driven compressor

Model 263 compressor belt driven by a 3 HP Briggs and Stratton Engine with recoil starter. Shock mounted on a heavy duty corrosion resistant base. Includes KAS-2 safety air snorkel. Produces 4.20 cfm @ 40 PSI, or 2.5 cfm @ 100 P.S.I. Shown with optional 3.5 HP Honda Engine. (Model 263GH) Weight 53 lbs. Shipping weight 60 lbs.



Model 3135 PRO Commercial

Powerex OL100P Compressor belt driven by 4 HP Honda engine with recoil starter. Produces 3.6 @ 50 PSI, or 3.1 CFM @ 125 PSI. Shock mounted on a heavy duty corrosion resistant base plate with stainless steel bolts. Weight 70 lbs. Shipping weight 77 lbs.

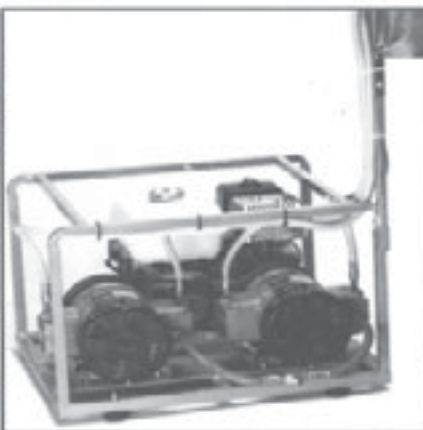


Equipped with remote air intakes.

Model 265G

Engine driven compressor

Two Model 263 compressors belt driven by a single 5 HP Briggs and Stratton Engine with recoil starter. Shock mounted on a heavy duty corrosion resistant base plate with roll cage. Produces 5 Cubic feet @ 100 P.S.I. or 8.40 CFM @ 40 PSI. Includes custom KAS-2 safety air snorkel. Shown with optional 5.5 HP Honda engine (Model 265GH). Weight 98 lbs. Shipping weight 109 lbs.



Equipped with remote air intakes.

Model 8585 PRO Commercial High Volume

Powerex OL300P is a high volume compressor belt driven by a 9 HP Briggs & Stratton Van Guard Engine with recoil starter. Other engine options available including an optional electrical starter. Shock mounted on a heavy duty corrosion resistant base plate with Roll cage. Includes custom KAS-2 safety air snorkel. Produces 11 cfm @ 80 psi or 8.5 cfm @ 125 psi. Weight 158 lbs. Shipping weight 179 lbs.



FM-3 Full Face Mask

A full face mask that covers the mouth and eliminates the need for a mouth piece. No tiring mouth bits to bite down on. Just slip standard Hookah or Scuba regulator through insert hole and tie for easy mounting. Great for cold water and add on communication systems. Weight 2 lbs. Shipping weight 4 lbs.



HR-1 Air Regulator & Harness

Sherwood low pressure Hookah Regulator with harness, consisting of a check valve and adapter for air line. Harness mounts to the center of the divers back for comfort and safety, prevents air hose entanglements. The harness also is equipped with a safety check valve and quick release weight belt type buckle. Weight 2 lbs. Shipping Weight 4 Lbs.

FM3 Full face mask only

FMRH Mask, regulator & harness.

FMR Mask and Regulator

Weight 6 lbs Shipping Weight 9 lbs.

Tote Float Flotation for small compressor systems utilizing a truck tube or anything up to 100 lbs. A stable low center of gravity float obtained by a molded Marlex shell frame. The shell provides a rigid form for the inner tube and is anchored by 4 snap lanyards. Equipped with 4 shock mounting bolts that fits our standard base plates and 4 rubber lanyards.

Model TF1 Tote float frame with rubber lanyards only. Weight 13 lbs. Shipping weight 25 lbs.

Model TF2 Tote float with 750 x 20 inner tube. (loads under 60 lbs)

Weight 26 lbs. Shipping weight 35 lbs.

Model TF3 Tote float with 1100 X 20 inner tube. (loads under 100 lbs)

Weight 31 lbs. Shipping weight 40 lbs.



KAS2 Safety Air Snorkel

Model 263GH Mounted on a Tote Float

KAS1 SAFETY AIR SNORKEL

HOKAH AIR COMPRESSORS

"OIL LESS" AIR COMPRESSORS ONLY

Model T80 Compressor

Medium duty diaphragm compressor with pressure relief valve. The T-80 Compressors are recommended for shallow diving to include: dredging, hull cleaning, boat & dock maintenance, pool repair, crustacean harvesting, spear fishing & general sport diving. Factory recommended RPM 1800. 5/8" key way shaft. Pulley not included. Produces 1.8 cfm @ 45 psi. Weight 7.5 lbs. Shipping weight 10 lbs.



Model 263 Compressor

Heavy duty teflon piston compressor with pressure relief valve. The 263 compressors are recommended for deeper diving: dredging, urchin & cucumber diving, hull cleaning, boat & dock maintenance, crustacean harvesting, spear fishing & sport diving. Pulley Included Recommended RPM 1450. Produces 4.20 cfm @ 40 PSI. or 2.5 cfm @ 100 P.S.I. Weight 19 lbs. Shipping weight 25 lbs.



Model OL100 Powerex Heavy Duty Compressor

Heavy duty Commercial teflon piston compressor. The Professionals Choice! The POWEREX compressors are built for thousands of hours of reliable performance with clean oil-less air, long life and continuous duty. Recommended for deeper diving: Dredging, Urchin & Cucumber diving, hull cleaning, boat & dock maintenance, lobster, spear fishing & sport diving. Produces 3.3 cfm @ 80 psi or 3.1 cfm @ 125 psi. Weight 38 lbs. Shipping weight 41 lbs.



Model OL300 Powerex High Volume Compressor

Heavy duty teflon piston compressor. The professionals choice for high volume! The POWEREX compressors are built for thousands of hours of reliable performance with clean oil-less air and a long life of continuous duty. Recommended for commercial diving applications that require 3 or more divers at deeper depths such as: Dredging, Urchin, Abalone, Cucumber Diving, and Underwater Construction. Produces 11 cfm @ 80 psi or 8.5 cfm @ 125 psi. Weight 68 lbs. Shipping weight 75 lbs.



Air Compressor and Engine Combinations



Model T-80G Engine Driven compressor

Model T-80G engine driven by a 3 HP Briggs and Stratton Gasoline Engine with recoil starter. Shock mounted on a heavy duty corrosion resistant base plate. Includes KAS-1 safety air snorkel. Shown with optional 3.5 HP Honda engine. (Model T80GH) Produces 1.8 cfm @ 45 psi. Weight 40 lbs. Shipping weight 45 lbs.



Model T-80E Electric Motor Driven Compressor

Model T-80E motor driven compressor is powered by a 1/2 HP capacitor start 115 volt electric motor. Includes a 6 ft. extension cord with switch and shock mounted on a heavy duty corrosion resistant base plate. Produces 1.8 cfm @ 45 psi. Weight 31 lbs. Shipping weight 36 lbs.



Model 263E Electric Motor Driven Compressor

Model 263 compressor mounted directly to a 3/4 hp electric motor with capacitor starting. This package is very portable and compact. Ideal for mounting on boat with generators. Motor can be run on 110 or 220 volts. Shock mounted corrosion resistant base plate. Produces 4.20 cfm @ 40 PSI. or 2.5 cfm @ 100 P.S.I. Weight 41 lbs. Shipping weight 50 lbs.

ELECTRO DIVE AIR COMPRESSORS

Electro Dive Air Compressors



One of the most exciting developments in the diving industry in years. Dive to depths of up to 70 feet with only "battery power"

This New Electric Air "Hookah" system is a lightweight, compact, battery powered floating compressor. Enjoy up to 5 hours of continuous diving with a fast convenient set up. Provides a clean air supply that is safe, quiet and extremely portable. The compressor system mounts securely into a rugged inflatable flotation tube. The battery sits below the water surface in a Marlex sealed chamber providing a low center of gravity for extremely stable flotation. Constructed from a high impact Marlex Plastic Material that is impervious to salt water and assembled with stainless steel hardware.

The "Electro Air System" is equipped with either two or four separate air compressors which operate independently in series, depending on the divers demand requirements. The "Electro Air System" is extremely easy to set up; just connect the two battery terminal clips, close the lid, plug in the quick release air hose ends and the system is ready to operate. Can also be disassembled in seconds with quick release hinges. The system can also be used as a deck mounted compressor, by simply detaching it from the float. This compact design makes it ideal for storing in confined areas. Electric power provides a silent running system that making it ideal for quiet surroundings.

All Electro Air Systems come equipped with dual quick release fittings, sealed battery box, frame, dual chamber float, straps, and a divers flag. Battery not included. (We recommend that a group 24, 12 volt deep cycle battery be used). (Battery box can accommodate up to a group 27 battery).

Model EA1 Electro Air Diving Compressor (2 each)

Air volume for this model provides 2 cfm of free air, or 1 cfm at 50 psi. This model contains two (2 each), 12 volt electric driven air compressors for an air supply to one diver at depths of up to 40 feet. Actual weight is 25 lbs. Shipping weight 40 lbs.

Model EA2 Electro Air Diving Compressor (4 each)

Air volume for this model provides 4 cfm of free air, or 2 cfm at 50 psi. This model contains four (4 each), 12 volt electric driven air compressors which can provide air supply to one diver at depths of up to 70 feet. Actual weight is 35 lbs. Shipping weight 50 lbs.

Aqua Tech DIVE CENTER



Historical Diving Museum

1966 Evinrude Aquanaut w/original full face masks hoses, harnesses and manual in working condition. Hoses were different colors to identify each diver. Gas powered and designed to sit on an innertube.

HULL CLEANING SUPPLIES



Aqua Tech Hookah Hose ATB13006FDA

Aqua Tech's specially manufactured Hookah hose is ideal for surface supplied recreational boat maintenance, ocean harvesting, swimming pool maintenance, and light construction. Can also be used for some hazmat applications. Easy to assemble, can be fitted with 1/4" NPT. Burst pressure is 250 psi. Regulator not included.

Aqua Tech Standard Hookah Hose Fittings



9/16" X 18 tpi O2 F. swivel Fitting is standard on Aqua Tech's hose. If you desire special hose end fittings, please specify when placing an order.

DANAD63
3/8" "O" ring
Female X 1/4" O2
Male "O" ring

AT231
3/8" Male to 1/4" O2 Male



Regulator hose thread sizes Standard 3/8"
"O-ring screws into **DANAD63**

Aqua Tech Hookah Regulator USD104118

Set for approximately 90-95 PSI, can operate between 45-125 PSI, includes 30" hose.

Tube: Seamless PVC, non-toxic, FDA grade
Reinforcement: Braided Textile yarn
Cover: PVC
Operating Temp. Range: Tube and cover:
-20 degrees F to + 150 degrees F
Bouyancy: Positive
Wall, I.D. O.D. Thickness: 5/16", 3/8",
1/2"

Aqua Tech Hull Cleaning Pads SAN8xxx

White: Softpad
Blue: SemiCoarse
Brown: Coarse



Step to the softest pad, gradually progressing to the coarser pads, as the paint loses its anti-fouling integrity.

Armada

AS 108 Hydraulic Power Pack



The AS-108 is powered by the 8.0 HP 4 cycle commercial Honda gasoline engine. Designed to power the AS-18 HB hydraulic cleaning brush and prop polishing head.

AS-108 Set Includes:

- I. 3-12" (304.79) OD
- II. 2-100 ft. Hydraulic Hoses.
- III. Mounted in Roll Cage Frame.
- IV. Weight: 285 lbs.
- V. Height: 27" with Wheels and Push Handle
- VI. Width: 22"
- VII. 4 Prop Polishing Pads
- VIII. 1 Prop Pad Holder

Armada

AS 18 HB Commercial Hull & Prop Cleaning Brush Head



AS 18 HB can be used from the left or right side. AS 18 can accommodate brushes that are 8", 12", 14", 16", and 18" in diameter. 3M Prop Polishing pads easily fit on this low profile brush head, allowing it to fit in tight. Has dead man switch which meets OSHA and U.S. Navy standards. Brush speed can be adjusted from 0-1200 RPM's. Dual brush rotation. All brushes and lights are optional.

AS 18 HB Specifications:

- I. Required Hydraulic Power 5 GPM Max
- II. 1500 PSI Max Pressure Rating
- III. Marine Aluminum
- IV. Weight: 19lbs.
- V. Height: 10"
- VI. Width: 21"vii. Length: 13"

Brush Head Brushes



Polypropylene:

017 Poly
020 Poly
020 Poly
020 Poly

Nylon:

017 Nylon
022 Nylon
028 Nylon

Grit:

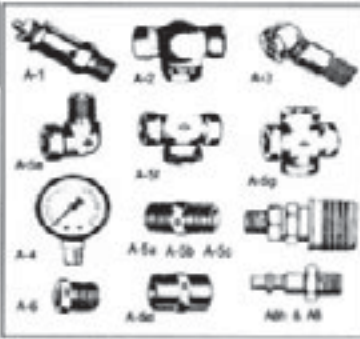
095/46 040/120
065/46 035/180
050/080 030/240

Flat wire steel Brush:

The Barnacle Cutter, Barnacle Brush Buster, and Barnacle Brush Cutter Blades are also available Stainless Steel Row

HOOKEH ACCESSORIES

TANK, HOSE, REGULATOR & HARNESS KITS
Includes reserve tank, air hose, regulator, harness, quick release connectors, and all necessary fittings.



- A1 Adjustable pressure relief valve.
- A2 Air check valve. (Stainless and brass)
- A2H Air check valve for H-2, 1/4" X 1/8" M.
- A3 Air filler valve. (Fills tubes, male thread)
- A4 Air or water gauge. (rugged 2" dial).
- A5a Air hose connector (Fits standard air hose).
- A5b Air hose to pipe connector, 1/4 X 1/4 female.
- A5c Connector, 1/4" pipe to pipe thread, male.
- A5d Connector, 1/4" pipe to pipe thread, female
- A5e Street elbow, 1/4" male X female.
- A5f Tee fitting, 1/4" female.
- A5g Cross fitting, 1/4" female.
- A6 Regulator to air hose connector, 1/4 X 1/8.
- A8 Quick release coupling pair, M and F.
- A8H Quick release fe. Hansen fitting / safety lock.
- A8M Male 1/4" receptacle for A8H.
- A8F Female 1/4" receptacle for A8H.
- A9 SCUBA tank adapter, adapts 2nd stage valve to standard 1/4-inch air hose

Low Pressure Kits Include an RT1 Reserve Tank (Model T80 Compressors Only)

Model	Hose Assy	Reg.	Harness	Ship Weight
LP120	1 x 20 feet	1	1	17 lbs.
LP130	1 x 30 feet	1	1	18 lbs.
LP150	1 x 50 feet	1	1	19 lbs.
LP100	1 x 100 feet	1	1	26 lbs.
LP220	2 x 20 feet	2	2	18 lbs.
LP230	2 x 30 feet	2	2	22 lbs.
LP250	2 x 50 feet	2	2	27 lbs.



RT1 Low Pressure Reserve Tank
Three gallon Plastic Marlex Polymer Reserve tank, completely corrosion and rust resistant. Can be used by one or two divers. Includes two 1/4" ports. Working pressure 60 PSI . Weight 5 lbs. Shipping weight 9 lbs.

High Pressure Kits Include an RT4 Reserve Tank (Model 263 & larger Compressors Only)

Model	Hose Assy	Reg	Harness	Ship Weight
HP4120	1 x 20 feet	1	1	18 lbs.
HP4130	1 x 30 feet	1	1	20 lbs.
HP4150	1 x 50 feet	1	1	24 lbs.
HP41100	1 x 100 feet	1	1	32 lbs.
HP4220	2 x 20 feet	2	2	24 lbs.
HP4230	2 x 30 feet	2	2	28 lbs.
HP4250	2 x 50 feet	2	2	34 lbs.
HP42100	2 x 100 feet	2	2	48 lbs.



RT4 High Pressure Reserve Tank
Four gallon stainless steel reserve tank. Recommended for one or two divers. Working pressure 125 PSI . Equipped with two 1/4" ports Weight 7 lbs. Shipping weight 10 lbs.

High Pressure Kits Include an RT9 Reserve Tank (Model 263 & larger Compressors Only)

Model	Hose Assy	Reg	Harness	Ship Weight
HP9130	1 x 30 Feet	1	1	30 lbs.
HP9150	1 x 50 Feet	1	1	34 lbs.
HP91100	1 x 100 Feet	1	1	37 lbs.
HP91300	1 x 300 Feet	1	1	60 lbs.
HP9220	2 x 20 Feet	2	2	32 lbs.
HP9230	2 x 30 Feet	2	2	36 lbs.
HP9250	2 x 50 Feet	2	2	42 lbs.
HP92100	2 x 100 Feet	2	2	52 lbs.
HP92300	2 x 300 Feet	2	2	74 lbs.



RT9S High Pressure Reserve Tank
Nine gallon all stainless steel reserve tank. Equipped with pin lock Hansen Fitting. Recommended for commercial divers who need equipment that will last a life-time. Working pressure 125 PSI Weight 12 lbs. Shipping weight 16 lbs.

RT9 High Pressure Reserve Tank
Same as RT9S . less fittings

High Pressure Kits Include an RT11 Reserve Tank (Model 263 & larger Compressors Only)

Model	Hose Assy	Reg	Harness	Ship Weight
HP11130	1 x 30 Feet	1	1	38 lbs.
HP11150	1 x 50 Feet	1	1	42 lbs.
HP111100	1 x 100 Feet	1	1	44 lbs.
HP11300	1 x 300Feet	1	1	67 lbs.
HP11220	2 x 20 Feet	2	2	41 lbs.
HP11230	2 x 30 Feet	2	2	45 lbs.
HP11250	2 x 50 Feet	2	2	50 lbs.
HP112100	2 x 100 Feet	2	2	60 lbs.
HP112300	2 x 300 Feet	2	2	82 lbs.



RT11 High Pressure Reserve Tank
Eleven gallon steel reserve tank. Equipped with quick release fittings, air gauge and all the necessary fittings to accommodate two divers. Not recommended for salt water applications Maximum pressure 125 PSI .Weight 21 lbs. Shipping weight 25 lbs.



RT25 High Pressure Series Reserve Tank
Twenty five gallon all stainless steel reserve tank. Recommended for commercial divers who need equipment that will last a life-time. Includes two 1/2" ports and one 1/4" drain port. Working pressure 125PSI. Weight 45 lbs. Shipping weight 53 lbs.



Diving Air Hose AH1
New improved heavy duty air hose. Kink resistant "Certified " breathing air hose. It is a bright yellow color for easy visibility. The floating hose reduces the possibilities of entanglements on the bottom. Complies with New Federal Regulations on breathing standards. Coupled with 1/4" female ends. Maximum working pressure 250 PSI. Burst pressure 1000 PSI.

Part #	Length	Weight	Shipping
AH20	20ft.	3 lbs.	5 lbs.
AH30	30ft.	3.5 lbs.	6 lbs.
AH50	50ft.	6. lbs.	8 lbs.
AH100	100ft	11 lbs.	13lbs.
AH300	300ft	33 lbs.	36 lbs

HC-1-ST Steam hose connector
Hose connector for all high pressure compressors that produce higher heat temperature . A flexible hose that connects High Pressure air compressors to air reserve tanks. Two 1/4" fitting M x Fe 2.5' length Weight 3/4 lbs. Shipping weight, 2 lbs.

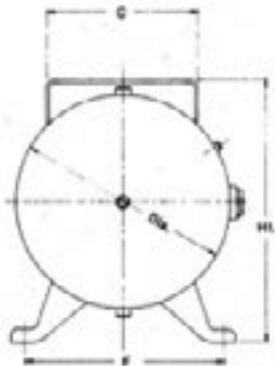
HC-1 Air hose connector hose
Hose connector for RT-1 reserve tank. A flexible hose that connects "Low Pressure" air compressors to RT-1 tank. Two 1/4" fitting M x Fe. 2.5' length. Weight 3/4 lbs. Shipping weight, 2 lbs.

HORIZONTAL AIR RECEIVER TANKS

HORIZONTAL AIR RECEIVER TANKS

Nominal Dimensions: Inches				Platform				Legs			N.P.T. Openings							Nom. Cap. Gals.	Work. Pres. P.S.I.	Catalog Number
Dia.	T.L.	Ht.	A	B	C	D	E	F	G	J	K	L	M	N	P	Q				
A	12	27 1/4		17 1/4							1/4	1/4	1/4				12	200	71-12-12-200	
		27 1/4	13 1/2	17 1/4					11 1/2	16	1/4	1/4	1/4				12	200	72-12-12-200	
		27 1/4	14 1/4	17 1/4	15 1/4	8				11 1/2	16	3/4	1/4	1/4				12	200	73-12-12-200
14	33		22							1/2	1/4	1/2	1/4	1/4	1/2	1 1/2	20	175	71-14-20-175	
	33	16 1/4	22					14	18	1/2	1/4	1/2	1/4	1/4	1/2	1 1/2	20	175	72-14-20-175	
	33	17 1/4	22	19 1/4	9	10	9 1/4	14	18	1/2	1/4	1/2	1/4	1/4	1/2	1 1/2	20	175	73-14-20-175	
16	38		26 1/2							1/2	1/4	1/2	1/4	1/4	1 1/2		30	165	71-16-30-165	
	38	17 1/4	26 1/2					15 1/2	22	1/2	1/4	1/2	1/4	1/4	1 1/2		30	165	72-16-30-165	
	38	20 1/2	26 1/2	22 1/2	9	10 1/4	11 1/4	15 1/2	22	1/2	1/4	1/2	1/4	1/4	1 1/2		30	165	73-16-30-165	
20	47 1/4		32 1/4							1/2	1/4	1/2	1/4	1/4	1 1/2	2	60	150	71-20-60-150	
	47 1/4	23	32 1/4					18 1/2	26	1/2	1/4	1/2	1/4	1/4	1 1/2	2	60	150	72-20-60-150	
	47 1/4	25 1/4	32 1/4	22 1/2	9	10 1/4	11 1/4	18 1/2	26	1/2	1/4	1/2	1/4	1/4	1 1/2	2	60	150	73-20-60-150	
20	47 1/4		32 1/4							1	1/2	1	1/2	1/4	1	2	60	200	71-20-60-200	
	47 1/4	23	32 1/4					18 1/2	26	1	1/2	1	1/2	1/4	1	2	60	200	72-20-60-200	
	47 1/4	25 1/4	32 1/4	29 1/4	12	14 1/4	14 1/4	18 1/2	26	1	1/2	1	1/2	1/4	1	2	60	200	73-20-60-200	
20	62 1/4		47							1	3/4	1 1/4	3/4	1/4	1 1/4	2	80	200	71-20-80-200	
	62 1/4	23	47					18 1/2	36	1	3/4	1 1/4	3/4	1/4	1 1/4	2	80	200	72-20-80-200	
	62 1/4	25 1/2	47	34	12	16 1/4	17 1/4	18 1/2	36	1	3/4	1 1/4	3/4	1/4	1 1/4	2	80	200	73-20-80-200	
	62 1/4	25	47	42	14	23	19	18 1/2	36	1	3/4	1 1/4	3/4	1/4	1 1/4	2	80	200	74-20-80-200	

B	24	65		47 1/4						1 1/2	3/4	1 1/2	1	1/4	1 1/2	2 1/2	120	200	71-24-120-200	
		65	27 1/4	47 1/4				24	42	1 1/2	3/4	1 1/2	1	1/4	1 1/2	2	120	200	72-24-120-200	
		65	30 1/4	47 1/4	44	17 1/4	21	23	24	42	1 1/2	3/4	1 1/2	1	1/4	1 1/2	2	120	200	73-24-120-200
		65	29 1/4	47 1/4	46	19	26	20	24	42	1 1/2	3/4	1 1/2	1	1/4	1 1/2	2	120	200	74-24-120-200



Air Receivers can be ordered in standard pressure ratings shown or in the following pressures:

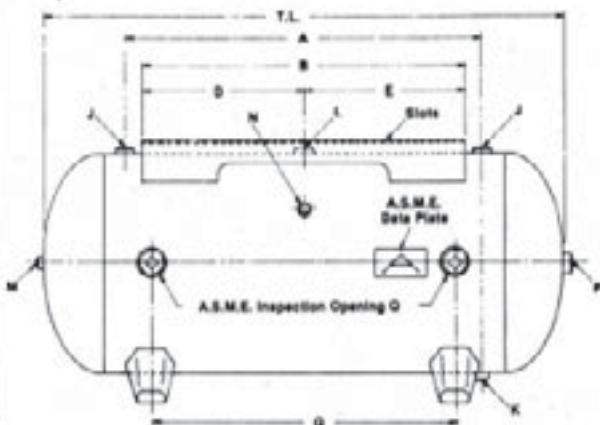
165, 200, 250, 300, 400, 550, 660 & 1100 PSI

Aqua Tech supplies these receivers with a standard primer coating. We will paint to your companies specifications at additional cost. The 30 & 60 Gallon tanks are available mounted in an aluminum frame, plumbed or bare, with or without filters.

Air Receiver Capacity in Cubic Feet of Free Air at Various Pressures

Capacity		Pressures (in Pounds)					
Gals.	Cu./Fl.	75	100	125	150	200	250
30	4.0	20.5	27.3	34.2	41.0	54.7	68.3
60	8.0	41.0	54.7	68.3	82.0	109.4	136.7
80	10.7	54.7	73.0	91.2	109.4	146.0	182.4
120	16.1	82.0	109.3	136.7	164.0	218.7	273.5
200	26.8	136.7	182.2	227.8	273.4	364.5	456.6
240	32.2	164.0	218.7	273.4	328.0	437.4	546.7
400	53.6	273.4	364.5	456.6	546.7	729.0	911.2
660	88.4	451.0	601.4	751.7	902.1	1202.8	1503.4
1060	142.0	724.4	965.9	1207.3	1448.8	1931.7	2414.5
1600	214.4	1093.4	1457.9	1822.4	2186.9	2915.8	3644.8
2560	343.0	1749.0	2333.0	2916.0	3499.0	4666.0	5832.0

Capacities at other pressures are exactly in proportion. Example: at 200 lbs. pressure the capacity of a given size tank is exactly double the capacity at 100 lbs. pressure. Gallons = $\frac{\text{Cu. Ft.}}{.134}$ ***
cu. ft. = Gallons x .134.



All horizontal air receivers are available less legs and platform (71 series), with legs only (72) or complete as illustrated (73).

VOLUME TANKS

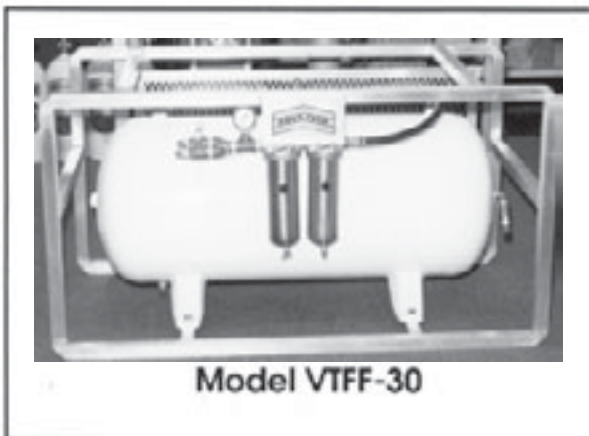
Model VTF-30

30 Gallon Volume Tank Plumbed & Framed With 2-Stage-Filter Mounted. This unit is mounted in a sturdy **Frame** constructed of square boxed **Aluminum** tubing.

The filter system is a **2-stage** unit mounted to the frame in a secure location to prevent damage and assist in routine maintenance.

Specifications

ASME, U.S.C.G. Approved
 Volume.....4 cu. ft
 Liquid capacity.....30 Gal.
 Working Press.....200 psi
 (Higher Press. Available)
 Tank dimensions:
 O.D. 16 in.
 T.L. 38 in.
 Ht. 20 in.
 Frame Dimensions: Ht.=26
 in./ W=28 in./ Length= 48 in.



Model VTF-30

Volume Tank is Sandblasted, Painted W/ Zinc Chromate & White Marine Epoxy.

Model 1000 Filtration System

The Aqua Tech Model 1000 System can be configured to meet your demands. The **Standard System** is a **double canister two stage** filtration unit. The Bowls are large capacity **Stainless Steel with Brass Heads**. **Disposable** coalescent filter for oil and water removal to 5 microns. **Disposable** activated carbon with **5 micron screen** before and after the filter. **Removes all taste and odors** as well as **organic liquids**. The **System** is housed in an **aluminum Frame** For ease of **Handling**.

REPLACEMENT CARTRIDGES:

Coalescent COMRWS-5
 Taste & Odor GRA1P754

Plumbed with: 2- Ball Valves, 1/4 in. (Brass)
 Circle Seal® 1/2 in. Check Valve (Brass)
 Safety Pressure Relief Valve. (1/4 in.) (Brass)
 400 psi Pressure Monitoring Gauge (Brass)

Model VTF-60

60 Gallon Volume Tank Plumbed & Framed With 2- Stage-Filter Mounted. This unit is mounted in a sturdy **Frame** constructed of square boxed **Aluminum** tubing.

The filter system is a **2-stage** unit mounted to the frame in a secure location to prevent damage and assist in routine main.

Specifications

ASME, U.S.C.G. Approved
 Volume.....4 cu. ft
 Liquid capacity.....60 Gal.
 Working Press.....200 psi
 (Higher Press. Available)
 Tank dimensions:
 O.D. 20 in.
 T.L. 48 in.
 Ht. 24 in.
 Frame Dimensions: Ht.=34
 in./ W=28 in./ Length= 56 in.



Model 1000 Filtration System

Volume Tank is Sandblasted, Painted W/Zinc Chromate & White Marine Epoxy.

Model 1000 Filtration Systems

The Aqua Tech Model 1000 System can be configured to meet your demands. The **Standard System** is a **double canister two stage** filtration unit. The Bowls are large capacity **Stainless Steel with Brass Heads**. **Disposable** coalescent filter for oil and water removal to 5 microns. **Disposable** activated carbon with **5 micron screen** before and after the filter. **Removes all taste and odors** as well as **organic liquids**. The **System** is housed in an **aluminum Frame** For ease of **Handling**.

REPLACEMENT CARTRIDGES:

Coalescent COMRWS-5
 Taste & Odor GRA1P754

Plumbed with: 2- Ball Valves, 1/4 in. (Brass)
 Circle Seal® 1/2 in. Check Valve (Brass)
 Safety Pressure Relief Valve. (1/4 in.) (Brass)
 400 psi Pressure Monitoring Gauge (Brass)

AQUA TECH STAGE FILTRATION

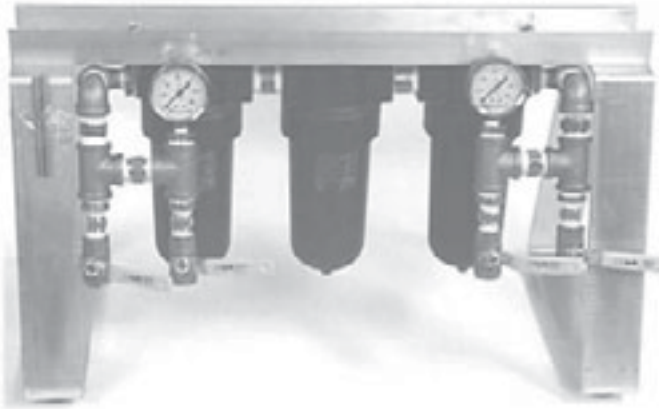
Model 1250 3-Stage Filtration System

The Aqua tech Model 1250 3- Stage Filtration Package uses "Die-Cast" aluminum Bowls with automatic drains and protective filler screens.

Removes solid and liquids in excess of 99%
Removes oil and water vapor in excess of 99%
Removes all taste and odors.

The pre-filters and inter-mediate filters are designed with an expected life of 6-12 months, and the final stage element is designed to provide full protection for a period up-to 12 months under normal operating and reasonable maintainance conditions. Model 1250 exceeds all clean air standards established by the CGA.

The Model 1250 is housed in a rugged aluminum frame, designed for ease of handling and protection of the filtration equipment. System does not remove carbon monoxide.



Specifications

Flow Ports..... 3/4 In. NPT
Ball Valves (4)..... Brass 1/2 In. NPT

Fittings..... 3000 psi Brass
Max..... 250 psi
Flow Rate Final Stage.... 500 SCFM @ 250 psi.
Operating Temp Max..... 175° F, (80°C)

Dimensions

Height..... 15 in.
Length..... 27-1/4 in.
Width..... 13 in.
Weight, Approx.. 35 lbs.

FILTER ELEMENTS:

1st Stage	Order	NOR-1-1250
2nd Stage	Order	NOR-2-1250
3rd Stage	Order	NOR-3-1250

The Model 1000 System can be configured to meet your demands. The Standard System is a double canister two stage filtration unit.

The Bowls are large capacity Stainless Steel with Brass Heads. Disposable coalescent filter for oil and water removal to 5 microns. Disposable activated carbon with 5 micron screen before and after the filter. Removes all taste and odors as well as organic liquids. The System is housed in an aluminum frame for ease of handling.



Specifications

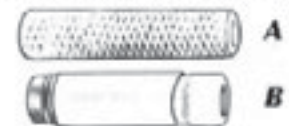
Flow Ports..... 3/4 in. NPT
Air In Adaptor..... #10 JIC
Air Out..... 2 ea. 1/2 in. NPT Ball Valves w/ Oxygen Male fittings.
Operating Pressure Max. 250psi
Operating Temperature Max..... 175° F, (80° C.)
Operating Temp. Min..... 20° F, (-6.6° C.)

Dimensions

Height..... 21 in.
Length..... 19 in.
Width..... Top 7 in... Bottom 12 in.
Weight (approx.)..... 29 lbs.

REPLACEMENT CARTRIDGES:

A. Coalescent..... COMRWS-5
B. Taste & Odor..... GRA1P754



DELTECH FILTERS



Deltech Series . . . designed to readily remove the oil mists generated by the average reciprocating compressor. These combination filters remove liquid oil and water, oil mists and particulates in a single unit. Filtration efficiency exceeds 99.99% at 0.5 micron particle size for lubricating oil and other contaminants. Filter element changes color in service to signal economical replacement at a glance. Select from 13 models to handle 12 scfm to 780 scfm at 100 psig. Higher flows at pressures up to 150 psig maximum. High pressure units for applications to 5,000 psig.

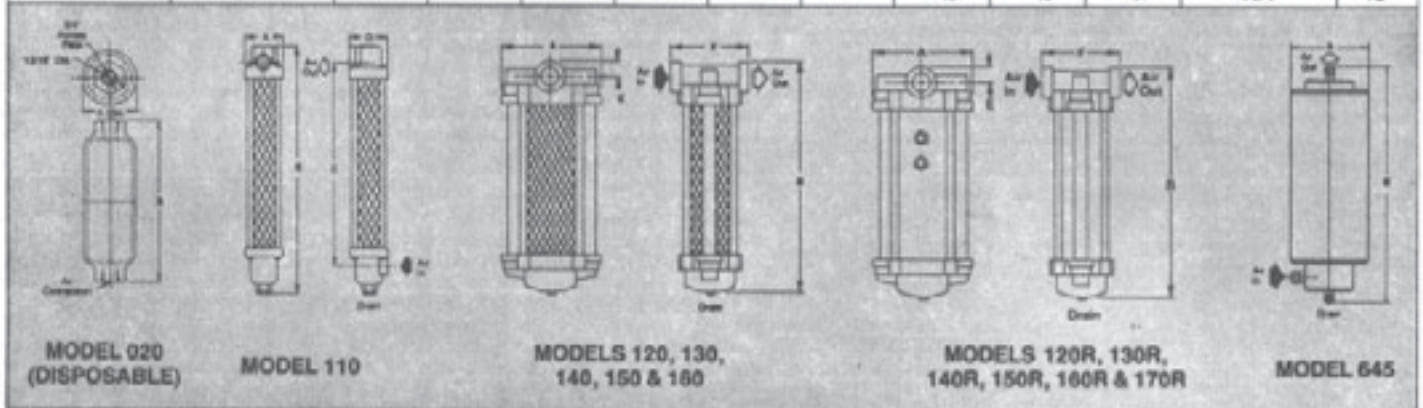
The best choice for the greatest majority of compressed air applications.

- No prefilter required
- Removes oil, dirt, water in a single unit
- Low pressure drop, maximum 2-3 psi at 100 psig and rated flow
- Changes color for easy maintenance — no gauges required

Contact Aqua Tech for more detailed information.

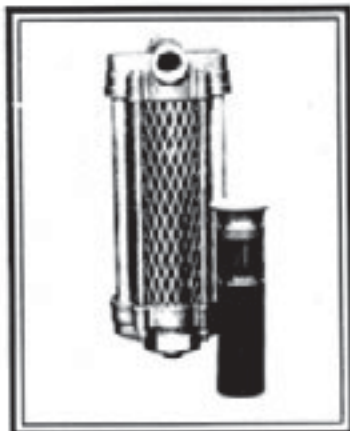
MODEL	MAXIMUM PRESSURE (psig)	INLET AIR PRESSURE (psig)												
		10	20	30	40	50	60	70	80	90	100	110	125	150
		MAXIMUM INLET AIR FLOW (scfm)												
020	50	¾	1	1½	1¾	2								
110 & 110R	150	2½	3½	4½	6	7	8	9	10	11	12	13	14	17
120 & 120R	150	6½	9	12	14	17	20	22	25	27	30	33	37	43
130 & 130R	150	11	15	19	24	28	33	37	41	46	50	54	60	72
140 & 140R	150	22	30	39	48	56	65	74	83	91	100	109	122	144
150 & 150R	150	41	57	74	91	107	124	140	157	174	190	205	230	272
160 & 160R	150	60	85	109	134	158	182	207	231	256	280	304	341	402
170R	150	168	234	304	372	439	509	576	643	713	780	842	944	1,115

MODEL	MAXIMUM PRESSURE (psig)	DIMENSIONS (inches)						CONNECTIONS (Inches NPT)			APPROX. SHIP WT (lbs)	
		A	B	C	D	E	F	Inlet	Outlet	Drain	Transparent Tube	Metal Tube
020	60	1.31	4.0	—	—	—	—	½	½	—	1¼	NA
110 & 110R	150	2½	16	13¼	2½	—	—	½	½	¼	4	8
120 & 120R	150	6	15¼	—	—	¾	4	½	½	¼	8	14
130 & 130R	150	6½	16¼	—	—	1	5	1	1	¼	10	17
140 & 140R	150	8½	18½	—	—	1	6	1	1	½	22	37
150 & 150R	150	10	19¼	—	—	1¼	7¼	1½	1½	½	28	47
160 & 160R	150	12½	21½	—	—	1	9¼	1½	1½	½	45	76
170R	150	16	26¼	—	—	1¼	14	2	2	½	NA	147
645	5,000	6½	19¼	—	—	—	—	¾	¾	¼	NA	48



*R Models designate electrogalvanized steel tube with a viewing glass instead of transparent tube.
 Maximum Operating Temperature: 150° F Maximum Recommended Filtration Temperature: 120° F

DELTECH FILTERS



KC Series Filter

KC Series . . . remove significant concentrations of hydrocarbon vapors as well as liquid oil and water, oil mists and particulates. The replaceable cartridge is contained in the multi-stage Deltech filter housing. These vapor-removing filters use a packed column of activated carbon granules for markedly improved performance over other types that use only annular beds of loose carbon granules or wrapped layers of carbon-impregnated cloth. A band of color-change medium in the cartridge turns from purple to brown as hydrocarbon vapors are removed, signalling when the cartridge must be replaced. When Grade D air

is used for breathing, removal of organic vapors with a KC Series filter eliminates objectionable odors and tastes for greater worker comfort. Six models provide flows up to 280 scfm at 100 psig; maximum operating pressure is 150 psig.

- Up to 25 times more activated carbon than annular-bed filters
- Changes color for easy maintenance —no vapor breakthrough
- Greater total adsorption capacity
- Higher vapor-removal efficiency
- No prefilter required
- Removes liquid oil, dirt and water as well as hydrocarbon vapors

MODEL	FLOW at 100 psig (scfm)	REPLACEMENT CARTRIDGE	DIMENSIONS (inches)						CONNECTIONS (Inches NPT)			APPROX SHIP WT (lbs)	
			A	B	C	D	E	F	Inlet	Outlet	Drain	Transparent Tube	Metal Tube
KC11 & KC11R	12	KC11E	2½	16	13¼	2½	—	—	½	½	¾	4	8
KC12 & KC12R	30	KC12E	6	15¼	—	—	¾	4	½	½	¾	8	14
KC13 & KC13R	50	KC13E	6½	16¼	—	—	1	5	1	1	¾	10	17
KC14 & KC14R	100	KC14E	8½	18½	—	—	1	6	1	1	¾	23	38
KC15 & KC15R	190	KC15E	10	19¼	—	—	1¼	7¼	1½	1½	¾	29	48
KC16 & KC16R	280	KC16E	12½	21½	—	—	1	9¼	1½	1½	¾	47	78

Maximum Operating Pressure: 150 psig
 Maximum Operating Temperature: 150°F
 Maximum Recommended Filtration Temperature: 120°F

Automatic drain valves . . . discharge accumulated water and other liquid contaminants from collection points in the air system. Installed on after-coolers, separators, receivers, filters, dryers and other components they discharge automatically on an electrically timed cycle to prevent contaminant carryover. Cycle adjustable from 0.5 to 45 minutes, drain opening from 0.5 to 10 seconds. Full-port draining virtually eliminates clogging by rust, scale or other air system debris, can discharge more than 2 gal. per drain opening at 100 psig.

- Modular design—separate timer, solenoid coil and solenoid valve
- Solid-state automatic timer, poten-

- tiometer adjustment
- LEDs signal "power on," "drain open"
- Manual push-to-test button verifies operation
- 115 VAC or 230 VAC, 50/60 Hz
- NEMA Type 1 enclosure
- Weatherproof molded housing
- 7/16-inch orifice
- 1/4-inch NPT air connections
- 3-wire grounded power cord
- Maximum operating pressure 300 psig



Automatic Drain Valve. Call Aqua Tech for more information.

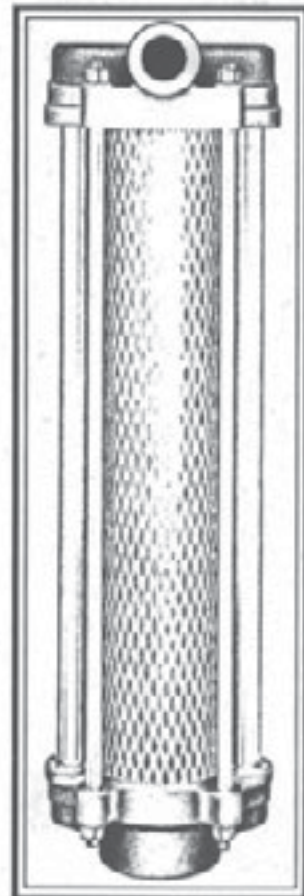
DELTECH FILTERS

Del-Monox Disposable Cartridge Purifiers are designed for standby, emergency or portable use on an intermittent or short-term basis.

Compact and self-contained, these units provide complete purification in a single disposable cartridge that removes particulates, oil, water, tastes, odors and carbon monoxide. The compressed breathing air supplied is clean and meets OSHA Grade D standards.

The purifier cartridge also features an innovative visible color change indicator that shows at a glance when the cartridge must be replaced. No special tools are required to change cartridges.

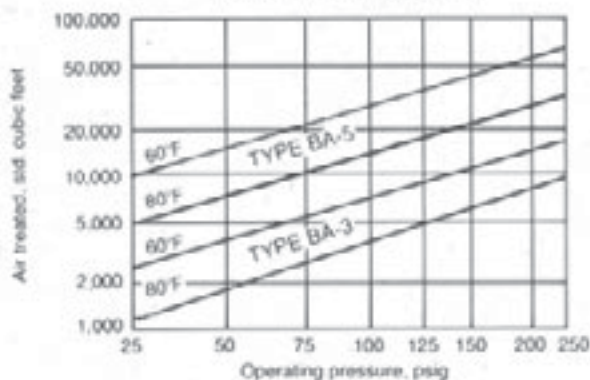
Aqua Tech stocks Replacement Cartridges. Call for fast delivery..



Cartridge Life

Cartridge life, indicated by the visible color change, depends on the operating temperature and pressure as illustrated in the cartridge life chart. For lowest operating cost and longest life, operation at 80°F or less is recommended. The following example illustrates how to determine expected cartridge life for given operating conditions.

Disposable Cartridge Life



Outlet Air Meets OSHA and CSA Standards

- Carbon monoxide, oil, water and solid particles are removed to within acceptable limits
- Air is taste- and odor-free

Easy Installation

- Comes complete, ready to use
- Only requires air inlet and outlet connections and insertion of disposable cartridge

Safety Features

- Color change shows at a glance when cartridge must be replaced

Low Maintenance

- Only four bolts to remove for easy cartridge replacement

Example: Determine the life of a BA5 cartridge which is used to clean 10 scfm at 60°F and 110 psig.

From the chart, at these operating conditions a BA5 cartridge will treat 30,000 standard cubic feet of air. Calculate cartridge life, in hours of operation, as follows:

$$\text{Cartridge life} = \frac{30,000 \text{ scf}}{10 \text{ scfm} \times 60 \text{ min/hr}} = 50 \text{ hours}$$

*Can be cart-mounted.
 **Equipped with metal tubes and sight ports.
 For inlet/outlet locations request certified drawings.
 Maximum inlet air temperature, 120°F.

Disposable Cartridge Models

MODEL	INLET PRESSURE (psig)																			
	30	40	50	60	70	80	90	100	110	120	130	140	150	175	200	210	220	230	240	250
	MAXIMUM AIR FLOW (scfm)																			
130B*	3.1	3.8	4.5	5.2	5.9	6.6	7.3	8.0	8.7	9.4	10.1	10.8	12.0	—	—	—	—	—	—	—
150B*	7.8	9.5	11.3	13.0	14.7	16.5	18.2	20.0	21.7	23.5	25.2	26.9	30.0	—	—	—	—	—	—	—
230F**	—	—	—	—	—	—	—	—	—	—	—	—	12.0	13.2	15.0	15.7	16.4	17.0	17.8	18.5
250F**	—	—	—	—	—	—	—	—	—	—	—	—	30.0	33.0	37.4	39.1	40.9	42.7	44.4	46.1

MODEL	MAX. PRESSURE (psig)	CART-RIDGE TYPE	APPROXIMATE DIMENSIONS (Inches)			AIR CONNECTIONS (Inches NPT)		APPROX. SHIPPING WT. (lbs.)
			H	W	D	IN	OUT	
130B*	150	BA3	32½	5	6½	1	1	24
150B*	150	BA5	37	7¼	10	1½	1½	60
230F**	250	BA3	32½	5	6½	1	1	42
250F**	250	BA5	37	7¼	10	1½	1½	98

RIX SA SERIES COMPRESSORS

RIX SA SWEET AIR SERIES

PURE AIR, EASY MAINTENANCE, COMPACT DESIGN

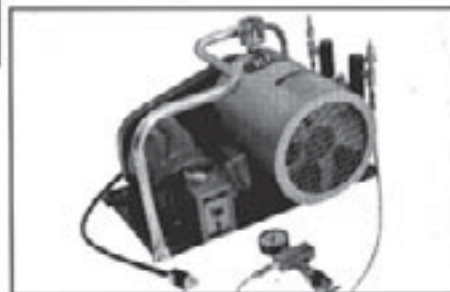
Service on the RIX Sweet Air Oil-free compressor is simple and easy. It requires no special technical abilities. Since there is no "oil-bath" crankcase, as in lubricated compressors, the parts requiring normal service and maintenance are easily accessible. Compression pistons and rings can be removed and replaced without disturbing high pressure lines, cylinder heads, valves, etc. Repairs can be done in the field with a minimum of parts and tools, requiring very little time.

As you can see, the Rix Sweet Air oil-free breathing air compressor offers substantial advantages over old-fashioned oil-lubricated compressors. Safety during operation and ease of service are the trademark of the RIX compressor. RIX has been designing, manufacturing, and assembling air compressors in the San Francisco Bay area since 1878. Pure breathing air and minimal service problems are now, and have been for over 100 years, the goal of RIX compressors.

OTHER USES

The SA's are also very suitable for air sampling, contaminant-free gas recovery and other industrial uses where oil-free high pressure compression is needed. Please call or fax us if you have any questions about the SA's or our other oil-free compressors.

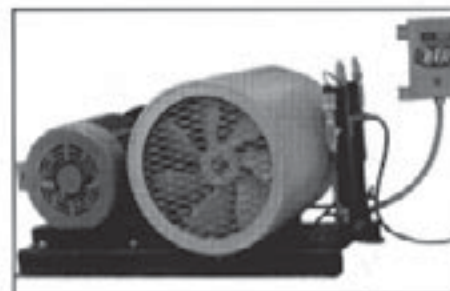
SA-3E
Electric
Motor Drive



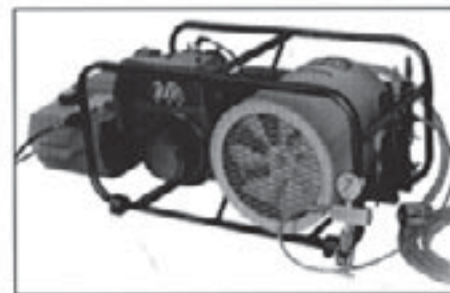
SA-3G
Gas Engine
Drive



SA-6E
Electric
Motor Drive



SA-6G
Gas Engine
Drive



SPECIFICATIONS - SA Series Compressors

Drive	Model	Max PSI	FAD SCFM	Charging Rate** SCFM	Dimensions	Weight DRY	Comments
Electric	SA-6E	3300 4500*	5.5	6.5	30"L x 19" x 18"H	187 lbs 213 lbs	5 hp, 230/460V, 3 phase standard 230V, 1 phase (optional)
Gas	SA-6G	3300 4500*	5.5	6.5	33"L x 19" x 18"H 35"L x 19" x 18"H	150 lbs 155 lbs	7.5 hp Wisconsin, remote fuel tank 8 hp Honda, integral 6 qt. fuel tank
Electric	SA-3E	3300	2.2 3.0	2.5 3.5	24"L x 16" x 15"H	124 lbs 130 lbs	2 hp, 230 volt, 1 phase, standard 3 hp, 3.0 SCFM (optional)
Gas	SA-3G	3300	3.0	3.5	27"L x 16" x 15"H	108 lbs	5.5 hp Honda, 3.8 qt. fuel tank

*Standard relief valve is 3600 psi. A 4,000 or 4,500 psi relief valve is a no cost option (SA-6 only). A 5000 psi relief valve is available on special order.

** "Charging Rate" based on filling tank from 500 to 3000 psig.

UNICUS II COMPRESSOR

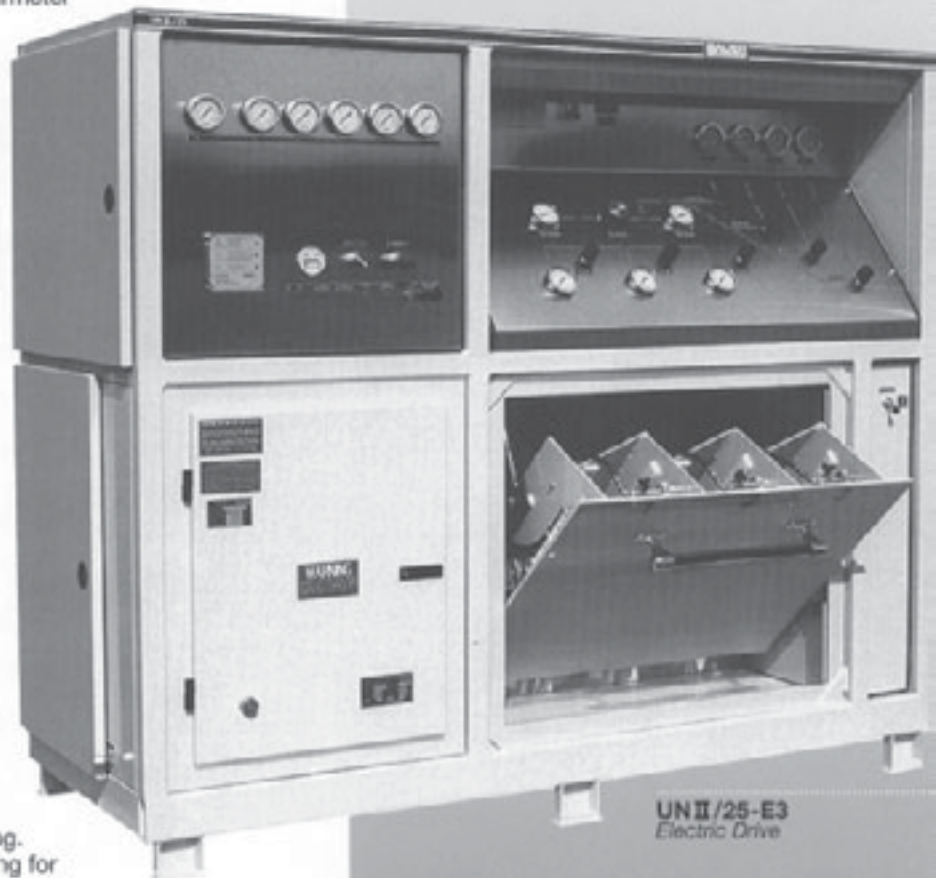
UNICUS II THE TOTAL SYSTEM

SCBA Cylinder Recharging Station

STANDARD FEATURES

- Four or Five Stage BAUER High Pressure Air Compressor
- Polished Stainless Steel Gauge Panel Complete with a Gauge for Each Stage of Compression, Hourmeter and Oil Pressure Gauge
- Automatic Compressor Control
- UL Listed Electrical Panel
- Ground Fault Interrupt Electrical Protection
- Emergency Stop Switch
- Compressor Low Oil Pressure and High Temperature Safety Shutdowns with Panel Mounted Fault Light
- Automatic Condensate Drain (ACD) System for Compressor's Interstage and Final Separators
- Condensate Reservoir with Automatic "Full" Indication
- Inlet Filter Maintenance Indicator
- BAUER Breathing Air Purification System, Enclosed in Cabinet
- Patented BAUER SECURUS® Electronic Purification System Monitor
- Two (2) ASME Code Stamped Air Cylinders Installed in a Rack Designed for Four (4) Cylinders. Each Cylinder Supplied with a Safety Relief Valve, Manual Drain Valve and Panel Mounted Gauge:
 - 424 scf each, 4:1 safety factor at 5000 PSI
 - 481 scf each, 3:1 safety factor at 6000 PSI
- Illuminated Polished Stainless Steel Cascade Fill Control Panel for Single Point Operator Control of SCBA Cylinder Recharging. Panel is Complete with Factory Installed Tubing for Four (4) Air Storage Receivers or Banks of Receivers
- Panel Mounted SCBA Fill Control Valve and Gauge for Each SCBA Fill Position
- Containment Fill Station for Filling up to Three (3) SCBA Cylinders Independently or Simultaneously, Constructed Entirely of 1/4" Thick Steel
- Lined SCBA Cylinder Holder to Protect the Outer Surface of the SCBA Cylinder
- Three-Point Pneumatic Safety Interlock System for Containment Fill Station for Maximum Operator Safety
- Three (3) Fill Hoses, Each Complete with Bleed Valve and SCBA Fill Connector of Choice
- Sound Attenuating Enclosure with Slam-Action Latches and Lift Off Hinges on All Enclosure Panels

5.0 – 20 HP



UNII/25-E3
Electric Drive

NEW STANDARD FEATURES

- Laser Cut Directional Fill Schematic
- Automatic Storage Bypass

5000 – 6000 PSIG 7.6 – 26.4 SCFM

www.Divecenter.com

comsales@divecenter.com / milsales@divecenter.com
Toll free 1-800-345-3252 / Fax 619-237-1886

AQUA TECH

UNICUS SPECIFICATIONS

Compressor / Purification Storage / Fill Station



The UNICUS II SCBA Cylinder Recharging Station is an integrated system design which combines a **BAUER** four or five stage high pressure compressor, breathing air purification system, air storage system, cascade fill panel and containment fill station into one user friendly workstation.

MODEL	NUMBER OF STAGES	CHARGING RATE SCFM*	FAD **	HP	PURIFICATION SYSTEM	AIR PROCESSING CAPABILITY	DIMENSIONS L-W-H INCHES	NET WEIGHT LBS. WITH / 2 ASMES
5000 PSI SERVICE								
UN II/7-E1/E3	4	7.6	6.3	5.0	P2 Securus	67,000 cu. ft.	82-36-73	3400
UN II/9-E1/E3	4	9.6	8.0	7.5	P2 Securus	67,000 cu. ft.	82-36-73	3500
UN II/12-E1/E3	4	12.0	10.1	10.0	P5 Securus	150,000 cu. ft.	82-36-73	3600
UN II/20-E3	4	20.4	17.0	15.0	P5 Securus	150,000 cu. ft.	82-36-73	3750
UN II/26-E3	4	26.4	22.0	20.0	P10 Securus	230,000 cu. ft.	82-36-73	3825
6000 PSI SERVICE								
UN II/8-E1/E3	4	8.4	7.0	7.5	P2 Securus	67,000 cu. ft.	82-36-73	3500
UN II/10-E1/E3	4	10.2	8.5	10.0	P2 Securus	67,000 cu. ft.	82-36-73	3550
UN II/13-E1/E3	5	13.2	11.0	10.0	P5 Securus	150,000 cu. ft.	82-36-73	3650
UN II/19-E3	5	19.2	16.0	15.0	P5 Securus	150,000 cu. ft.	82-36-73	3800
UN II/25-E3	5	25.2	21.0	20.0	P10 Securus	230,000 cu. ft.	82-36-73	3895

* Based on recharging an 80 cubic foot tank from 500 to 3000 PSIG ** Free air delivered

E1 = Single Phase Electric, 230 VAC/60 Hz E3 = Three Phase Electric, 230/460 VAC/60 Hz Other voltages and frequencies available on request.

UN II/8 and UN II/10 units are equipped with the four stage K14.11 6000 PSI compressor block.

UN II/13, UN II/19 and UN II/25 units are equipped with the five stage K18.1 6000 PSI compressor block

Dimensions and weights are approximate and are subject to change.

OPTIONAL FEATURES

- Dual Pressure SCBA Cylinder Refill System
- Additional ASME Storage Cylinders
- DOT Storage Cylinders in Lieu of ASME Storage
- COMP-TRONIC® Compressor Control System
- Carbon Monoxide Monitor with Calibration Kit
- Audible Alarm for all Safety Shutdowns
- Automatic Prioritized Storage Refill System
- Automatic Cascade Control System to Prioritize Storage Refill and Sequence SCBA Recharging
- Maintenance Timer
- Overtime Timer
- Remote Fill Outlet Complete with Isolation Valve, Gauge, Fixed Regulator and Quick Connect Fitting
- Hose Reel with up to 50 feet of Hose Rated to 5000 PSI, or 35 feet of Hose Rated to 6000 PSI, Outlet Connected to the Remote Fill Outlet
- Other Features Available upon Request

BAUER SPECIFICATIONS

COMPRESSOR

MODEL	PURIFICATION SYSTEM	CHARGING RATE SCFM*	H.P.	APPROX. WEIGHT (LBS.)
FS 7 E1	P2 SECURUS	8.4	7.5	345
FS 7 E3	P2 SECURUS	8.4	7.5	345
FS 12 E1	P5 SECURUS	12.0	10.0	650
FS 12 E3	P5 SECURUS	12.0	10.0	650
FS 17 E3	P5 SECURUS	20.4	15.0	700
FS 22 E3	P5 SECURUS	26.4	20.0	1300
FS 30 E3	P10 SECURUS	36.0	25.0	1500
FS 34 E3	DUAL P5 SECURUS	40.8	30.0	1600
FS 35 E3	P10 SECURUS	42.0	30.0	1700

"THE CLASSIC HORIZONTAL UNIT"



AIR STREAM®:
Capacity= 8.4 - 42 cfm.
Horizontal (Enclosed) Design

STANDARD EQUIPMENT:

E1 = Single Phase Electric E3 = Three Phase Electric

Gauge Panel includes Pressure Gauge for Each Stage, Hour Meter, Oil Pressure Gauge, Inlet Filter Maintenance Indicator

Securus Control System

Breathing Air Purification

Automatic Condensate Drain with Reservoir

Fully Enclosed Cabinet

Inlet Filter Indicator

Low Oil Pressure Shut-down Switch with Fault Lamp

High Air Temperature Shut-down Switch with Fault Lamp

Automatic Start - Stop Pressure Switch

OPTIONAL EQUIPMENT:

DESCRIPTION	PART NO.
Commercial Fill Hose Assembly	BF FD - 346 BF FD - 347
Electronic CO Monitor - OTOX	MNR-5
CO Monitor Calibration Kit	MNR-5 CAL
Pressure Regulation Panel for CO Monitor	GOP-28 — OTOX
Switch-Over Device	ASY-172
Dual Pressure Selector Switch	DPS-2

INSTALLED PURIFICATION SYSTEM:

PURIFICATION SYSTEM	COMPRESSOR MODEL	CARTRIDGE	AIR PROCESSING CAPABILITY**
P2 SECURUS	FS 7	060037	67,000 cu. ft.
P5 SECURUS	FS 12 FS 17 FS 22	058825 060037	150,000 cu. ft.
DUAL P5 SECURUS	FS 34	2 x 058825 2 x 060037	150,000 cu. ft.
P10 SECURUS	FS 30 FS 35	2 x 058825 1 x 060037	230,000 cu. ft.

*Based on recharging an 80 cubic foot tank from 500 to 3000 PSIG.

**Air processing capability data based on inlet temperature of 70° F.

Contact Aqua Tech for **manufacturers literature**. We can assist your engineers in the planning and installation of your H.P. Breathing-Air-System.

If you have a system presently installed, call us for repair parts or filtration accessories.

Aqua Tech stocks a complete line of H.P. Fittings & Gauges...

VERTICUS COMPRESSOR

VERTICUS

High Pressure Breathing Air System

The VERTICUS high pressure breathing air system for recharging SCBA or SCUBA breathing air cylinders combines compressor, air purification and air quality monitoring into a compact, sound attenuated enclosure, designed to diminish operating noise level to less than 79 dBA.

Compressor

The heart of the system is a reliable BAUER air-cooled, oil lubricated, single acting, four or five stage reciprocating compressor designed for continuous use.

Cooling is provided by a crankshaft driven fan directing cooling air across the upper cylinder heads and the inter and aftercoolers. Interstage and final discharge air temperatures are cooled to within 15°F of ambient air temperature.

A pressure switch is provided for automatic operation of the compressor.

A check valve is supplied to maintain pressure in the purification system when the compressor stops and unloads. This feature eliminates the possibility of contaminants being introduced into the breathing air storage system.

Electric Motor

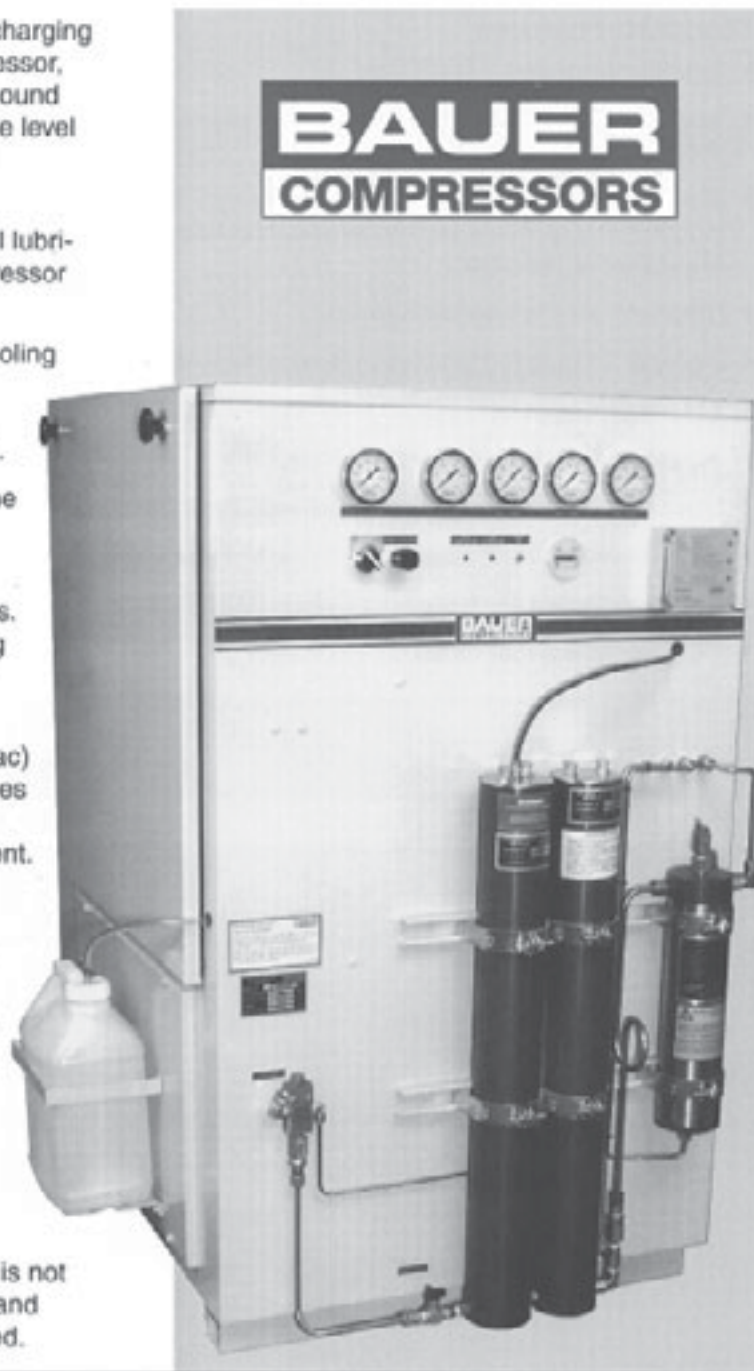
The standard drive is available with a single phase (230 vac) or three phase (460 vac) ODP electric motor. Other voltages and frequencies are available on request. The motor is mounted on an adjustable base to simplify v-belt adjustment.

Purification System/Monitor

The system consists of a final oil and water separator, connected to the automatic condensate drain system and a purification train which utilizes replaceable cartridge filter elements. The purification cartridges are housed in high tensile strength aluminum alloy cylinders.

The purity of the air meets or exceeds Grade E quality per CGA G-7.1.

The purification system also incorporates the proven SECURUS Electronic Purification Cartridge Monitor. SECURUS is designed to activate a warning light 3 to 5 hours before a cartridge is fully expended. If the cartridge is not changed within the period, the compressor will shutdown and cannot be restarted until a new cartridge has been installed.



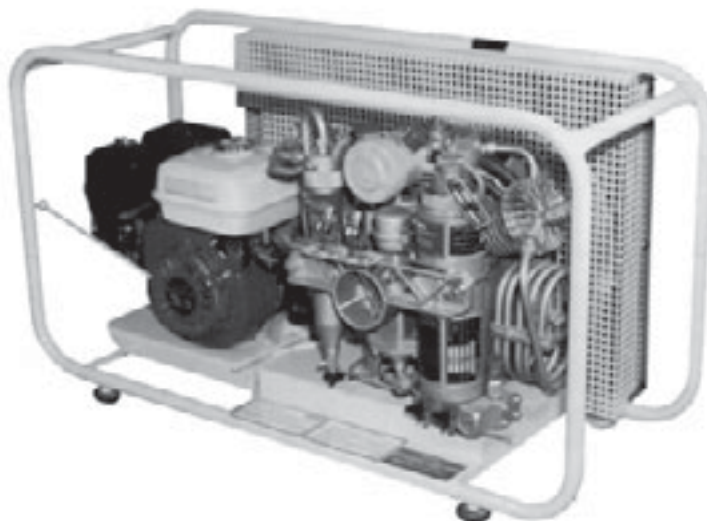
5 – 30 HP

**5000 – 6000 PSIG
7.6 – 42.0 SCFM**

CAPITANO COMPRESSOR

STANDARD EQUIPMENT

- SCUBA Fill Hose Assembly, 5 ft. Length
- BAUER Breathing Air Purification System
- HONDA Gasoline Engine
- YANMAR Diesel Engine
- Portable Frame, (stainless steel fixed base on JR II-EY)
- Motor Starter with NEMA 4 Enclosure (JR II-EY)
- Motor Starter with NEMA 1 Enclosure (E-DV)
- Automatic Condensate Drain (JR II-EY)
- Final Pressure Relief Valve
- Telescopic Intake (JR II and JR II-EY)
- Belt Guard Designed to Meet OSHA Guidelines
- Inlet Pre-Filter with Flexible Hose Intake on all DV units with Engine Drive



OPTIONAL EQUIPMENT Installed at Time of Order

DESCRIPTION	PART NUMBER
Magnetic Start and Pressure Switch on JUNIOR II-E	JR II-E BASE
Alternate Drive Unit Motor Kit (230/1) with JUNIOR II-G	JR II-G/R/MTR/1
HONDA Engine Kit with JUNIOR II-E	JR II-E/R/ENG/G
Visual CO Moisture Indicator	IND-16
Final Pressure Switch for Gasoline Engine	PRESS SWT-34.0G
Hourmeter: Vibration Type for Diesel Drive Hourmeter: Electric Type Tachometer/Hourmeter for Gas Drive (limited life up to 7000 hours) (not available on JUNIOR II-G)	HMR-0006 HMR-0021 HMR-0027
Purification System Upgrade (not available on JUNIOR II)	P0 to P1

BAUER PORTABLE COMPRESSORS



Aqua Tech stocks a large selection of compressor parts, replacements and accessories. Call us for all your compressor needs



The Junior II line of Portable Compressors are a safe reliable source for high pressure breathing air.

Each system comes complete with an air purification system and fill hose. At the Heart of the Junior II is a rugged three stage compressor. The system has capacities of 2.9 to 4.3 scfm charging rate and delivery pressures up to 5000 psig. Each system is specifically designed to fill SCUBA cylinders

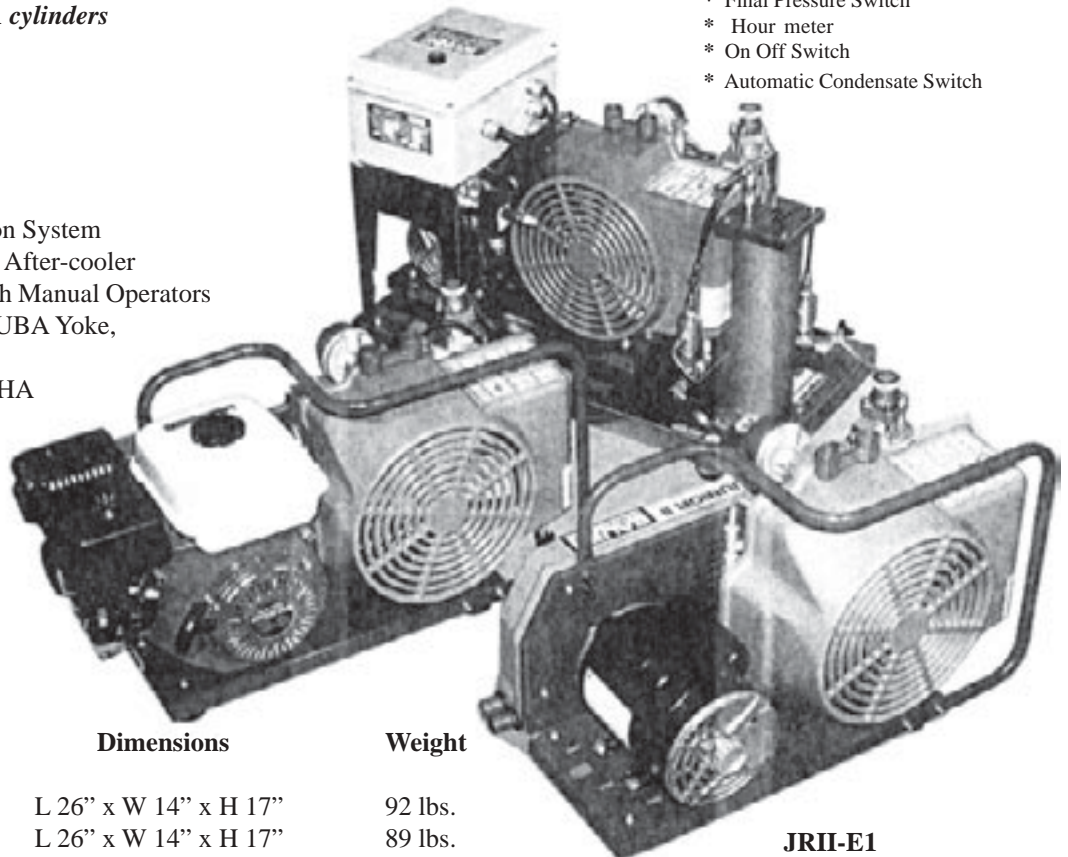
**JRII-EY
Electric Yachting Package**

- * Heavy Duty Stainless Steel Base
- * Stainless Steel Fittings
- * Magnetic Starter
- * Power On Light
- * Final Pressure Switch
- * Hour meter
- * On Off Switch
- * Automatic Condensate Switch

Standard Features

- * BAUER Breathing Air Purification System
- * Air Cooled Interstage Coolers and After-cooler
- * Interstage and Final Separator with Manual Operators
- * 5 ft. Fill Hose Assembly with SCUBA Yoke, Bleed Valve and Pressure Gauge
- * Belt Guard Designed to Meet OSHA Guidelines
- * Inlet Filter
- * Vibration Isolators

**JRII-G
Gasoline Engine Drive**



**JRII-E1
Electric Motor Drive**

Model	Charging Rate	Dimensions	Weight
JRII-E1	2.9 CFM	L 26" x W 14" x H 17"	92 lbs.
JRII-E1**	3.9 CFM	L 26" x W 14" x H 17"	89 lbs.
JRII-E3	3.9 CFM	L 27" x W 14" x H 17"	111 lbs.
JRII-EG	4.3 CFM	L 30" x W 15" x H 17"	92 lbs
JRII-EY	3.9 CFM	L 32" x W 18" x H 23"	130 lbs

E1 = Single Phase Electric, 115/230 VAC/60Hz
 E3 = Three Phase Electric, 230/460 VAC/60 Hz
 Y = Yachting Package
 G = Gasoline
 ** 3 Horsepower



AQUA TECH

*comsales@divecenter.com / milsales@divecenter.com
 Toll free 1-800-345-3252 / Fax 619-237-1886*

www.Divecenter.com

BAUER SPECIFICATIONS

COMPRESSOR

	MODEL	CHARGING RATE SCFM**	FAD ***	HP	GAUGE PANEL	TEMP. SWITCH	OIL SWITCH	FILL HOSE	HOUR METER	ELEC. START	ACD	PRESSURE SWITCH	PURIFICATION SYSTEM	
JUNIOR II	JR II-E1*	3.9	3.2	3	—	—	—	S	—	—	—	0	S	P0
	JR II-E3	3.9	3.2	3	—	—	—	S	—	—	—	0	S	P0
	JR II-G	4.3	3.6	5	—	S	—	S	—	—	—	0	S	P0

JUNIOR II YACHTING	JR II-EY	3.9	3.2	3	—	S	—	S	S	—	S	S	S	P0
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UTILUS++	U-E1/E3/DV	4.3	3.6	3	—	S	—	S	0	S	—	S	S	P0
	U-G/DV	4.3	3.6	5	—	S	—	S	0	—	—	0	S	P0
	U-D/DV	4.3	3.6	4	—	—	—	S	0	—	—	—	S	P0
CAPITANO++	C-E1/E3/DV	6.0	5.0	5	—	S	—	S	0	S	—	S	S	P0
	C-G/DV	6.0	5.0	5	—	S	—	S	0	—	—	0	S	P0
	C-D/DV	6.0	5.0	6	—	—	—	S	0	—	—	—	S	P0
MARINER++	M-E1/E3/DV	8.4	7.0	7.5	—	S	—	S	0	S	—	S	S	P0
	M-G/DV	8.4	7.0	8	—	S	—	S	0	—	—	0	S	P0
	M-D/DV	8.4	7.0	6	—	—	—	S	0	—	—	—	S	P0

++ Also available in stationary version – electric, gasoline and diesel. Please refer to Three Stage stationary line price list .

* Not available for 110/115 V service.

** Based on recharging an 80 cubic foot tank from 500 to 3000 PSIG.

*** Compressor capacity referenced to standard inlet conditions.

E1 = Single Phase Electric, 230 VAC/60 Hz E3 = Three Phase Electric, 460 VAC/60 Hz

Other voltages and frequencies available on request.

G = Gasoline D = Diesel S = Standard O = Optional — = Not Available

PURIFICATION SYSTEM

PURIFICATION SYSTEM	INSTALLED IN	CARTRIDGE	AIR PROCESSING CAPABILITY
P0 TRIPLEX	JUNIOR II JUNIOR II-EY UTILUS CAPITANO MARINER	059183	3,200 cu. ft.

Air processing capability data based on standard inlet conditions.

BAUER SPECIFICATIONS

	MODEL	CHARGING RATE SCFM*	FAD **	HP	GAUGE PANEL	TEMP. SWITCH	OIL SWITCH	FILL HOSE	HOUR METER	ELEC. START	AUTO DRAIN	PURIFICATION SYSTEM		SECURUS
K14	K14-E1	9.6	8.0	7.5	S	S	S	O	S	—	O	S	P2	O
	K14-E3	9.6	8.0	7.5	S	S	S	O	S	—	O	S	P2	O
	K14-G	9.6	8.0	11.0	S	S	S	O	S	S	O	S	P2	O
	K14-D	9.6	8.0	10.0	S	S	S	O	S	S	O	S	P2	O
K14-12	K14-12E1	12.0	10.1	10.0	S	S	S	O	S	—	O	S	P4	O w/ P5
	K14-12E3	12.0	10.1	10.0	S	S	S	O	S	—	O	S	P4	O w/ P5
	K14-12G	12.0	10.1	13.0	S	S	S	O	S	S	O	S	P4	O w/ P5
	K14-12D	12.0	10.1	16.0	S	S	S	O	S	S	O	S	P4	O w/ P5
K15	K15-E3	20.4	17.0	15.0	S	S	S	O	S	—	O	S	P4	O w/ P5
	K15-G	20.4	17.0	20.0	S	S	S	O	S	S	O	S	P4	O w/ P5
	K15-D	20.4	17.0	20.0	S	S	S	O	S	S	O	S	P4	O w/ P5
K20	K20-E3	26.4	22.0	20.0	S	S	S	O	S	—	S	S	P5	O
	K20-D	26.4	22.0	30.0	S	S	S	O	S	S	S	S	P5	O
K220	K220-25E3	36.0	30.0	25.0	S	S	S	O	S	—	S	S	P10	O
	K220-30E3	42.0	35.0	30.0	S	S	S	O	S	—	S	S	P10	O
	K220-D	36.0	30.0	44.0	S	S	S	O	S	S	S	S	P10	O
K230	K230-40E3	60.0	50.0	40.0	S	S	S	O	S	—	S	P12 Securus		S
	K230-45D	53.0	44.0	45.0	S	S	S	O	S	S	S	P12 Securus		S
	K230-60D	60.0	50.0	60.0	S	S	S	O	S	S	S	P12 Securus		S
K250	K250-75E3	93.0	78.0	75.0	S	S	S	O	S	—	S	P14† Securus		S
	K280-100E3	145.0	121.0	100.0	S	S	S	O	S	—	S	P14† Securus		S

* Based on recharging an 80 cubic foot tank from 500 to 3000 PSIG. ** Compressor capacity referenced to standard inlet conditions.

† Purification supplied separately for remote mounting.

E1 = Single Phase Electric, 230 VAC/60 Hz E3 = Three Phase Electric, 460 VAC/60 Hz. Other voltages and frequencies available on request.

G = Gasoline D = Diesel S = Standard O = Optional — = Not Available

STANDARD VERSION - OPEN HORIZONTAL DESIGN THROUGH MODEL K280.

ELECTRIC MODELS K14 THROUGH K220 IN OPEN VERTICAL DESIGN AT NO ADDITIONAL COST. (Replace K with V for model designation)

STANDARD EQUIPMENT

- UL Listed Electrical Panel (electric motor equipped models only)
- Engine Driven Units Include Clutch, Electric Start, and Speed Control Solenoid
- Automatic Condensate Drain K20, K220, K230, K250 and K280
- Belt Guard
- Breathing Air Purification System
- Gauge Panel
- Temperature Switch, Oil Pressure Switch with Fault Lights
- Magnetic Starter (electric only)
- Final Air Pressure Switch
- Power-On Light - Standard only with Electric Drive

BAUER ACCESSORIES

OPTIONAL EQUIPMENT Installed at Time of Order

DESCRIPTION	PART NUMBER
Adder to Upgrade Purification Systems	P2 to P4 P4 to P5 P5 to P10
Automatic Condensate Drain System: K14, K14-12 and K15 Includes Silencer and Condensate Drain Reservoir	B5002
Securus Electronic Purification Monitoring System <i>(available only with P2, P5 and P10)</i>	B6000
Securus Test Unit	N16058 STB
Commercial Fill Hose Assembly, 5 ft. Length	BFFD-346 BFFD-347
SCUBA Fill Hose Assembly, 5 ft. Length	BFDV
High-Low Fill Device <i>(dual outlet)</i> Dual Pressure Switch <i>(single outlet)</i>	ASY-172 DPS-2
Electronic CO Monitor	MNR-16
CO Monitor Calibration Kit	MNR-16/CAL
Visual CO/Moisture Indicator	IND-16

PURIFICATION SYSTEM

PURIFICATION SYSTEM	MODEL	CARTRIDGE	AIR PROCESSING CAPABILITY
P2	K14	058827	40,000 cu. ft.
P4	K14-12 K15	058825 058821	60,000 cu. ft.
P5	K20	058825 058827	90,000 cu. ft.
P10	K220	2 x 058825 1 x 058827	140,000 cu. ft.
P12 Securus	K230	1 x 067099 1 x 067097 1 x 065562	420,000 cu. ft.
P14 Securus	K250 K280	2 x 067099 1 x 067097 1 x 065562	650,000 cu. ft.

Air processing capability data based on standard inlet conditions.

Aqua Tech has a combined experience of over 50 years in the sale and maintenance of Diving Air Compressors. We can set you up from compressor, to oil, to filters, to installing, with complete maintenance schedule and tools.

**Aqua Tech,
Tomorrow's Solutions
Today**

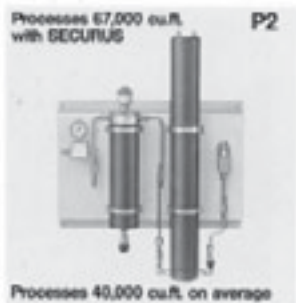
BAUER FILTERS



Processes 3,200 cu.ft.



Processes 15,000 cu.ft.

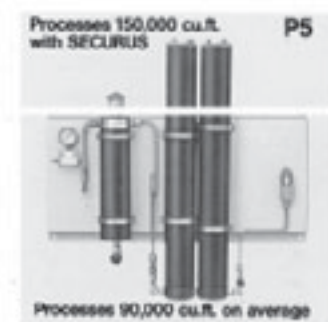


Processes 40,000 cu.ft. on average

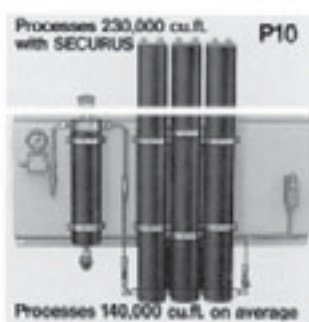


Processes 60,000 cu.ft. on average

PURIFICATION SYSTEM	STANDARD ON	CARTRIDGE NO.	APPLICATION
P0	Varius, Purus, Utilus, Utilus 10, Capitano	059183	Dryer, Purifier & Catalyst
P1	Mariner	058821	Dryer, Purifier & Catalyst
P2	K14 and O14, V14	058827	Dryer, Purifier & Catalyst
P2 Securus	Unicus 7, Verticus 3,5 & 7, FS7	060037	Dryer, Purifier & Catalyst
P4	K14-12, K15, O15, V15, V14-12	058825 058821	Dryer only Dryer, Purifier & Catalyst
P5	K20, V20	058825 058827	Dryer only Dryer, Purifier & Catalyst
P5 Securus	FS12, FS17, VT12, VT17, Unicus 12, Unicus 17, FS22	058825 060037	Dryer only Dryer, Purifier & Catalyst
DUAL P5 Securus	FS34	2 x 058825 2 x 060037	Dryer only Dryer, Purifier & Catalyst
P10	K220, V220	2 x 058825 1 x 058827	Dryer only Dryer, Purifier & Catalyst
P10 Securus	UN22, UN30, UN35, VT22, VT35, FS30, FS35, VT30	2 x 058825 1 x 060037	Dryer only Dryer, Purifier & Catalyst
P12 Securus	K230	1 x 067099 1 x 067097 1 x 065562	Dryer only Dryer & Purifier Catalyst only - optional
P14 Securus	K250, K280	2 x 067099 1 x 067097 1 x 065562	Dryer only Dryer & Purifier Catalyst only - optional



Processes 150,000 cu.ft. with SECURUS
Processes 90,000 cu.ft. on average



Processes 230,000 cu.ft. with SECURUS
Processes 140,000 cu.ft. on average



Processes 650,000 cu.ft. with SECURUS only



Processes 420,000 cu.ft. with SECURUS only

Bauer air purification systems offer a safe, dependable, and reliable means of purifying high pressure compressed air to a level of purity suitable for human respiration. The processed air is guaranteed to meet all existing U.S. and international standards for breathing air.

Air purification is accomplished by:

- Mechanical separation to remove particulate matter, oil and water droplets.
- Adsorption of vaporous water by desiccant.
- Adsorption of oil vapor and elimination of noxious odors by activated carbon.
- Conversion of carbon monoxide to breathable levels of carbon dioxide by catalyst.

Bauer purification cartridges are housed in high pressure chambers fabricated of non-corrosive anodized aluminum alloy.

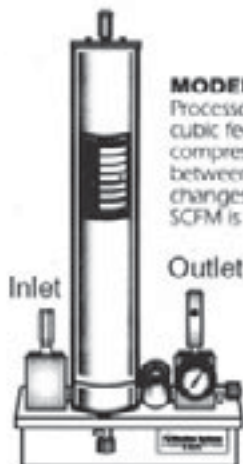
Chambers are designed in accordance with ASME standards, and have a 4 to 1 safety factor.

Process values refer to a temperature of 68°F/20°C at separator and a working pressure of 3000 psi. Air processing capability data based on inlet temperature of 70°F.

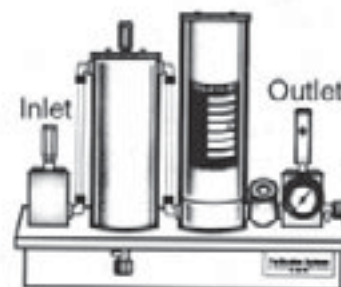
AF-SERIES FILTERS



MODEL AF-001-101
Processes up to 8,000 cubic feet of compressed air between cartridge changes. Maximum SCFM is 10.



MODEL AF-005-101
Processes up to 10,000 cubic feet of compressed air between cartridge changes. Maximum SCFM is 12.



MODEL AF-010-101
Processes up to 12,000 cubic feet of compressed air between cartridge changes. Maximum SCFM is 12.

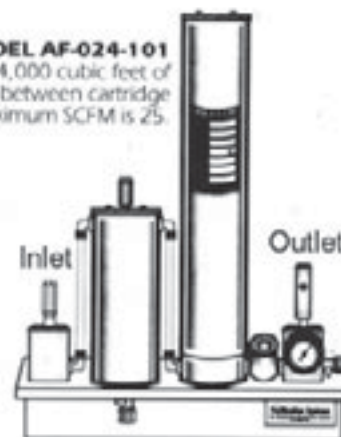
AF Series 5000 PSI - BREATHING AIR

<p>SPECIFICATIONS</p> <p>Max WP = 5,000psig Min WP = 2,000psig Max Oper Temp = 120°F Cylinder Cont = Aluminum 7075 Cylinder Finish = Hard Anodize, Black Plumbing Mat = Stainless Steel *Process Gas = Breathing Air</p>	<p>OPTIONAL</p> <p>Electronic Dewpoint Monitor Air Quality Test Program (K-amm) Automatic Drain System Isolation Valves Spanner Wrench Non-Hydrocarbon Grease Seal Kit</p>
<p>INCLUDED</p> <p>Cartridge Set Indicator Kit Instruction Manual Parts List Warranty, One year</p>	<p>ALSO AVAILABLE</p> <p>Model AF-043-101, to process 43000 cubic feet Model AF-063-101, to process 63000 cubic feet Model AF-050-101, to process 500,000 cubic feet Model AF-075-101, to process 750,000 cubic feet</p>

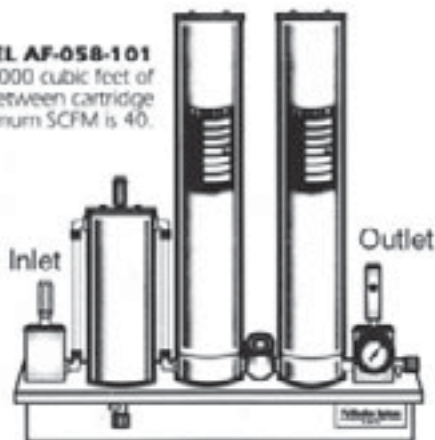
AF SERIES APPLIANCES CAN BE DESIGNED TO YOUR SPECIFIC CONDITIONS

* STANDARD QUALITY PLUMBING CONNECTIONS TO 3/4" DIA. INLET CONNECTIONS ARE NOT USED

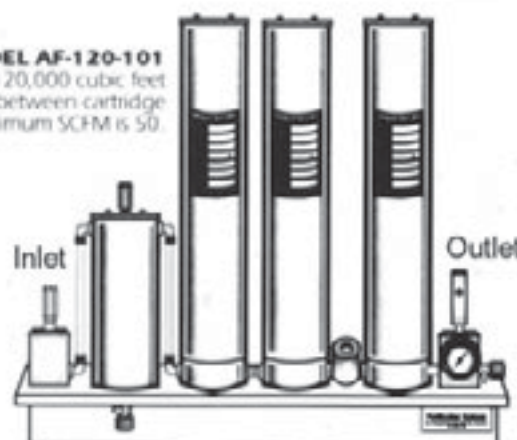
MODEL AF-024-101
Processes up to 24,000 cubic feet of compressed air between cartridge changes. Maximum SCFM is 25.



MODEL AF-058-101
Processes up to 58,000 cubic feet of compressed air between cartridge changes. Maximum SCFM is 40.

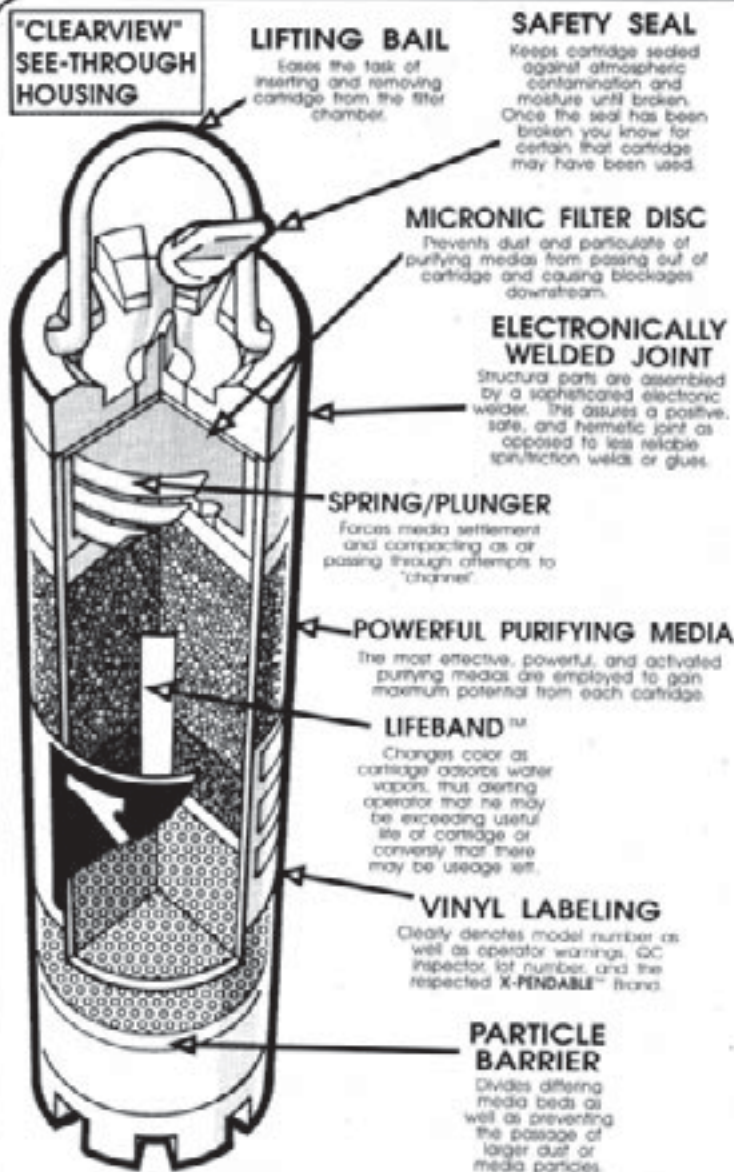


MODEL AF-120-101
Processes up to 120,000 cubic feet of compressed air between cartridge changes. Maximum SCFM is 50.



Let Aqua Tech Design your Breathing Air System from the ground up. We can supply you with everything you need from complete compressor systems to stainless steel piping, fittings, cylinder fill stations, filter systems and replacement chemical cartridges.

L-FACTOR X-PENDABLE FILTER



L-Factor X-PENDABLE® Cartridges, available from Aqua Tech are the finest designed **Breathing Air Filter** available today. With more than **300 models** of the **L-Factor X-PENDABLE®** in production you are sure to find the cartridge to fit your air purification system when it's time for the next change.

Save your old cartridge next time you change and then order a new **L-Factor X-PENDABLE**. By a simple visual inspection of the cartridge when you receive it, you can determine that everything is properly assembled and you have the correct cartridge in hand. **Now, Look at your old cartridge!!! Can you honestly determine what is inside or if it is designed to do the correct job for your air system?**

To order L-Factor X-PENDABLE Cartridges from Aqua Tech; First determine the brand name of your filter system, the model number of each filter cartridge holder and the compressor cubic feet per minute rating. Now call Aqua Tech and order the proper L-Factor X-Pendable® Filter Cartridge for your particular system.

L-Factor X-PENDABLE Replacements available for the following brand systems:

- | | |
|------------------------|-----------------------|
| Air Dry Corp.® | Ingersol Rand® |
| Aero -Dri Corp.® | Innerspace Research® |
| Aero Sub® | Jordair/JMAR® |
| Allied Air Products® | Joy Compressors® |
| American Bristol® | Mako Compressors® |
| Bauer Compressors® | Nautica Compressors® |
| Bentley Pneumatics® | Poseidon Compressors® |
| Breathing Air Systems® | Rix Compressors® |
| Deltech Engineering® | Robbins Aviation® |
| Dynatech Frontier® | Stark Manufacturing® |
| Eagle Air Systems® | Sterling Compressor® |
| Fluid Concepts® | Gannon® |

Compressed Gas Association (CGA) Standards for AIR			
Analyte	Grade D	Grade E	Grade G
OXYGEN by %	19.5 - 23.5	20 - 22	19.5 - 23.5
WATER VAPOR ppm			
DEW POINT of			
CONDENSED OIL mg/cm	5	5	
CARBON MONOXIDE ppm	10	10	5
ODOR			
CARBON DIOXIDE ppm	1000	500	500
HYDROCARBONS Methane		25	15
NITROGEN DIOXIDE ppm			2.5
SULFUR DIOXIDE ppm			2.5
HALOGEN SOLVENT ppm			10

X-PENDABLE™ cartridges, when properly used, will produce breathing air conforming to the standards of CGA Grades D and E, the U.S. Navy, CGMA, NFPA 1500, and U.S. Federal Specification Grade B. On request, cartridges to meet higher specifications can be supplied.

L-FACTOR FILTER MEDIA

L-Factor

Desiccant Blend

An economy product, carefully blended mixture of Molecular Sieves 4a and Silica Gel Desiccant. Best of adsorbing water vapor and droplets. This 50/50 blend is very popular among processors of high volumes of air and gas. It is recommended to apply this reagent ONLY as a gas drying media with first exposure to the gas stream. DO NOT REGENERATE this media once contaminated with substances other than water.

Product No. 2450-
INDICATE SIZE

USES INCLUDE: WATER DROPLET ABSORPTION and WATER VAPOR ADSORPTION TO 140°F

L-Factor

Silica Gel Desiccant

Gel Desiccant is a moderately powerful media best at absorbing water vapor and droplets. Gel Desiccant finds good use in applications of atmospheric or low pressures and at low temperatures. It is recommended to apply this reagent ONLY as a gas drying media with first exposure to the gas stream. DO NOT REGENERATE this media if contaminated with substances other than water.

Product No. 2410-
INDICATE SIZE

USES INCLUDE: WATER DROPLET ABSORPTION and WATER VAPOR ADSORPTION TO 125°F

L-Factor

Alumina Desiccant

Alumina Desiccant is a moderately powerful media best at adsorbing water vapor and droplets. Alumina Desiccant finds good use in applications of low pressures and at temperatures below 150 degrees. It is recommended to apply this reagent ONLY as a gas drying media with first exposure to the gas stream. DO NOT REGENERATE this media if contaminated with substances other than water.

Product No. 2422-
INDICATE SIZE

USES INCLUDE: WATER DROPLET ABSORPTION and WATER VAPOR ADSORPTION TO 150°F

L-Factor

Molecular Sieves 4A

Molecular Sieves 4A is a highly powerful media best of adsorbing water vapor and droplets. Substances in the hydrocarbon groups also have an affinity towards Molecular Sieves 4A although water has a stronger bond within most gas applications. It is recommended to apply this reagent ONLY as a gas drying media with first exposure to the gas stream. DO NOT REGENERATE this media if contaminated with substances other than water.

Product No. 2441-
INDICATE SIZE

USES INCLUDE: WATER DROPLET ADSORPTION and WATER VAPOR ADSORPTION TO 200°F

L-Factor

Molecular Sieves 13X

VAPORSHELL™ brand molecular sieves 13x is our highest grade of desiccant reagent. VAPORSHELL™ is at least four times more powerful than other desiccants, especially when approaching use at higher temperatures. VAPORSHELL™ can hold up to 1/4 of its own weight in water and also has capacities for hydrocarbons, carbon dioxide, and other organics. VAPORSHELL™ may be applied as a reagent in gas purifying, alone or within a compound bed of appropriate medias. DO NOT REGENERATE this media if contaminated with substances other than water.

Product No. 2457-
INDICATE SIZE

USES INCLUDE: Adsorption of WATER VAPORS to 225°F. Adsorption of HYDROCARBONS, CARBON DIOXIDE, and OIL VAPORS.

L-Factor

Activated Carbon

L-Factor Activated Carbons are among the most powerful available. Their high density provide low dust and high capacity characteristics. These reagents are quite effective of absorbing oil droplets and vapors, as well as hydrocarbons, organics, and halogenated solvents. It is recommended to apply this reagent ONLY after the gas stream has been thoroughly dehydrated. DO NOT REGENERATE this media.

Product No. 2426-
INDICATE SIZE

USES INCLUDE: Absorption of OIL DROPLETS, OIL VAPORS, HYDROCARBONS, and HALOGENATED SOLVENTS.

L-Factor

Monoxycon Catalyst

Where carbon monoxide is a concern, Monoxycon™ (pronounced MO-nox-ee-con) Catalyst is the solution. Commonly employed within breathing air systems, this reagent catalytically converts "deadly" carbon monoxide to less harmful carbon dioxide. The gas stream MUST be dehydrated to levels below 50 degrees F prior to entering the Monoxycon™ media. The higher levels of carbon dioxide, present after treatment, MUST be removed with an adsorption reagent such as Vaporshell™. DO NOT REGENERATE this media.

Product No. 2442-
INDICATE SIZE

USES INCLUDE: Catalytic conversion of CARBON MONOXIDE.

L-Factor

Indicator Reagent

Several Indicating Reagents are available which change color in order to show the presence of high levels of contamination. 1) BLUE GEL monitors moisture. 2) BROWN GEL monitors carbon monoxide and organics. 3) WHITE GEL monitors oil vapors. Particles may be blended within other filter medias or layered at top of media bed. Contamination can be detected by monitoring color changes. DO NOT REGENERATE this media.

Product 1 No. 2452-
INDICATE SIZE

Product 2 No. 2453-
INDICATE SIZE

Product 3 No. 2454
INDICATE SIZE

L-Factor FILTER REAGENTS are packaged in a variety of sizes. Please specify your preference by adding the following suffixes to the product number:

PINT -06 QUART -12 GALLON -01
2-1/2 GALLON -25 20 GALLON -20
55 GALLON -55 50 LB -50



HASKEL GAS BOOSTERS

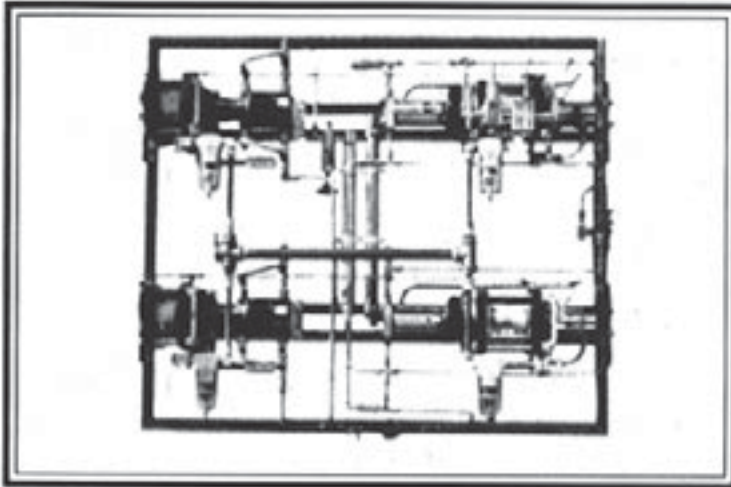
CONTAMINANT — FREE AIR DRIVEN GAS BOOSTERS

General Description

Haskel Gas Boosters consist of a large area reciprocating air drive piston directly coupled by a connecting rod to a small area gas piston. The gas piston operates in a high pressure gas barrel section. Each gas barrel end cap contains high pressure inlet and outlet check valves. The air drive section includes a cycling spool and pilot valves that provide continuous reciprocating action when air is supplied to the air drive inlet.

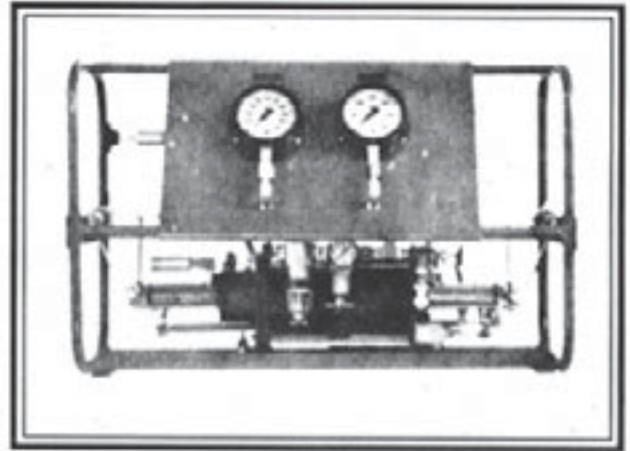
Isolation of the gas compression chambers from the air drive section is provided by three sets of dynamic seals. The intervening two chambers are vented to atmosphere. This design prevents air drive contamination from entering the gas stream.

Cooling is provided by routing the cold exhausted drive air through an individual jacket surrounding the gas barrel and also through an intercooler on the interstage line (of two stage models only).



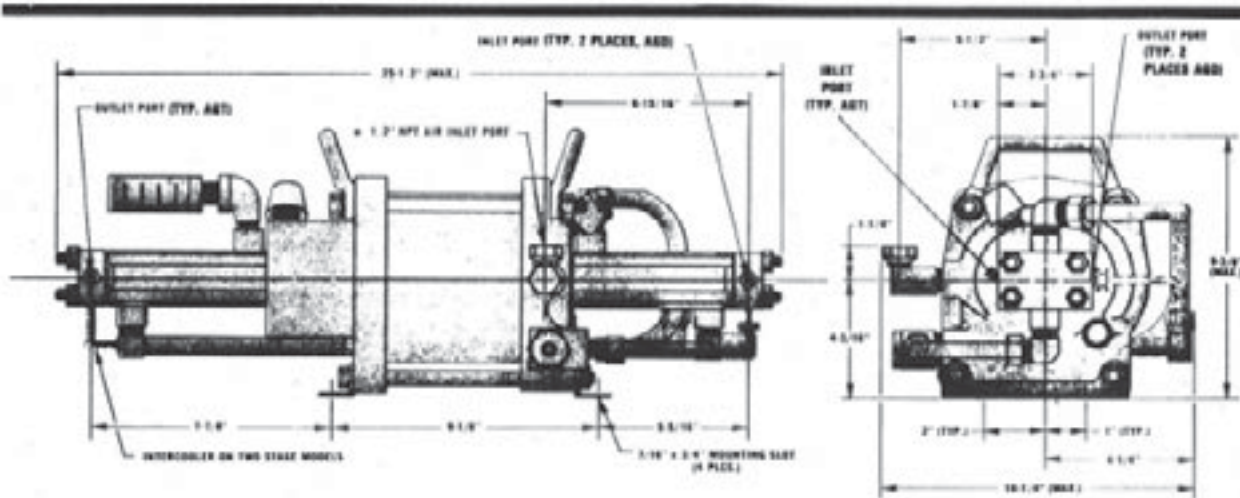
29425 DIVING CONTRACTOR HELIUM AND MIXED GAS TRANSFER SYSTEM

This unit has high performance in either high or low compression ratio applications because it includes valving to enable use of the boosters in either 2 stage or 3 stage configurations, depending on need. Boosters, piping and controls are also suitable for pure oxygen service.



26968 STANDARD OXYGEN BOOSTER UNIT

This popular system includes all gauges, controls, filters and stainless steel piping for pumping directly and unattended from conventional 2,000-2,500 PSI oxygen supply cylinders. Typical uses are recharging portable breathing cylinders in the diving, medical, aviation and safety equipment field. Basic Booster is Model AGT-15/30 with special preparation for pure oxygen service.



AGD-15, AGD-30, AGD-75, AGT-15/30, AGT-15/75, AGT-30/75 Weight (Approx.) 43 lbs.
 SINGLE AIR HEAD — DOUBLE ACTING OR TWO STAGE (AGT MODELS INCLUDE INTERCOOLER)

HASKEL MODEL SELECTION CHART

Model Selection Chart

TYPE	MODEL NUMBER	MAX. RATED GAS OUTLET PRESS. PSIG Bar	MIN. NORMAL GAS SUPPLY PRESS. PSIG Bar	MAXIMUM OPERATING PRESSURE WITH AIR DRIVE PRESSURE "P _A " GAS SUPPLY PRESSURE "P _S "		MAX. COMP. RATIO	PISTON DISPLACEMENT			TYPICAL GAS DELIVERY ACTUAL VOLUME AT PRESSURE (Air Drive 25 SCFM at 85 PSI)		
				SUPPLY P _S PSIG Bar	OUTLET "P _O "		PER CYCLE IN ³ LITRE	BASIC DISPLACEMENT "D _B " AT ZERO LOAD 100 PSI DRIVE	SUPPLY		OUTLET	
									ACT	MIN	ACT	MIN
				PSIG Bar	PSIG Bar		IN ³ @ PSI	LIT @ BAR	IN ³ @ PSI	LIT @ BAR		
SINGLE ACTING SINGLE STAGE	AG-1.5	300 20.7	ATM	300 20.7	1.5 P _A P _S	10:1	31.9 .522	215	6860 112	2930 @ 100 48.0 @ 7	1530 @ 205 25.1 @ 14.1	
	AG-4	600 41	ATM	600 41	4 P _A	10:1	10.0 .164	290	2500 41.0	900 @ 100 14.7 @ 7	350 @ 280 5.74 @ 19.3	
	AG-7	1050 72.4	25 1.7	1050	7 P _A	20:1	13.2 .216	124	1630 26.7	590 @ 100 9.67 @ 7	135 @ 490 2.21 @ 33.8	
	AG-15	2250 155	50 3.5	2250 155	15 P _A	20:1	6.2 .101	124	789 12.6	287 @ 300 4.70 @ 20.7	85 @ 1050 1.39 @ 72.4	
	AG-30	4500 310	100 7	4500 310	30 P _A	25:1	3.1 .051	124	384 6.29	142 @ 500 2.33 @ 34.5	34.5 @ 2100 .565 @ 145	
	AG-62	9000 620	200 14	9000 620	60 P _A	25:1	3.1 .091	80	248 4.06	91.5 @ 1000 1.50 @ 69.0	22.0 @ 4200 .361 @ 290	
	AG-75	11,250 775	250 17	11,250 775	75 P _A	25:1	1.2 .020	124	149 2.44	55.7 @ 1500 .913 @ 103	16.0 @ 5250 .262 @ 362	
	AG-152	20,000 1380	250 17	20,000 1380	150 P _A	25:1	1.2 .020	80	96 1.57	34.5 @ 2000 .565 @ 138	6.6 @ 10500 .108 @ 724	
	AG-233	22,500 1550	250 17	22,500 1550	225 P _A	25:1	1.2 .020	69	84 1.38	26.8 @ 2000 .439 @ 138	3.4 @ 15750 .056 @ 1084	
DOUBLE ACTING SINGLE STAGE	AGD-4	1250 86.2	ATM	1250 86.2	4 P _A + P _S	10:1	19.3 .316	245	4730 77.5	1490 @ 100 24.4 @ 7	433 @ 380 7.10 @ 26.2	
	AGD-7	2500 172	25 1.7	2500 172	7 P _A + P _S	20:1	26.4 .433	100	2640 43.3	962 @ 200 15.8 @ 13.8	226 @ 900 3.70 @ 62.1	
	AGD-15	5000 345	50 3.5	5000 345	15 P _A + P _S	20:1	12.4 .203	100	1240 20.3	442 @ 300 7.24 @ 20.7	102 @ 1350 1.67 @ 93.1	
	AGD-30	9000 620	100 7	9000 620	30 P _A + P _S	25:1	6.2 .102	100	620 10.2	215 @ 500 3.52 @ 34.5	42.3 @ 2600 .693 @ 179	
	AGD-62	9000 620	200 14	9000 620	60 P _A + P _S	25:1	6.2 .102	69	428 7.01	160 @ 1000 2.62 @ 69.0	31 @ 5200 .508 @ 359	
	AGD-75	20,000 1380	250 17	20,000 1380	75 P _A + P _S	25:1	2.4 .039	100	240 3.93	92 @ 1500 1.51 @ 103	20.6 @ 6750 .338 @ 466	
	AGD-152	20,000 1380	250 17	20,000 1380	150 P _A + P _S	25:1	2.4 .039	69	166 2.72	59 @ 2000 .967 @ 138	9.5 @ 12500 .156 @ 862	
	AGD-152H	25,000 1724	250 17	25,000 1724	150 P _A + P _S	25:1	2.4 .039	69	166 2.72	66 @ 6000 1.08 @ 414	24 @ 16500 .393 @ 1138	
	TWO STAGE	AGT-4	1250 86.2	¼ ATM	1250 86.2	4 P _A + P _S	100:1	10.0 .164	250	2500 41.0	1035 @ 25 17.0 @ 1.70	129 @ 305 2.11 @ 21.0
AGT-7/15		4000 276	25 1.7	6 P _A	15 P _A 2 P _S	50:1	13.2 .216	100	1320 21.6	529 @ 100 8.67 @ 7	48 @ 1250 .79 @ 86.2	
AGT-7/30		5500 375	25 1.7	2 P _A	30 P _A + 4 P _S	100:1	13.2 .216	100	1320 21.6	463 @ 100 7.59 @ 7	21.1 @ 2900 .346 @ 172	
AGT-15/30		8500 586	50 3.5	15 P _A	30 P _A 2 P _S	50:1	6.2 .102	100	620 10.2	254 @ 300 4.16 @ 20.7	29.4 @ 2700 .482 @ 186	
AGT-15/75		13,000 897	50 3.5	3.5 P _A	75 P _A + 5 P _S	100:1	6.2 .102	100	620 10.2	179 @ 150 2.93 @ 10.3	4.89 @ 6000 .080 @ 414	
AGT-32/62		9000 621	100 7	30 P _A	60 P _A + 2 P _S	50:1	6.2 .102	69	428 7.01	177 @ 1000 2.90 @ 69	28.9 @ 6200 .474 @ 428	
AGT-30/75		16,000 1100	100 7	20 P _A	75 P _A + 2.5 P _S	60:1	3.1 .051	100	310 5.08	121 @ 500 1.98 @ 34.5	9.59 @ 6500 .157 @ 448	
AGT-32/152		20,000 1380	100 7	7 P _A	150 P _A 5 P _S	100:1	6.2 .102	69	428 7.01	127 @ 350 2.08 @ 24.1	3.78 @ 12250 .062 @ 845	
AGT-32/152H		25,000 1720	100 7	7 P _A	150 P _A + 5 P _S	100:1	6.2 .102	69	428 7.01	154 @ 700 2.52 @ 48.3	7.86 @ 14000 .129 @ 966	
AGT-62/152		20,000 1380	100 7	40 P _A	150 P _A + 2.5 P _S	60:1	3.1 .051	69	214 3.51	83.8 @ 1000 1.37 @ 69	6.53 @ 13000 .107 @ 897	
AGT-62/152H	25,000 1720	100 7	40 P _A	150 P _A + 2.5 P _S	60:1	3.1 .051	69	214 3.51	89.6 @ 2000 1.47 @ 13.8	11.6 @ 15500 1.47 @ 1070		

Single Acting Single Stage model "AG" boosters provide economical means of boosting pressure for testing of small components and similar applications where volume is small and efficiency is not important. They also permit control of maximum pressure by means of an inexpensive air drive pressure regulator. Maximum outlet pressure is drive area ratio times air pressure.

Double Acting Single Stage model "AGD" boosters not only pump twice the volume of the above per cycle but also require less air drive since the inlet gas pressure itself provides a substantial portion of the required driving force. These models provide efficient means of boosting large volumes of gas at low to medium compression ratios*. Maximum outlet pressure is drive area ratio times air pressure PLUS supply pressure.

*Note: Compression ratio is ratio of outlet gas pressure to inlet gas pressure.

Do not confuse this with DRIVE area ratio which is ratio of air drive piston area to gas piston area.

STORAGE BANKS & FITTINGS

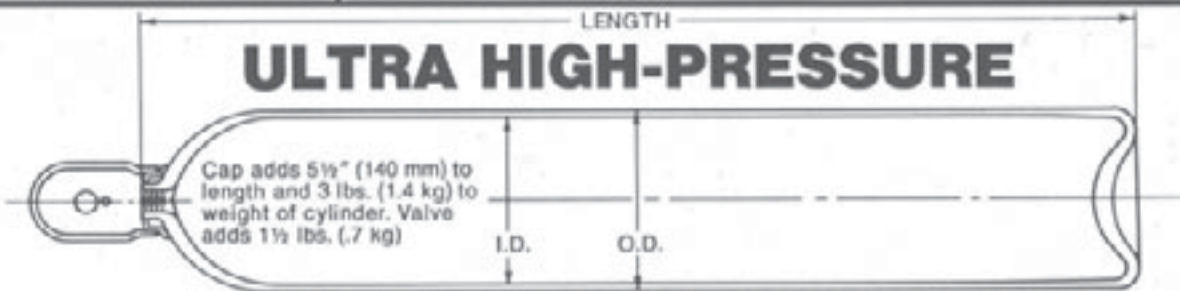




ITEM NO. CV4-M
IN-LINE PIPE THREAD CHECK VALVE CONNECTORS.

The Female to Male Check Valve is not reversible. The body is stamped with the flow direction for easy identification. Order w/proper flow direction.

Copper Pigtails For Manifolding			BRASS	STAINLESS STEEL	DESCRIPTION
ITEM NO.	DESCRIPTION	CHECK VALVE	CV4-M	CV4-MSS	1/4" NPT Male inlet to Male-outlet
P-1340	Air-CGA-346	P-1340CV	CV6-M		3/8" NPT Male inlet to Male-outlet
P-63	Oxy-CGA-540	P-63CV	CVF-4M	CVF-4MSS	1/4" NPT Female inlet to Male outlet
P-92	Hellum-CGA-580	P-92CV	CVM-4F	CVM-4FSS	1/4" NPT Male inlet to Female outlet
P-93	Ind.Air-CGA-590	P-93CV	Aqua Tech for Industrial Gas Fittings and Storage Bottles		



Cylinders are manufactured to permit 10% overfilling in compliance with DOT regulations and are so marked (+) when specified by customer.

ENGLISH TABLE

NWSA ITEM CODE NUMBER	DOT 3AA	APPROX. NITROGEN CAPACITY @70°F (Cu. Ft.)	NOMINAL DIMENSIONS (Ins.)				NOMINAL WEIGHT INCL. COLLAR (Lbs.)	MIN. WATER CAPACITY (Cu. In.)	PRESSURES (PSI)	
			I.D.	O.D.	LGTH.	WALL			WORK	TEST
35023	3500	336	8 1/2	9 1/4	51	.375	188	2640	3500	5840
36023	3600	345	8 1/2	9 1/4	51	.375	188	2640	3600	6000
60023	6000	480	8 1/2	9 1/4	51	.645	300	2579	6000	10000

METRIC TABLE

NWSA ITEM CODE NUMBER	DOT 3AA	APPROX. NITROGEN CAPACITY @15°C (Cu. Meters)	NOMINAL DIMENSIONS (MM)				NOMINAL WEIGHT INCL. COLLAR (KG)	MIN. WATER CAPACITY (Liters)	PRESSURES (kPa)	
			I.D.	O.D.	LGTH.	WALL			WORK	TEST
35023	3500	9.36	216	235	1295	9.53	85.3	43.27	24130	40270
36023	3600	9.60	216	235	1295	9.53	85.3	43.27	24820	41370
60023	6000	13.36	216	249	1295	16.38	136.1	42.27	41370	68950

NOTE: 100 kPa = 1 bar

NOTE-All cylinders furnished with 3/4-14 NGT internal thread, unless otherwise specified.

AIR FILL STATION FITTINGS



All pigtails are 100% tested before shipping.

Special pigtail lengths available.

Stainless Steel Pigtails can be used in applications where flexing of the line is necessary. These Pigtails are fabricated with an inner lining of Teflon® and an outer Stainless Steel Braiding to protect the Liner and allow a high degree of flex in the line. These Pigtails have Brass end fittings attached. In extreme flex applications these Pigtails can be ordered with a **Spring Guard** factory installed. Simply add the letter "B" to the part number.

Example: Oxygen Pigtail 24" long with Spring Guard.
ORDER # PF-63-24-B

COMPLETE PIGTAIL ASSEMBLIES, PLEASE INDICATE LENGTH DESIRED. STANDARD LENGTHS OF TUBE=18" -24" -36" -48"

1/4" NPT FEMALE TO 1/4" NPT FEMALE
 PRESSURES UP TO 3000 psi (20,700 kPa)

PF-4	Pigtail With Female Fittings (Show Length)
PF-4-SS	Pigtail With Stainless Steel Female Fittings (6000 psi)

CGA-346 AIR
 PRESSURES UP TO 3000 psi (20,700 kPa)

PF -346	Standard Pigtail-R.H. Female Nuts
PF-346CV	Pigtail With Check Valve on Inlet Side
PF-346HT	Pigtail With Hand-Tight Nut-One End
PF-346PH	Pigtail With Handle
PF-346V	Pigtail With Brass Shut-Off Valve

CGA-590 INDUSTRIAL AIR
 PRESSURES UP TO 3000 psi (20,700 kPa)

PF -93	Standard Pigtail-L.H. Male Nuts
PF-93CV	Pigtail With Check Valve on Inlet Side
PF-93HT	Pigtail With Hand-Tight Nut-One End
PF-93PH	Pigtail With Handle
PF-93V	Pigtail With Brass Shut-Off Valve

Aqua Tech is a Stocking Distributor for many Major Fitting Companies. We can supply your requirements out of our large stocks of fittings.

CGA-540 OXYGEN
 PRESSURES UP TO 3000 psi (20,700 kPa)

PF -63	Standard Pigtail-R.H. Female Nuts
PF-63CV	Pigtail With Check Valve on Inlet Side
PF-63HT	Pigtail With Hand-Tight Nut-One End
PF-63PH	Pigtail With Handle
PF-63V	Pigtail With Brass Shut-Off Valve

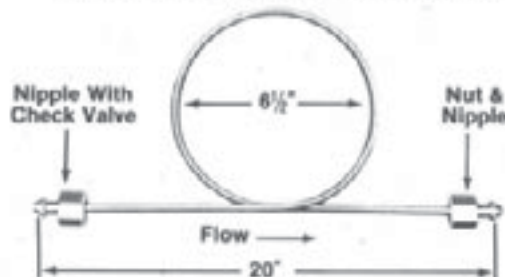
CGA-580 NITROGEN, ARGON, HELIUM*
 PRESSURES UP TO 3000 psi (20,700 kPa)
 (For Helium gas service please order PFS-92 Series)

PF -92*	Standard Pigtail-R.H. Female Nuts
PF-92CV*	Pigtail With Check Valve on Inlet Side
PF-92HT*	Pigtail With Hand-Tight Nut-One End
PF-92PH*	Pigtail With Handle
PF-92V*	Pigtail With Brass Shut-Off Valve

PIGTAILS WITH STAINLESS STEEL END FITTINGS
 6000 psi PRESSURE RATED (STANDARD LENGTH-24")

PF-4SS	1/4" NPT Female to 1/4" NPT Female Stainless Steel
PF-347SS	CGA-347 High Pressure Air R.H. Female Stainless Steel

36" STAINLESS STEEL PIGTAILS
 Standard or With Check Valves
 All CGA Fittings 303 Stainless Steel



Standard		W/Check Valve
PS-346	CGA-346 R.H. Female-Air	PS-346CV
PS-540	CGA-540 R.H. Female-Oxygen	PS-540CV
PS-580	CGA-580 R.H. Male-Nitrogen	PS-580CV
PS-590	CGA-590-L.H. Male-Industrial Air	PS-590CV
PS-677	CGA-677 L.H. Female-Air, Argon	PS-677CV

AIR COMPRESSOR OIL

Monolec Air Compressor

Lubrication Engineers MONOLEC Air Compressor Oil (ISO 100) has been the industrial standard for Hard Hat Divers for over 20 years. 6404 Is used extensively along the Gulf and Pacific coasts of the US, in lakes and rivers, as well as worldwide. The quality of the air the hard hat divers receive is a function of the compressor, the filtration equipment, and the oil. 6203 Results in a reduced amount of carbon dioxide, methane, total gaseous hydrocarbons and oil mist particulates in the air being supplied to the diver. Testing has verified that air samples produced using LE's 6404 meets all specifications for breathing air as recommended in the U.S. Navy Diving Manual and by the Compressed Gas Association for CGA grades up to F. ISO 9001 Certified.

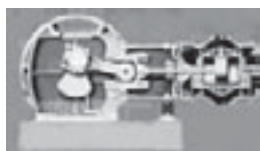


Aqua Tech stocks lubricants for all your diving needs.

LUB6404 LUB6405 **Monolec Air Compressor Oil**

Meets all needs of both reciprocating and rotary compressors as well as vacuum pumps not requiring and EP oil. The oxidation resistance of this oil is an important factor because of the extreme temperatures of air compression. Special additives control deposits and give protection against wear, corrosion, and rust. Contains Monolec wear-reducing additive. Monolec will reduce overall lubrication costs, reduce lubrication frequencies, friction reduction, reduced down time, longer service life, are amongst some of the advantages of using Monolec.

Monolec has many different types of products, Aqua Tech stocks 6404 and 6405. 6404 Has a rating of SAE 30, 6405 has a rating of SAE 40. Available in Gallon quantities or higher. Physical characteristics and/or Material Safety Data available on request.



Specialty Lubricants
Excellence Is Our Standard
ISO 9002 Registered

Anderol Specialty Lubricants

Since their original development in 1941, Anderol Synthetic Lubricants have gained a global reputation for their "leading edge" performance. Anderol pioneered, and is still the worldwide leader, in high-purity synthetic lubricants used in many of the most demanding industrial applications. Anderol's products includes synthetic lubricants for such varied uses as air and gas compressors, bearings, gears, food grade, hydraulics, textile machinery, and chains. Whenever a lubricant must withstand harsh and rigorous conditions Anderol will meet your expectations.

AND500 AND750 **Anderol Air Compressor Oil**

Anderol 500 (SAE30) is an ISO 100 diester based lubricant designed to provide high temperature and long-term lubrication with minimal deposit formation. Anderol 500 is a cylinder and crankcase lubrication for reciprocating and vacuum pumps for the following gases; AirButadiene, Benzine Carbon Monoxide, Carbon Dioxide (dry) Furnace (crack) gas, Ethylene Sulfur Hexafluoride, Helium Natural gas, and Methane Propane. Anderol 750 is an ISO 150 diester based lubricant designed to provide high temperature and long-term lubrication. Anderol 500 and 750 are rated H2 for use in food processing plant applications. Anderol 750 is for cylinder and frame lubrication of reciprocating vacuum pumps using the following gases: Air Carbon Dioxide (dry), Butadiene Ethylene, Carbon Monoxide Helium, Furnace (crack) Gas Hydrogen Sulfide (dry), Hydrogen Natural Gas, Methane Propane, Nitrogen Synthesis Gas, and Sulfur Hexafluoride.

Anderol has many different types of products. Aqua Tech stocks Anderol 500 and 750. Available in gallon quantities or higher. Physical characteristics and/or Material Safety Data are available on request.



AQUA TECH

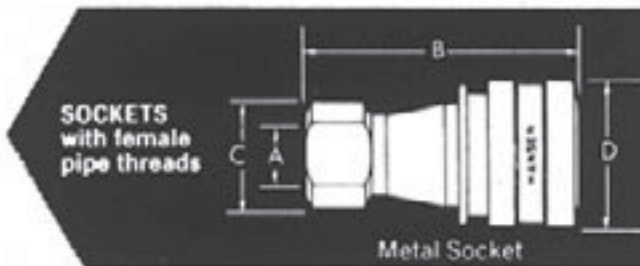
comsales@divecenter.com / milsales@divecenter.com
Toll free 1-800-345-3252 / Fax 619-237-1886

www.Divecenter.com

HANSEN QUICK DISCONNECT

Series 1-HK to 8-HK SOCKETS

Any Plug and Socket from the same Series, regardless of end connection, fit together to make a Coupling Assembly.



APPROXIMATE LENGTH OF SOCKET AND PLUG CONNECTED=B+F

SLEEVE LOCK DEVICE

For optional Sleeve Lock Device add suffix -SL to Part No. Not available on Sockets with prefix UL or ML.

NOTE: Each Socket uses one O-ring per the table below.

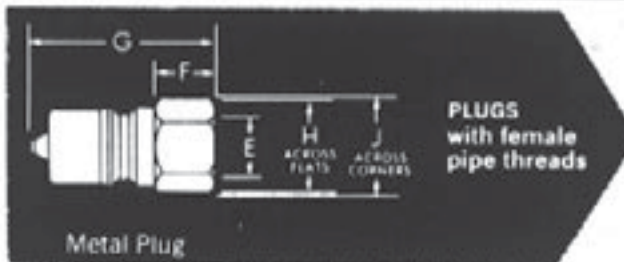
Socket Series	O-RING PART NO.		
	Standard	High Pressure	UL
1-HK	914-1		914-1-146
2-HK	914-3	914-3-107	914-3-146
3-HK	902-14	902-14-107	902-14-146
4-HK	902-18	902-18-107	—
6-HK	902-23	902-23-107	—
8-HK	902-27	902-27-107	—

SERIES	PART NUMBERS		DIMENSIONS				WORKING PRESS.	
	BRASS	STAINLESS STEEL	A	B	C	D	BRASS	S/S STEEL
1-HK	B1-H11	*UL1-H11	1/8" FPT	1.91	0.69	1.00	3000PSI	5000PSI
2-HK	B2-H16	*UL2-H16	1/4" FPT	2.27	0.88	1.19	3700	3700
3-HK	B3-H21	*UL3-H21	3/8" FPT	2.56	1.00	1.44	2700	3000
4-HK	B4-H26		1/2" FPT	2.94	1.28	1.88	3500	4200
6-HK	B6-H31		3/4" FPT	3.48	1.56	2.25	2200	2700
8HK	B8-H36		1" FPT	4.13	1.86	2.63	1500	1700

*UL LISTED for use at the fuel container on LP-Gas fueled industrial lift trucks or tractors employing removable fuel containers. Uses — 146 seal material and stainless steel valve assembly.

Series 1-HK to 8-HK PLUGS

Any Plug and Socket from the same Series, regardless of end connection, fit together to make a Coupling Assembly.



Couplings are available from Aqua Tech without internal valves for application as high pressure straight through Couplings. Contact Aqua tech for other Straight-Through Couplings and Manufacturers Literature.

BRITISH PARALLEL PIPE THREAD

Series 1-HK to 8-HK available with British Parallel Pipe Thread. Contact Aqua Tech for information.

SERIES	PART NUMBERS		DIMENSIONS			
	BRASS	STAINLESS STEEL	E	F	G	H
1-HK	B1-K11	*UL1-K11	1/8" FPT	0.42	1.27	0.56
2-HK	B2-K16	*UL2-K16	1/4" FPT	0.53	1.53	0.75
3-HK	B3-K21	*UL3-K21	3/8" FPT	0.56	1.75	0.88
4-HK	B4-K26		1/2" FPT	0.63	2.02	1.13
6-HK	B6-K31		3/4" FPT	.067	2.36	1.31
8HK	B8-K36		1" FPT	0.97	2.86	1.63

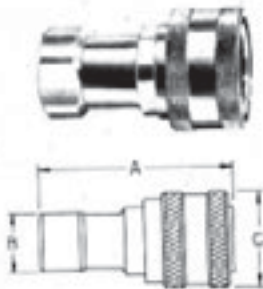
NOTE: The standard valve assemblies in the Series 1-HK, 2-HK and 3-HK Sockets and Plugs are of the take-apart design which are staked because of configuration and, therefore, seals are non-replaceable. The Series 4-HK, 6-HK and 8-HK Sockets and Plugs are furnished with valves of the standard replaceable seal style in the appropriate metal.

*UL LISTED for use at the fuel container on LP-Gas fueled industrial lift trucks or tractors employing removable fuel containers. Uses — 146 seal material and stainless steel valve assembly.

60 SERIES QUICK DISCONNECT COUPLERS

60 Series Couplers

Female Thread



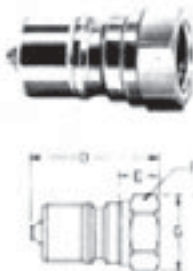
60 Series Quick Disconnect Couplings sold by AquaTech and used in the Diving Trade are machined of both Brass and 303 Stainless Steel. Brass Couplings have double "O"-Ring Seals and Stainless Steel Locking Balls.

Standard Seal Materials are Buna-N (Nitrile).

All sizes of 60 Series can be furnished with locking sleeves to help prevent accidental disconnection of the Coupling. Place suffix letters "SL" (Sleeve Locking) after regular Part Number.

EXAMPLE: SH2-62SL

Female Thread



Couplers

BODY SIZE (Inches)	PART NO.		THREAD SIZE		DIMENSIONS (Inches)		
	brass	Type 303 stainless	NPTF	ORB thread	overall length	wrench flats	largest diameter
					A	B	C
1/8	BH1-60	SH1-62	1/8-27	-	1.91	0.55	0.94
1/8	BH1-60-T4	SH1-62-T4	-	1/8-20	2.06	0.69	0.94
1/4	BH2-60	SH2-62	1/4-18	-	2.25	0.75	1.13
1/4	BH2-60-T6	SH2-62-T6	-	1/4-18	2.41	0.81	1.13
3/8	BH3-60	SH3-62	3/8-18	-	2.49	0.88	1.38
3/8	BH3-60-T8	SH3-62-T8	-	3/8-18	2.75	1.00	1.38
1/2	BH4-60	SH4-62	1/2-14	-	2.85	1.13	1.75
1/2	BH4-60-T10	SH4-62-T10	-	1/2-14	3.03	1.19	1.75
3/4	BH6-60	SH6-62	3/4-14	-	3.55	1.31	2.13
3/4	BH6-60-T12	SH6-62-T12	-	1 1/8-12	3.67	1.38	2.13
1	BH8-60	SH8-62	1-11 1/8	-	4.18	1.62	2.50
1	BH8-60-T16	SH8-62-T16	-	1 1/8-12	4.18	1.68	2.50

Industry Wide Interchangeability. Parker 60 Series couplers and nipples are the "Industrial Interchange" design and meet the dimensional requirements of Series B in ISO 7241-1.

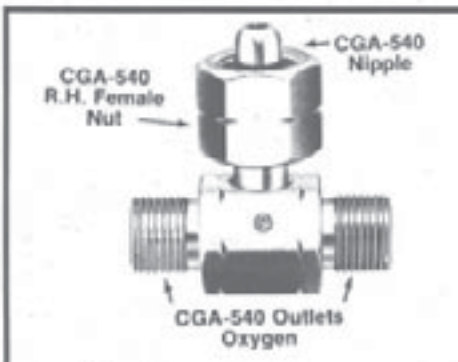
Order from Aqua Tech with "NPT" (Tapered Standard Pipe Thread) or "ORB" (Straight Thread).

BODY SIZE	BODY SIZE							
	1/8	1/4	3/8	1/2	3/4	1	1 1/2	2 1/2
Rated Pressure (PSI)								
Brass	1000	1000	1000	1000	1000	1000	800	800
Stainless steel	2000	2000	1500	1500	1500	1000	1000	1000

Nipples

BODY SIZE (Inches)	PART NO.		THREAD SIZE		DIMENSIONS (Inches)			hex size	largest diameter
	brass	Type 303 stainless	NPTF	ORB	overall length	exposed length	hex size		
					D	E	F	G	
1/8	BH1-61	SH1-63	1/8-27	-	1.37	0.43	0.56	0.65	
1/8	BH1-61-T4	SH1-63-T4	-	1/8-20	1.42	0.59	0.69	0.79	
1/4	BH2-61	SH2-63	1/4-18	-	1.54	0.53	0.75	0.87	
1/4	BH2-61-T6	SH2-63-T6	-	1/4-18	1.69	0.70	0.88	1.01	
3/8	BH3-61	SH3-63	3/8-18	-	1.67	0.54	0.75	0.87	
3/8	BH3-61-T8	SH3-63-T8	-	3/8-18	1.93	0.80	1.00	1.01	
1/2	BH4-61	SH4-63	1/2-14	-	1.93	0.69	1.13	1.30	
1/2	BH4-61-T10	SH4-63-T10	-	1/2-14	2.12	0.87	1.19	1.37	
3/4	BH6-61	SH6-63	3/4-14	-	2.43	0.79	1.38	1.58	
3/4	BH6-61-T12	SH6-63-T12	-	1 1/8-12	2.54	0.90	1.38	1.58	
1	BH8-61	SH8-63	1-1 1/8	-	2.91	1.02	1.62	1.88	
1	BH8-61-T16	SH8-63-T16	-	1 1/8-12	2.91	1.02	1.68	2.17	

CGA GAS STORAGE FITTINGS



ITEM NO.	CGA Coupler Tee Connections Standard-No Check Valve
T-347	AIR-HP CGA-346 R.H. Female
T-577	Oxygen CGA-540 R.H. Female
T-92	Helium, Nitrogen, Argon CGA-580 R.H. Male
ADD-CV for Check Valve	
ADD-SS for Stainless Steel After Pt.No.	



BRASS MANIFOLD TO PIPELINE ADAPTORS

ITEM NO.	DESCRIPTION
B-348	Air CGA-347 Male R.H.X1/2"NPT
B-578	Oxygen CGA-577 Male R.H.X1/2"NPT
B-701-2	Oxygen CGA-701 Male R.H.X1/2"NPT



2" HEX MANIFOLD BLOCKS
Brass Pressures up to 3000 psi
Stainless Steel Pressures up to 6000

ITEM NO.	DESCRIPTION
MB-6	Six 1/4"NPT Side Outlets brass
MB-7	1-Top & 6 Side Outlets 1/4" NPT Brass
MB-6SS	Six 1/4"NPT Side Outlets Brass
MB-7SS	1-Top & 6 Side Outlets 1/4" NPT Stainless Steel

Great for O2 Bibs or Manifolding



High Press. Cylinder & Manifold Valves

GAS Service	CGA Outlet	Cylinder Valve pt.#	Manifold Valve pt.#	Pressure Cylinder
Breathing				
AIR	346	7508K346	750M346	2400psi
OXYGEN	540	7578K540	-----	2400psi
Nitrogen Helium	580	7508K580	750M580	2400psi

VALVE REPAIR KITS (ALL-VALVES)

Part Number: 750-80



**CGA NUT & BLIND NIPPLE COMBINATION
GAS TIGHT SEAL & VALVE PROTECTION.**

ITEM NO.	DESCRIPTION
CP-346	CGA-346 R.H. Female-Air
CP-540	CGA-540 R.H. Female-Oxygen
CP-580	CGA-580 R.H. Male- Helium, Nitrogen, Argon

Aqua Tech for all Gas Fittings & Supplies. Manufacturers literature available upon request.



ITEM NO. 662-P

HAND NUT
ITEM NO. 616-2P



HAND NUT
ITEM NO. 692-P



CGA-580
NIPPLE WITH
"O" RING
ITEM NO. 615-3

CGA-300
NIPPLE WITH
SOFT TIP
ITEM NO. 616-3

CGA-346 AIR 3000 psi Max.

ITEM NO.	DESCRIPTION
614-2P	Hand Tight Nut, Black-R.H. Female
614-5	Nipple-1/4" NPT-2 1/2" Long
614-KPT	Soft Tip-Replacement

CGA-347 HIGH PRESSURE AIR (5000 psi)

SS-6347-2	Hand Tight Nut & Nipple, Black
SS-6347-3	1/4" NPT-3" Long Nipple
SS6347-3-2	Retaining Screw ("O" ring)
6347-3-3	"O" ring -Replacement

CGA-540 OXYGEN 3000 psi Max.

662-P	Hand Tight Nut-Green R.H.Female
663	Nipple-1/4" NPT-2 1/2" Long
663-KPT	Soft Tip-Replacement

CGA-580 Helium, Nitrogen (3000psi)

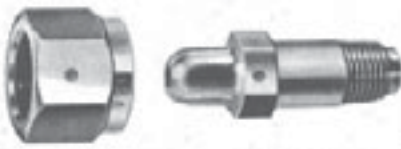
692-P	Hand Tight Nut-Blk. R.H. Male
615-3	Nipple-1/4" NPT-3" Long W/"O"ring
615-3T	Nipple-1/4" NPT-3" Long W/Soft Tip
615-O	"O"ring -Replacement
615-PT	Soft Tip-Replacement

CGA-590 Industrial Air (3000 psi)

693-P	Hand Tight Nut-Blk. L.H. Male
615-3	Nipple-1/4" NPT-3 1/2" Long w/"O"ring
615-3T	Nipple-1/4" NPT-3 1/2" Long w/"O"ring

CGA `GAS FITTINGS


Air



Breathing Air-CGA-346
Thread-.830-14 NGO,R.H. Female

ITEM NO.	DESCRIPTION
14-2	Nut
NIPPLES	
14-3	1/4" NPT - 2 1/2" Long
14-4	1/2" -27 - 2 1/2" Long
14-6	9/16" -25 - 2" Long


Oxygen



OXYGEN CGA-540
Thread-.908-14 NGO R.H. Female

62	Nut
NIPPLES	
63	1/4" NPT - 2 1/16" Long
64	9/16" -25 - 2 1/16"
65	9/16" -25 - 2 1/2"
66	1/4" NPT - 2 1/2"
67	1/2" -27 - 2 1/2"

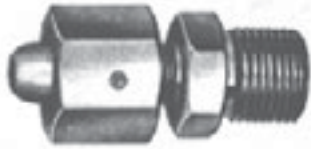
Argon, Nitrogen & Helium



HELIUM,NITROGEN-CGA -580
Thread-.960-14 NGO R.H. Male


92	Nut
NIPPLES	
15-3	1/4" NPT - 3" Long
15-4	1/4" NPT - 3 1/2"
15-6	9/16" -25 - 3"
15-7	9/16" -25 - 3 1/2"
15-8	1/4" NPT - 2 1/2"
15-9	1/2" -27 - 3"

**ADAPTORS
CYLINDER TO REGULATOR**
CGA 346-540




Adapts Air Cylinder to Oxygen Regulator
ITEM NO. 827

CGA 540-296




Adapts Oxygen Cylinder to Ind. Mixture of Oxygen Regulator
ITEM NO. 854



Adapts Ind. Air Cylinder to Air Regulator
ITEM NO. 858

CGA 346-590

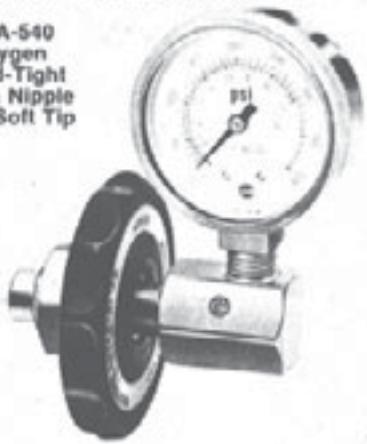


Adapts Air Cylinder to Ind. Air Regulator
ITEM NO. 843

Contact Aqua Tech for all CGA or industrial gas fittings. We stock what we sell and can normally ship the same day of the order. Request manufacturers literature for more detailed information.

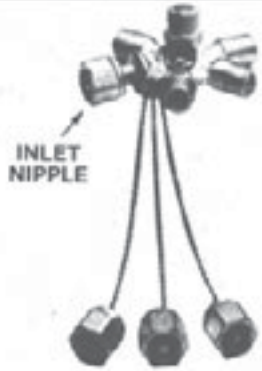
TEST GAUGE ASSEMBLY

CGA-540 Oxygen Hand-Tight Nut & Nipple With Soft Tip



ITEM NO. G-544H

ITEM NO.	DESCRIPTION
G-346H	CGA-346 Breathing Air-Hand Tight (4000 psi)
G-544AH	CGA-540 OXYGEN Hand Tight (4000 psi)
G-584H	CGA-580 Helium, Nitrogen-Hand Tight



**CGA-540 OXYGEN
ITEM NO. MB-50**

Brass Manifold Blocks can be used to connect 3 to 6 high pressure cylinders together using one regulator. The manifold is machined from a single block forging with 6 Male or Female CGA outlets and one CGA nut and nipple cylinder inlet connection. Use any CGA pig-tails.

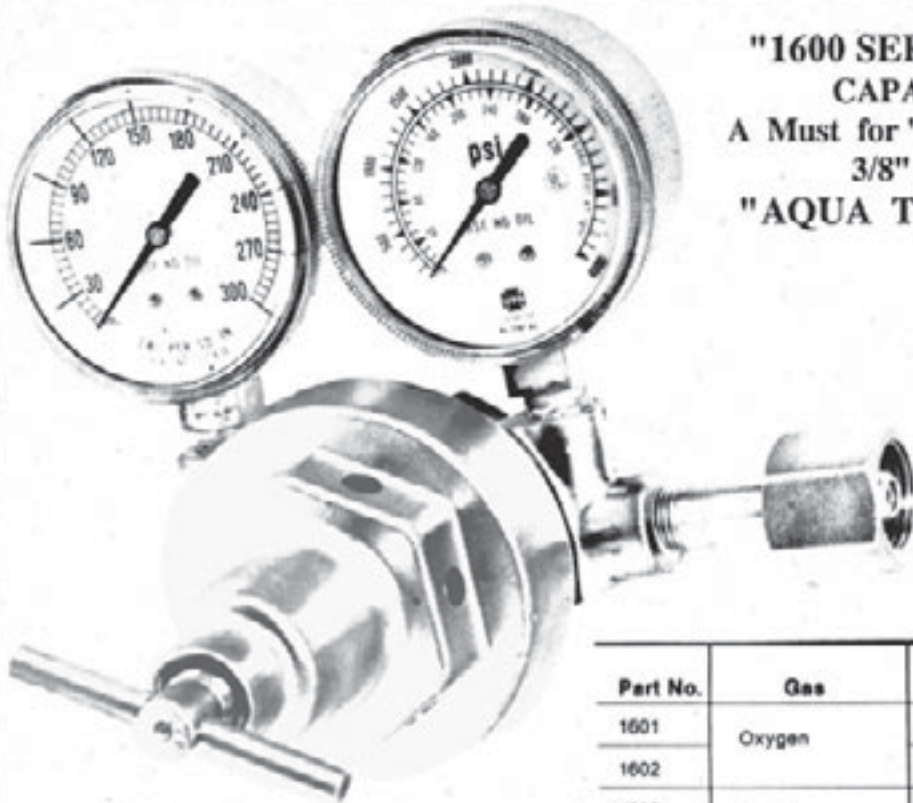
MB-346	Air CGA-346 R.H. Male outlets
MB-50	Oxygen CGA-540 R.H. Male
MB-70	Helium, Nitrogen CGA-580
MB-80	Ind. Air CGA-590 L.H. Female

CUTTING & WELDING SUPPLIES

"1600 SERIES" High PRESSURE / High CAPACITY Oxygen Regulators.
A Must for "AQUA-THERMIC" & "BROCO" 3/8" Exothermic Cutting Rods.
"AQUA TECH" for All Cutting & Welding Requirements

Features:

- Single stage
- Sensitive control
- Inlet filter
- Easy to read gauges
- Vertical mounted gauges
- Forged brass body & bonnet



Part No.	Gas	Operating Pressure (psig)	Inlet Connection	Outlet Connection
1601	Oxygen	200	CGA 540	9/16"-18 RH Ext.
1602		450		
1603	Acetylene	15	CGA 300	9/16"-18 LH Ext.
1605			CGA 510	

The Industrial 1000 System is Preferred by the Professional who requires equipment with a wide range of applications.

Capacity:

- Cutting up to 8"
- Welding up to 1"
- Heating with 500,000 BTU's

Includes:

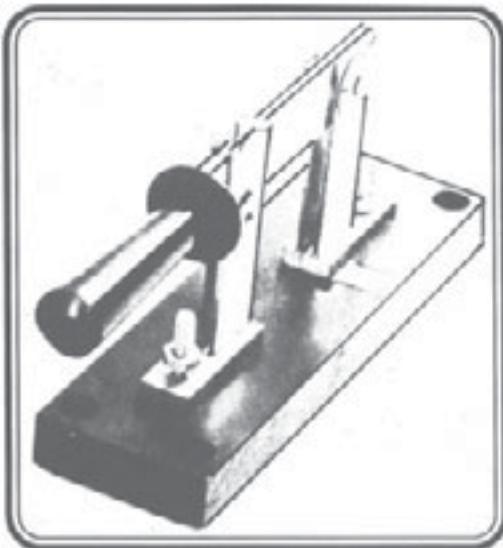
- 1601 oxygen regulator
- 1605 or 1603 acetylene regulator
- HWP 1000B torch handle
- KXA 90 cutting attachment
- KX6-62 cutting tip
- HWP 1200 gas mixer
- TWP 1862 and TWP 1853 welding tip
- TWP 2579-56 heating tip*
- Safety handbook



Part No.	Style	Description
HD 300	Standard	Outfit for (CGA 300) Commercial Acetylene Cylinders
*HD 301	Deluxe	
HD 510	Standard	Outfit for (CGA 510) POL Acetylene Cylinders
*HD 511	Deluxe	

*Includes: Dual gas hose, roundfile lighter, and goggles.

CUTTING & WELDING SUPPLIES



Model A-1009 (400 amp)
One Pole -Single Throw

Type "A" Knife Switches Are Used Extensively by the Commercial & Military Diving Communities.

These Switches are used Primarily to Energize and Disconnect Power Circuits to Underwater Cutting and Welding Job Sites, thus Protecting the Diver from Shock.

Specifications

■ Single Throw Knife Switches				
Amp. Rating	One Pole Part No.	Weight	Two Pole Part No.	Weight
200	A-1007	4-1/2 #	A-1107	10-1/2#
300	A-1008	7 #	A-1108	13 #
400	A-1009	10 #	A-1109	19 #
600	A-1011	11 #	A-1111	24 #
800	A-1012	24 #	A-1112	41 #



Model A-1109 (400 amp)
Two Pole-Single Throw

TWECOLUGS, SOLDER TYPE

- Large Stud Holes
- Made from Pure Copper



Model Number	Welding Cable Size	U.L. Amp. Rating	Size of Stud Hole	I.D. Solder Socket
T-62	6 thru 2	150	1 1/8"	.461"
T-120*	1 thru 2/0	225	1 3/8"	.559"
T-3040*	3/0 & 4/0	250	1 5/8"	.660"
T-40HD	4/0 Heavy-Duty	325	1 7/8"	.776"

Shove-on Ground Clamps



WELDING CABLE — (NEOPRENE)



CONDUCTORS		Max. O.A. Diam. IN.	Approx. Net Wt. Lbs. Per 1000 FT.	Current Carrying Cap. Amps.	Voltage Drop Per 1000 FT. at 60° C. Volts
Size AWG or MCM	Nominal No. of #14 AWG Wires				
8	420	0.39	121	50	3.71
6	665	0.40	148	75	3.58
4	1064	0.50	231	100	3.18
3	1390	0.50	257	150	3.70
2	1672	0.56	322	200	3.92
1	2109	0.63	406	250	3.88
1/0	2660	0.68	491	300	3.72
2/0	3325	0.75	603	375	3.68
3/0	4256	0.82	751	450	3.51
4/0	5320	0.90	919	550	3.41

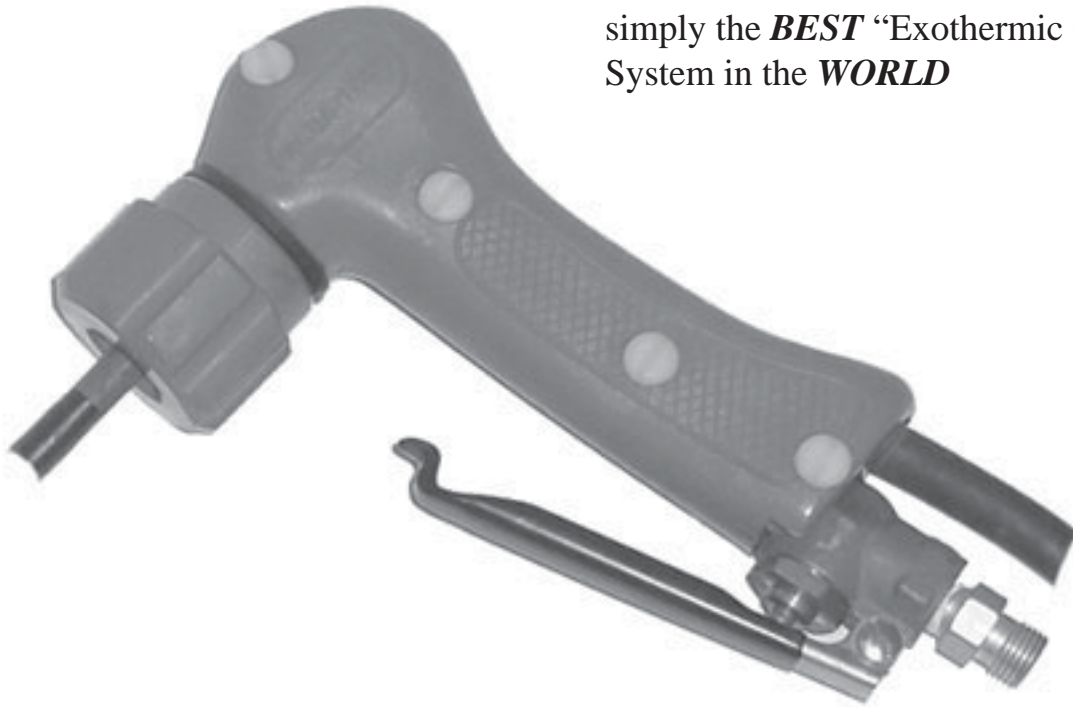
AQUA TECH for Cutting and Welding Equipment!!



AQUA THERMIC TORCH

A “CUT ABOVE THE REST”.....

The “AQUA THERMIC” Cutting Torch in conjunction with the Famous “AQUA THERMIC” Underwater Cutting Rods are simply the **BEST** “Exothermic Cutting System in the **WORLD**



Used World Wide from Australia to Dubai, Bering Strait to the Gulf of Mexico. Used daily by Major Diving Contractors and the U.S. Navy..

Unique Special Alloys

- * Save 20% on Oxygen
- * Stop side tube blow-out
- * Create Smoother Burn Rate
- * Give Longer Shelf Life
- * Allow Easy Start with Oxygen and a 12 V Battery
- * Allow for 30% Lower Amperage Settings

Aqua Tech presents an unbeatable combination. Our AQUA-THERMIC TORCH with the AQUA-THERMIC RODS, together, can cut through anything from barnacles, rock and concrete, to unclean materials, both ferrous and nonferrous.

They work as a TEAM!!!

The research and development of both the Torch and the Rods were done Together

LARGE JOB? CALL FOR VOLUME PRICING!!!

Contact Aqua Tech for all “AQUA-THERMIC” Cutting and Welding Products

Cutting & Welding

AQUA THERMIC TORCH & RODS

The AQUA-THERMIC Cutting Rod can cut through Anything, Rock, Barnacles, Concrete, Dirty or Rusted Steel, Aluminum, Stainless Steel, Rope, Wood, ETC..

Tested and Approved by the U.S. Navy Experimental Diving Unit in Panama City, Florida.

U.S. Patent No. 4,541,616

Features:

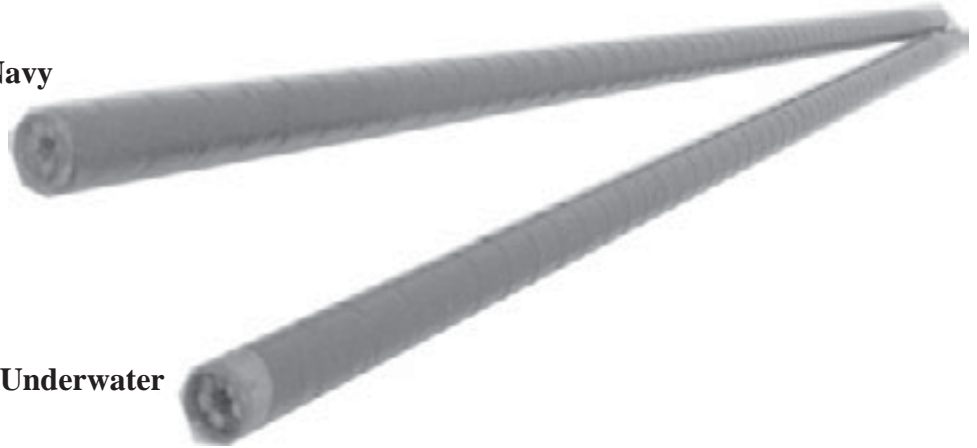
- * These Rods can be used with any Underwater Torch using a 3/8 collet.
- * Exothermic Burn can be initiated using a 12 Volt Heavy-Duty Battery. The Rod requires approximately 120 amperes to initiate a burn. Always use a "DC" Welding machine.
- * Bi-Metallic "Patented" Process Creates a Smoother Burn Rate for longer Rod life and Less Diver Fatigue.
- * The AQUA-THERMIC Rod burns using less Oxygen than the conventional burning Rods. Approximately 100 psi over- bottom pressure.
- * When used in conjunction with the AQUA-THERMIC TORCH these are the best Exothermic Underwater Cutting Rods in the WORLD!

Specifications:

- * Size: 3/8" Diameter x 18" Long
- * Packaged: 66 Rods Per Box 25 lbs.

**"MAKE IT HOT"
with
AQUA-THERMIC®**

Aqua Tech Stocks Hundreds of boxes of the Revolutionary "AQUA-THERMIC" Cutting Rods for the Fastest Delivery in the Industry.



**"AQUA-THERMIC" Underwater Cutting Rods.
Part No AT-100-001**



**"AQUA-THERMIC" Underwater Cutting Torch.
Part No: AT200-000**

AQUA TECH

*comsales@divecenter.com / milsales@divecenter.com
Toll free 1-800-345-3252 / Fax 619-237-1886*

www.Divecenter.com

AQUA-THERMIC BURNING SUGGESTIONS

AQUA-THERMIC CUTTING ROD OPERATING SUGGESTIONS

Note: Our intentions are not to teach you u/w cutting! We only wish to outline the optimum conditions and general knowledge needed to operate our revolutionary cutting rod assemblies.

1. Use only a **DC Welding Machine** when cutting under water.

A. Set machine for Straight Polarity. (**Negative to TORCH, Positive to GROUND CLAMP.**)

B. A Heavy duty 12 volt battery, of 100 Ampere hour rating or greater, may be used to initiate the exothermic burn in an emergency. **USE BATTERY ONLY TO START BURN!** With O₂ valve open **AQUA-THERMIC RODS** will continue to burn after striking an arc on a striker plate connected to the ground lead.

2. Install a single throw knife switch, of at least 400 Ampere rating, in the welding cable lead which connects to the torch rod holder. **Aqua-Thermic Part No. KS-201**

3. Connect ground lead clamp directly to the material to be cut.

A. If you are cutting a non conductive material such as rope, wood or concrete, attach a small piece of metal to the ground lead end and use this as a striker plate for initiating the exothermic burn. **ALL ELECTRIC CABLE CONNECTIONS SHOULD BE INSULATED AND WATERTIGHT.**

B. **NEVER GET BETWEEN THE TORCH AND THE GROUND LEAD WITH POWER ON!**

4. Use an oxygen supply hose of 3/8" internal diameter for optimum results.

5. Use an oxygen Pressure Regulator with high volume flow capabilities only. **Aqua-Thermic Part No. ATOR-1602**

A. **ALL OXYGEN EQUIPMENT MUST BE FREE OF OIL AND GREASE!**

6. **NEVER CUT INTO ANY MATERIAL UNTIL YOU CAN BE ABSOLUTELY CERTAIN THERE IS NO DANGER OF AN EXPLOSION! ALL GASES CREATED BY THE EXOTHERMIC PROCESS MUST BE FREE TO VENT TO THE SURFACE. THESE GASES ARE VERY VOLATILE AND WILL IGNITE WITH THE PROPER CONDITIONS.**

7. Current and oxygen flow must be off when changing **AQUA-THERMIC CUTTING RODS.**

8. Use a 3/8" gripping collet, preferably of **AQUA-THERMIC MANUFACTURE**, The **AQUATHERMIC COLLET** has a **deep chamfer** to make rod insertion easier and the slots are 1/32" smaller thus allowing a full 1/8" more gripping surface than conventional collets. **This smaller slot prevents the collet from bending when the collet nut is tightened with no rod in the torch, thus the collet accepts rod changes without having to force the rod into or out of a bent collet.** **AQUA-THERMIC COLLETS** are furnished with a special neoprene washer with a large hole which guarantees unrestricted oxygen flow.

Use an U/W Cutting Torch capable of operating at 300 amps, with an oxygen control valve and 3/8" collet. **Aqua-Thermic Torch Part No. AT201-100.**

AQUA-THERMIC BURNING SUGGESTIONS

OXYGEN GAUGE SETTING

UP TO 1 " THICK METAL

Use 100 p.s.i. over bottom pressure (Bottom pressure equals depth x .445 p.s.i.) Add 12 p.s.i. per each 100 ft. of 3/8" hose.

1 " through 2" THICK METAL

Use 130 p.s.i. to 150 p.s.i. over bottom pressure.

OVER 2" THICK AND NON CONDUCTIVE MATERIAL

Set 02 Regulator as needed above 130 p.s.i. over bottom pressure.

02 Setting Example: Assume a working depth of 243 ft. 1" thick metal.

300' burning rig hose 12 p.s.i. x 3=	36 p.s.i.
Overbottom pressure	100 p.s.i.
Depth 243 ft. x .445 p.s.i.	108 p.s.i.
Regulator Setting	244 p.s.i.

WELDING MACHINE SETTING

Set machine at 150 Amperes at 100 ft., raise setting approximately 2 Amperes per additional 50 ft. of depth. IMPORTANT! Over setting of welding machine will only waste burning rods!

After initiating the exothermic burn, you may wish to have your tender turn off current to the torch, BUT you will lose approximately 17% of the rod efficiency by doing so.

Aqua-Thermic® Torch

Pt. No. 201-100



AQUA-THERMIC TROUBLE SHOOTING

TROUBLE-SHOOTING-HINTS

1. **DIFFICULTY STRIKING OR MAINTAINING AN ARC**
 - A. Poor Ground Connection
 - B. Welding Machine Set Too Low
 - C. Bad Welding Cable or Improperly Sized Cable
 - D. Poorly maintained connections on cable leaking current
 - E. O2 pressure low at Rod Tip

2. **INSUFFICIENT OXYGEN AT WORK**
 - A. Rod welds itself to the work
 - B. End of rod welds itself closed
 - C. Slow cutting impeded by slag not being blown out of cut

3. **WRONG POLARITY**
 - A. Insulation burning or bursting off cutting rods
 - B. Poor cutting efficiency



TEST FOR STRAIGHT POLARITY

Connect a small metal plate to the ground lead. Immerse the plate in a container of salt water. With the **AQUATHERMIC ROD** in the torch rod holder, place the metal plate and rod tip about 2" apart in the salt water. When the current is turned on, a heavy stream of bubbles rising from the tip of the cutting rod indicates the correct Straight Polarity.

NOTE! IF YOU ARE EXPERIENCED IN UNDERWATER BURNING, YOU MAY BE SURPRISED AT THE RAPID BURNING SPEED ATTAINABLE WITH THE AQUA-THERMIC CUTTING ROD. PLEASE DO NOT DESPAIR, YOU SHOULD BE ABLE TO KEEP UP.

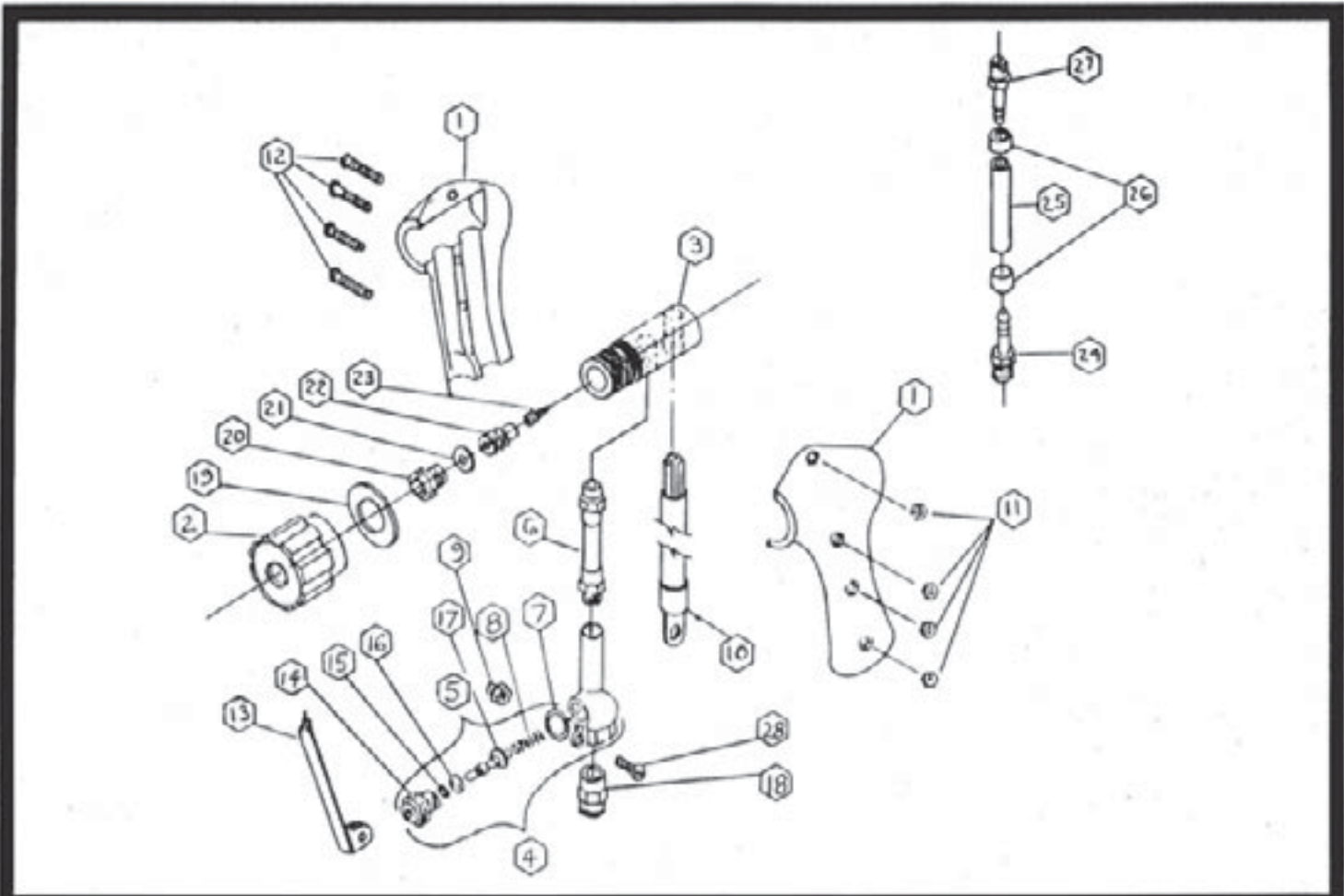
"PROBLEMS?" CALL US! We will attempt to find you an answer.

SPECIAL NOTICE:

Suggestions provided by this guideline do not constitute a specific or implied warranty. Variables such as equipment, work site conditions and operator experience will have an effect on results obtainable in any underwater cutting operation. Aqua-Thermic Products are warranted to be free from defects due to materials and or workmanship. Any defective product will be replaced at the discretion of Aqua-Thermic Products.

All hints and suggestions are for reference only and are not intended as a learning guide.

AQUA-THERMIC TORCH SCHEMATIC



"AQUA-THERMIC"® Cutting Torch Parts List

Aqua Thermic® Torch.....	AT200-000	15	*O' Ring, Valve Stem.....	AT200-015
(U.S. NAVY Approved)		16	Washer, Valve Seat.....	AT200-016
1- Handle Assembly (2-Piece Set).....	AT200-001	17	Valve Stem.....	AT200-017
2 Nut, Collet Tightening.....	AT200-002	18	Adapter, Brass Oxygen.....	AT200-018
3 Torch Head, Brass.....	AT200-003	19	Washer, Collet Nut.....	AT200-019
4 Valve Assembly.....	AT201-004	20	Collet 3/8 in. (State Rod Size).....	AT200-120
5 Bonnet & Stem Assembly, Valve.....	AT201-005	20	Collet 5/16 in. (State Rod Size).....	AT200-220
6 Hose Coupler Assembly.....	AT201-006	20	Collet 1/4 in. (State Rod Size).....	AT200-320
7 Gasket, Valve Bonnet, Copper.....	AT200-007	20	Collet 5/32 in. (State Rod Size).....	AT200-420
8 Spring, Valve Stem.....	AT200-008	20	Collet 1/8 in. (State Rod Size).....	AT200-520
9 Locknut, Valve Lever.....	AT200-009	21	Washer, Collet.....	AT200-021
10 Cable Assembly.....	AT201-010	22	Retainer, Flash Arrester.....	AT200-022
11 Nut, Nylon (Set of 4).....	AT200-011	23	Flash Arrester, Sintered Bronze.....	AT200-023
12 Screw, Nylon (Set of 4).....	AT200-012	24	Connector, Brass 1/8 in. NPT-Hose.....	AT200-024
13 Lever, S/S Valve.....	AT200-013	25	Hose, 1/4 in. Oxygen.....	AT200-025
14 Bonnet Nut, Valve.....	AT200-014	26	Ferrules, KX Brass (Set of 2).....	AT200-026
		27	Connector, Brass 1/4 in. NPT-Hose.....	AT200-027

Serving the Commercial Diving Industry for over 25 Years!

ARCAIR CUTTING & WELDING



Arcwater® II Torch

The Arcwater® torch allows for a more slag free gouge for easy weld removal and edge preparation. The torch replaces oxygen with water at approx. 90 PSI (6.3kg/cm²) over-bottom W/ a flow rate of 3.5 gal. (13.2L) per min. Use 350-450 amps. W/DC welding machine.

Arcwater Torch.....14-050-127
5/16" (7.9mm) Electrode.....42-059-006



Sea Torch® Cutting & Welding Torch

The torch features a one piece body that prevents oxygen leakage into the handle. Converts to a welding stinger U/W. Just change collets.

5/16" (9.9mm) Collet.....94-158-043
3/8" (9.5mm) Collet.....94-158-045
1/8" (3.2mm) Collet.....94-158-047
5/32" (4mm) Collet.....94-158-042
3/16" (4.8mm) Collet.....94-158-044



Sea Stinger® II

Electrode Holder

The Sea Stinger II is Both durable and economical. The new head design allows for a much tighter grip on the electrode.

Accepts 1/8" (3.2mm), 5/32" (4mm), and 3/16" (4.8mm) electrodes.

Sea Stinger® II.....14-050-128

Sea-Jet® Electrodes

Nothing cuts through faster or more efficiently than patented Sea-Jet exothermic electrodes. With Sea-Jet, you can cut through virtually anything: metals, concrete, rock, plastic, insulated coatings — even when covered with barnacles.

And once it's ignited, Sea-Jet **keeps** burning as long as you maintain the oxygen flow. Just strike an arc on a piece of grounded metal and you're ready to cut. For tight spots, simply bend the electrode to reach the area you want to cut; Sea-Jet bends without crimping. Plus Sea-Jet creates a wide kerf to minimize retreating of the back side of the cut.

A DC welder is normally required, but in emergencies a 12-volt battery can initiate the arc. Optimum efficiency is obtained with an oxygen pressure of 100-150 psi (7.0 - 10.5 kg/cm²) over bottom pressure. Cat. No. 42-066-006.

Cuts faster and cheaper

Cutting 5/8" steel...	inches cut/ inch of electrode	inches cut/ minute	electrode cost/inch cut
Sea-Jet*	2.3	64.2	\$.05
Brand B	1.6	40.8	\$.08



Tuff Cote™ Electrodes

These white flux coated tubular electrodes have an improved electrically insulated and waterproof cover coating. They remain usable even after repeated exposure to water or high humidity. Uses a standard

dc welding machine with straight polarity and supply of oxygen. 5/16" (7.9 mm) diameter, 50 per box. Specify standard Tuff Cote® No. 1 Electrodes, Catalog No. 42-059-008.



Sea-Cut® Electrodes

Patented tubular electrodes designed especially for the oxy/arc process. They cut fast to reduce expensive underwater diving time, and have a uniform plastic coating for stable arc control and abrasive resistance. They remain usable even after repeated

exposure to water or high humidity. Sea-Cut features extremely high dielectric strength. Used with standard dc welding machines using straight polarity and a supply of oxygen. 5/16" (7.9 mm) diameter, 50 per box. Catalog No. 42-059-007.



Sea-Weld® Electrodes

Specially treated and coated, Sea-Weld electrodes have been tested and qualified for underwater welding according to AWS D3.6,83 (Type B welds).

Use with any standard variable voltage DC welder. 1/8" (3.2 mm) Cat. No. 42-024-002; 5/32" (4.0 mm) Cat. No. 42-984-004; 3/16" (4.8 mm) Cat. No. 42-034-007.



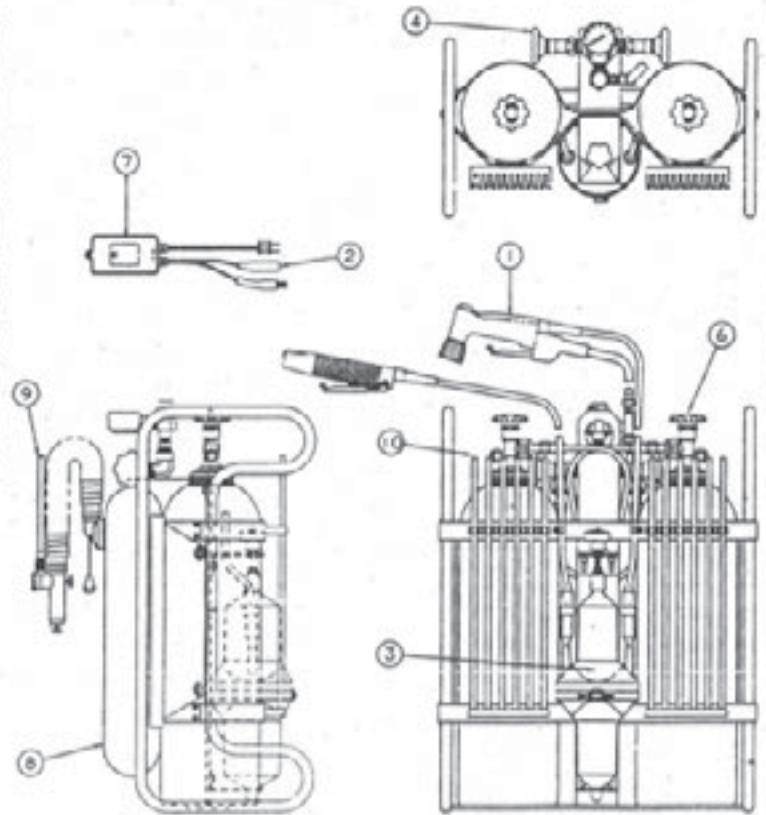
ARCAIR U/W CUTTING PACKAGE

REF. NO.	DESCRIPTION	CATALOG NO.
	Underwater Self-Contained Cutting Package	14-100-000
1	Sea Torch Assembly	14-050-131
2	Striker Assembly	72-012-006
3	Battery Pack Assembly	96-076-032
4	Manifold & Regulator Assembly	94-500-019
6	Oxygen Cylinder with Valve	94-208-003
7	Battery Pack Charging System	94-156-004
8	Buoyancy Compensator	94-174-001
9	Low Pressure B.C. Inflator Hose	94-396-201
10	Sea Jet Electrodes (50 pc. box)	42-066-006

SPECIFICATIONS

Overall Dimensions: Weight (out of water) - 149 pounds (67.9 kg) - Width: 23" (58.4 cm) - Height: 28-1/2" (72.4 cm) - Depth: 12-3/4" (32.4 cm)

Arcair
Underwater Products



AQUA TECH for U/W Cutting & Welding Supplies! We Stock all Popular Cutting and Welding Electrodes, Torches & Welding Stingers. We can ship your order the same day.

Introducing the **NEW** Underwater Self-Contained Cutting Package, designed to provide the trained diver with a portable self-contained unit for underwater exothermic cutting.

The Underwater Self-Contained Cutting Package provides the diver with the necessary tools for cutting operations, which includes;

A **re-chargeable** Battery Pack used for igniting the cutting electrodes. It will ignite approximately 20 cutting electrodes per charge. Re-charge time takes approximately 3 hours. (Pack comes with its own charging system)

An Arcair Sea Torch® Combination Torch, with a 3/8" collet chuck to accept the Sea-Jet® exothermic cutting electrodes.

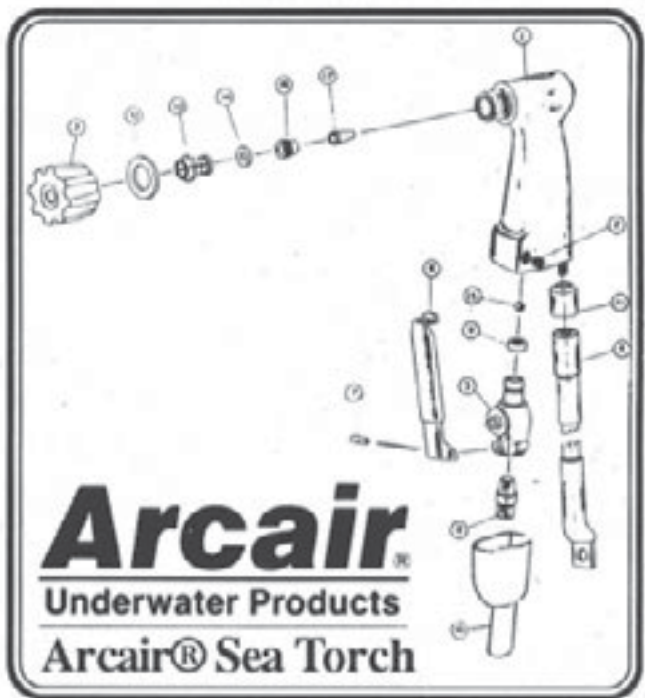
A specially designed Striker Assembly, allowing the diver complete control of electrode ignitions. By squeezing the striker lever and touching the cutting electrode, with oxygen flowing, electrode ignition occurs and the cutting operation begins.

The cutting package contains **two - 60 cubic foot aluminum oxygen cylinders** providing enough oxygen to burn approximately ten cutting electrodes. Included in the package is a pre-set oxygen regulator, set for 100 p.s.i., ensuring the best cutting rates with the Sea-Jet electrodes.

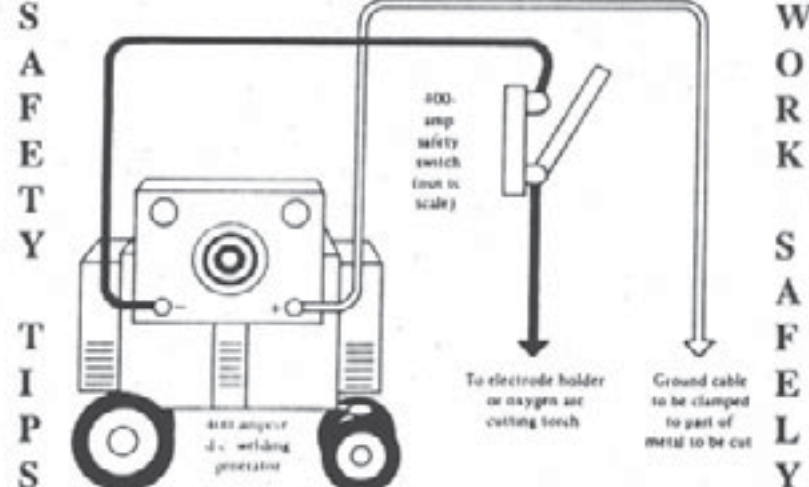
The Underwater Self-Contained Cutting Package has a **flotation device** used to control and stabilize the pack during descent, ascent, and while the pack is at the cutting location.

ARCAIR SCHEMATICS

Ref.No.	Description	Part No.
	Sea Torch® Complete W/5/16" collet	14-050-124
	Sea Torch® Complete W/3/8" collet	14-050-126
1	Sea Torch Handle	94-370-157
2	Set Screw	97-373-001
3	Molded Collet Ring Assembly	94-168-018
4	Cable Assembly	96-130-234
No.#	Oxygen Valve & Lever Assem.	94-921-056
5	Oxygen Valve	94-921-057
6	Valve Lever Assembly	94-476-061
7	Pin	94-718-057
8	Adaptor	94-013-022
9	Washer, Valve Body	94-940-098
11	Cable Tip Insulator	94-433-177
12	Washer,lg. Collet Nut	94-940-097
13	Collet Chuck 5/16"	94-158-043
	Collet Chuck 5/32"(4.0mm)	94-158-042
	Collet Chuck 3/16"(4.8mm)	94-158-044
	Collet Chuck 3/8" (9.5mm)	94-158-045
14	Washer,Collet	94-940-099
15	Ball, Check Valve	94-071-033
16	Flashback-Cone Retainer	94-695-037
17	Flashback Arrestor Cone	94-305-009
18	Valve Handle Boot	94-105-013



1. Always Vent Explosive Gases Away From Work Area.(Built-Up Gas Will Explode if Ignited!)
2. Never Get Between the Electrode & Ground While the Current is on.
3. Minimize Shock By Calling "Power On/Off" W/ Electrode Touching Work Piece, When Practical.



4. U/W Arc Cutting & Welding Equipment Arrangement for Straight Polarity, Direct Current Operation.

Arcair® Sea Stinger II

Contact Aqua Tech for all U/W Cutting & Welding Needs.

Ref. No.	Description	Part No.
	Sea Stinger II,(Standard Lug)	14-050-128
	Sea Stinger II(Cam-lock)	14-050-129
1	Head	94-378-351
2	Cap	94-131-067
3	Body	94-103-228
4	Handle	94-370-175
5	Set Screw	97-373-006
6	Plug	94-638-086
7	Cable Assy.(stan. Lug)	96-130-298
8	Cable Assy.(Cam-Lock Connector)	96-130-299

Cutting & Welding

BROCO CUTTING & WELDING SUPPLIES

Broco BR-22 Cutting Torch
BROBR22



This ergonomically designed torch reduces forearm fatigue. Proven to be durable and rugged, the BR-22 has been used world wide from the North Sea to the Gulf. Able to handle the rigors the daily abuses of offshore work, and the demands for quality and expeditious cutting.

Broco BR-20 Welding Stinger
BROBR20



Designed to hold the electrode at the optimum angle to the work piece, delivering quality welds while reducing operator fatigue. The movable jaw design accepts a wide range of electrode diameters. The BR-20 welding stinger meets Mil-H-865D and is approved for Navy use.

Broco BR-21 Welding Stinger
BROBR21



This is a compression type welding stinger. The BR-21 has an index notch on the head helps divers find the hole, even in the dark. Beveled seat keeps electrode at ideal angle. Groove eliminates electrode "wobble". Over size head is easier to hold. Resistance "O" ring on the shoulder ensures tension when head is tightened, increasing head life. Handle and head are from hexagonal stock for sure gripping by a gloved hand.

Broco Oxygen Regulator
BROHVR4400



The HVR-4400 is the Oxygen regulator that is a standard of Broco's line. Engineered to withstand the rigors of the commercial diving industry.

Suggested Cutting Parameters				
Depth	O2 PSI Setting 3/8" Hose I.D.	Current Setting (amps)		
		1/0	2/0	3/0
100	145	152	150	150
150	172	155	152	150
200	199	157	154	152
250	226	159	156	154
300	254	161	158	156

Broco Ultrathermic Cutting Rods
BROxx



BRO3818UW25	3/8" x 18"	66 Rods
BRO3836UW25	3/8" x 36"	31 Rods
BRO1418UW25	1/4" x 18"	131 Rods
*BROCUT	5/16	40 Rods

The Ultrathermic cutting rod produces a temperature in excess of 10,000 degrees F, hot enough to quickly cut or melt through almost anything including cast iron, stainless steel, brass, and other ferrous and nonferrous metals and concrete. 10,000 Degrees F, means it cuts quickly and efficiently. The Ultrathermic rod will cut through marine growth, rust and mill scale eliminating the need for pre-cleaning.

* BROCUT are steel tubular cutting RODS



Broco Welding Electrodes
BROxx



BROUWCS1	SofTouch Premium	8 lbs.
BROUWSS1	SofTouch Stainless	8 lbs.
BROUWEZ1	EasyTouch Eco.	8 lbs.

The Broco Underwater **SofTouch** wet welding electrodes is the standard for the commercial diving field. **SofTouch** welds consistently meet or exceed AWS D3.6-93 specifications for type B welds. Designed to pass all AWS testing requirements, including radiograph, bends and hardness.

The Broco Underwater **EasyTouch** wet welding electrodes have also produced Type B certifiable welds in vertical and overhead positions. Slight porosity and hydrogen micro-presence make EasyTouch less suitable for structural welds, however they are ideal for almost all noncritical applications where a sound visually aesthetic weld is required.

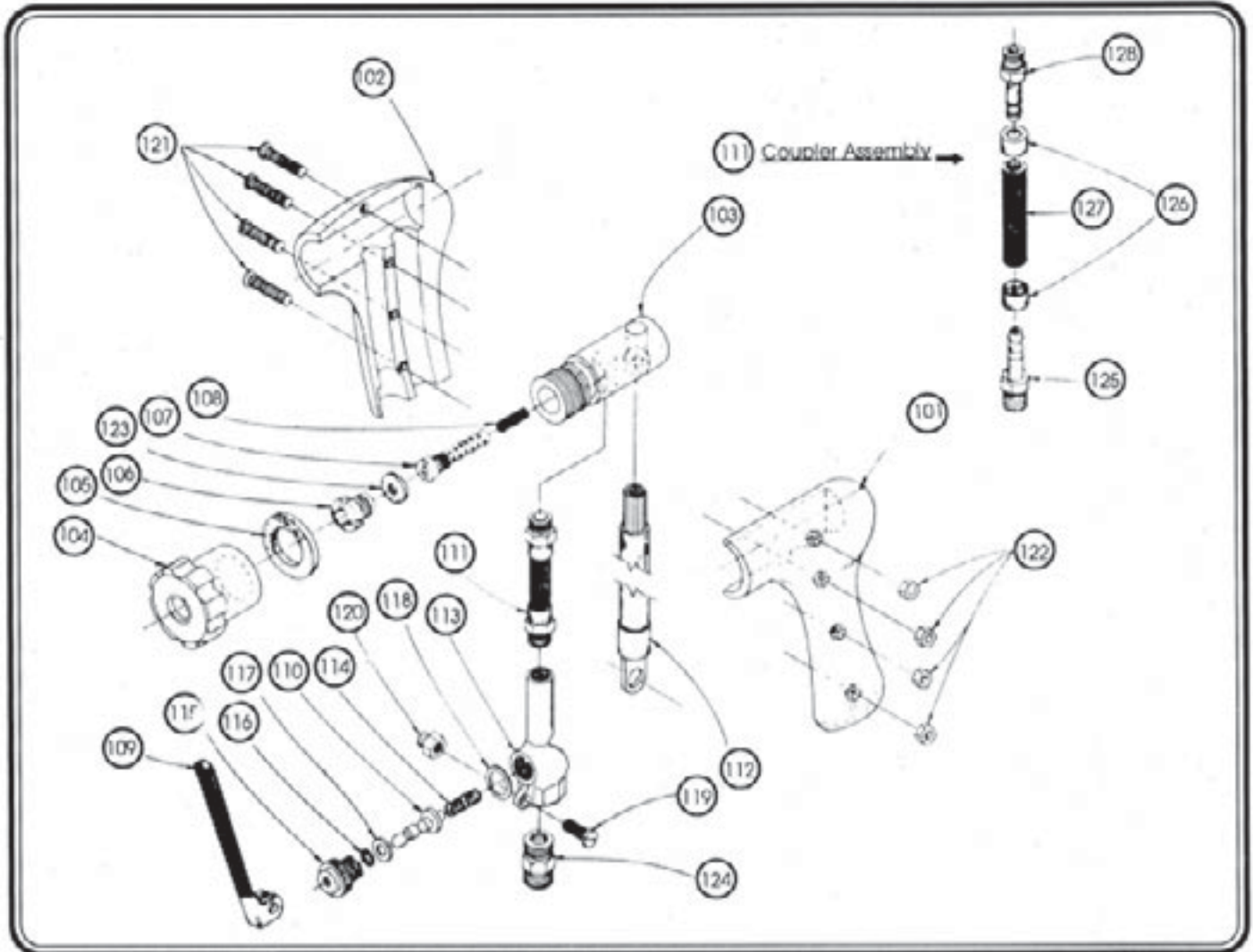
Broco Accessories

BROTA22xx
BROSPKC
BROSPKM
BROUWKS

Collet and Washer Kit
Comp. Spare Parts Kit BR--22
Mini Spare Parts Kit BR--22
400 Amp Knife Switch
Single Pull, Single Throw



BROCO BR22 SCHEMATIC



AQUA TECH has **BROCO®** Parts in Stock for Same Day Shipping...

Ref. No.	Qty.	Description	Ref. No.	Qty.	Description
101☆	1	Handle Grip (left Side)	115	1	Bonnet Nut, Valve Stem
102☆	1	Handle Grip (Right Side)	116	1	"O" Ring, Valve Stem
103	1	Head, Torch (Brass)	117	1	Washer, Neoprene Valve Stem
104	1	Nut, Hand Tighting	118	1	Gasket, Copper
105	1	Washer, Sealing Neoprene	119*	1	Screw, Valve Lever (Brass)
106	1	Collet Chuck	120*	1	Nut Locking, Valve Lever (Brass)
107	1	Flash Screen Retainer Nut	121☼	4	Screw, Handle (Nylon®)
108	1	Flash Screen, Monel	122☼	4	Nut Handle Screw (Nylon®)
109	1	Lever, Control Valve	123	1	Washer, Collet (Neoprene)
110	1	Valve Stem, Delrin®	124	1	Adaptor, 1/4"npt X O2 (Brass)
111	1	Coupling Hose Assembly	125	1	Hose Barb X 1/8"npt m. (Delrin®)
112	1	Cable Assembly W/Lug	126	2	Ferrules, KK (Brass)
113	1	Valve, Oxygen Control	127	1	Hose, Oxygen
114	1	Spring, Valve Stem	128	1	Hose Barb X 1/4"npt m. (Brass)

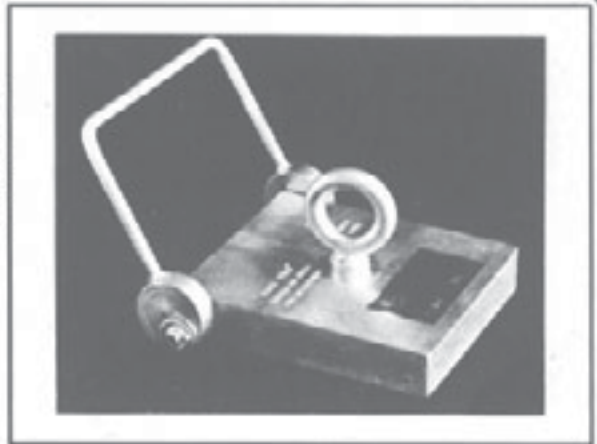
☆ * ☼ Must Be Purchased Together

BEAR PAW MAGNETS

CRANE ASSEMBLY

MODEL 600 CA

Great for a diver working under a barge or ship. The diver can attach himself to the metal object using the lifting eye. The weight of the magnet is subtracted from the divers weight belt thus making him positive under the vessel while attached. It is important that the diver use a quick release shackle attached to the magnet eye, for safe and fast escape.



SPECIFICATIONS

Lifting Capacity Tested in excess of 600 pounds
 Eye Bolt - Inside Dia. ... 1-1/4 inch
 Dimensions 6" x 7-1/8" Height, overall 4-1/2"
 Weight 10 lbs. (approximately)

BEAR PAW MAGNETIC HANDLES

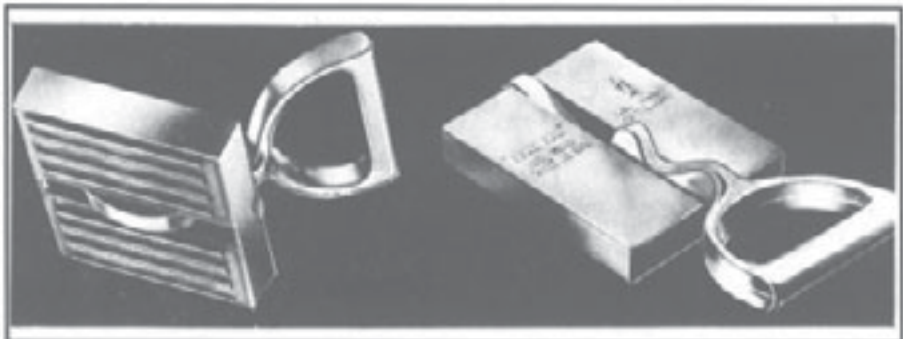
Permanent Type Magnet - Needs No Recharging

CUB MODEL 100

Maximum lift 100 lbs.
 For handling 25 to 50 lbs.
 Maximum magnetic penetration 1/8 inch
 Weight 3-1/2 lbs.
 Dimensions 3-1/2" x 5"

MODEL 100

Maximum lift 250 lbs.
 Designed for light gauge sheet metal
 Maximum magnetic penetration 1/16 inch
 Weight 5 lbs.
 Dimensions 5-1/4" x 6"



MODEL 400

Maximum lift 400 lbs.
 Designed for use on heavier gauge steel sheet
 Maximum magnetic penetration 1/8 inch
 Weight 7-3/4 lbs.
 Dimensions 5-1/2" x 6"

MODEL 600

Maximum lift 600 lbs.
 A REAL POWER HOUSE AVAILABLE FROM AQUA TECH
 Maximum magnetic penetration 1/8 inch
 Weight 9-1/2 lbs.
 Dimensions 6" x 7-3/8"

"MAGNETIC FISHING TOOLS"

FOR DRILLERS OF BLAST HOLES - WATER WELLS - EXPLORATIONS -
 PERMANENT TYPE MAGNETS - NEED NO RECHARGING



THE MAGNETIC FIELD IS
 DIRECTED OUT OF THE
 BOTTOM OF THE TOOL

NO MAGNETISM ON THE
 SIDES-THUS IT WILL
 NOT ADHERE TO THE CASING



*GUIDE LINE OF CAPACITY ON CLEAN FLAT, SURFACE

3 3/8"	150#
4 1/8"	350#
5 1/8"	600#
6 1/8"	800#

INSIDE DIAMETER OF EYEBOLT
 1 1/4"

CAPACITY DEPENDS ON THE SURFACE AREA OF CONTACT WITH THE ITEM BEING FISHED.
 *AN ASSURED CAPACITY IS NOT FEASIBLE EXCEPT ON A FLAT, CLEAN SURFACE OF 1/4" OR THICKER.

CARTER LIFTBAGS



Aqua Tech stocks all Carter liftbags from 25 lb. lift thru 5000 lb. lift. For larger lift capabilities consult the chart below. Orders placed today normally ship next day. Overnight shipping by special request.

All Bags have one or more handles and tie-off points to make them easy to grasp and secure both in and out of the water. ✓

All Bags are designed to be folded and rolled into compact, negatively-buoyant rolls that are easy for the diver to handle and deploy underwater. ✓

The over-pressure valves on all Bags are designed to adequately vent the air from a fully charged bag on a free ascent from any depth. ✓

OPEN BOTTOM LIFT BAGS (CB)

These bags are very versatile light-to-medium-duty lift bags. They are excellent for sport divers, and are suitable for most types of underwater lifting and light salvage. All but the 50 pound bag have diver actuated dump valves, and all are open at the bottom to vent expanding air as they ascend. They are economical, lightweight, and fold into a neat, compact roll for easy handling underwater.

Model Number	Lift (lbs)	Shipping Weight (lbs)	Height x Width (Inches)	Volume at Surface (cu ft)
OPEN BOTTOM LIFT BAGS				
CB-50	50	1	25 x 18	.8
CB-100	100	2	28 x 25	1.6
CB-200	200	3	30 x 32	3.2
CB-250	250	4	38 x 32	4.0
CB-300	300	5	46 x 32	4.8
CB-500	500	9	56 x 36	8.0
CB-1000	1000	12	50 x 52	16.0
CB-2000	2000	19	86 x 52	32.0
CB-5000	5000	42	94 x 86	80.0
CB-12000	12000	80	136 x 96	190.0
ENCLOSED PILLOW BAGS				
CBEP-250	250	5	26 x 32	4.0
CBEP-500	500	9	36 x 56	8.0
CBEP-1000	1000	13	52 x 50	16.0
CBEP-2000	2000	22	52 x 86	32.0
CBEP-4000	4000	37	75 x 96	64.0
CBEP-6000	6000	46	87 x 96	95.0
SALVAGE TUBES (Totally Enclosed)				
CBST-2000	2000	30	180 x 29	32.0
CBST-3000	3000	40	264 x 29	48.0
BOULDER BAGS (Totally Enclosed)				
CBBB-1000	1000	18	56 x 58	16.0
CBBB-2000	2000	27	58 x 42	32.0
PROPELLER BAGS				
CBPB-100	100	4	15 x 27	1.6
CBPB-300	300	7	27 x 50	4.8
CBPB-1000	1000	15	40 x 72	16.0
MARKER BUOY BAGS				
CBMB-30	30	1	7 x 60	.5
CBMB-100	100	2	10 x 62	1.5
CBMB-200	200	3	15 x 72	3.2

In addition to the above listed Bags, which are usually available for immediate shipment, we can design custom air bags that fit your particular, specialized lifting projects.

ENCLOSED PILLOW BAGS (CBEP)

Pillow Bags are totally enclosed, with over-pressure valves to vent expanding air as they ascend. The advantage of Pillow Bags over the Open Bottom Bags is that they can attain their maximum lift in much less water. For this reason, they are excellent for raising sunken boats, and for towing jobs. Like the Boulder Bags and the Ocean Salvage Tubes, all Pillow Bags come with brass quick-disconnect fittings attached to a short filler hose (connects to 1/4" pipe thread).

SALVAGE TUBES (CBST)

Salvage Tubes are highly versatile in the number of ways in which they can be deployed. They are excellent for pipe-laying and other underwater construction projects, but where Salvage Tubes really come into their own is when they are used in raising sunken boats. They can be used vertically to bring the boat out of deep water. When the boat is suspended near the surface they can be slung under the boat with one end on each side to raise the boat high enough out of the water to pump out. In shallow water, two bags can be slung together, one on each side of the boat, like pontoons. They can also be used as rollers for moving beached boats back into the water.



BOULDER BAGS (CBBB)

Boulder Bags derive their name from gold dredgers and nugget hunters who use them for lifting boulders in the shallow rivers of California's mother-lode country.

They are designed to get a maximum amount of lift from a single lift-point in a minimum depth of water. For example, the 2000 pound Boulder Bag gets its total lift in less than 3 feet of water, whereas the 2000 pound Open Bottom Bag requires almost 8 feet of water. These bags are very durable and have been used as air jacks capable of exerting several thousand pounds of force over a large area.

PROPELLER BAGS (CBPB)

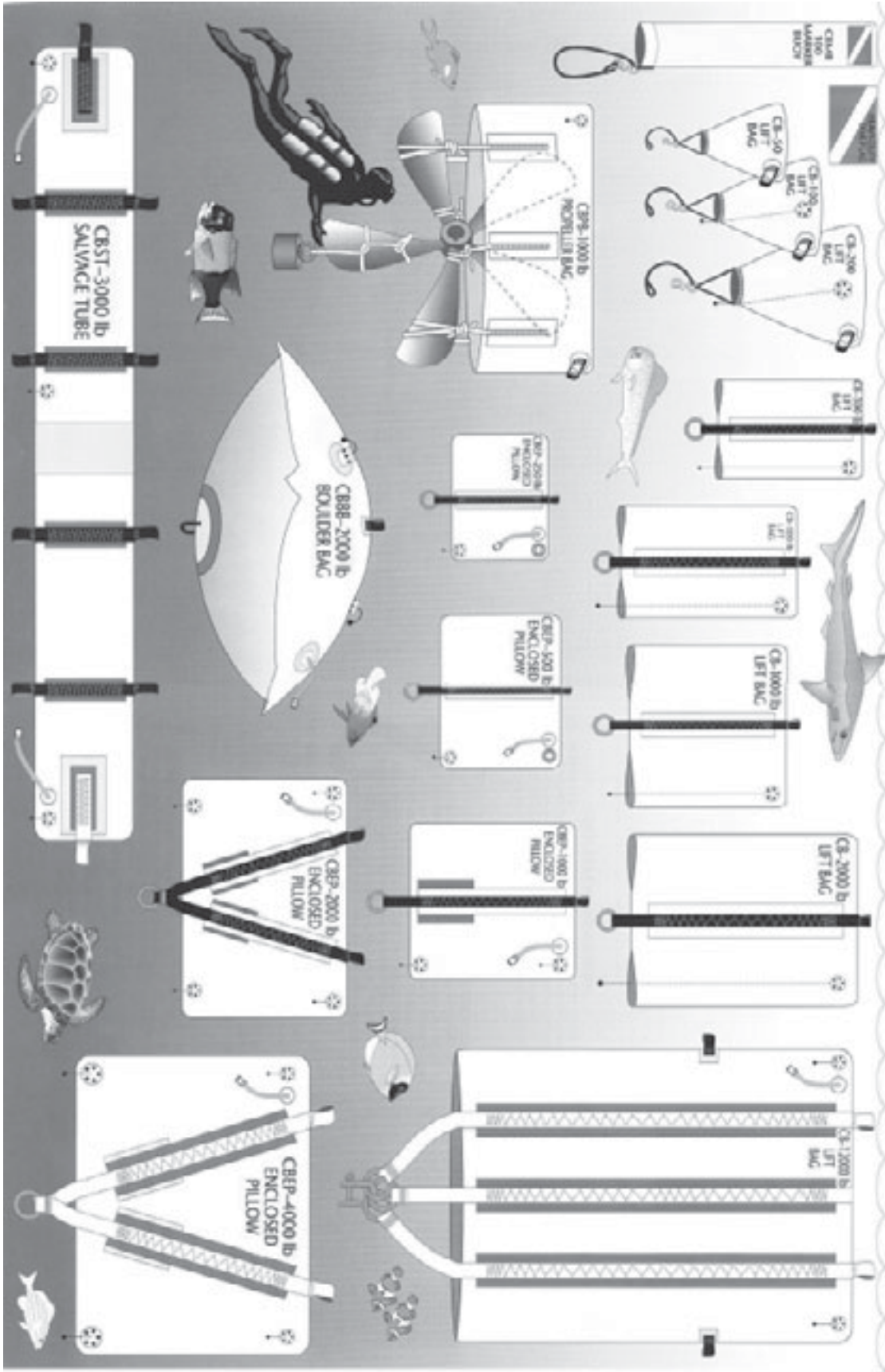
These bags are specifically designed for installing and removing boat propellers, but they are well-suited for several shallow water lifting jobs. To stabilize the lift of a heavy prop, it is often necessary to lower its center of gravity by attaching a weight to its lowest blade.

MARKER BUOY BAGS (CBMB)

These tall slender bags can be used with a rope to mark valuable finds on the bottom, or as lift bags for raising small items to the surface. Each buoy has two red and white dive flags permanently attached to its top.

CARTER LIFTBAGS

LIFTBAGS



UNDERWATER SCOOTERS



Apollo AV-1 Scooter APOAV1

The AV-1 -allows you the mobility and endurance to enhance your diving experience. Rewarding you with an epic perspective of the diving environment, beyond the limits of fin diving. Great for exploring wrecks, multiple reefs, unreachable reefs, sea mounts, marine harvesting surveys, light commercial surveys, and just pure fun!!

Comes with 115 / 230 volt. 12 V / 2.5 amp with floating recharge. Styro-foam case. 3 Part body construction consisting the motor, battery, and clutch housing.

Thermal sensor shut off, and water leak sensor with automatic shut switch. Comes with Styro-foam case.



AV- 1 Specifications

- * **Dimensions:** 14" x 24"
- * **Travel Dimensions:** 17" x 17" x 24"
- * **Surface Weight:** 40 lbs.
- * **Travel Weight:** 52 lbs.
- * **Buoyancy:** + 1.5 lbs.
- * **Speed:** Maximum Speed 2.4 M.P.H.
- * **Prop:** 3 speed, variable pitch prop
- * **Run Time:** 45 - 60 minutes
- * **Depth:** 165 FSW
- * **Material:** Shock resistant ABS resin
- * **Power:** DC 12V magnetic field motor

Apollo Accessories Please Call For Information



Torpedo 2000 has been developed specifically with ease in operation and maneuverability. Engineered hydrodynamically with precision balance, Torpedo's unique design

was specifically developed to keep the Torpedo 2000 operation and maintenance easy and simple.

The Torpedo handle design has been designed for ergonomic ease, providing minimal operating effort and arm fatigue while in use. The handle facilitates easy attachment of personal equipment, and makes surface handling a breeze.

Torpedo has several different models. The Torpedo 2000 does not come with a battery recharger, but the Torpedo 2500 and Torpedo 3500 do. The Torpedo 2000 can be converted to a twin system as well.

Torpedo's Torpedo TORxxxx



Torpedo Specifications

- * **Dimensions:** Ht. 31" x Housing Dia. 10" x Width 12"
- * **Surface Weight:** 20 lbs. w/o Battery, 40 lbs. w/Battery - 1 lb.
- * **Buoyancy:** Maximum speed 2 M.P.H.
- * **Speed:** 80 minutes at 2 M.P.H.
- * **Run Time:** 170 FSW
- * **Depth:** Bi-Axial reinforced
- * **Housing Material:** Impact Resistant ABS
- * **Top:** Aluminum
- * **Handles and Ring:** Stainless steel
- * **Hardware:** DC 12V magnetic field motor
- * **Power:**

Torpedo Accessories Call For Additional Information



Scubapro Sea Glider SBPxxxx

The anatomically designed Scubapro Sea Glider, has the prop under chassis. Prop under design positions diver away from prop wash.

The prop under design, hydrodynamic efficiency, and minimal positive buoyancy, allows this scooter to be equally efficient for snorkeling/surface swimming as well as SCUBA. Diving.

Locking your arms under the rear wings will increase stability and reduce fatigue. Include battery recharger and carrying case.

Scubapro Accessories Please Call For Information



Sea Glider Case



Sea Glider Specifications

- * **Length:** 42 inches (1.07 m)
- * **Surface Weight:** 45 lbs.
- * **Buoyancy:** Slightly positive
- * **Speed:** Maximum speed 2 M.P.H.
- * **Power:** 65 W / 12V Minnkota
- * **Depth:** 180 FSW
- * **Battery:** 12 V / 24 AMPS
- * **Charge Time:** 10 / 12 Hours
- * **Run Time:** 40 Minutes
- * **Switch:** Magnetic, 13 V / 30 AMPS

FARALLON DPV'S

Farallon Mk 7

FARMk7



Outstanding underwater vehicle, with a range of almost two miles. The Mk 7 has an operating speed of 0-2.75 m.p.h.. This underwater vehicle comfortably transcends all aspects of diving. From exploration, wreck diving, commercial diving inspections and surveys, marine life harvesting searches, and a wide array of sport diving applications.

The Mk 7 comes with battery pack, 24 hour recharger, riding saddle and user manual.

MK 7 Specifications:

- * **Length:** 42 inches (1.07 m)
- * **Surface Weight:** 53 lbs. w/o battery, 80 lbs. with battery
- * **Buoyancy:** + 3 lbs.
- * **Speed:** 0 - 2.75MPH, 0 - 242 feet per minute
- * **Range:** Up to 10,500 feet
- * **Depth:** 400 FSW
- * **Material:** .25 inch Aluminum
- * **Color:** Safety orange

Farallon Mk 7-E

FARMk7E

Mk 7-E is fitted with the variable speed control. This enables the DPV to have a slower speed, making this small versatile great for restricted environments. All other specifications are identical to the Mk 7.

Farallon Mk 8-Twin

FARMk8TWIN



Mk 8-Twin system consists of two Mk 8 attached to a central platform or sled. A riding saddle is attached to the platform as well as a saddle on each of the Mk 8's. This unit is designed to transport one or two divers and a significant neutral payload. This Twin DPV also makes an excellent camera platform for underwater filming.

Each Mk 8 DPV can be removed easily and quickly from the central platform permitting each diver to operate the unit independently. Upon completion of tasks, the DPV's can be reattached to the sled quickly and easily.

A single operator can control the operation of the Mk 8-Twin through the standard controls on each unit. At slow speeds, the Mk 8-Twin can turn within its own radius.

The Mk 8-Twin is also available in the ER version employing Silver Zinc batteries. The resultant increased range is 2.0 to 3.5 times.



Farallon Mk 8

FARMk8



The elite Diver Propulsion Vehicle that has set the DPV benchmark. Time tested, this DPV is the most durable in the diving industry. This heavy duty multipurpose DPV suits many applications thoroughly. From exploration, wreck diving, commercial diving inspections and surveys, military, marine life harvesting surveys, and a wide array of sport diving applications.

Variable speed control through dual fingertip controls. The Mk 8 comes with battery pack, 24 hour recharger, riding saddle and user manual.

Mk 8 Specifications:

- * **Length:** 62 inches
- * **Surface Weight:** 65 lbs. w/o battery, 110 lbs. with battery
- * **Buoyancy:** + 3 lbs.
- * **Speed:** 0 - 2.75MPH, 0 - 242 feet per minute
- * **Range:** 12,500 - 15,000 feet
- * **Depth:** 400 FSW
- * **Material:** .25 inch Aluminum
- * **Color:** Safety orange

Farallon Mk 8-ER

FARMk8ER

The Mk 8-ER is the extended range version of the Mk 8. Using optional silver zinc batteries, will extend the range of the vehicle by a factor of 2.5 - 3.0, otherwise the Mk 8-ER is identical to the Mk 8.

Farallon Gauge Mount



Gauge mount designed specially for the Farallon DPV's. Holds most wrist gauges.

*The World's only
commercially available
Dive Propulsion Vehicle
approved for U.S.Navy use.*

Farallon® Dolly



Heavy duty, wheeled dolly for land transport.

Farallon® Six Hour Charger



Six hour fast charger. Dual channel charger reduces battery recharge time.

WK-DMU WALL THICKNESS GAUGE



WK-DMU

Underwater Wall Thickness Gauge

ONE HANDED ACTION — The WK-DMU has been designed in close collaboration with divers so that problems peculiar to the underwater environment could be overcome from the start.

As a result, the WK-DMU is one-handed in operation, leaving the diver with a hand free for other actions that might be necessary in a near weightless environment.

The instrument has an ergonomically designed hand grip and is equipped with a wrist strap.

With no controls to adjust, and automatic switch on/off by simply pressing the spring loaded transducer against the surface of the material to be measured, operation is simplicity itself.

DIGITAL DISPLAY

Visibility at depths to 600 ft. can be very poor in some waters, so the WK-DMU is provided with a large, bright red LED display, angled towards the diver.

Three figures are displayed to show thickness in millimeters to one decimal place. If the thickness of material is more than 99.9mm, the display 'overflows' to show the last three digits. An LED indicator lights to show this condition.

Displayed resolution is 0.1mm in the range of 4 to 99.9mm.

Separate LED indicators are also provided to check battery condition, and to confirm that couplant is present for satisfactory operation.

ACCESSORIES

Standard accessories provided with the WK-DMU include the pistol grip, which is detachable and can be moved to any convenient position along the body of the instrument; the wrist strap which is also detachable; a battery charger and a custom carrying case for the outfit.

Battery charging is effected through a sealed socket situated under a cover plug beneath the display. Batteries are fully charged within a 16-hour period and will provide sufficient power for a full 8 hours operation.

The WK-DMU is pre-calibrated for steel, and a zero facility is provided for adjustment out of the water in a service department by access through a sealed socket.

SPECIFICATION

CALIBRATION: for steel

LENGTH: 310 mm (12 inches)

DIAMETER: 80 mm (3 inches) excluding pistol grip

WEIGHT: 1.5 Kg (3 lb. 4 oz.)

CHARGING TIME: 16 hours

BATTERIES: 5 rechargeable 1.5 V cells

CERTIFICATE: Lloyds pressure test to 600 ft. equivalent.



Magnetic Particle Inspection

BLACKBIRN MPI

Magnetic Particle Inspection Products - Introduction

BIRNS BLACKBIRN Magnetic Particle Inspection (MPI) products are designed to locate cracks and weld defects in underwater steel structures, using nondestructive testing (NDT) techniques. The advantage of this process is that ships can be inspected without dry-docking, and fixed structures such as oil platforms can be inspected *in situ*. Further, BIRNS BLACKBIRN MPI equipment may be used to locate leaks of oil or other hydrocarbon-based fluids in water, often in conjunction with full magnetic particle inspection. And certain scientific applications can benefit from the use of BIRNS BLACKBIRN ultraviolet lighting fixtures. Results of all indications may be viewed and/or recorded on film or videotape.

BIRNS BLACKBIRN equipment is based on a high-output ultraviolet source, with an integral high-efficiency visible filter. The electronics to power this source may be located either with the diver (in a convenient power pack) or with the diver's tender (in a UL-approved splash proof box). When the electronics are situated 'locally' (i.e. with the diver), options are available to also power an integral BIRNS Snooperette 'white' light and an electromagnet, both of which are switched and diver-controlled.

Various configurations of products are available, but they may be grouped into two main groups: BLACKBIRN I (with integral electronics) and BLACKBIRN II (with top side electronics). Special configurations are also available.

Birns Blackbirn - I - Complete MPI System

A complete underwater MPI/NDT system, this beautiful unit detects oil leaks, cracks and weld defects in underwater steel structures. The complete system includes a powerful hand-held UV light system with integral electronics package; an integral BIRNS Articuleg articulating electromagnet; a 150 - Meter power cable, and a steel reinforced carrying case. All underwater connectors are heavy - duty MSG - 3 - CP connector for maximum durability.



Birns Blackbirn - I Oil-Leak Detection**

A streamlined version of the Blackbirn I, this unit includes the powerful Blackbirn UV source with internal electronics, and a 150 - meter BIRNS power cable.

Birns Blackbirn - II Oil-Leak Detection*

Perfect for fast and easy underwater oil-leak detection, the Blackbirn II includes the same powerful UV source as used in the Blackbirn-I; a top-side ballast with ON/OFF illuminated dual-line circuit breaker switch and GFCI/ELCI in a splash-proof UL-approved dielectric box; and a 45 meter BIRNS power cable.

**



Birns Articuleg Electromagnet***

Generating over 20 Kg of "pull", the articulating legs of the Articuleg adjust to round or uneven surfaces, getting into areas that fixed-leg "prods" can't reach. Complete with 1.8 meter "coil cord" cable with metal shell connector and top-side ballast

*



AQUA TECH

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OXYGEN ANALYZERS



OMS™ PROFESSIONAL DIVE OXYGEN ANALYZER II

Not analyzing your air or gas for oxygen content is dangerous, and analyzing with poorly designed “flow adapters” and oxygen analyzers may present additional hazards.

“I think it is ... %”, “I assume it is air”, or “They analyzed it” are very dangerous assumptions to make when it comes to certifying the % of O₂ in the “air” or gas contained in your personal or rental cylinders. You, and you alone, are responsible for accurately analyzing your own gas, and failure to do so may result in oxygen poisoning, hypoxia and even death!

Many “flow adapters” often have poorly regulated flow rates (different flow rates can change the reading on your analyzer display) which may result in dangerous analyzer readout errors in excess of 3% (especially between the calibration and analyzing procedures). This type of error will definitely impact your planned PO₂! For example, a 430 fsw / 10% O₂ dive with a planned PO₂ of 1.40 ATA could turn into a dive with an actual PO₂ of 1.68 ATA; due to gas flow variation and subsequent readout error!

You can take comfort in knowing that the new OMS™ Professional Dive Oxygen Analyzer II is engineered to be used in conjunction with the standard OMS™ flow meter or the optional DIN flow meter. Both accurately regulate a constant rate of flow of gas to the analyzer sensor. This, combined with superior electronics makes the OMS™ Professional Dive Oxygen Analyzer II the most accurate analyzer in its class. (+/- 1% of readout).

While not designed for underwater use, the OMS™ analyzer is waterproof and floats! Response time is usually under 10 seconds and the resolution / O₂ range is an unprecedented 0.1-100%.

The unit comes complete with a adjustable plastic flow meter (OX-FLOW) that attaches to the LP BC hose fitting or an optional DIN adapter (OX491) that has a constant flow of 2-3 lpm, surgical grade silicone tubing and a sturdy protective O-Ring case.



TELEDYNE PORTABLE OXYGEN ANALYZERS 320BRC 320P/D

Teledyne’s portable oxygen analyzers are designed for applications from diving to fine tuning boilers. Lightweight, rechargeable NiCad batteries, internal recharge circuit, push-button activated built-in pump (320P series), digital meter (320BRCD & 320P/D). Intermittent, diaphragm pump. Powered by 2.5 VDC, 48” water column vacuum.

The 320 Series employs Micro-Fuel sensor for rapid and accurate oxygen analysis. This maintenance free, sealed, electrochemical cell is specific to oxygen, insensitive to flow rate, and has a 90% response in less than 7 seconds. At the end of its life, the cell is discarded and replaced like a battery. Cell -Saver cap protects the sensor from exposure to air.

Options

- * 100 VAC or 220 VAC, 50/60 Hz recharge circuit
- * Special Ranges
- * Carrying Case: Aluminum/Steel clad, foam interior
- * Flow-Thru adapter
- * m VDC output signal

	320BRCD	320P
Ranges	0-5, 0-10, and 0-100% oxygen (switch selectable) - optional ranges available	0-5, 0-10, and 0-25% oxygen (switch selectable) - optional ranges available
Sensitivity	0.5% of full scale	0.5% of full scale
Accuracy	+2% of full scale at constant temperature; +5% of reading throughout the operating temperature range (once temperature equilibrium is achieved)	+2% of full scale at constant temperature; +5% of reading or +2% of full scale, whichever is greater, throughout the operating temperature range
Operating temp range	-32 to 122°F (0 to 50°C)	-32 to 122°F (0 to 50°C)
Response time	90% < 7 seconds with B-1 cell (6 month warranty) 90% < 15 seconds with B-3 cell (12 month warranty) 90% < 30 seconds with C-3 cell (18 month warranty)	Same as 320BRC specifications
Output	External, 0-100 mVDC range	0-100 mVDC signal
Oxygen sensor	Micro-fuel Cell, class B-1 (standard). Class C-3, B-3, A-5 cells (optional). Sensor selection is determined by customer needs and sample gas composition.	Same as 320BRC specifications
Power requirements	Integral rechargeable NiCad batteries	Integral rechargeable NiCad batteries
Sample pump	Not included	Included
Display	Analog meter	Analog meter

DRAEGER GAS DETECTION

Aqua Tech can supply all of your Draeger needs for military, medical, aerospace, mining, and safety/hazardous material industries. These are amongst some of the industries which use Draeger equipment daily. Draeger was founded in 1889 and has undergone a few name changes since then. Draeger had its first patent in 1899. This was a carbonic reducer valve for beer machines.



In many industrial applications, safety is ensured around the clock by a fixed gas system. Hazards can have several origins: the release of toxic gases, oxygen deficiency or enrichment as well as the presence of combustible gases and vapors. When detected at an early stage, countermeasures can be initiated to protect personnel, workplaces, and equipment.

Draeger Gas Detection Hand Pump



Draeger Gas Detector Pumps

- * Gas Detector Pump accuro
- * Automatic Pump accuro 2000
- * Automatic Pump Quantimeter 1000

Accuro 2000



Different Draeger gas detector pumps have been developed to suit specific applications: accuro gas detector pump, manually operated bellows pump for short term measurements. Accuro 2000, used in combination with the Accuro as automatic pump system for short-term measurements. Quantimeter 1000, automatic gas detector pump for short term measurements in areas where intrinsic safety is required.

Draeger Pac III



Draeger Pac III

- * Complete Instrument Family
- * More than 20 sensors in 3 sensor families
- * Individually configureable
- * Power supply, Various
- * Adjustable Alarm and testing Parameters

Pac III is a family of single gas measuring units with the version Pac III B CO, H₂S or O₂; Pac III E

optionally has a data logger and special alarm evaluation for TRGS/ACGIH.

Quantimeter 1000



Any special circumstances regarding your gas detection requirements, please call the Aqua Tech technical sales representative. Aqua Tech's professional staff can help you. Please refer to Draeger's web site for technical data at www.draeger-usa.com

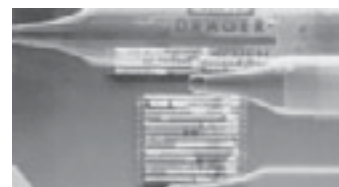
Draeger Tubes



Draeger-Tubes for long term measurement

- * Draeger Long-Term Tubes
- * Draeger Diffusion Tubes
- * Draeger Badges

Direct reading measuring systems can be used to determine average concentrations over periods of several hours, for example during a work shift of up to eight hours. Organic and inorganic gases and vapors can be monitored in terms of personal or area measurements.



Draeger-Tubes for short term measurement

- * Spot measurement
- * Personal Monitoring
- * Confined Space Measurement
- * Leak detection at Pipelines
- * Measurement of Emission and Emission

Short-term measurements are carried out either manually using the accuro gas detector pump or automatically with the accuro 2000 automatic pump. In explosion hazard areas, the compact and microprocessor-controlled Quantimeter 1000 automatic pump can be used.

Gas	Item	Measuring Range	Tube #
Oxygen	5% /b	5-23 Vol %	67 28081
Carb. Dio.	5% /b	0.01-0.3 Vol. %	CH 30801
Carb. Dio.	0.1% /a	0.1-6 Vol. %	CH 23501
Carb. Dio.	0.5% /a	0.5-10 Vol. %	CH 31401
Carb. Dio.	1%	1-20 Vol. %	CH25101
Carb. Dio.	5% /a	5-60 Vol. %	CH20301
Carb. Mon.	2/a	2-300 ppm	67 33051
Carb. Mon.	5/c	5-700 ppm	CH25601
Carb. Mon.	8/a	8-150 ppm	*CH19701

*Only for CO in H₂

Carb. Mon.	10 /b	10-3000 ppm	CH20601
Carb. Mon.	0.1% /a	0.1-1.2 Vol. %	CH29601
Carb. Mon.	0.3% /a	0.3-4 Vol. %	CH24901
Carb. Mon.	0.3% /b	0.3-7 Vol. %	CH29901
Oil Mist	1/a	1-10 mg/m ³	67 33031
Oil Mist	10/a-P	25-100 micro gr.	67 28371

Oil Mist Tubes are an Aerosol

Water Vapor	0.1/a	0.05-1 mg/l	81 01321
Water Vapor	0.1-20 mg/l	0.1-20 mg/l	81 01081
Water Vapor	0.1	1-40 mg/l	CH 23401

DRAEGER GAS DETECTION

Draeger Civil Defense Set DRAx

The Draeger Civil Defense Set is a means to detect eight chemical substances, including nerve, blood, lung, nose and throat irritating agents. With the ability to detect these agents quickly and easily, CDS is simple enough to be used by any Emergency Responder. Just assemble, squeeze and evaluate the color changes against the instruction sheet. So you have the ability to always be prepared for the worst, anywhere!

Features:

- * Rugged Foam Padded Carrying Case
- * 10 Civil Defense Sets
- * 2 Accuro Pumps
- * Laminates Color Instruction Sheets
- * 2 Extension Hoses
- * 2 Simultan test Set Openers



Draeger HazMat Simultest Kit DRAx

Hazardous Materials Squads and Emergency Responders are often faced with difficult situations where it is critical to identify an unknown substance. The Draeger HazMat Simultest Kit was designed for this application. It provides rapid identification and quantification of an unknown substance and aids in the determination of what actions need to be taken.

Features:

- * Rugged Foam Padded Carrying Case
- * 10 Test Sets
- * Accuro Bellows Pump
- * Laminated Instruction Cards
- * 2 Extension Hoses
- * Air Current Kit



Draeger Aerotest Simultan HP Kit DRA6525951

The quality of the Breathing Air can be tested in accordance to the valid purification standards by means of quantitative measurements of the contaminations. Different regulations can be fulfilled (e.g. DIN EN 12021).

Quick-Check, High Accuracy Measurements in 5 Minutes

The measuring device, G 5/8 or INT connection, can be connected to High Pressure Compressed air supply systems.

Technical Data

- * Carrying Case: L 300 mm x H 360 mm x D 80 mm
- * Weight: 3 kg
- * Supply Pressure: 200/300 bar
- * Connection: G 5/8 or INT
- * Flow: 0.2 L/min and 4.0 L/min
- * 2 Simultan test Set Openers

Complete Aerotest Simultan HP Kit

- * One Reducer with Hand Operation
- * One Measuring Device for 4 Tubes
- * One Timer
- * One Break-off facility for tubes
- * One Instruction for Use Manual
- * One box of 10 Draeger tubes, carbon 100/a-P
- * One box of 10 Draeger tubes, carbon monoxide 5/a-P
- * One box of 10 Draeger tubes, oil 10/a-P
- * One box of 10 Draeger tubes, water vapor 20/a-P
- * One Transport Case

Aerotest Simultan HP - without Draeger Tubes

- * One Reducer with Hand Operation
- * One Measuring Device for 4 Tubes
- * One Timer
- * One Break-off facility for tubes
- * One Instruction for Use Manual
- * One Transport Case



** not shown with reducer

Draeger Aerotest Simultan LP Kit DRA6525924

The quality of the Breathing Air can be tested in accordance to the valid purification standards by means of quantitative measurements of the contaminations. Different regulations can be fulfilled (e.g. DIN EN 12021).

Quick-Check, High Accuracy Measurements in 5 Minutes

The measuring device, barbed nipple, can be connected to Low Pressure Compressed air supply systems.

Technical Data

- * Carrying Case: L 300 mm x H 360 mm x D 80 mm
- * Weight: 3 kg
- * Supply Pressure: Max. 10 bar
- * Connection: barbed nipple
- * Flow: 0.2 L/min and 4.0 L/min

Complete Aerotest Simultan LP Kit

- * One Measuring Device for 4 Tubes
- * One Timer
- * One Break-off facility for tubes
- * One Instruction for Use Manual
- * One box of 10 Draeger tubes, carbon 100/a-P
- * One box of 10 Draeger tubes, carbon monoxide 5/a-P
- * One box of 10 Draeger tubes, oil 10/a-P
- * One box of 10 Draeger tubes, water vapor 20/a-P
- * One Transport Case

Aerotest Simultan LP - without Draeger Tubes

- * One Measuring Device for 4 Tubes
- * One Timer
- * One Break-off facility for tubes
- * One Instruction for Use Manual
- * One Transport Case



Kit Part #65 25 925

Draeger Tubes for the Aerotest LP and HP

- * One box of 10 Draeger tubes, carbon 100/a-P **Part #67 28 521**
- * One box of 10 Draeger tubes, carbon monoxide 5/a-P **Part #67 28 511**
- * One box of 10 Draeger tubes, oil 10/a-P **Part #67 28 371**
- * One box of 10 Draeger tubes, water vapor 20/a-P **Part #81 03 061**

REMOTE OPERATED VEHICLES

The "Little Benthic Vehicle" LBV has been created for infinite uses. Whether your pursuits be pleasure, work or science LBV provides a solution. With four different models that have operating depths of 150, 300, 1500 and 3000 meters respectively, powerful thrusters, intuitive controls, rugged construction, compact dimensions and affordability undiscovered areas are in the past.

Commercial Applications

LBV was created to solve the demands of many industries. An obvious owner comes from the commercial market. A serious and rugged tool is required to meet the demands of commercial operating conditions. LBV meets these requirements. Imagine the single person operation of an ROV aiding in inspection, light work, diver support pre-sight survey. For the commercial users with large ROVs a LBV "fly out" system may be of great use.

These Specifications are for the 150 Meter System only. The specifications are different for the 300, 1500, and 3000 meter system.

Depth: 9843 Ft.	Thrusters: Four High Performance.
Speed: 3 Knots +	Video Cameras: 420 Line - 0.3 Lux
Length: 22"	Camera Tilt: 180 Degrees Vertical
Width: 12"	Range of View: 270 Degrees Vertical
Height: 12"	Lighting: 50 Watts Halogen
Diagonal: 16.97"	Sensors: Depth, Heading, Rate, Audio and Temperature
Weight: Approx. 24 lbs.	Auto Functions: Depth and Heading
	Protective Frame: Alum. Bumper Frame with Flotation



LBV is an underwater vehicle like no other. With it's compact size, rugged design, capable features and affordable price it is the perfect tool for any underwater application

The vehicle weighs less than 20 pounds (9.7 kg) and the total system, including 330 meters (1082 ft.) of umbilical, weighs just 67 pounds (30 kg). Easily stored and operated by a single person.

Key Standard Features:

- Low system price
- Compact dimensions
- Four (4) powerful thrusters (including lateral)
- Speeds in excess of three (3) knots
- Very small diameter umbilical (7.4 mm/0.290")
- Umbilical lengths up to 330 meters (1082ft)
- Protective shell
- Standard 420 line 0.3 lux color camera
- Can accommodate two (2) cameras
- 270 Degrees field of vision
- 50 Watt Halogen light (tracks camera)
- Various depth ratings
- Auto heading and depth
- Video overlay
- Intuitive controller with single stick three (3) axis joystick
- I.P. 67 temporarily submersible power supply
- Input voltages anywhere from 90 to 260 volts
- Low cost spares
- Low cost options

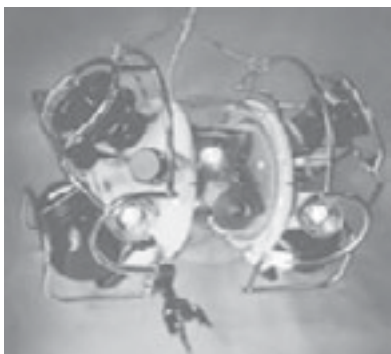


Options:

LBV is available with several options including scanning sonar, grabber, tracking system, tether management system, umbilical reel, umbilical reel with slip ring, ultra low light camera, high performance thrusters and various sensors

REMOTE OPERATED VEHICLE

Offshore HYBALL



OFFSHORE HYBALL shares all of the unique features that have made Hyball so successful but with the added benefit of increased power. This was achieved by a redesign of the power modules to provide more efficient switch mode supplies to the thrusters and an increase in the size of the power module transformers. The surface unit power supplies and wiring are also up-rated. In addition the video circuitry has been improved as have the lighting circuits. Remote focus has been added for the video camera and all of the ROV circuit boards have been improved. Hydrovision has added interfaces for sonar, manipulator and a CP probe is standard.

Both Offshore Hyball and Hyball share the unique feature of a patented meridian view port that allows the internally mounted camera(s) to tilt and view through 360 degrees. Panning of the camera is achieved by rotating the vehicle, which can turn on its own axis. This combination of camera movement and vehicle maneuverability provides you with the ideal remote controlled subsea video inspection package. In both ROVs we provide you with the very latest in color video cameras for unbeatable video quality. Currently we use a JVC 470 line resolution, 0.95 lux color CCD camera with an F 0.8 Pentax lens and remote focus as the standard camera.

OFFSHORE HYBALL is fitted with four thrusters. Two main thrusters provide forward, reverse and rotational movement and two vertran thrusters provide vertical and lateral movement. Each has 5 inch diameter propellers in Kort Nozzles driven by 450 watt, 45 volt DC motors through 10.5:1 reduction gears.

The carbon/ceramic spring loaded shaft seals and motor brushes have a service life of 500 hours in normal operation down to 300 meters (1000 feet). They can be replaced on all four thrusters in less than an hour by removing the thruster from the outside of the vehicle.

Thruster speed and direction is controlled by digital signals proportional to the movements of the joystick. Built in protection prevents overheating and overloading of motors. Ramping of motor speed is software driven through a dedicated microprocessor to give smooth operating performance.

OFFSHORE HYBALL is equipped with two fixed 75 watt, quartz halogen lights aimed forward and two 75 watt lights mounted on the camera chassis. These camera chassis lights track with the camera. All light bulbs are easily replaceable in the field. Each light is individually controlled and has an on/off indicator on the video overlay. Light intensity is adjustable from the Surface Unit keypad.

OFFSHORE HYBALL is equipped with a low light CCD color video camera with a wide angle, remote focus, auto F 0.8 auto iris lens. The camera is mounted on a chassis, which rotates through 360 degrees and allows the camera to view up, down, forward or backwards through a unique, patented Meridian view port.

The video picture is sent to the Surface Control Unit and is displayed on an integral 14 inch high resolution color monitor. Either PAL or NTSC format is available. A BNC outlet is provided for a video recorder. We recommend that an S-VHS or Y/C video recorder be used that is capable of recording the high quality video from Offshore Hyball, which has greater than 460 line resolution. (A standard domestic VHS recorder can only resolve about 270 lineation). Three cameras may be mounted on the standard camera chassis; the standard camera, a low light monochrome, and a still camera.

Offshore Hyball is supplied with a full package of control and instrumentation sensors.

Depth; The digital depth indicator is selected by the operator to readout in feet or meters, salt or freshwater. The vehicle's depth is then displayed on the video overlay.

Navigation; **Offshore Hyball** is equipped with both a magnetic compass and a rate gyro.

Camera Position; A potentiometer on the camera chassis provides feedback to display camera tilt position on the video overlay.

Leak Detection; Pre dive water integrity is confirmed by drawing a partial vacuum in the vehicle using the supplied vacuum pump. This partial vacuum is displayed on the video overlay and can be monitored to ensure there are no system leaks. The vehicle is also fitted with a water ingress alarm as an additional safety feature.

Electrical Protection; Ground fault interrupters and circuit breakers are installed to protect both the surface unit and the vehicle.

Video Overlay; **Offshore Hyball** comes with the most advanced video overlay system of any ROV in its class. The overlay information can be displayed at the top or bottom of the screen or be removed. Information provided includes:

Vehicle heading and depth, time and date; Auto heading and auto depth status;

Lights selected and intensity; CP reading (if CP probe fitted); Manipulator status if fitted; Camera position indicator; Umbilical turns counter; And two lines of free text.

Controls; A single three-axis joystick and dive/surface buttons on the hand controller control the vehicle's movement. Any combination of vehicle thruster instruction (except rotation) can be locked in by use of the trim button. This is useful for hands off operation or for re-centering the joystick when operating in a cross current. Vertical thrust power is selected from the surface unit panel.

Membrane tactile response keypads are provided on both the surface unit and hand controller.

Dimensions

Vehicle with Surface Unit Bumper Frame

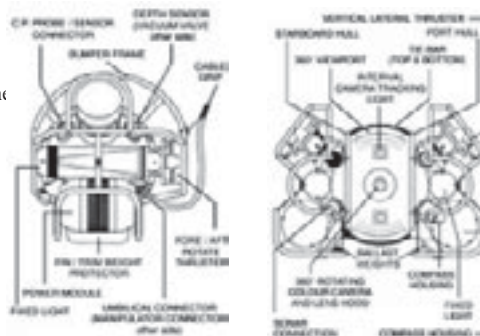
Length: 22.6 inches	18 inches
Width: 30.3 inches	12.35 inches
Height: 22.2 inches	20.25 inches
Weight: 132 lbs.	99 lbs.

Speed: 2.5 knots +
Operating Depth: 1000 feet
Payload: 14 lbs.

Power Requirements: 240 to 110 volts, single phase A/C 50/60 Hz. Peak mains power 2300 VA.

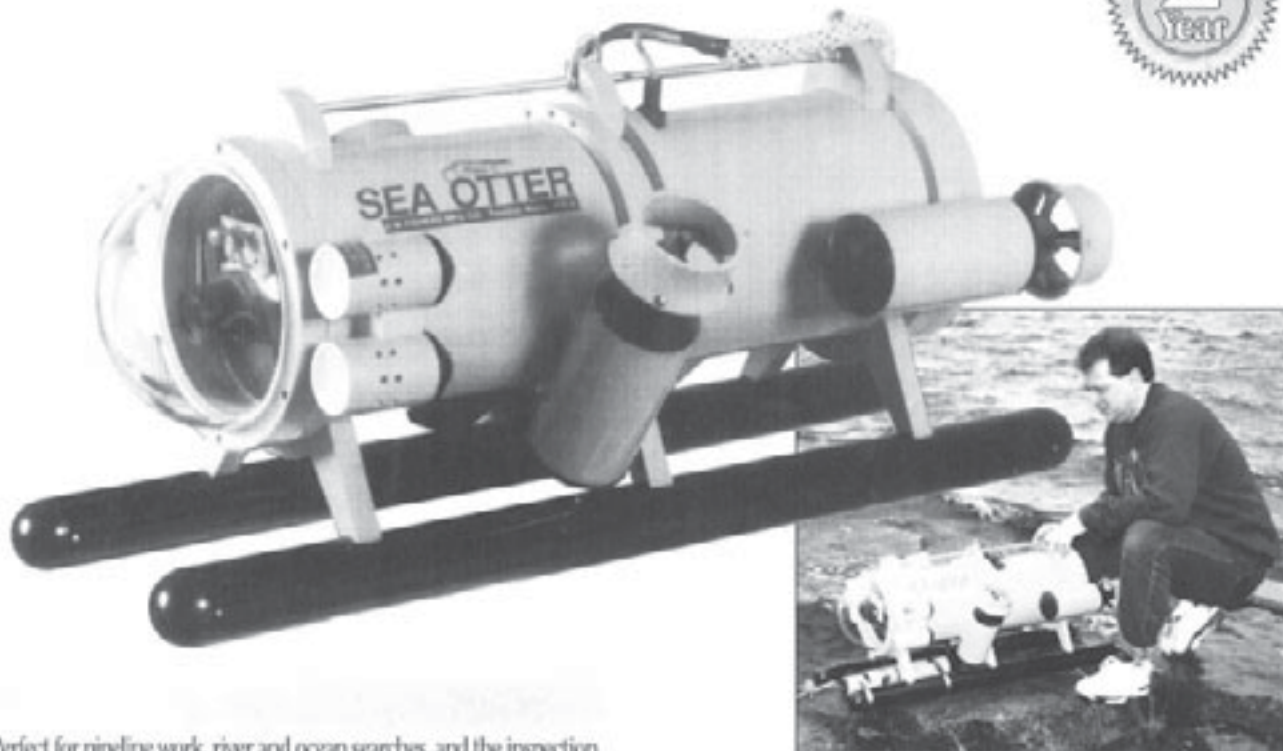
Umbilical

Length: 1600 feet
Diameter: .45" std. .58" neutral
Water Wt.: 2.8 lbs./330'
Min. Breaking Load: 1100 lbs.



REMOTE OPERATED VEHICLE

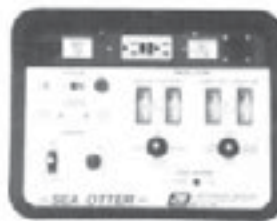
Comprehensive data sheets are available for all products.



Perfect for pipeline work, river and ocean searches, and the inspection of hazardous sites, the SeaOtter reduces or eliminates the need to dive in difficult or dangerous environments. This ROV is powerful enough to handle currents, and rugged enough to reach depths of up to 500 feet.

It's also very easy to operate. A proportionately controlled four-motor propulsion system allows the vehicle to move in any direction. Meters on the control panel monitor thruster power and direction.

The SeaOtter meets or exceeds the specifications of other ROV systems sold at twice the price, giving a truly outstanding price/performance ratio!



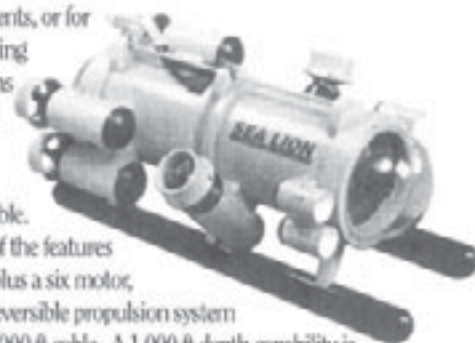
Topside Control and Color Monitor

- Depth rating of 500 feet standard
- CCD color camera with 3.6mm, 90° wide angle lens, 70° tilt, 2" to infinity focus
- Four variable-speed, remote controlled motors
- Four 100w tungsten halogen U/W lamps
- 13" topside color monitor
- Two spare control lines
- Ground fault and leak detection circuitry
- Field maintainable

Options: digital compass, on-screen display, manipulator arm, 220 VAC and PAL format.

In heavier currents, or for situations requiring long cable lengths up to 1,000 ft, a more powerful ROV called the Sealion is available.

Comes with all of the features of the SeaOtter plus a six motor, variable speed, reversible propulsion system and a 250 ft to 1,000 ft cable. A 1,000 ft depth capability is optional. The SeaOtter can also be upgraded to the power of the Sealion.



VIDEO SYSTEMS

Comprehensive data sheets are available for all products.

The TOV-1 Towed Video System is ideal for a variety of applications, from large scale searches to the visual inspection of dive sites.

This towed video system can cover a large area very quickly. By sending it to inspect an area or to verify a target before you send your divers, you can minimize the dive team's in-water time and maximize their useful bottom time.

The camera of the TOV-1 is mounted in the housing to give both straight ahead and downward viewing. It can also be used as a dropped video system for straight down and side viewing. The TOV-1 provides a high quality video picture which can be viewed on a monitor or TV and recorded on video tape.

- Compact corrosion proof U/W housing
- High resolution B&W camera (4 LUX)
- Wide angle lens (40°)
- Two 100 watt tungsten halogen lights
- 150 ft. cable included
- 250 ft. depth capability
- Leak detection circuitry
- 120 VAC

Options: Low light (.5 LUX) 60° B&W or color camera, monitors, two additional lights, Altimeter, 12 VDC, and 500 ft depth capability. PAL format camera and 220 VAC for European use.



The DHC-1 Diver Held Video Camera and lighting system was designed for use by commercial divers conducting inspection work in depths up to 500 ft. Both the low light B&W camera and the optional color camera produce sharp, high resolution video images which are sent to the surface for viewing on a video monitor or TV.

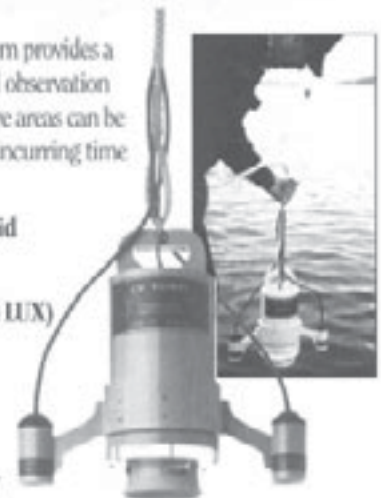
- 500 ft. depth rating
- 150-1000 ft. cable with U/W connector
- Compact .5 LUX B&W camera
- Auto Iris, fixed focus, 60° wide angle lens
- Compact and powerful 100/200W of diver switchable lighting
- Surface powered

Options: 150-1000 ft cable, color camera, monitor, 12 VDC, spares kit and carrying case, 220 VAC and PAL format camera for European use.

The DV-1 dropped video system provides a cost effective method for visual observation of the dive site. Targets and dive areas can be verified and recorded without incurring time consuming check-out dives.

- Compact system for rapid deployment
- High res B&W camera (4 LUX)
- Wide angle lens (40°)
- Two 100W lights
- 150 ft. cable included
- Leak detection circuitry
- 120 VAC

Options: 1,000 ft cable, Low light 60° B&W or color camera, monitors, altimeter, and 12 VDC. 220 VAC and PAL format camera for European use.



Detector, Magnetometer

BOAT TOWED MAGNETOMETER

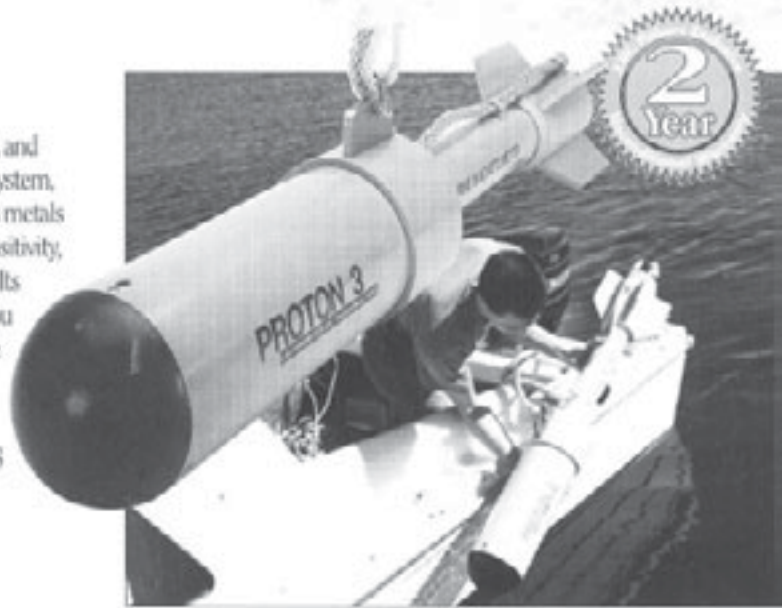
Comprehensive data sheets are available for all products.

This marine magnetometer is low cost, ruggedly constructed, and easy to operate. A high performance, micro-processor-driven system, the Proton 3 Magnetometer is the ultimate detector for ferrous metals such as iron and steel. The Proton 3 features a one gamma sensitivity, the maximum practical sensitivity for a towed magnetometer. Its range capability of 1500' to each side (3,000' total swath) lets you cover a wide area quickly and completely. Both small and large targets can be located.

The Proton 3 is available with an optional printer which produces a permanent record of readings along with Loran or GPS coordinates for accuracy and easy record-keeping.

- Control box with large, easy to read LCD display
- 150 ft. of cable
- Rugged tow fish
- 1-10 mph tow speed
- Two second cycle time
- Target alarm

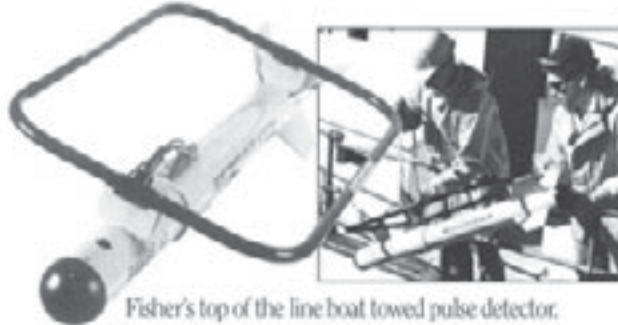
OPTIONS: Built-in printer, 300 ft. cable, Loran/GPS coordinates printout, RS232 computer interface, 1,000 ft. version available.



The Pulse 10 is a powerful boat towed metal detector available at an economical price. Its low cost and large detection area make this detector an excellent choice for both commercial operations and recreational treasure hunters. The Pulse 10 system includes an 18" search coil, with attached 150 feet of cable, tow fish, and top side control unit.

- Detects all metals
- 1-3 MPH tow speed
- Detection alarm
- Powered by two 12V batteries
- Can be converted for land use

OPTIONS: 300 ft. cable, altimeter, RS232 computer interface.



Fisher's top of the line boat towed pulse detector. Detects all metals. The 24" x 36" coil provides high sensitivity and an extra large detection area. The Pulse 12 system includes search coil with 150 feet of cable, tow fish, and master control unit.

The Pulse 12 master control unit can operate up to three search coils simultaneously, allowing an extremely large area to be covered.

- Detects all metals • 1-6 MPH tow speed • Detection alarm
- Powered by two 12V batteries • Can be converted for land use

OPTIONS: Two additional search coils, 300 ft. cable, altimeter, RS232 computer interface.



The Pulse 7 is Fishers' most economical boat-towed pulse metal detector. With its 7ft. x 12 ft. detection area and 1 MPH tow speed, it's ideal for locating large masses of metal—such as cannons, anchors or outboard motors—using idle speed search patterns. The Pulse 7 can be upgraded at any time to the specifications of a Pulse 10, including the addition of the tow fish. Comes with 150 ft. cable.



FISHER METAL DETECTORS

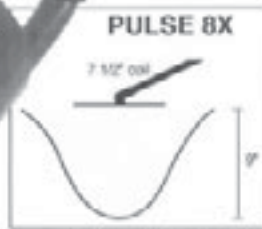
& Underwater Search Accessories

Comprehensive data sheets are available for all products.

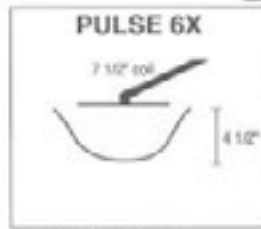
You can detect all metals on land or underwater with the Pulse 8X. Highly sensitive, it's the choice of the pros... perfect for all commercial applications. The Pulse 8X features rechargeable batteries, earphone, meter read-out, and interchangeable coils. It comes complete with all accessories including underwater and land earphones and land handle. Will not give false readings on minerals.

- For underwater or on land
- Detects all metals
- Will not detect minerals
- 6 ft. deep detection area
- Rechargeable batteries and charger
- Carrying bag
- UW and land earphones
- Land handle and hip-mount kit

OPTIONS:
Interchangeable coils,
extra battery pack,
220 VAC charger.



DETECTION AREA FOR A PENNY - 7 1/2" COIL



At less cost, the Pulse 6x shares many of the features of the Pulse 8x and can be upgraded to the same specifications at any time. The main difference: a 3 1/2 ft. detection area.

OPTIONS:

Interchangeable coils,
extra battery pack,
220 VAC charger,
carry bag,
land earphones.



The DHL-1 supplies continuous lighting for extended underwater operations such as hull or bridge inspection in depths up to 1000 ft. The very powerful beam is provided by two 100 or 250 watt tungsten halogen lamps. The DHL-1 is surface powered by 120 VAC and includes ground fault protection circuitry.

OPTIONS: 150-1000 ft. cable, 12 VDC,
220 VAC, 250w bulbs.



This precision altimeter allows UW detection and survey equipment to be held at precise distances above the bottom, for greater accuracy and safety. Has an adjustable bottom alarm and a large LCD readout that shows depth from 1 to 199 ft. Distance is checked three times a second. System comes complete with control box, 150ft. cable (1,000 ft. avail.)

OPTIONS: 150-1000 ft. cable.

Aqua Tech can supply all of your treasure hunting and gold mining needs. From diver hand held metal detectors, side scan sonars, Boat Towed Magnetometer, portable and larger not so portable dredging equipment.

DUKANE UPD ACOUSTIC BEACONS

DUKANE UPD - SERIES Acoustic Beacon

Specifications:

Frequency: 9, 12, 27, 31, 36, 48 or 54 kHz

Frequency Stability: $\pm 0.01\%$

Operating Depth: 2000 ft. (610m)

Pulse Length: 5ms $\pm 10\%$

Pulse Rate: 1 per second $\pm 10\%$

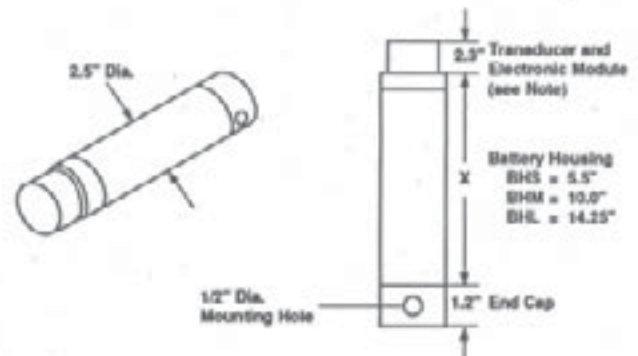
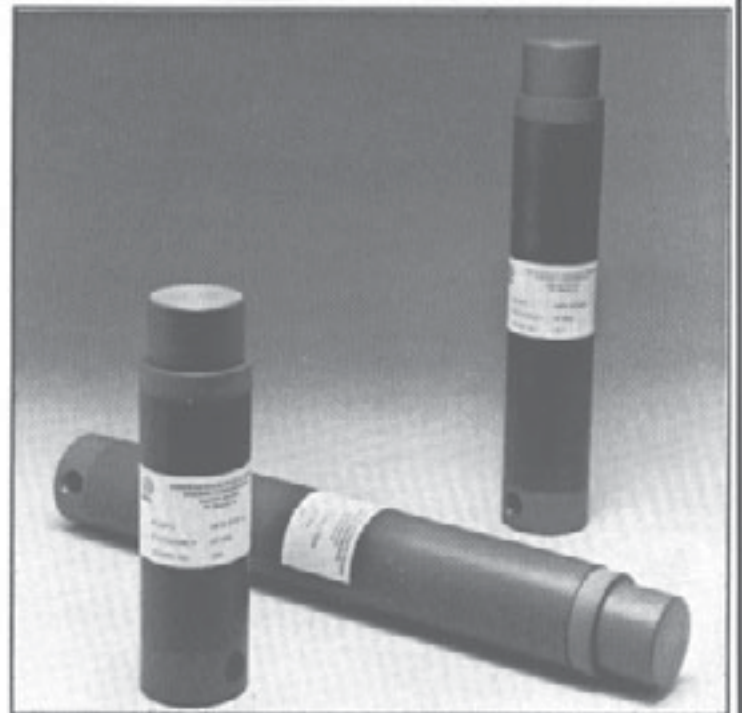
Operating Life: 3 days to 8 months,
depending on frequency,
output and battery housing

Acoustic Output: 1/8, 1/2 or 2 watts

Actuation: Battery Installation, Water
Immersion, External Switch or
Remote Control

Weight: 1 lb., 14 oz. (850 g) with BHS
2 lbs., 11 oz. (1.2 kg) with BHM
3 lbs., 13 oz. (1.7 kg) with BHL

We reserve the right to change the design and specification of goods supplied, without notice, to incorporate improvements in design and manufacturing techniques.



Note: Transducer and Electronic Module for 27 kHz and higher is shown. Lower frequency models use large module (4.7" Dia.)

Contact Aqua Tech for manufacturers literature and ordering assistance.

Description:

The Dukane UPD-Series Underwater Beacons have been designed and engineered to provide a versatile acoustic sound source capable of extended range and long operating life. The UPD-Series Beacons are inexpensive and can be used effectively to locate and mark underwater objects, such as pipelines, valves, divers, ROV's, and various other objects.

The UPD-Series has been configured to provide the most effective beacon for a particular application. Customer options include the selection of beacon frequency and output power for desired power, and method of beacon activation. Consult the "How to Select" section on the reverse side of this sheet and see how easy it can be!

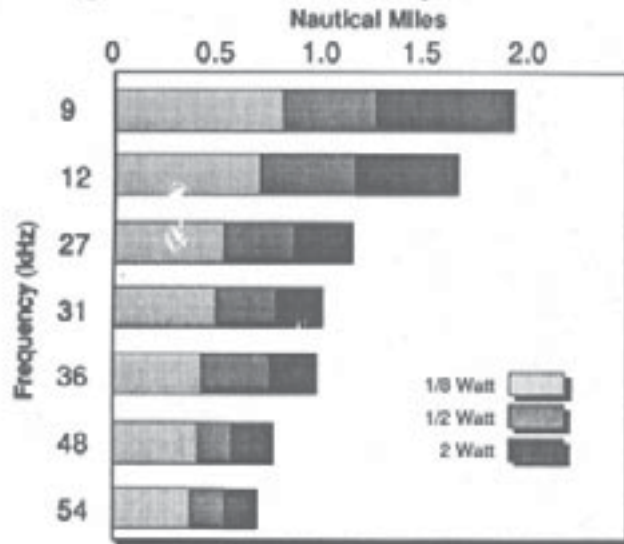
The UPD-Series Beacons are constructed of non-corrosive, high-impact materials and do not use any external hardware. They have been designed and field-tested to provide long and dependable service in the hostile marine environments for depths to 2000 ft. (610 m).

DUKANE UPD ACOUSTIC BEACONS

UPD-SERIES UNDERWATER ACOUSTIC BEACON

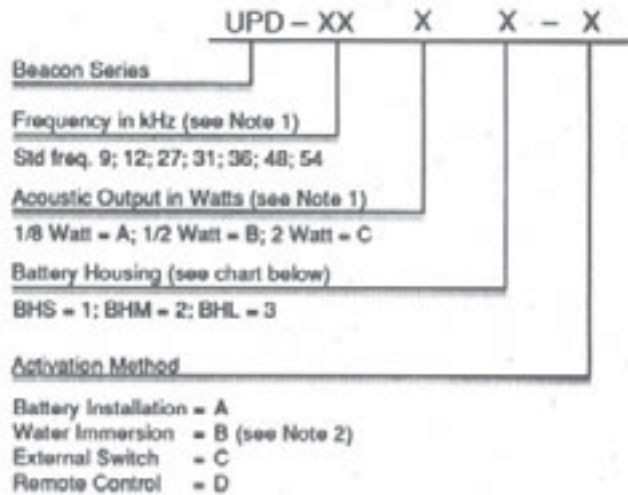
How to Select

Range vs Acoustic Output



Note: The above ranges are based on calculated values using the standard sonar equation and considers the use of the UPR-100 Pinger Receiver System in sea state 3.

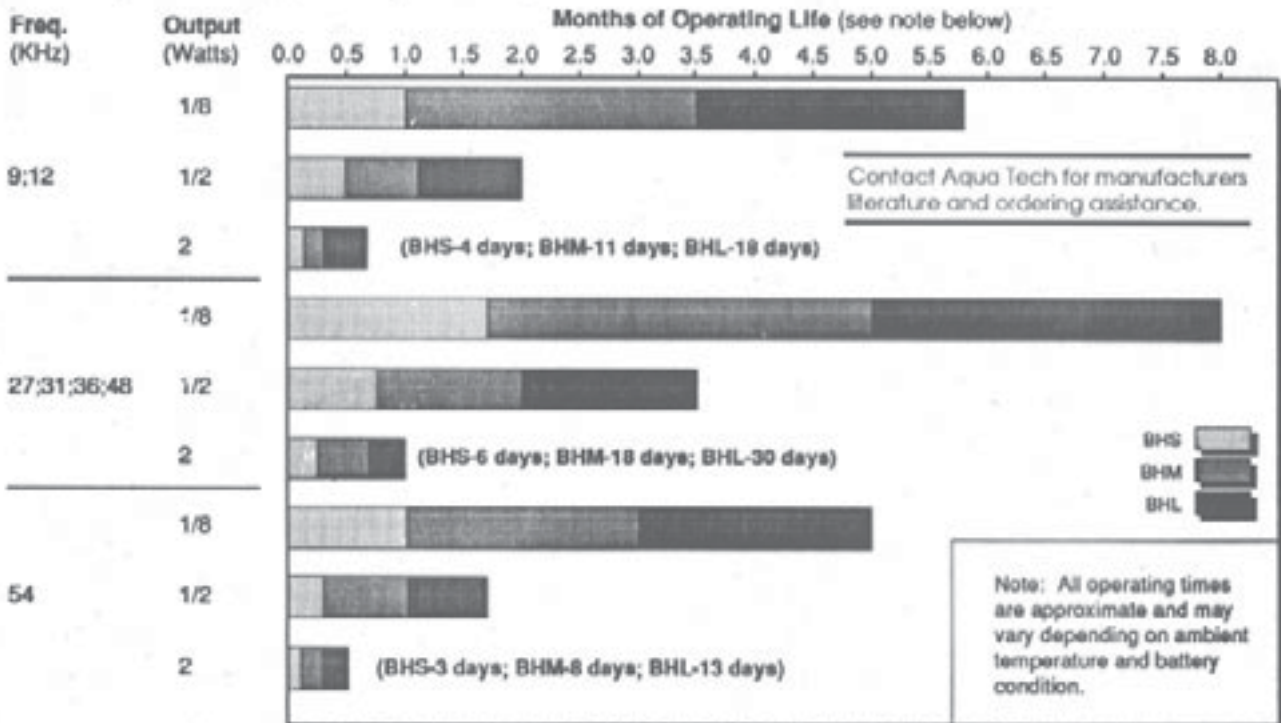
How to Order



Notes: 1. Non-standard frequencies and acoustic outputs are available.
 2. Recommend maximum operating life of 60 days.

Example: UPD-36B2-A is 36KHz, 1/2 Watt, BHM Battery Housing; 2 Month's (max.) operating life; battery installation activation.

Battery Housing vs Operating Life



DUKANE ACOUSTIC BEACONS

Underwater Acoustic Beacon

Model N15F210B

NSN 5845-01-009-4702

Specifications

Operating Frequency:	37.5 ± 1 kHz.
Operating Depth:	Surface to 20,000 feet.
Pulse Length:	Not less than 9 milliseconds.
Pulse Repetition Rate:	Not less than 0.9 pulse per second.
Operating Life:	30 days.
Acoustic Output, Initial:	1500 dynes/cm ² peak pressure at 1 meter.
Acoustic Output, After 30 Days:	1000 dynes/cm ² peak pressure at 1 meter.
Operating Temperature:	+ 28 F. to + 100 F.
Actuation:	Fresh or salt water, surface to 20,000 feet.
Radiation Pattern:	Rated output over 80 per cent of sphere.
Size:	1.3" diameter x 4" long.
Weight:	Less than 9 oz. (including battery).
Power Source:	Mercury battery, DUKANE P/N 810-418A.

Mounting Kits

Model No. N30A20A

NSN 5845-01-012-8241

This kit is widely used for mounting beacon to recorder or where space is limited. Requires through-holes with nuts and lock-washers on far side of bulkhead. For use with Dukane Model N15F210B Beacon.

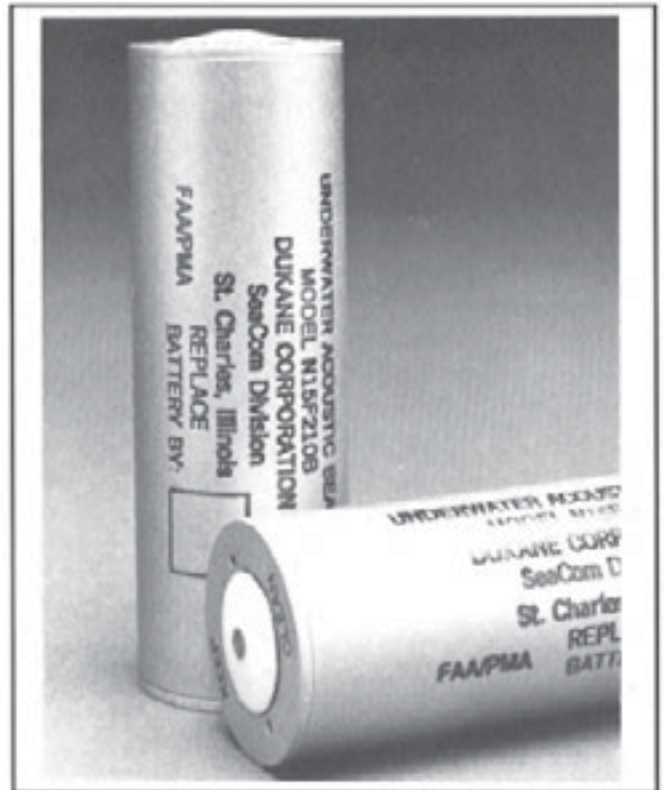
Model No. N30A26

NSN 5845-01-133-1960

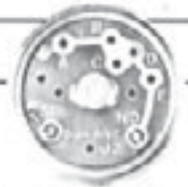
This mounting kit shown with beacon in place is usually used for mounting to the airframe. May be mounted from one side where necessary. For use with Dukane Model N15F210B Beacon. Beacon may be removed with mount left in place.

Model No. N30A27

Channel mount occupies minimum space yet affords considerable protection to beacon. It may be bolted on from one side — through bolts not necessary. Beacon may be removed with mount left in place. For use with Dukane Model N15F210B-S and N15F210B-HS Beacons. Material is aluminum; (N30A27 not shown — configuration same as N30A26 shown above).



Time Delay Caps



TD Series

Models TDB, TDH, TDS2, TDS20, TDHS

The TD Series Time Delay Caps are for use in the field as a direct replacement for the standard battery access cap of the Dukane Underwater Beacons. These interchangeable caps offer the user a variety of pre-set signal delays for the recovery of selected hardware with no more effort than the removal and replacement of the original cap for battery replacement. Selection of the five delay sequences on each cap is accomplished by inserting a small screw into the desired delay position. A no-delay position is also on each cap for immediate signal activation if desired. Caps available to depths of 20,000 feet with delay functions from 3 hours to 64 days. The last letters of the TD series model numbers correspond with the last letters of the various beacon configuration numbers to provide ease in matching. Consult factory for time-delay sequences and parameters available to meet customer specifications and needs.

Battery

Model No. 810-418A

NSN 6135-01-009-4929

(Not Pictured) Battery for use in Dukane Model Beacons N15F210B.

DUKANE UNDERWATER BEACONS

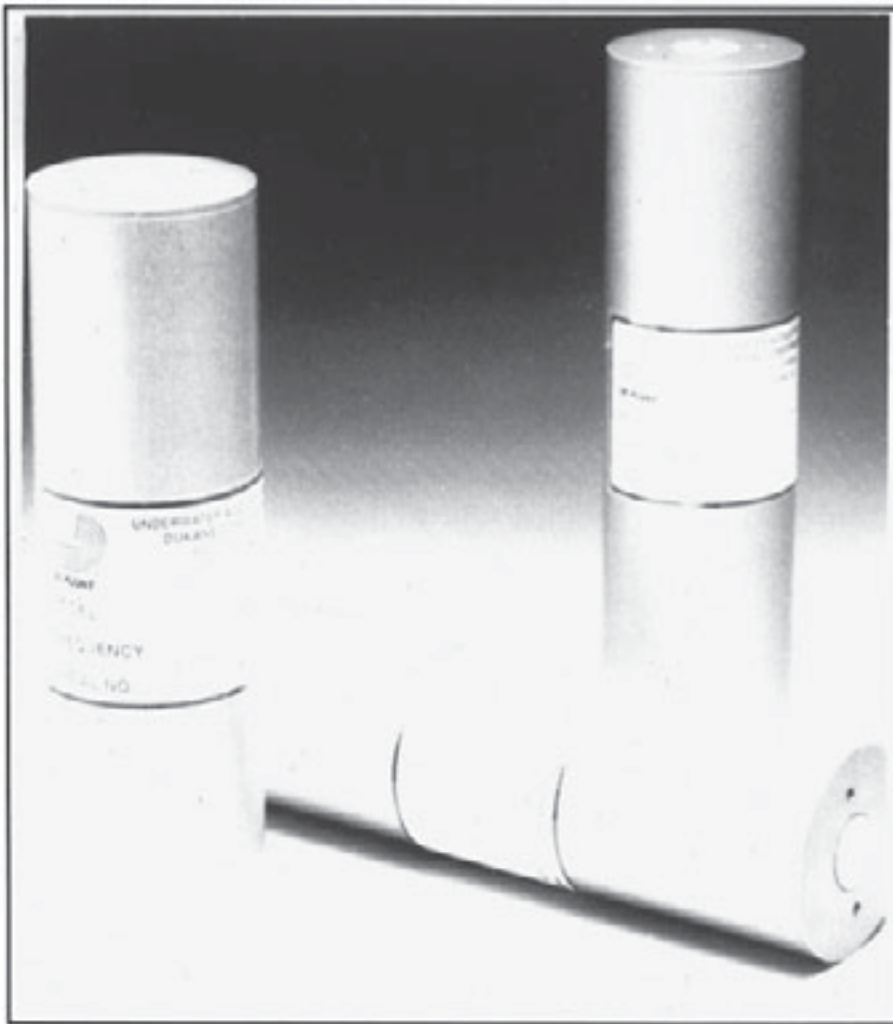
Seacom 250 Series Underwater Beacons



General Description

Dukane Seacom Division's 250 Series Beacons are a reliable underwater sound source that is designed for deep water applications. This 2.2 inch by 7.9 inch unit is powered by a replaceable alkaline battery readily

available worldwide. The 250 has been manufactured to withstand the environmental conditions seen by the military and off-shore industry in location and recovery work.



Specifications

Frequency:	30.0 kHz - DK250 37.5 kHz - DK251 45.0 kHz - DK252
Stability:	± .01%
Pulse Duration:	10 ms (nominal)
Pulse Rep Rate:	1 pulse/second (nominal)
Acoustic Output:	163 dB re 1 micropascal at 1 meter
Actuation:	Water Switch (Fresh/Salt)
Operating Life:	30 Days
Operating Depth:	20,000 Feet
Power Source:	Alkaline battery
Case Material:	Aluminum Alodined
Dimensions:	2.2" Diameter 7.9" Length



Contact Aqua Tech for Complete Manufacturers Literature and assistance in selecting your locating and marking beacons.

DUKANE DK 100 ACOUSTIC BEACON



DK 100 Underwater Acoustic Beacon

Specifications

Operating Frequency:	37.5 kHz \pm 1 kHz.
Operating Depth:	Surface to 20,000 feet.
Pulse Length:	Not less than 9 milliseconds.
Pulse Repetition Rate:	Not less than 0.9 pulse per second.
Useful Life:	6 years.
Operating Life:	30 days (minimum).
Acoustic Output, Initial:	1060 dynes/cm ² rms pressure at 1 meter (160.5 dB).
Acoustic Output, After 30 Days:	700 dynes/cm ² rms pressure at 1 meter (157.0 dB).
Operating Temperature:	+28° F. to +100° F.
Actuation:	Fresh or salt water, surface to 20,000 feet.
Radiation Pattern:	Rated output over 80 percent of sphere.
Size:	1.3" diameter x 4" long.
Weight:	Less than 7 oz. (including battery).
Power Source:	Lithium battery.

Description

The Dukane Model DK100 Underwater Acoustic Beacon has been designed to utilize current technology and to provide all of the outstanding performance and reliability features the Aviation Industry has come to expect from the Dukane Model N15F210B Beacon plus greatly extended useful life.

The DK100 Beacon can be used in a standby condition for 6 years prior to its actual operating life of at least 30 days. This is typically 4-1/2 years longer than that of the N15F210B Beacon. The beacon is powered by a lithium battery which is not replaceable by the user. Because of its 6 years of useful life and nonreplaceable battery, the DK100 Beacon will have virtually no maintenance costs; thereby allowing you more effective use of the beacon.

The DK100 can be installed in the same mounts that are currently being used for the N15F210B Beacon, thereby eliminating the need for any additional installation costs.

The Dukane Model DK100 Underwater Acoustic Beacon is an extremely durable 37.5 kHz beacon. It provides a signal that can be heard for approximately 1 to 2 miles in any direction. Operation of the beacon is a minimum of 30 days after water entry. Its high-strength construction permits operation in water depth to 20,000 feet. High-impact shock resistance has been established by extensive tests performed on the beacon. Its construction is similar to that of the N15F210B Beacon which has a proven history of ruggedness and durability in many actual incidents. The basic DK100 meets or exceeds FAA Advisory Circular 21-10A, British CAA No. AR.7, and SAE Minimum Performance Standard AS-8045.

General Information

The Dukane Model PL-1 Pinglite is designed to check operational status of Underwater Acoustic Beacons (pingers) in the 37.5 kHz range. It is intended primarily for use as a hand-held, self-contained, checkout device to perform an operational test on a beacon without removing it from its mount on an aircraft, FDR, CVR, or other equipment.



Pinglite

Model PL-1

DUKANE REMOTE PINGER



N30A50 SERIES

Specifications

Operating Frequency:	375 ± 1 kHz
Operating Depth:	Surface to 20,000 feet.
Pulse Length:	Not less than 9 milliseconds
Pulse Repetition Rate:	Not less than 9 pulse per second.
Operating Life:	30 days.
Acoustic Output:	164 dB re 1 micropascal
Operating Temperature:	+28°F. to +100°F.
Actuation:	Fresh or salt water, surface to 20,000 feet.
Radiation Pattern:	Rated output over 80 per cent of sphere.
Size (to end of penetrator):	N30A50/A: 1.3" diameter x 6" long N30A50/S: 1.25" diameter x 6" long
Weight:	Less than 16 oz. (including battery) without cable.
Power Source:	Mercury battery, Dukane P/N 810-418A.
Models:	N30A50/A: anodized aluminum N30A50/S: stainless steel.

Features

- Penetrator Type Switch
- Initiate Signal Upon Command
- Initiate Signal Upon Power Loss
- Variable Parameters

General Description

The N30A50 Series Remote Control Underwater Pinger was designed and engineered for emergency signaling and recovery of submerged manned or remote control vehicles. Attached externally to the vehicle, the Pinger will emit a signal upon command from a predetermined source. The Pinger is capable of use to 20,000 feet.

The Pinger may also be wired to a relay so that loss of power automatically completes the circuit and immediately activates the Pinger. A water switch prohibits on deck activation when power is shut down.

From inside the vehicle, the customer may wire to an activation switch or timing mechanism. With proper shipboard terminating equipment, the Pinger can be tied to and activated from a surface ship to give positioning information of remote controlled vehicle.

Dukane's capabilities and manufacturing flexibility permit offering a virtually unlimited variety of systems depending upon customers' needs. The N30A50 Series Pinger is available in both anodized aluminum or stainless steel. Mounting kits are of extruded aluminum. Pulse width and repetition rates can be widely varied as desired. Cable lengths are available to suit customer needs and are molded to designated lengths at the factory.

Contact Aqua Tech for manufacturers literature and ordering assistance.

MOUNTING KIT



This mounting kit is shown with beacon in place. Model N30A26 (shown) is used with the Model N30A50/A beacon. The similar N30A27 (not shown) mount is used with the Model N30A50/S beacon.

DUKANE ACOUSTIC LOCATOR

UNDERWATER ACOUSTIC LOCATOR SYSTEM MODEL N30A5B (Acoustic-Visual)

NSN 5845-01-176-8350

N15A235B



N15A235B RECEIVER CONDENSED SPECIFICATIONS

COMPONENTS OF DUKANE UNDERWATER ACOUSTIC LOCATOR SYSTEM MODEL N30A5B

1	Underwater Locator Receiver	Dukane Model N15A235B (Acoustic-Visual)
1	Hydrophone	Dukane Part No. 810-456
1	Earphone & Earphone Headband	Dukane Part No. 810-455
1	Staff Handle	Dukane Part No. 810-1253
3	Staff Extension Sections	Dukane Part No. 810-333
1	Staff Section with Morse Taper	Dukane Part No. 810-1344
1	Staff Hydrophone Holder with Cable	Dukane Part No. 810-332
2	Wrenches	Dukane Part No. 810-337
1	Transit Case	Dukane Part No. 810-340
1	Transit Case Liner (Top)	Dukane Part No. 810-339
1	Transit Case Liner (Bottom)	Dukane Part No. 810-338
1	High Noise Level Headset	Dukane Part No. 810-345HC
1	Staff Handle Locking Screw	Dukane Part No. 810-565
1	Dummy Load	Dukane Part No. 810-1118
SPARE PARTS (INCLUDED)		
1	Battery	Dukane Part No. 810-448
1	O-Ring	Dukane Part No. 810-342
1 Jar	O-Ring Lubricant	Dukane Part No. 810-346

FREQUENCY RANGE:	30 to 45 kHz continuous tuning.*
ALSO AVAILABLE:	20 kHz to 40 kHz continuous tuning
RECEIVER GAIN:	130 dB maximum at 37.5 kHz.
RECEIVER NOISE LEVEL:	0.1 Microvolts rms equivalent at receiver input.
RECEIVING BANDWIDTH:	Response down minimum of 30 dB at 1500 Hz from center frequency with 3 microvolt input signal.
AUDIO OUTPUT:	300 mw nominal at peak response between 1000 and 3000 Hz.
RECEIVER DIRECTIVITY:	Acoustic response down at least 10 dB at 130° to maximum at 37.5 kHz.
POWER SOURCE:	Commercially available mercury battery provides 50 hours of normal operation.
OPERATING TEMPERATURE:	0° F. to 130° F.
STORAGE TEMPERATURE:	-65° F. to +140° F.
DIMENSIONS:	4.5" diameter x 9" length.
WEIGHT IN AIR:	5 lbs.

* Frequency range can be expanded, contracted or otherwise modified on special order.

The DUKANE UNDERWATER LOCATOR SYSTEM utilizes corrosion-resistant materials wherever exposure to salt water is likely to occur. The transport case is 15" high x 20" long x 7-1/2" deep and with complete complement of accessories weighs 25 pounds.

The receiver and accessories packaged in the water-tight fiberglass transport case are protected from handling and shipping shocks and will float a minimum of two hours in open water.

The receiving transducer and the submersible earphone are equipped with water-tight connectors. The 12-foot hydrophone extension cable is furnished with mating connectors so that it may be completely detached

when receiver is employed by diver. The 7-foot staff has a loop at the hydrophone holder for attachment of a tow line so that hydrophone may remain in the water when boat is making slow to moderate speeds. A communications type headset equipped with noise-excluding ear pads is furnished for shipboard usage where high ambient noise exists.

The Acoustic/Visual Receiver allows the diver not only to hear (through the submersible headphones) but also see the signals as he zeros in on the submerged hardware. The L.E.D.'s brightness under water is comparable in air to a rating of 80 minimum to 160 typical millicandela (mcd.).

DUKANE TRANSPONDER



Signal Acquisition— Ranging System

MODEL 42A20

- Liquid Crystal Diode Display
- Pressure Sensitive Keyboard Control
- Signal Source Selectable
- Power Level Selectable

For use with the Dukane high security customer codeable Model N15T234 transponders. The Model 42A20 is a microprocessor-controlled system featuring: Ability to code up to 10^{10} codes in the N15T234 transponders in the field; multiple function, automatic or manual search and transpond modes; receiver band switch.

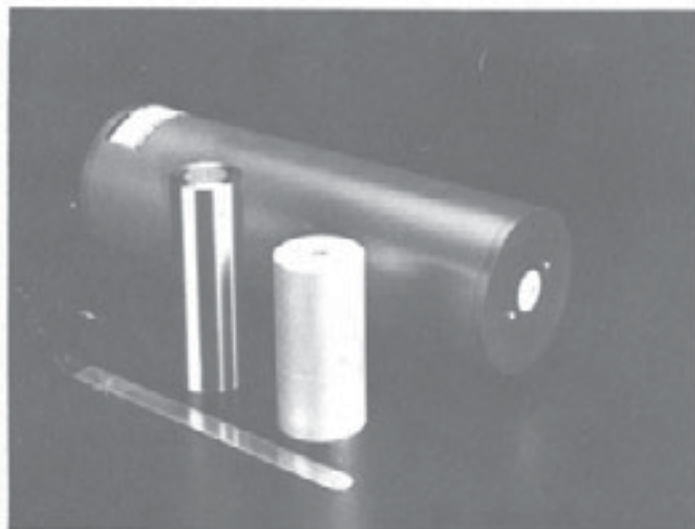


Command Transmitter Transponder System

MODEL CT485

- Selectable Pulse Repetition Rate
- Variable Acoustic Output
- L.E.D. Transmit/Frequency Indicator
- L.E.D. Low Battery Warning

For use with Dukane Miniature High-Impact Transponder Model N15F210B/ST for singular or multiple seeding. When activated, the Model CT485 signals the listening Transponder at 48.5 kHz through a continuously variable acoustic output of 140 to 180 dB to activate all or only nearby transponders. The transducer is supplied with 25 feet of cable.



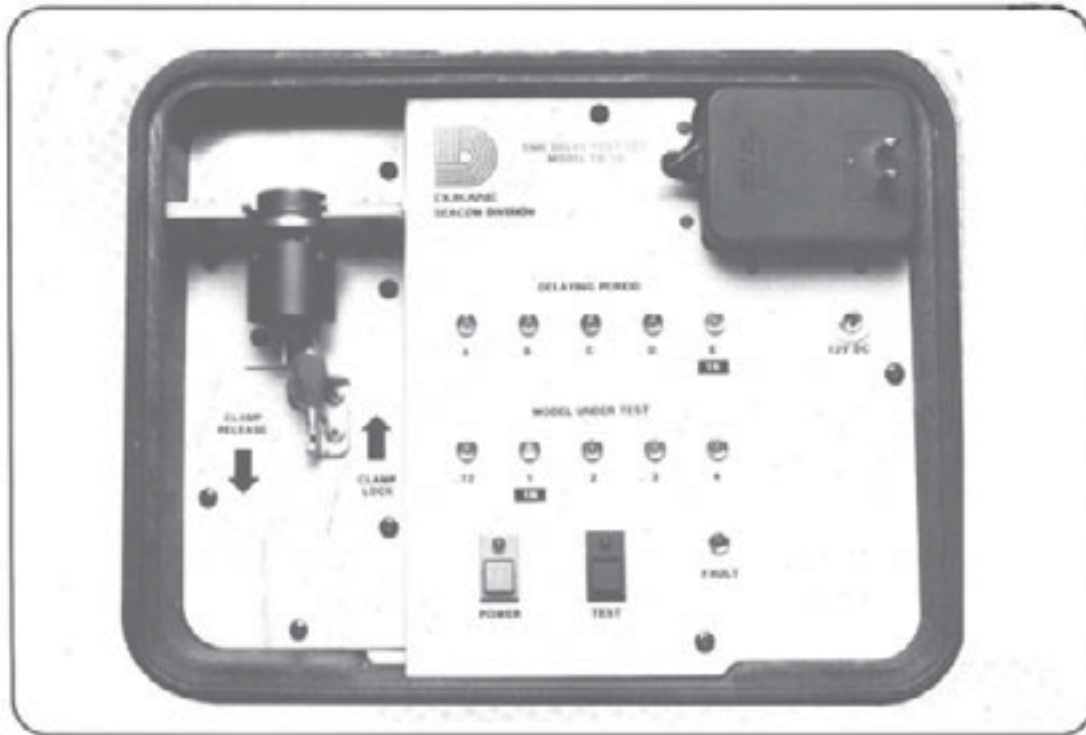
Transponders

MODELS N15T234, T103 & N15F210B/ST

- Receive Modes to 6 Months
- Replies to 500,000
- Depths to 20,000 Feet
- Self-Contained Power Source

The hard-anodized N15T234 is field programmable, operational to 20,000 feet, has a 6 months receive-mode and 10,000 replies. The aluminum T103 features 5 field selectable frequencies, 21 day receive-mode, 10,000 replies and is operational to 10,000 feet. The stainless steel N15F210B/ST has 100 receive-mode days, 500,000 replies, is operational to depths of 10,000 feet and is a direct physical replacement for the N15F210B/S Beacon.

DUKANE TS15 TIME DELAY CAP TESTER



Specifications

Size:	13½" L x 12⅞" W x 6" D
Weight:	8 lbs, 10 oz.
Power:	Direct plug-in transformer provides 12 VDC @ 1.2A from standard 120 VAC 60 Hz outlet.
Case Material:	ABS Resin
Case Seal:	O-ring gasketed
Pressure Purge:	Valve allows for pressure equalization

Test Functions

- Measure operating current of single and multiple sequence time delay cap during delaying function.
- Measure internal oscillator of time delay cap.
- Count clock cycles necessary to cause time delay cap to actuate pinger.
- Measure ability of time delay cap to conduct sufficient supply of current to operate pinger after time-out.
- Measure ability of time delay cap to conduct current necessary to operate pinger between pulses.

Time Delay Caps For Underwater Beacons

General Description

The TD Series Time Delay Caps have been designed and engineered to suit the convenience of a search team. The time delay cap permits the recovery of selected hardware and beacons at a desired time.

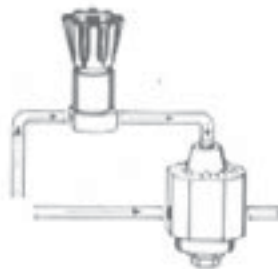
Uses of marker/locator pingers through pre-selected control of signal initiation present the advantage of: Secrecy to marked locations, seeding large numbers of beacons in the same area and scheduling retrieval without all units emitting signals simultaneously, marking of sub-sea locations, wrecks, salvage operations without the expense of battery depletion when search teams are not available or unable to work due to the environment.

These time delay caps are interchangeable with the standard battery access caps on the N15F210B Series of Beacons. Time delay caps are available with preset single delay periods, such as 16 days (TDB/1N) and in multiple delays ranging from 3 hours to 64 days. Multiple delays are field settable to five different delays each, and in addition, have a no delay feature. See Time Delay Cap literature for complete details.

TESCOM REGULATOR 26-1000

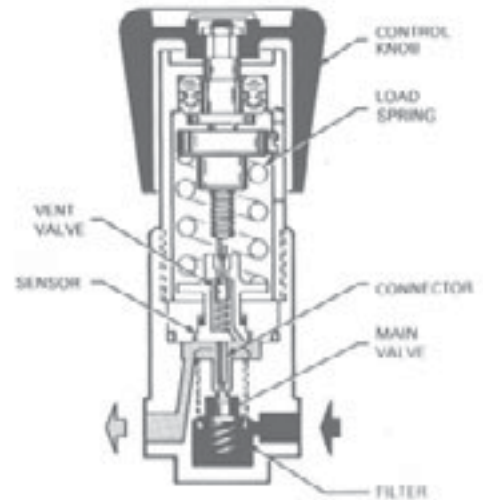


**HAND LOADED
26-1000 SERIES**



LOADING DOME

**PRESSURE REDUCING
REGULATOR**



FUNCTIONAL SCHEMATIC

SEVEN REGULATORS IN ONE COMPACT UNIT

The 26-1000 series regulator has self-venting capabilities and converts to seven different outlet pressure ranges. Sensors and springs for these pressure ranges can be changed with standard tools from the panel side while the regulator is under full inlet pressure.

The springs and sensors necessary for conversion are all available in Tescom's multiple range kit 38-100X-XXX-XX.

- Numerous porting options
- 10,000 PSIG (700 bar) standard inlet pressure (stainless steel)
- Main valve cartridge easily maintained
- Available in brass, aluminum or stainless steel construction
- Available with captured venting
- Unbalanced stem provides positive shut-off
- Safety and reliability of spring loaded piston sensor
- Large handknob provides fast low-torque pressure settings
- Can be motorized or air actuated for remote controlled applications
- Special model available for 15,000 PSIG (1000 bar) inlet and outlet capability
- Panel mounting standard (bracket included)

TYPICAL APPLICATIONS

- High Pressure Testing
- Research Laboratories
- Purging and Charging
- Handloader for Dome Regulator
- Manufacturing Processes
- Calibration Kits
- Chemical/Petroleum Plants



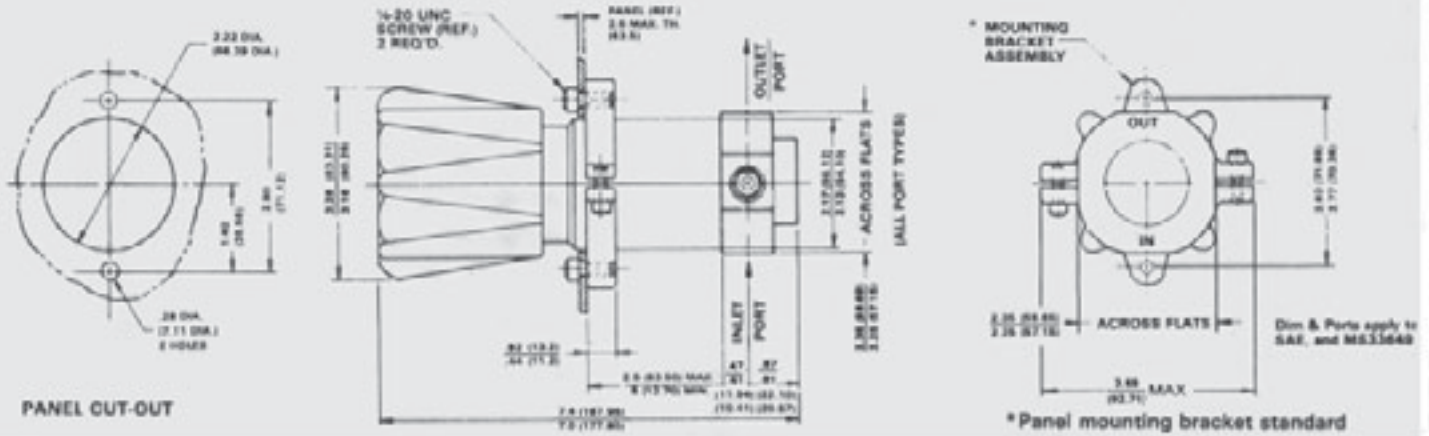
Contact Aqua Tech for Manufacturers Literature & assistance in ordering. Aqua Tech can assist you with your Oxygen Cleaning Requirements.

TESCOM REGULATOR 26-1000

INSTALLATION DIMENSIONS

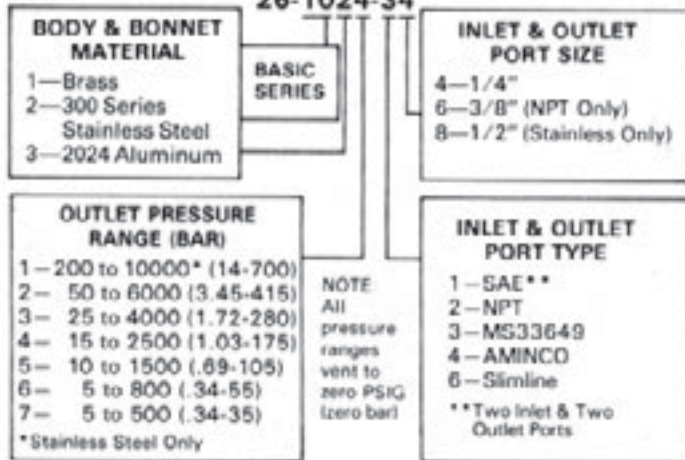
METRIC EQUIVALENTS IN PARENTHESES (MILLIMETERS)

26-1000 SERIES



ORDERING INFORMATION

26-1024-34



STANDARD MODIFICATIONS

Add suffix "002" to part number to specify captured venting feature.
 Add suffix "005" to part number to specify standard unit with Viton-A Soft Goods.
 Add suffix "007" to part number to specify captured venting regulator with Viton-A Soft Goods.

*Kel-F[®] is a registered trademark of 3M
 Teflon[®], Viton-A[®] and Vespe[®] are registered trademarks of DuPont*

Contact Aqua Tech for kits on Modifications.

Add suffix "008" to part number to specify 1/4" NPT inlet and outlet gauge ports at 60° angle.

*Add suffix "039" to part number to specify 15,000 PSIG (1000 bar) inlet and outlet pressure capabilities in stainless steel. For varied outlet capabilities consult factory.

Add suffix "045" to part number to specify standard non-venting.

Add suffix "098" to specify wrench adjustment with locking device for applications subject to vibration or accidental changes in pressure setting.

Add suffix "224" to part number to specify captured venting with filter removed for hydraulic services.

Add suffix "245" to part number to specify non-venting regulator with filter removed for hydraulic service.

Add suffix "153" to specify 1/2" inlet & outlet ports.

SPECIFICATIONS

FLUID MEDIA — All gases and liquids compatible with materials of construction.

Maximum rated inlet pressure (Stainless) 10,000 PSIG (700 bar)^a
 Maximum rated inlet pressure (Aluminum & Brass) 8,000 PSIG (415 bar)
 Outlet pressure ranges 5-500, 5-800, 10-1500, 15-2500
 25-4000, 50-6000, 200-10000 PSIG
 (.34-35, .34-55, .69-105, 1.03-175, 1.72-280, 3.45-415, 14-700 bar)

Proof pressure 150% maximum operating
 Burst pressure 400% maximum operating
 Materials Body — Stainless, Aluminum or Brass
 Bonnet — Stainless, Aluminum or Brass
 20 Micron Filter — 300 Series Stainless or Bronze
 Main Valve Seat — Vespe[®]/Vent Valve Seat — Kel-F[®]
 Seals — Buna-N
 Back-up Rings — Buna-N and Teflon[®]
 Trim — 300 Series Stainless

Flow Capacity Cv = .06
 Ambient operating and fluid media temperature — 65°F to +165°F
 (-55°C to +74°C)

Leakage Bubble tight
 Weight (w/o gauges) Stainless 5 1/2 lbs. (2.49 kg)
 Weight (w/o gauges) Brass 5 lbs. (2.60 kg)
 Weight (w/o gauges) Aluminum 3 1/2 lbs. (1.47 kg)
 Ports See Ordering Information
 Maximum operating torque 40 lb.-in. (46 kg-cm)

OXYGEN SERVICE

Specification of materials in regulators used for oxygen service is the **USER'S RESPONSIBILITY**. Cleaning for oxygen service to 3000 PSIG can be supplied by Tescom at no additional cost. Cleaning for service above 3000 PSIG may be performed to the user's specifications through an outside source.

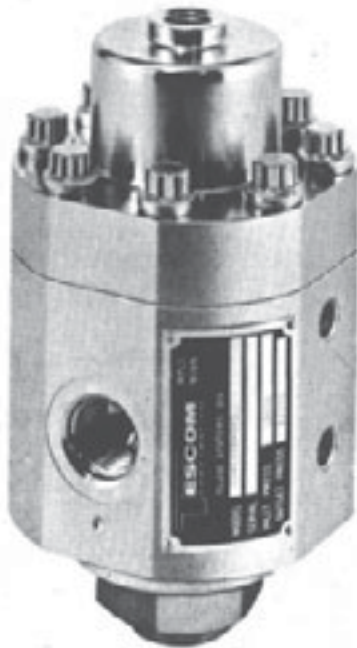
ACCESSORIES (Optional at Extra Cost)

CYLINDER CONNECTIONS — Order by CGA connection number. The most popular are CGA 350 (Hydrogen), CGA 540 (Oxygen), CGA 580 (Nitrogen) and CGA 590 (Air).

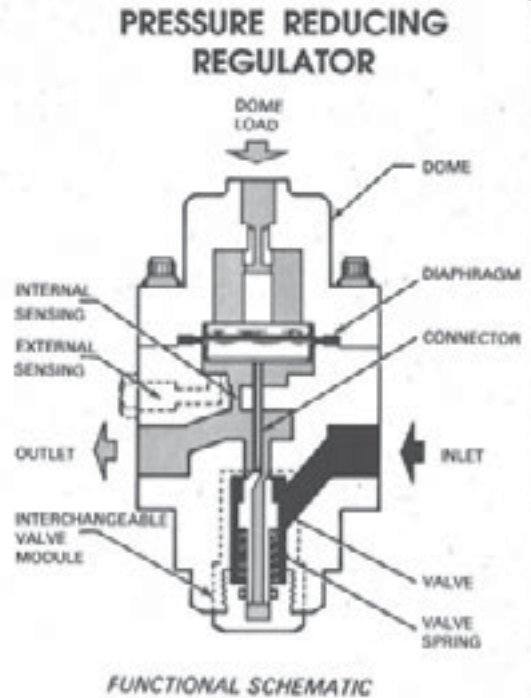
Soft goods kits (standard models):

For model: 26-1021	P/N 389-1016
26-10X2 & 26-10X3	P/N 389-1005
26-10X4	P/N 389-1017
26-10X5, 26-10X6, 26-10X7	P/N 389-1002
Standard repair kit (Standard Models)	P/N 38-1000-26
Multiple range kit (See brochure)	P/N 38-100X-XXX-XX
Main valve service tool	P/N 6557-3

TESCOM REGULATOR 26-1100



**DOME LOADED
26-1100 SERIES**



HIGH FLOW • SMALL-COMPACT • HIGH PRESSURE CAPABILITY

The 26-1100 series is a direct acting, diaphragm sensing, externally gas loaded, dome, pressure reducing regulator. Designed for accurate control of primary pressures while providing high flow rates. This model features the balanced main valve principle which permits:

- Uniform outlet pressures with variable inlet pressures.
- Smaller sensing area which results in a smaller envelope design.
- Reduced seat load which insures longer seat life.
- Wide flow range capability.

The 26-1100 series is available in brass, aluminum, stainless steel and will accurately regulate inlet pressures up to 6000 PSIG (415 bar) and 10,000 PSIG (700 bar) in stainless.

- Balanced stem
- Diaphragm sensitivity
- External sensing available
- Low droop; low lock-up
- Rapid response time
- Used with liquids or gases
- Numerous porting options
- Mountable in any position
- Modular construction
- Two orifice sizes available: 1/4" and 3/8" diameter

TYPICAL APPLICATIONS

- Master or Station Regulator
- Component Testing
- High Flow Purge Systems
- Research Laboratories
- Manifold Regulator
- Industrial Applications
- Pneumatic or Hydraulic Test Consoles

PRESSURE INFORMATION

26-1100 Series Dome Loaded Regulators will, when coupled with the 26-1600 Series Hand Loaded Regulator, reduce pressures of up to 6000 PSI down to the capabilities of the Host 26-1600 Series Regulator*. For higher outlet pressures, use the 26-1000 Hand Loaded Regulator**. Contact Aqua Tech for Manufacturers Literature or assistance in ordering.

*See the 26-1600 Series Regulator for Pressure Ranges up to an outlet pressure of 500 PSI max.

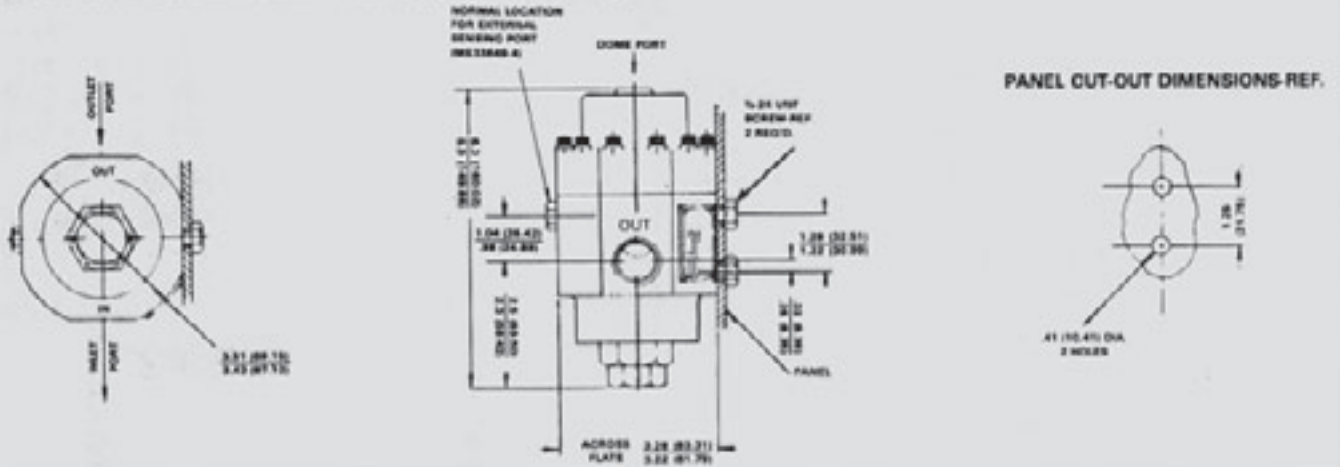
**See the 26-1000 Series Regulator for Pressure Ranges up to an outlet pressure of 6000 PSI for the Brass Series & 10,000 PSI for Stainless.

TESCOM REGULATOR 26-1100

INSTALLATION DIMENSIONS

26-1100 SERIES

METRIC EQUIVALENTS IN PARENTHESES (MILLIMETERS)



ORDERING INFORMATION

26 - 11 2 1 - 3 8 1

BASIC SERIES NUMBER

BODY AND DOME MATERIAL

- 1—Brass
- 2—303 SST
- 3—Aluminum

LOADING METHOD

- 1—External

ORIFICE SIZE**

- 1—250 Dia. Orifice
- 2—375 Dia. Orifice

PORT SIZE

- 6-3/8"
- 8-1/2"

INLET AND OUTLET PORT TYPE		DOMES PORT TYPE
1—SAE	3—MS33649-4	
2—NPT	2—NPT 1/4"	
3—MS33649	3—MS33649-4	

**Note: .375 Orifice size has maximum rated inlet of 6,000 PSIG (415 bar)

STANDARD MODIFICATIONS

- Add suffix "001" to part number to specify external sensing capability.
- Add suffix "044" to part number to specify standard model but with all 316 Stainless Steel construction.
- Add suffix "061" to part number to specify standard model but with 9/16" AMINCO inlet and outlet ports.
- Add suffix "074" to part number to specify brass construction, with internal load and bleed valves and Viton-A soft goods.

ACCESSORIES (Optional at Extra Cost)

Soft goods kits (standard models):	
.250 Dia. Orifice Size	P/N 389-1163
.375 Dia. Orifice Size	P/N 389-1164
Standard repair kits (soft and metallic):	
.250 Dia. Orifice Size	P/N 38-1111-26
.375 Dia. Orifice Size	P/N 38-1121-26
Kit for field conversion to external sensing	P/N 389-1022

SPECIFICATIONS

FLUID MEDIA — All gases and liquids compatible with materials of construction.

Maximum rated inlet pressure (Stainless Steel) 10,000 PSIG ** (700 bar)

Maximum rated inlet pressure (Aluminum, Brass) 6,000 PSIG (415 bar)

Outlet pressure range 55 PSIG (3.79 bar) to maximum inlet

Proof pressure 150% maximum operating

Design burst pressure 400% maximum operating

Materials Body — Stainless, Aluminum or Brass
Dome — Stainless, Aluminum or Brass
Diaphragm — Buna-N
Seat — Kel-F
Seals — Buna-N
Gaskets — Kel-F
Trim — 300 Series Stainless

Flow Capacity (.25 Orifice) Cv = .46

Flow Capacity (.375 Orifice) Cv = 1.30

Ambient operating and fluid media temperature -65° to +165°F (-54° to +75°C)

Leakage Bubble tight

Weight — Stainless 10 lbs. (4.5 kg.)
— Aluminum 4 lbs. (1.8 kg.)

Ports See Ordering Information

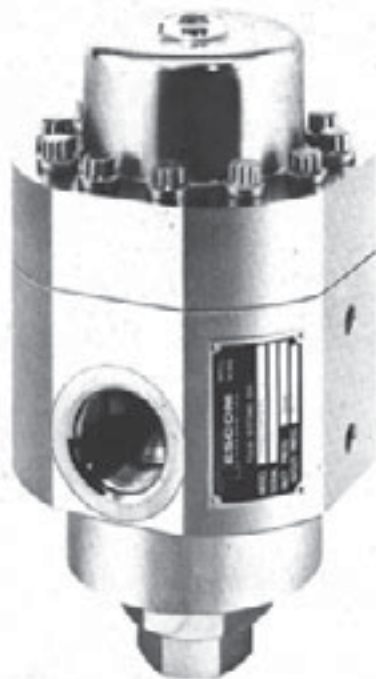
OXYGEN SERVICE:

Specification of materials in regulators used for oxygen service is the **USER'S RESPONSIBILITY**. Cleaning for oxygen service to 3000 PSIG can be supplied by Tescom at no additional cost. Cleaning for service above 3000 PSIG may be performed to the user's specifications through an outside source.

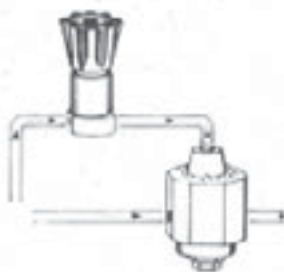
Consult Aqua Tech for Kits on Modifications.

NOTE: ALL UNITS IN PARENTHESES ARE IN METRIC AND OPEN TYPE FIGURES ARE ENGLISH UNITS

TESCOM REGULATOR 26-1200

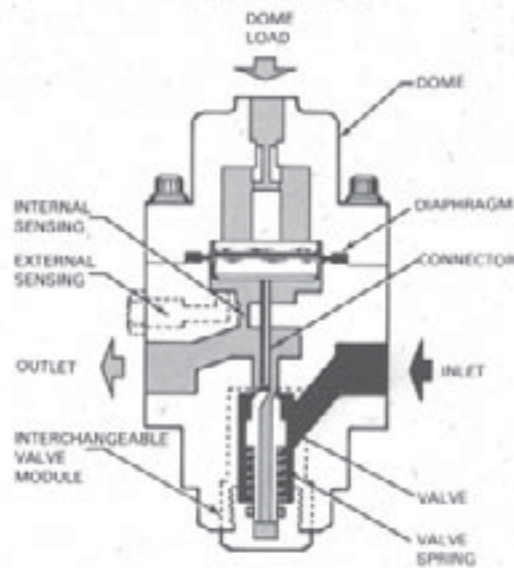


**DOME LOADED
26-1200 SERIES**



LOADING DOME

PRESSURE REDUCING REGULATOR



FUNCTIONAL SCHEMATIC

HIGH FLOW • BALANCED MAIN VALVE • MODULAR CONSTRUCTION

The 26-1200 series is a self-contained, direct acting, diaphragm sensing, externally gas loaded dome pressure reducing regulator. Designed to provide high downstream flows while maintaining accurate control of primary pressures. This model features the balanced main valve principle which permits:

- Uniform outlet pressures with variable inlet pressures.
- Reduced seat load which insures longer seat life.
- Smaller sensing area which results in a smaller envelope design.
- Wider flow range capability.

The 26-1200 series is available in stainless steel construction and will accurately regulate inlet pressures up to 6000 PSIG (415 bar).

- Balanced stem
- External sensing available
- Diaphragm sensitivity
- Positive shut-off
- Low droop; low lock-up
- Rapid response time
- Used with liquids or gases
- Mountable in any position
- Minimum piece parts
- Modular construction

TYPICAL APPLICATIONS

- Master or Station Regulator
- Component Testing
- High Flow Purge Systems
- Pneumatic or Hydraulic Test Consoles
- Research Laboratories
- Manifold Regulator
- Industrial Applications

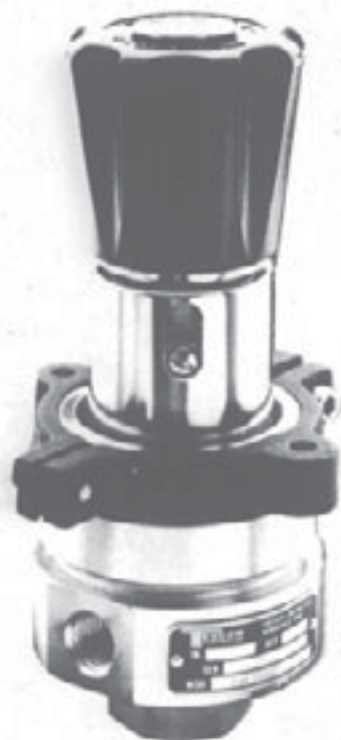
PRESSURE INFORMATION

26-1200 Series Dome Loaded Regulators will, when coupled with the 26-1600 Series Hand Loaded Regulator, reduce Pressures of up to 6000 PSI down to the capabilities of the Host 26-1600 Series Regulator*. For higher outlet pressures, use the 26-1000 Hand Loaded Regulator**. Contact Aqua Tech for Manufacturers Literature or assistance in ordering.

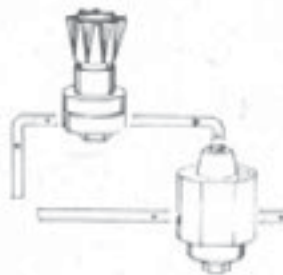
*See the 26-1600 Series Regulator for Pressure Ranges up to an outlet pressure of 500 PSI max.

**See the 26-1000 Series Regulator for Pressure Ranges up to an outlet pressure of 6000 PSI.

TESCOM REGULATOR 26-1600

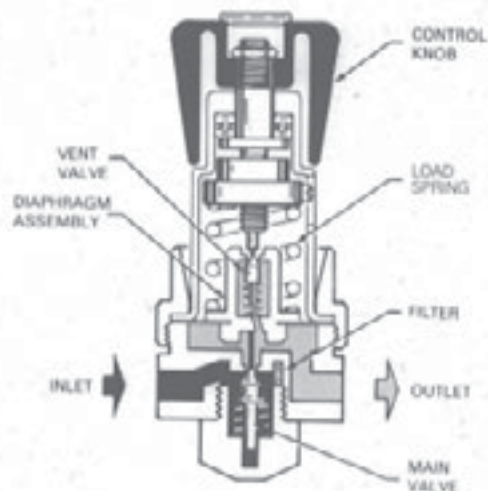


HAND LOADED 26-1600 SERIES



LOADING DOME

PRESSURE REDUCING REGULATOR



FUNCTIONAL SCHEMATIC

SELF-VENTING • DIAPHRAGM TYPE • EXCELLENT SENSITIVITY

This spring-loaded, diaphragm type regulator has self-venting capabilities which provide excellent control in dead-ended systems. This highly sensitive regulator features a non-rising stem and low operating torque, allowing this unit to be easily motorized for remote control applications. See section on motorized regulators.

The 26-1600 series regulator reduces primary pressures of up to 6,000 PSIG (415 bar) to four secondary pressure ranges of 2-50, 2-150, 3-250, 5-500 PSIG (.13-3.45, .13-10, .20-17 and .34-35 bar). All of these outlet ranges can easily be obtained from one regulator by simply interchanging one of four different load springs.

The stainless steel valve stem and Kel-F seat provide bubble-tight shut-off and smooth chatter-free operation under flowing conditions.

- Self-venting
- Available with captured venting
- Compact design
- Brass, stainless steel, or aluminum construction
- Numerous porting options
- Panel mounting (bracket included)
- Filter extends seat life
- Easy maintenance with standard tools

TYPICAL APPLICATIONS

- Component Testing
- Instrument Calibration
- Purge Systems
- Loader for Dome Regulator
- Dead Ended Systems
- Research Labs
- Pilot Plants

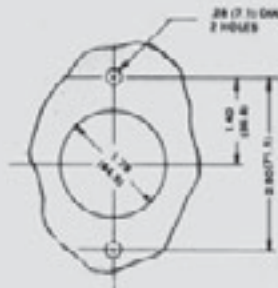


TESCOM REGULATOR 26-1600

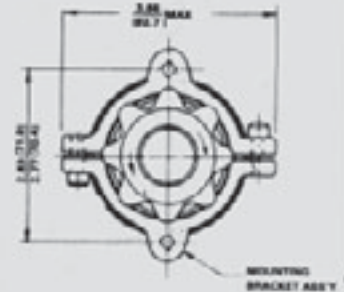
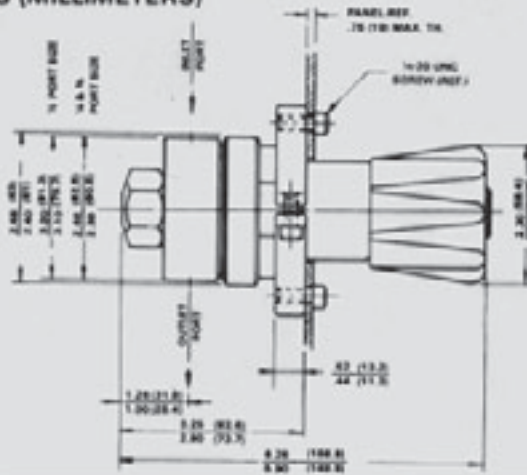
INSTALLATION DIMENSIONS

METRIC EQUIVALENTS IN PARENTHESES (MILLIMETERS)

26-1600 SERIES



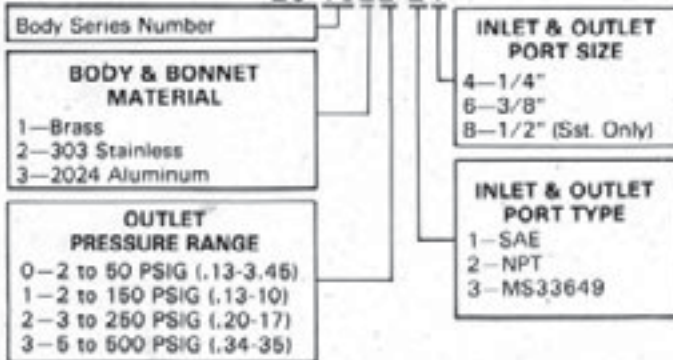
PANEL CUT-OUT



*Panel mounting bracket standard

ORDERING INFORMATION

26-1622-24



STANDARD MODIFICATIONS (See Price List).

- Add suffix "001" to part number to specify **captured venting** feature. (1/4" NPT vent connection).
- Add suffix "004" to part number if **balanced valve and Teflon® seat** are desired. This option increases C_v to .24, but reduces inlet capability to 3000 PSIG (210 bar).
- Add suffix "008" to specify 1/4" **inlet and outlet gauge ports**.
- Add suffix "009" to specify **two inlet and two outlet ports at 90°**.
- Add suffix "024" to specify **locknut option** capable of adjustment with wrench only.
- Add suffix "060" to specify **non-venting regulator**.
- Add suffix "253" and "for oxygen service" to specify all **Viton-A® and Kel-F® soft goods** for oxygen service.
- Add suffix "310" to specify **Bias Pressure Reg.** Max Ref. press-1000 PSI (70 bar).
- Add suffix "311" to specify **captured venting with no filter** for use with liquid service.

OXYGEN SERVICE

Specification of materials in regulators used for oxygen service is the **USER'S RESPONSIBILITY**. Cleaning for oxygen service to 3000 PSIG can be supplied by Tescom at no additional cost. Cleaning for service above 3000 PSIG may be performed to the user's specifications through an outside source.

Consult Aqua Tech for Kits on Modifications

SPECIFICATIONS

- FLUID MEDIA--All gases compatible with materials of construction.
- Maximum rated inlet pressure (Stainless) 6,000 PSIG (415 bar)
 - Maximum rated inlet pressure (Aluminum, Brass) 5,000 PSIG (345 bar)
 - Outlet pressure ranges 2-50, 2-150, 3-250, 5-500 PSIG (.13-3.45, .13-10, .20-17 and .34-35 bar)
 - Proof pressure 150% maximum operating
 - Design burst pressure 400% maximum operating
 - Materials Body-Stainless, aluminum or brass
 Bonnet-SST
 40 Micron Filter-316 Stainless
 Main Valve Seat-Kel-F81®
 Vent Valve Seat-Teflon®
 Seals-Buna-N
 Diaphragm-Buna-N
 Trim-300 Series Stainless
 - Flow capacity C_v = .08
 - Ambient operating and fluid media temperature -65° to +165°F (-56° to +74°C)
 - Leakage Bubbletight
 - Weight (w/o gauges) Stainless or Brass 3 1/4 lbs. (1.48 kg.)
 - Weight (w/o gauges) Aluminum 2 1/4 lbs. (1.25 kg.)
 - Ports See Ordering Information
 - Maximum operating torque 25 lb.-in (28.76 kg-cm)

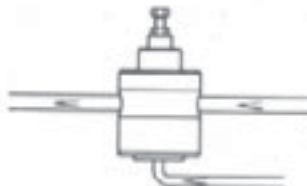
ACCESSORIES (Optional at Extra Cost)

- Soft goods kit (standard models) P/N 389-1001
 - Standard repair kit (soft and metallic) P/N 38-1600-26
- To adapt to motorized operation, specify the following part numbers (also see section on Motorized Regulators):
- Adapter P/N 3883-3
 - Set Screw (3 required) P/N 3647-3

TESCOM REGULATOR 26-2900

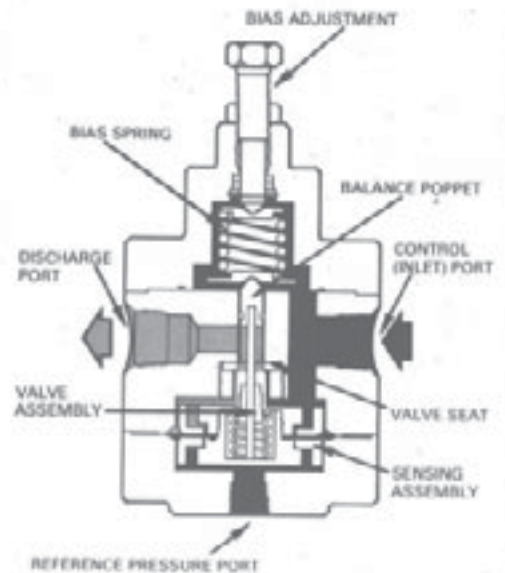


DOME LOADED 26-2900 SERIES



TYPICAL INSTALLATION

BACK PRESSURE REGULATOR NEGATIVE BIAS



FUNCTIONAL SCHEMATIC

HIGH FLOW • SENSITIVE • NO NEED TO READJUST

The Tescom 26-2900 is a dome-loaded, negative biased, back pressure differential pressure regulator. A balanced stem design eliminates the need to adjust bias over a wide range of operating pressures.

Used to maintain a constant difference to 30 PSI (2.06 bar) between the reference and control pressures, the 26-2900 controls upstream to 1000 PSI (70 bar).

- 2 bias spring ranges, 0-15 PSI (0-1.03 bar) or 0-30 PSI (0-2.06 bar)
- Also works with zero bias (as standard back pressure regulator)
- Low accumulation
- Mounts in any position
- Balanced poppet keeps pre-set bias constant over wide variation in inlet pressure
- Diaphragm sensitivity
- High flow: Cv = 2.0
- Brass or 303 Stainless body

TYPICAL APPLICATIONS

Vacuum regulation for critical, low-volume applications

Chemical reactor

Coal gasification

Constant bias applications such as offshore diving apparatus

Dumping exhaled breath out of pressure chamber (BIBS)

Emergency gas systems on diving bells

Hydrocarbon processing

FLOW INFORMATION

26-2900 Series regulators will provide flows sufficient to maintain six divers on therapy gas to within ten feet of the surface. Contact Aqua Tech for additional information.

TESCOM REGULATOR 44-1100

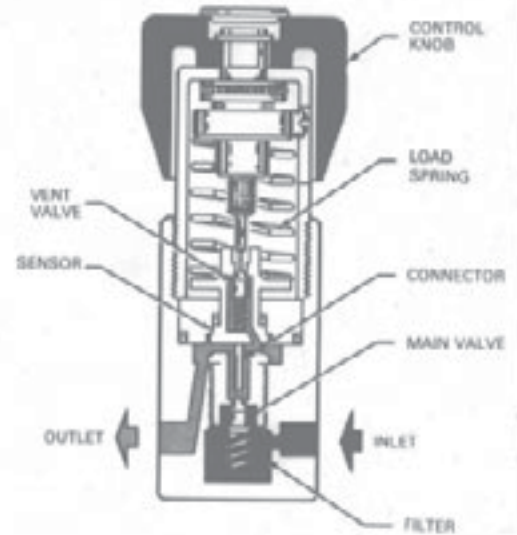


HAND LOADED 44-1100 SERIES



IN-LINE

PRESSURE REDUCING REGULATOR



FUNCTIONAL
SCHEMATIC

HIGH PRESSURE CAPABILITY • EXCELLENT SENSITIVITY • SELF-VENTING

The 44-1100 series high pressure regulators are designed to safely reduce inlet pressures of up to 10,000 PSIG (700 bar) and accurately provide six secondary outlet pressure ranges. The pressure ranges are obtainable with one regulator by installing one of a combination of three load springs and three sensors.* These are available in kit form and can be installed while the regulator is in the system. This self-venting regulator allows operator to reduce pressure setting in a closed system by venting the downstream pressure through the regulator. A non-venting version is also available.

- Removable valve assembly module permits ease of repair
- Available in brass or stainless steel construction
- Excellent sensitivity through a wide range of pressure settings
- Extra safety and reliability of spring loaded piston sensor
- Unbalanced stem assures positive shut-off
- Large handknob provides fast low-torque pressure settings
- Available with or without gauges and CGA connection

TYPICAL APPLICATIONS

- Calibration Kits
- Airline Charging Carts
- Chemical Plants
- Manufacturing Processes
- Research and Development Laboratories



Contact Aqua Tech for Manufacturers Literature & assistance in ordering. Aqua Tech can assist you with your Oxygen Cleaning Requirements.

TESCOM REGULATOR 44-1300



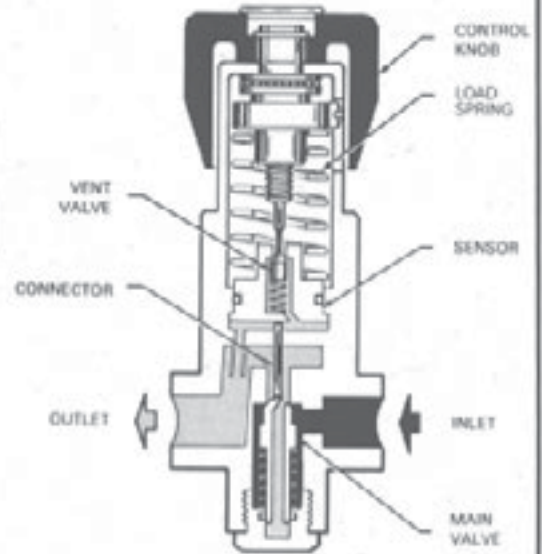
**HAND LOADED
44-1300 SERIES**

**"THE DIVERS
BEST FRIEND"™**



IN-LINE

PRESSURE REDUCING REGULATOR



FUNCTIONAL SCHEMATIC

LARGE FLOW • EXCELLENT SENSITIVITY • HIGH PRESSURE CAPABILITY

The 44-1300 series regulator is designed to safely reduce inlet pressures of up to 3750 PSIG (260 bar) and accurately deliver high gas flows throughout the 50-1500 PSIG (3.44-105 bar) outlet pressure range. Designed for control of high and low pressure gases, this self-venting unit can also be furnished as a non-venting regulator for hydraulic applications. A special baffle below the piston provides stable operation and eliminates regulator hunting by preventing sudden and direct inlet pressure upon the sensor. Balanced stem design and soft seated main valve provides bubble tight service.

- Extremely reliable
- Large piston sensor gives excellent sensitivity
- Self-venting
- Balanced stem design assures constant downstream pressure
- Soft seated main valve
- Large handknob provides fast low-torque pressure settings
- Available with optional gauge ports
- Optional Configuration for Salt Water Atmosphere

TYPICAL APPLICATIONS

- Hyperbaric Chambers
- Air Compressors
- Pressurize Ballast Tanks
- High Pressure Testing
- Purging and Charging
- Life Support Applications
- Manifold Systems



Contact Aqua Tech for Manufacturers Literature & assistance in ordering. Aqua Tech can assist you with your Oxygen Cleaning Requirements.

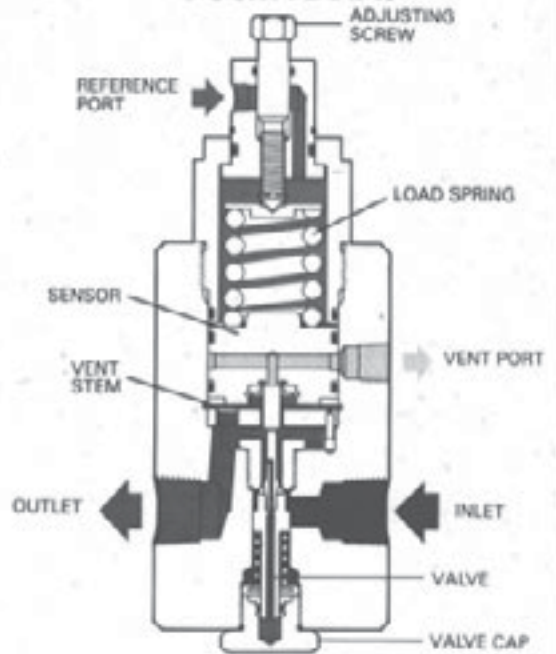
TESCOM REGULATOR 44-4000



DOME LOADED 44-4000 SERIES



PRESSURE REDUCING REGULATOR POSITIVE BIAS



FUNCTIONAL SCHEMATIC

Contact Aqua Tech for Manufacturers Literature & assistance in ordering. Aqua Tech can assist you with your Oxygen Cleaning Requirements.

TYPICAL APPLICATIONS

Bell referenced, mounted either internal or external

The diagram illustrates first stage reduction of breathing gases, external to the bell, for tethered divers.



Bell referenced, mounted either internal or external

Aqua Tech



The 44-4000 Series Regulator is a piston sensed, dome loaded, positive biased, differential pressure regulator. The positive bias provides a constant outlet pressure from 0-200 PSIG (14 bar) greater than the reference pressure. Due to the self-venting feature, the outlet pressure can be vented through the regulator allowing downstream regulation even with a decreasing reference pressure. The 44-4000 provides a positive, bubble tight shutoff at the main valve and vent valve.

A segregated vent allows the outlet pressure to be vented separately and eliminates mixing media with the reference pressure zone.

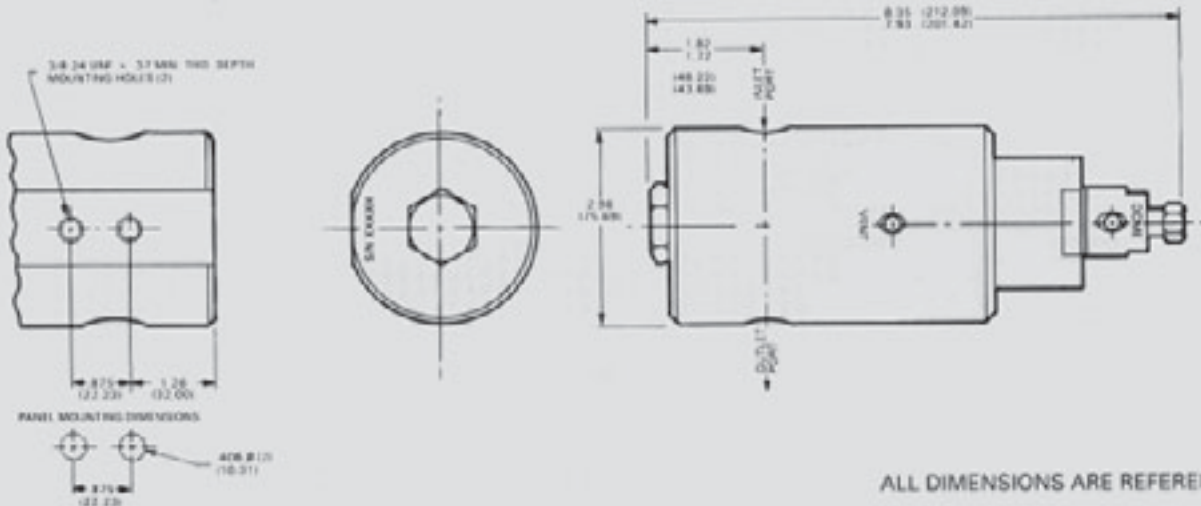
- Compact in size
- High flow: $C_v = .7$
- Piston sensed
- Bias (over bottom) pressure
- Segregated vent
- High pressure reduction external to bell
- Self venting

TESCOM REGULATOR 44-4000

INSTALLATION DIMENSIONS

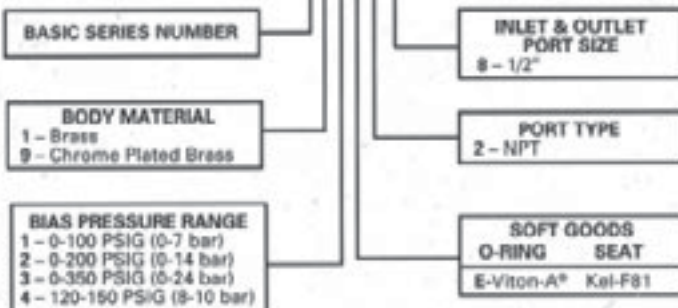
44-4000 SERIES

METRIC EQUIVALENT IN PARENTHESES (MILLIMETERS)



ORDERING INFORMATION

EXAMPLE: 44-4012E28



STANDARD MODIFICATIONS

Add suffix "002" to part number to specify 3/8" orifice, $C_v=2.0$.

ACCESSORIES (Optional at Extra Cost)

Soft goods kit (standard models) P/N 389-2623



See referenced, mounted either internal or external



SPECIFICATIONS

FLUID MEDIA — All gases and liquids compatible with materials of construction.

Maximum rated inlet pressure 5,000 PSIG (345 bar)
 Outlet pressure 1500 PSIG (105 bar)
 Proof pressure 150% maximum operating pressure
 Burst pressure 400% maximum operating pressure
 Materials Body — Brass or chrome plated brass

Back-up ring — Teflon®
 O-ring — Viton-A®
 Seat — Kel-F81®
 Gasket — Kel-F81®

Remaining parts — Brass, 303 Series Stainless Steel & 17-4 PH SST

Flow Capacity Main Valve $C_v=7$
 Vent Valve $C_v=.35$

Ambient operating and fluid media temperature 0° to +165°F (-17° to +75°C)

Leakage Bubble tight
 Weight 8 lbs. (3.62 kg.)
 Ports 1/2" NPT
 1/8-27 NPT reference port

OXYGEN SERVICE:

Specification of materials in regulators used for oxygen service is the **USER'S RESPONSIBILITY**. Cleaning for oxygen service to 3000 PSIG can be supplied by Tescom at no additional cost. Cleaning for service above 3000 PSIG may be performed to the user's specifications through an outside source.

Contact Aqua Tech for Manufacturers Literature & assistance in ordering. Aqua Tech can assist you with your Oxygen Cleaning Requirements.

DWYER DIFFERENTIAL GAUGES



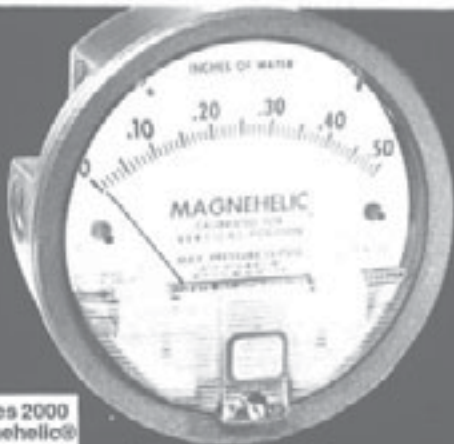
The low pressure people

**DIFFERENTIAL
PRESSURE GAGES**

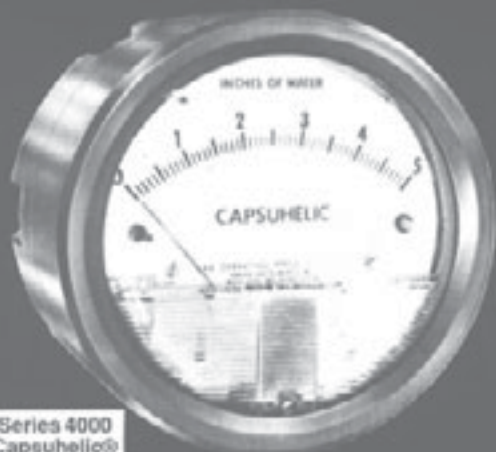
Magnehelic®
Capsuhelic®
Minihelic®

**PRESSURE
SWITCH/GAGES**

Photohelic®
Capsu-Photohelic®



Series 2000
Magnehelic®



Series 4000
Capsuhelic®

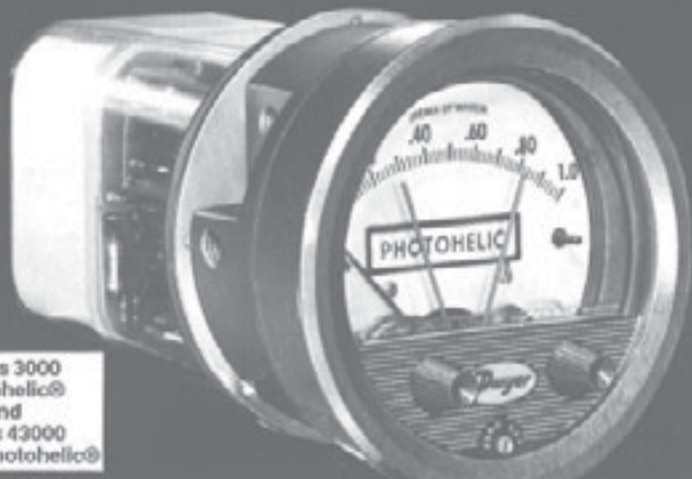


Series 2-5000
Minihelic®

TECHNICAL INFORMATION ■ APPLICATIONS ■
THESE DIAPHRAGM-ACTUATED PRECISION GAGES
ARE USED TO INDICATE LOW DIFFERENTIAL PRES-
SURES OF COMPATIBLE FLUIDS – AIR, GASES OR
LIQUIDS ■ TOTAL PRESSURE RATINGS TO 500 PSIG
RANGES: 0.25" WATER COLUMN TO 0-6000 PSIG.

Contact Aqua Tech for more complete
information or manufacturers literature.

Series 3000
Photohelic®
and
Series 43000
Capsu-Photohelic®



HYGROMETERS

Thermometer in Fahrenheit & Celsius



Model TAB-77

Certified Hygrometer & Temperature Indicator

Model TAB-77 Dial features temperatures in both Fahrenheit and Celsius. This instrument purchased from Aqua Tech is encased in a solid gleaming brass casing of almost infinite durability. The dial is printed in several colors with large numerals for easy reading. The mechanism is actuated by a bi-metal strip and is guaranteed accurate to 1% of the range. **Temperature range is minus 20° to 120° F and 0° to 50° C.**

Specifications

Case: Solid brass.
Dial Face: 5 in. (12.7 cm).
Diameter: 6 in. (15.2cm)(overall)
Weight: 1.2 lbs. (0.5 kg). Shipping Weight 4 lbs. (1.8 kg).

Plastic Lens Available at No Extra Charge



Model HTAB-176

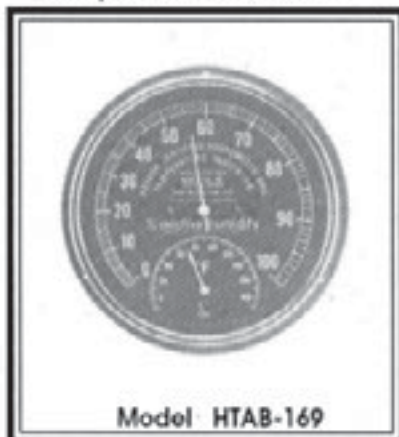
Certified Hygrometer & Temperature Indicator

Model HTAB-176 Certified Hygrometer and Temperature Indicator shows relative humidity and temperature in both Fahrenheit and Centigrade. The model HTAB-176 from AQUA TECH is certified to be accurate to within ±3%.

Specifications

Temp. Range: minus 0 to 100°C and 0-210° F.
Relative Humidity Range: 0 to 100%.
Case: Solid Brass, gleaming finish, drilled for wall mounting.
Dial Size: 6 in. overall dia. (15.2 cm).
Dial Face: 5 in. (12.7 cm). Black numbers and lettering with red tipped pointer.
Shipping Weight: 3 lbs. (1.4 kg).

Plastic Lens Available at No Extra Charge



Model HTAB-169

Certified Hygrometer & Temperature Indicator

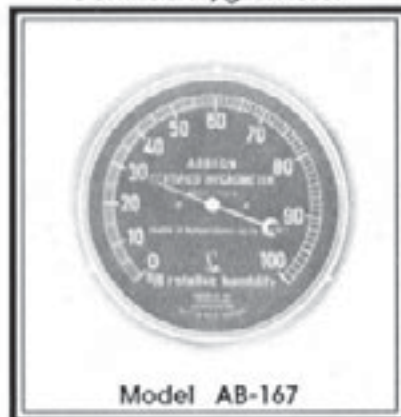
Model HTAB-169 from AQUA TECH has both a relative humidity and temperature indicator. The Model 9-AB-167 is a hydrometer only. Both are certified to be accurate within ±3%. The dial indicates the complete range of 0 to 100% humidity, and minus 0 to 190° F.

Specifications

Models HTAB-169 & AB-167
Case: Solid Brass, gleaming finish, drilled for wall mounting
Dial face: 5 in. (12.7 cm).
Diameter: 6 in. (15.2 cm)(overall)

Plastic Lens Available at No Extra Charge

Certified Hygrometer



Model AB-167

Principle of Operation

An internal duraltherm (man made fiber) element expands as humidity increases and contracts as humidity decreases. Expansion and contraction is precisely linked to the pointer. No batteries or external power supplies are needed. The unit is completely self-contained.

The calibration screw is accessible through slot in the side of the case for periodic calibration to a known humidity standard.

McDANIEL STAINLESS STEEL GAUGES

Stainless Steel Case Gauges

Model J 2 1/2" Fillable 1/4" NPT



Features

- 304 Stainless Steel case and bayonet ring
- Full blow-out relief
- Watertight case
- Laminated safety glass lens
- Pulsation dampened
- Brass/bronze wetted parts
- Brass/German silver movement
- Accuracy: 1% full scale

Range: Vacuum, Rec., Compound 0-6,000 psi

Mounting Styles: Bottom or lower-back connection. Other configurations available: R and U.

Model R 1 1/2" 1/8" NPT
(1/4" NPT available on request)



Features

- Weather tight case
- Condensation proof
- Quality construction
- Suitable for oxygen service
- Perspex lens
- Accuracy: 1 1/2% full scale

Range: Compound, Rec., Vac., 0-5,000 psi

Mounting Styles: Bottom or center back connection. Panel-mounting with front flange.

Call Aqua Tech for all Gauges and Gas Handling equipment.

All Brass Gauges

Model T 2" Fillable 1/4" NPT

(1/8" NPT available on request)



Model U 2 1/2" Fillable 1/4" NPT

(1/8" NPT available on request)



Features

- Heavy duty construction
- Safety blow-out disc with case vent
- Screwed front ring
- Laminated safety lens
- Watertight case
- Suitable for oxygen service
- Accuracy: 1% full scale

RANGE: Vacuum, Rec., Compound 0-6,000 psi; Model U-10,000 psi

MOUNTING STYLES: Bottom connection, center-back connection and panel mount U-clamp.

4" Non-Fillable

Model L 1/4" NPT
Model M 1/2" NPT



Filed or Fillable

Model N 1/4" NPT
Model P 1/2" NPT



6" Non-Fillable

Model Y 1/4" NPT
Model Z 1/2" NPT



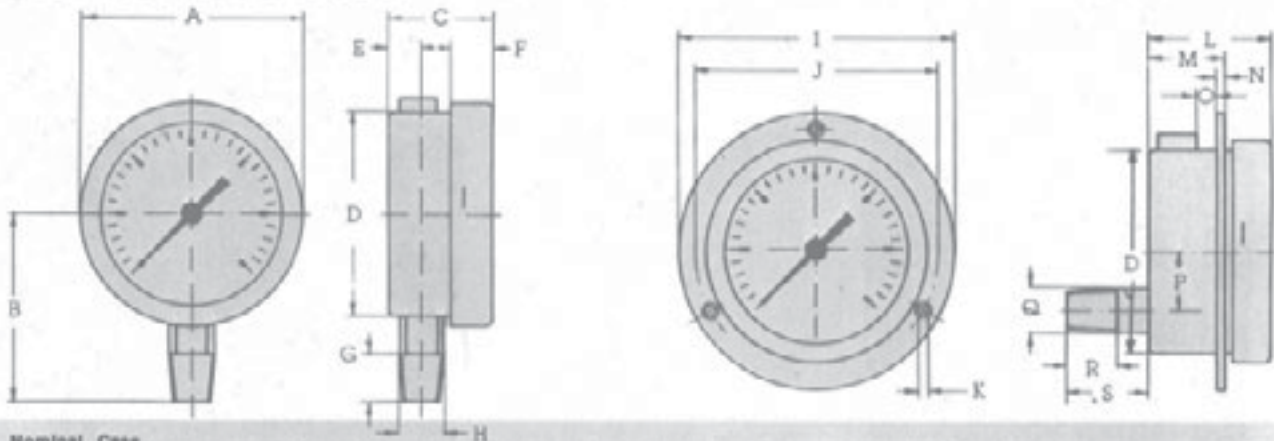
Case Styles

Range: Vacuum, Rec., Compound, 0-35,000 psi
10" wc-35,000 psi

Mounting Styles: Bottom or lower back

McDANIEL GAUGE DATA

Dimensional Data



Nominal Model Size	Case Diameter	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	
S	1 1/2"	MM 38.5 In. 1.52	40 1.58	34 1.34	27.5 1.08	36.5 1.52	N/A	11 .43	5.5 .218	14 .56	61 ⁴ 2.40	51 2.0	3.5 .14	32 1.26	30 1.18	1 .04	N/A	CB ² .39	10 .43	11 .47	
Q	2"	MM 51 In. 2.0	52 2.05	50 1.97	27 1.06	51 2.0	8 .314	9 .354	14 .55	14 .55	77 ¹ 3.03	65 2.56	4.0 .16	28 1.10	18 ⁵ .71	3 ⁷ .12	2 ⁸ .08	CB ² .55	14 .59	15 .91	
K	2 1/2"	MM 63 In. 2.48	68.5 2.70	57 2.24	31 1.22	62 2.44	9 .35	12 .47	15 .59	14 .55	85 ³ 3.3	75 2.9	3.8 .15	38 1.5	24 .94	3 .12	6 .24	18 .71	14 .55	15 .59	
A, C, E, G	4"	MM 100 In. 3.94	112 4.41	88 3.46	49 1.93	100 3.94	16 .63	17 .67	22 .87	22 .87	132 5.2	116 4.57	4.8 .19	48 1.88	29 1.14	4 .16	8 .32	34 1.34	21.3 .84	15 .58	36 1.42
E, D, F, H	6"	MM* 160 In. 6.3	173 6.81	117 4.61	50 1.97	160 6.3	16 .63	18 .71	15 .59	22 .87	196 7.72	178 7.01	5.8 .23	55 2.17	35 1.38	3 .12	14 .55	52 2.05	21.3 .84	15 .59	36 1.42
B, D, F, H	6"	MM** 160 In. 6.3	173 6.81	117 4.61	60 2.36	160 6.3	16 .63	18 .71	15 .59	22 .87	196 7.72	178 7.01	5.8 .23	60 2.36	40 1.57	3 .12	18 .75	52 2.05	21.3 .84	15 .59	36 1.42
SF†	2 1/2"	MM 62 In. 2.44	84 2.82	57 2.24	41 1.61	62 2.44	12 .47	14 .55	15 .59	14 .55	85 3.35	75 2.95	3.8 .15	41 1.61	40 1.57	2 .08	13 .51	BM ⁹ N/A	N/A	N/A	
SF†	4"	MM 100 In. 3.94	100 3.94	87 3.43	60 2.36	100 3.94	27 1.06	N/A	21.5 .85	22 .87	132 5.2	116 4.57	4.8 .19	60 2.36	57 2.24	2 .08	N/A	BM ⁹ N/A	N/A	N/A	
SF†	6"	MM 160 In. 6.3	160 6.3	118 4.65	78 2.99	160 6.3	40 1.57	N/A	21.5 .85	22 .87	196 7.72	178 7.0	5.8 .23	78 2.99	73 2.87	2 .08	N/A	BM ⁹ N/A	N/A	N/A	

* 10,000 psi and below

** 15,000 psi and above

† Solid Front - Blow-out Back

1 1/2" Clamp model reduced to 2.2"

2 1/2" Model S and Q are Center-Back Connected

3 1/2" Clamp model reduced to 2.70"

4 1/2" Clamp model reduced to 1.81"

5 1/2" Clamp model 26mm

6 1/2" Clamp model 7mm

7 1/2" Clamp model 8mm

8 Panel mount, front flange

bottom connected only

9 Panel mount, lower back

For Factory Repair or Re-Calibration return gauges to Aqua Tech

Repair Feature

If any McDaniel gauge requires repair, downtime can be minimal because all gauges are field-repairable — quickly and easily — with only a screwdriver needed for disassembly.

If circumstances permit and factory repair is preferred, we will make the repair at a nominal service charge. See "WARRANTY & REPAIR" for further details.

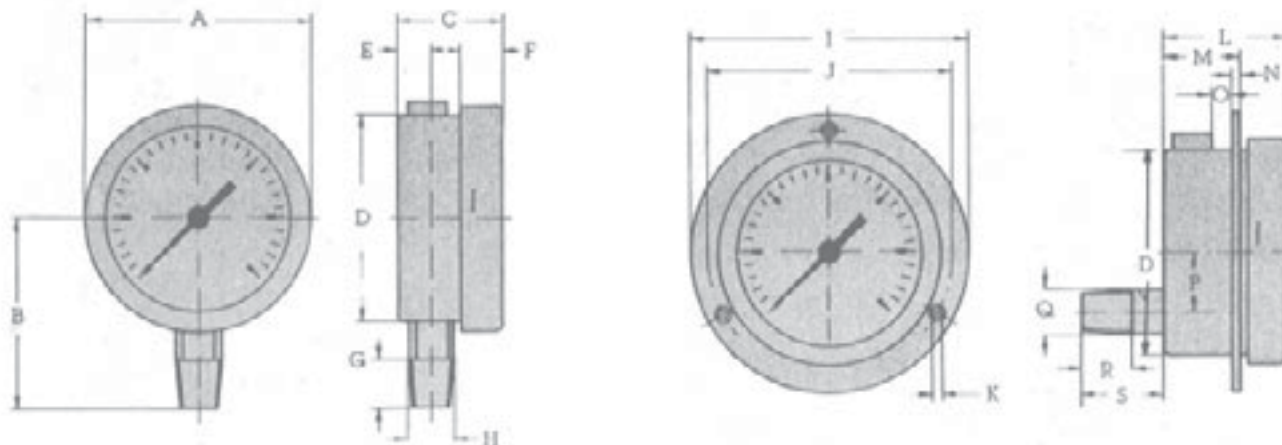
Pulse/Vibration Protection

McDaniel offers liquid-filled gauges for applications involving vibration or pulsation. Glycerin is an excellent damper of Bourdon tube movement. Emersion of the entire measuring assembly in a protective liquid envelope provides lubrication and shuts out corrosive or dirty atmospheres — thereby minimizing wear of moving parts and prolonging gauge life significantly.

Contact Aqua Tech for Mc Daniels S/S Gauges and manufacturers literature.

McDANIEL GAUGE DATA

Dimensional Data



Model	Nominal Size	Case Diameter	A	B	C	D	E	F	G	H	I	J*	K	L	M	N	O	P	Q	R	S
R	1½"	MM	42.5	40	25	47	-	8.3	13	14	54	48	3.5	27	25	15	-	-	14	11	18
		In.	1.67	1.57	.98	1.85	-	0.37	0.51	0.55	2.20	1.89	.137	1.06	0.99	0.06	-	-	0.55	0.43	0.75
T	2"	MM	54	46	28	52	15	8	-	11.5	81	-	-	30	27.5	12	11	-	15	22	22
		In.	2.13	1.81	1.10	2.05	0.59	0.31	-	0.39	3.26	-	-	1.18	1.08	0.47	0.43	-	0.60	0.87	0.87
J	2½"	MM	68.5	57	32	67	13	12	15	14	85	75	3.8	36	34	3	18	4	15	15	24
		In.	2.70	2.24	1.25	2.64	0.50	0.47	0.59	0.55	3.31	2.95	0.15	1.50	1.34	0.12	0.71	0.16	0.60	0.60	0.94
U	2½"	MM	64	54	31	63	8.5	11.5	12	13.5	75	-	-	30	25	3	5	-	17	12	18.5
		In.	2.52	2.13	1.22	2.48	0.33	0.39	0.47	0.53	2.95	-	-	1.18	0.91	0.12	0.20	-	0.67	0.47	0.73
L.M. N.P.	4"	MM	113	87	43	100	13.4	18	21.5	22	113	-	-	49	-	1.3	18	34	21	21.3	36
		In.	4.45	3.43	1.93	3.94	0.41	0.73	0.85	0.87	4.45	-	-	1.93	-	0.06	0.63	1.33	0.84	0.85	1.57
YZ	6"	MM	160	118	50	160	-	-	20	22	190	178	5.8	54	49	2	-	155	21	20	36
		In.	6.30	4.65	1.91	6.30	-	-	0.79	0.87	7.52	7.01	0.23	2.20	1.93	0.08	-	2.17	0.83	0.79	1.42

NOTES: * Not applicable on center-back connected gauges
 † U Clamp model reduced to 2.70

Mounting Style Order Code (All McDaniel Gauges)

- | Code | Description |
|------|---|
| P | Panel mount/center back connection
Models U, R & T |
| P | Panel mount/lower back connection
Models J, L, M, N, P, Y, Z |
| L | Center back connection (without panel mount flange) Models U, R, T |
| L | Lower back connection (without panel-mount flange) Models J, L, M, N, P, Y, Z |
| U | U-Clamp for panel mounting |
| R | Rear flange for wall-mounting (2½", 4" and 6" gauges only) |
| S | Solid-front/blow-out back (fillable; not available with back connection) |

Contact Aqua Tech for all Mc Daniel Gauges and factory repair service.

Pulse/Vibration Protection

McDaniel offers liquid-filled gauges for applications involving vibration or pulsation. Glycerin is an excellent damper of Bourdon tube movement. Emersion of the entire measuring assembly in a protective liquid envelope provides lubrication and shuts out corrosive or dirty atmospheres — thereby minimizing wear of moving parts and prolonging gauge life significantly.

Repair Feature

If any McDaniel gauge requires repair, downtime can be minimal because all McDaniel gauges are field-repairable — quickly and easily — with only a screwdriver needed for disassembly.

If circumstances permit and factory repair is preferred, we will make that repair at a nominal service charge. See "WARRANTY & REPAIR" for further details.

McDANIEL GAUGE SELECTION

Range Selection*

Range Code	Range (psi)	Availability (✓) by gauge model				
		L M N P X Z	J	R	T	U
A	0-15	✓	✓	✓	✓	✓
B	0-30	✓	✓	✓	✓	✓
C	0-60	✓	✓	✓	✓	✓
D	0-100	✓	✓	✓	✓	✓
E	0-160	✓	✓	✓	✓	✓
F	0-200	✓	✓	✓	✓	✓
G	0-300	✓	✓	✓	✓	✓
H	0-400	✓	✓	✓	✓	✓
I	0-600	✓	✓	✓	✓	✓
J	0-800	✓	✓	✓	✓	✓
K	0-1000	✓	✓	✓	✓	✓
L	0-1500	✓	✓	✓	✓	✓
M	0-2000	✓	✓	✓	✓	✓
N	0-3000	✓	✓	✓	✓	✓
O	0-5000	✓	✓	✓	✓	✓
6k	0-6000	✓	✓		✓	✓
P	0-10000	✓				✓
Q	0-15000	✓				
R	0-20000	✓				
30k	0-30000	✓				
35k	0-35000	✓				
S	VAC 0-30	✓	✓	✓	✓	✓
T	REC 3 15	✓	✓	✓	✓	✓
U	COMP 15+30	✓	✓	✓	✓	✓
V	COMP 30+30	✓	✓	✓	✓	✓
W	COMP 60+30	✓	✓	✓	✓	✓
X	COMP 100+30	✓	✓	✓	✓	✓
Y	COMP 160+30	✓	✓	✓	✓	✓
2k	COMP 200+30	✓	✓	✓	✓	✓
Z	COMP 300+30	✓	✓	✓	✓	✓

*10" wc to 250" wc available in models J, L, M and F. To order wc, mercury or other pressure calibrations, describe the desired range (rather than use the range code) after specifying the code for case size.

Choice of Scale

McDaniel offers from inventory many dual scale ranges. These include psi/kPA with the psi scale primary and the kPA secondary; psi/Bar with the psi scale primary and Bar secondary; kg/cm²/psi with kilograms per cm² primary and psi secondary.

McDaniel offers more ranges and special calibrations than any other manufacturer of gauges — for only a nominal charge if any. Consult your McDaniel distributor.

Special Configuration Adder Codes

- B** = Bar/psi (dual scale)
- K** = kPa/psi (dual scale)
- O** = O₂ (cleaned for oxygen service)

How to Order by Code

1. Select the model number.
2. Select the pressure range (describe if requesting inches of water, mercury, etc.)
3. Specify mounting code if other than bottom mount.
4. Add special configurations if needed — either by code or written description.
5. Add choice of filling, if appropriate.

Aqua Tech for Factory Repair & Re-Calibration.

Example:

Model	Range code	Mounting style	Special configuration	Type of filling
N	J	P	—	GF

Order: A 4" Polyamid 'B' gauge with 1/4" NPT connection, range of 800 psi, with panel mount configuration, filled at the factory with glycerin (NJP-GF)

Last Word

4" and 6" gauges with brass internals are also available in 304 s/s cases on request. Options include maximum indicating slave pointers (lazy hands), hi/low adjustable electric contact gauges, special service gauges, steam siphons, diaphragm seals, pulsation snubbers, test gauges and more.

Aqua Tech for all Stainless & Brass Gauges. Call for manufacturers literature.

McDANIEL GAUGE SELECTION

Case Styles

- 1 1/2" **Filled or Fillable**
Model S 1/8" NPT*
*STANDARD — Also available in 1/4" NPT on Request (Center Back Conn. Only)
- 2" **Filled or Fillable**
Model Q 1/4" NPT*
*STANDARD — Also available in 1/8" NPT on Request
- 2 1/2" **Filled or Fillable**
Model K 1/4" NPT*
*STANDARD — Also available in 1/8" NPT on Request

- 4" **Non-Fillable**
Model A 1/4" NPT
Model C 1/2" NPT
- 4" **Filled or Fillable**
Model E 1/4" NPT
Model G 1/2" NPT
- 6" **Non-Fillable**
Model B 1/4" NPT
Model D 1/2" NPT
- 6" **Filled or Fillable**
Model F 1/4" NPT
Model H 1/2" NPT

Range Selection*

*10" wc to 250" wc available. To order wc, mercury or other pressure calibrations, describe desired range, (rather than use range code) after specifying code for case size.

Range Code	Range (psi)
A	0-15
B	0-30
C	0-60
D	0-100
E	0-160
F	0-200
G	0-300
H	0-400
I	0-600
J	0-800
K	0-1000
L	0-1500
M	0-2000
N	0-3000
O	0-5000

Range Code	Range (psi)
6k	0-6000
p	0-10000
Q	0-15000
R	0-20000
30k	0-30000
35k	0-35000
S	VAC 0-30
T	REC 3 15
U	COMP 15 + 30
V	COMP 30 + 30
W	COMP 60 + 30
X	COMP 100 + 30
Y	COMP 160 + 30
2k	COMP 200 + 30
Z	COMP 300 + 30

Choice of Mounting Style

Mountings are specified by using the following suffixes as codes:

- P = Panel mount/center back connection (1 1/2" and 2" gauges)
- P = Panel mount/lower back connection (2 1/2", 4" and 6" gauges)
- L = Center back connection (1 1/2" and 2" gauges)
- L = Lower back connection without panel-mount flange
- U = U-Clamp for panel mounting
- R = Rear flange for wall-mounting (2 1/2", 4" and 6" gauges only)

Special Configuration Adder Codes

- B = Bar/psi (dual scale)
- K = kPA/psi (dual scale)
- O = O₂ (cleaned for oxygen service)
- S = Solid front/blow-out back
(2 1/2" • 4" & 6" gauges only)

Contact Aqua Tech for Mc Daniels S/S Gauges and manufacturers literature.

PERMA-CAL GAUGES



HAVING ONLY ONE MOVING PART MINIMIZES THE EFFECTS OF SHOCK, VIBRATION PULSATION AND WEAR

DIRECT DRIVE BOURDON TUBE

The advantage of Perma-Cal® *direct drive* over conventional C- tube gauges is simple, there is only one moving part **No gears, linkages, or springs** to wear or break. Perma-Cal® gauges have a unique helical-wound elastic element that is attached directly to the pointer shaft. This eliminates the need for any movement-amplifying gears or linkages (the parts of a C-tube that fail most frequently). Perma-Cal® gauges maintain their structural integrity and accurate calibration in the most demanding environments, even during prolonged and rugged use. Perma-Cal® *direct drive* pressure gauges provide the lowest cost of ownership by giving the best value in durability, reliability, and accuracy.

NO LIQUID FILL

Perma-Cal® gauges have more **durability** and **longevity** than liquid-filled gauges, without the mess or problems of liquid fill. Perma-Cal® gauges do not have any of the problems filling solves. There are **no gears or linkages** to lubricate, and Perma-Cal® gauges are internally dampened with a small application of heavy (600,000 centistrokes) silicone grease that eliminates pointer flutter. Perma-Cal® provides a longer life gauge than liquid filled gauges without the leaking or discoloring problems of liquid fill.

SAFETY FEATURES

Perma-Cal® gauges have a very **low volume** elastic element and **solid front** case that provide the safest gauge possible. C-tube gauges have a relatively large volume elastic element that in cases of catastrophic failure could spill large amounts of process. Not all direct drive gauges offer the industry standard **solid front** for case safety. The Perma-Cal® configuration of **solid front** and rear blowout features provides the customer with the safest possible case style. Perma-Cal® furnishes the safest, most durable gauge in the industry.

CERTIFIED ACCURACY

All Perma-Cal® gauges have a high repeatable accuracy, instantaneous action, and are available as Grade 3A (+.25% full scale), Grade 2A (+.5% full scale), or +.5% mid-scale/ + 1% full scale. The full scale accuracy rating is applicable in both ascending and descending modes on all gauges, except for gauges rated 8,000 PSI and above , where the descending accuracy is +1% of full scale. Test gauges (Grade 3A) come with a calibration certificate traceable to the National Institute of Standards and Technology (NIST) included in the price. Perma-Cal® provides the best in durability, reliability and accuracy.



You can specify the exact design features you want as well as select from the following options:

- Pressure range or scale
- Degree of accuracy
- Case size, type and material
- Lens material
- Mounting, fitting, and material
- Environmental criteria

PERMACAL GAUGES

Perma-Cal Feet of Seawater Gauges

Specifications

Send Gauges to Aqua Tech for Repair & Re-Calibration

Proof Pressure without calibration shift Burst Pressure Operating Media Media Temperature Ambient Temperature Response Time Life Accuracy: ¹ 1/4% F.S. 1/2% F.S. 1/2% M.S. Repeatability & Sensitivity Calibration	150% of F.S. pressure ¹ 500% of F.S. pressure ² Any compatible with stainless steel -65° to +250°F -65° to +190°F Approx. 100 msec to F.S. ³ 250,000 cycles min. at 80% F.S. ±25% full scale ⁴ ±5% full scale ±1% full scale, ±5% mid scale ±25% full scale Vertical mounting standard ⁵
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NOTES:

- ¹125% of F.S. pressure 8,000 PSI and above.
- ²250% of F.S. pressure 8,000 PSI and above.
- ³Gas operation with no coil dampening.
- ⁴Specified accuracy includes all friction, error, hysteresis and linearity variations.
- ⁵F.S. accuracy ascending, ±3% F.S. accuracy descending, 8,000 PSI and above.
- ⁶Calibration in other mounting positions available upon request.



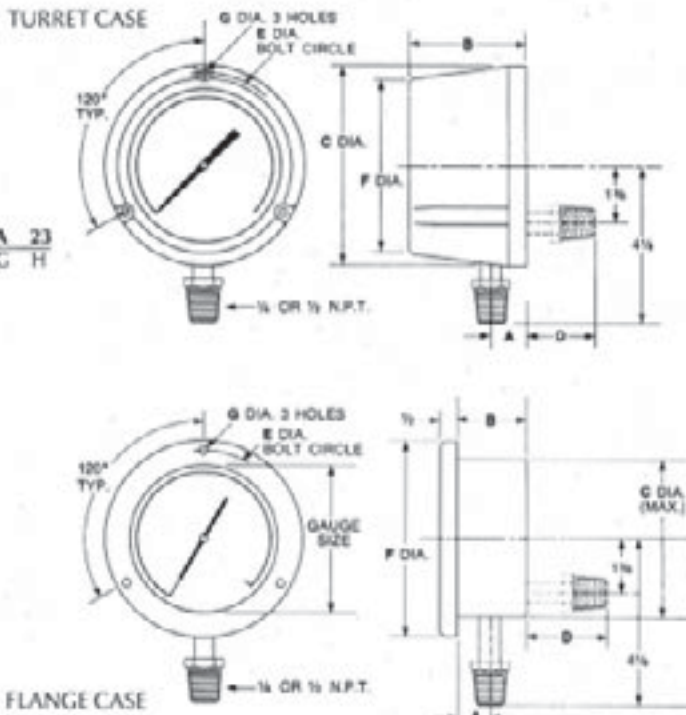
EXAMPLE #2

PART NO: 1 2 1 T ID 04 A 23
 OPTION: A B C D E F G H

This part number would indicate a psi gauge, 1% full-scale, 1/2% mid-scale accuracy, 4 1/2", turret mount case, industrial pointer with dampening and no mirror band, 0-100 psi range, in a black case with a 1/2" NPT bottom fitting.

IMPORTANT

For information on feet of sea water or metric range pressure gauges, or for answers to any other questions you may have, contact your local Perma-Cal distributor.



GAUGE SIZE	A	B	C	D	E	F	G	PANEL OPENING (REF.)	WRENCH SIZE (HEX)	
									3/4"	1/2"
8 1/2" Flange	1 1/4	2 1/4	6 1/4	1 3/4	9 1/4	10 1/4	3/8	9	3/8	3/8
6" Flange	1 1/4	2 1/4	6 1/4	1 3/4	7	7 3/4	3/8	8 1/2	3/8	3/8
4 1/2" Flange	1 1/4	2 1/4	4 3/4	1 3/4	5 3/4	6	3/8	4 3/4	3/8	3/8
4 1/2" Turret	1 1/4	2 1/4	5 3/4	1 3/4	5 3/4	5 1/4	3/8	N.A.	3/8	3/8
3 1/2" Turret	1 1/4	2 1/4	4 3/4	1 3/4	4 3/4	3 3/4	3/8	N.A.	3/8	3/8

PERMACAL GAUGE ORDER SHEET

How to order a Perma-Cal gauge with the exact specifications you require. Select appropriate symbols and build a model code number, as in the example shown below.

A B C D E F G H I J K
1 0 1 F T M XX Y 0 1 - V

PRODUCT TYPE Pressure Gauges	1
Seawater Depth Gauges	2

ACCURACY 1/4% Full scale (8 1/2", 6", 4 1/2" and 2 1/2"; calibration certification included)	0
1/2% Full scale (6", 4 1/2", 3 1/2" and 2 1/2" dials)	1
1% Full scale, 1/2% Mid scale (6", 4 1/2", 3 1/2" and 2 1/2" dials)	2

DIAL SIZE 8 1/2" (zero adjust dial included)	8
6" (zero adjust dial included)	0
4 1/2" (zero adjust dial included on test gauges; opt'l. on process gauges)	1
3 1/2" (zero adjust dial not available; zero adjust pointer included)	2
2 1/2" (zero adj. dial incl. on test gauges; optional on process gauges)	3

CASE TYPE (Solid front case standard on all models.)	
Front flange (8 1/2", 6", 4 1/2" and 2 1/2" only)	F
Rear flange (6" and 4 1/2" only)	R
No flange (6", 4 1/2" and 2 1/2" only)	N
Turret (4 1/2" and 3 1/2")	T

POINTER TYPE Process (bold, easy reading)	I
Test (knife-edged, precision reading)	T

MISC. OPTIONS	
C Calibration certificate (not apropos on 1/4%)	O Cleaned for oxygen service
E EPDM Isolator installed	T Stainless steel tag
L Tempered glass (No zero adj. avail.)	V Viton Isolator installed
N Microbrazed	Z Aluminum case

FITTING TYPE	
1 1/4" NPT	6 MS 3364E4
3 1/2" NPT	7 1/4" Aminco
4 MS 33514E4	8 MIL-G 18997
5 SAE AS 4396	9 1/4" BSP

FITTING POSITION	
0 Rear	4 Top (12 o'clock)
2 Bottom (6 o'clock)	

COLOR		
A Black	B Blue	G Green
R Red	W White	Y Yellow
H High temp (GFN, 4 1/2" yellow turret)		

PRESSURE RANGE	
XX	Specify pressure range and units of measurement, i.e., PSI, Pascals, Bar, etc. or see Bulletin T-103 for pressure codes.

DIAL TRIM		
Dial Size	Mirror Band	Zero Adj. Dial
M 2 1/2", 4 1/2", 6", 8 1/2"	Yes	Yes
D 2 1/2", 3 1/2", 4 1/2"	No	No
B 2 1/2", 4 1/2", 6"	No	Yes

SPECIFICATIONS

Proof Pressure
without calibration shift:
150% of F.S. pressure¹
Response Time:
Approx. 100 msec to F.S.³
Life:
250,000 cycles min., 20% to 80%
F.S. on ranges below 3,000 psi.

Buret Pressure:
500% of F.S. pressure²
Accuracy:
Grade 3A ±.25% full scale⁴
Grade 2A ±.5% full scale⁵
.5% M.S. ±1% full scale,
±.5% midscale

Wetted Parts:
Inconel X-750, 316SS, 304SS and
silver solder. Other options
available.
Repeatability & Sensitivity:
±.01% full scale
Calibration:
Vertical position standard⁶

Media Temperature:
-65° to +250°F w/ ABS case
-65° to +800°F w/ GFN or Al case
Ambient Temperature:
-65° to +190°F w/ ABS case
-65° to +400°F w/ GFN or Al case

NOTES:

1. 125% of F.S. pressure, 8,000 psi and above 2. Or 25,000 psi, whichever is less 3. Gas operation, no dampening 4. Specified accuracy includes all friction error, hysteresis, and linearity variations. 5. On 8,000 psi and above, accuracy is 1% descending 6. Calibration in other mounting positions available
Distributed by:

SYNTHO-GLASS INSTANT REPAIR

SYNTHO GLASS one step INSTANT REPAIR

SYNTHO-GLASS is a new miracle resin coated fiberglass cloth repair and maintenance system that will set under water. No mixing! No measuring! No waiting! No cleanup! The fiberglass cloth has been resin impregnated prior to packaging. Simply use directly from the package. Normal setting time is 30 minutes, but may vary depending on temperature. Water, salt or fresh, is the activator!!

This revolutionary product will set under water making it ideal for applications in the splash zone, corrosion protection, coating of pipes joint, reinforcement, piling production, pipeline repair and electrical insulation to 16,000 volts. SYNTHO-GLASS will retain pressure on supply lines and will function under temperatures up to 1100 degrees F. This resin impregnated cloth system will repair PVC, metal, rubber, fiberglass, plastic, etc. The high adhesive and structural strength makes it ideal for all types of repair and maintenance applications. Odorless, non-combustible and non-toxic SYNTHO-GLASS can be sanded and painted if desired. Once set, gas, oil or diesel fuel will not effect the repair material.

Fast-Efficient-Clean Piling & Pipe Repair



DIP IN WATER FOR 20 SECONDS TO ACTIVATE

ELIMINATE EXPENSIVE BREAKDOWNS

PIILING PROTECTION

IDEAL FOR ALMOST ANY EMERGENCY

"... the flange was then wrapped with SYNTHO-GLASS in an over-lapping manner and applied firmly by hand. The cloth was allowed one hour to cure. The 700,000 gallons of oil was pumped at pressures from 90 to 120 PSIG without leakage."

"... your amazing product saved the project. SYNTHO-GLASS has been written in to the company's specifications to protect vertical steel piping on the corrosive splash-zone area."

"... used SYNTHO-GLASS to wrap breasting dolphins which consist of eighteen inch diameter steel piling. This will save over one million dollars in replacement costs."

"... We are currently using SYNTHO-GLASS to seal underwater cable splices. We have had no problems with any of the connections which number 19 at this time."

"... We have hydraulic dredge operations using eight inch aluminum pipe. Pipes were hit by outboard motor boats and were repaired under water with SYNTHO-GLASS."

When you need SYNTHO-GLASS

There's No Substitute!

PACKED IN FOIL PACKETS

(INDIVIDUALLY SEALED) for Easy Transportation With-out the Mess of Other Products!!

MATERIAL SIZES AVAILABLE:

2" Wide X 5 ft. Long

3" Wide X 9 ft. Long

4" Wide X 15 ft. Long

4" Wide X 30 ft. Long

4" Wide X 50 ft. Long

Additional Sizes Available from Aqua Tech by Special Order.

MECHANICAL PROPERTIES

Structural	Method	PSI
Flexural Str.	ASTM D 709-71	16,100
Tensil	ASTM D 638	24,900
Compression	ASTM D 695-77	26,600
Bond Strength		98

Spray Penetration Test-4 Layers to total obliteration.

Temperature cycle test-4 Layers recycled from 50° F - 90° F With no delamination or loss of bond

TECHNICAL DATA

Number of piles 9	
Fabrication Method	Wet Lay-up
Cure Time @ 75° F	30 Minutes
Barcol Hardness	53
Dielectric Strength	16,060 Volts
Heat Resistance	1,100° F

CHEMICAL RESISTANCE

IMMERSION CHEMICAL	IMMERSION TIME	EFFECT
Acetone	30 days	Softened
Diesel Fuel	30 days	O.K.
Ethyl Alcohol	30 days	Soft, rubbery
Gasoline	30 days	O.K.
30% HCL	30 days	Softened
Toluene	30 days	Softened
MEK	30 days	Soft, rubbery

SPLASH ZONE BARRIER COMPOUND

FEATURES

- Formulated For Application And Cure Underwater In Fresh Or Salt Water
- Excellent Water Resistance
- Effective Corrosion Barrier
- Excellent Cathodic Disbondment Resistance
- Excellent Chemical and Solvent Resistance

Many Years of service around the world confirm the effectiveness of this product as a corrosion barrier. Sold by Aqua Tech for many years with many satisfied customers.

Devclad® 182

Splash Zone Barrier Coating

(Formerly Chem Fix® 682)

Aqua Tech Order No. 182-K-2000

RECOMMENDED USES

Devclad Splash Zone Barrier Compound is a special polyimide epoxy mastic designed for use on those areas of marine structures and pipelines which cannot be maintained effectively with conventional coatings or cathodic protection.

- Repair of underwater pipelines
- Repair of underwater pilings and bracings
- Repair of waterline areas of structures and retaining walls

SPECIFICATION DATA

- | | |
|--|---|
| <ul style="list-style-type: none"> ● Coating Type: Epoxy Polyimide ● Color: Alum. Gray (#182-K-2000) ● Packaging: Two 1-Gallon Component Kits ● Component Ratio: 1 to 1 by Volume ● Finish: Semi-Gloss ● Flash Point: None ● Thinner: None
Clean up with Devco T-10 Thinner | <ul style="list-style-type: none"> ● Pot Life: 1 Hour @ 77° (25°C) ● Shelf Life: 1-Year + ● Density: 13.4 Lbs/Gal (1.6kg/l) ● Resistance Temp.: 325°F Dry
180°F Wet ● Volume Solids: 100% ● Theoretical Spreading Rate: 1604 Sq. Ft./Gal at 1 Mil
39.3 Sq. m/l at 25 microns ● Application: Hand smear, trowel or apply on a membrane. ● Recommended Film Thickness: 250 mils |
|--|---|

HELICAL CORRUGATED HOSES

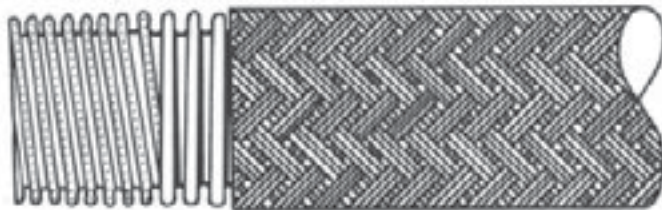
HELICAL CORRUGATED HOSE

Hose Type
P1H-0-Unbraided
P1H-1-Braided

Available in Type 321
and 316
Stainless Steel

Hose Type
GH-0-Unbraided
GH-1-Braided

Available in type 304,
321 and 316L
Stainless Steel



Nominal Hose I.D. Inches	Hose Type	Nominal Hose O.D. Inches	Weight Lbs. Per/Ft.	Static Bend	Intermittent Flexing	Working Pressure PSIG	Maximum Proof Pressure PSIG	Burst Pressure PSIG
1/4"	PIH-1	.45	.12	.75	2.25	1750	2625	7000
	GH-1	.52	.16	1.25	5.50	2000	3000	8000
3/8"	PIH-1	.64	.18	1.25	2.75	1300	1950	5200
	GH-1	.68	.23	1.50	7.00	2000	3000	8000
1/2"	PIH-1	.75	.22	1.50	3.00	1100	1650	4400
	GH-1	.83	.33	1.75	8.00	1450	2175	5800
3/4"	PIH-1	1/11	.37	1/75	5.00	700	1050	2800
	GH-1	1.10	.53	2.25	9.00	1100	1650	4400
1"	PIH-1	1.30	.49	2.00	6.50	600	900	2400
	GH-1	1.40	.69	2.50	9.50	900	1350	3600
1-1/4"	PIH-1	1.68	.62	3.00	8.00	450	675	1800
	GH-1	1.76	1.00	3.75	14.00	850	1275	3400
1-1/2"	PIH-1	1.97	.88	3.50	9.50	400	600	1600
	GH-1	1.98	1.19	4.00	16.00	520	780	2080
2"	PIH-1	2.46	1.25	5.00	11.00	350	525	1400
	GH-1	2.55	1.56	6.00	18.00	480	720	1920
2-1/2"	PIH-1	3.02	1.68	6.00	12.50	300	450	1200
3"	PIH-1	3.60	2.00	7.00	14.50	250	375	1000
4"	PIH-1	4.66	2.75	11.00	22.00	200	300	800

These Hoses Can Be Custom Tailored To Suit Your Particular Needs!! Call Aqua Tech For Assistance In Designing Your Hose Whips & Flex Lines!!

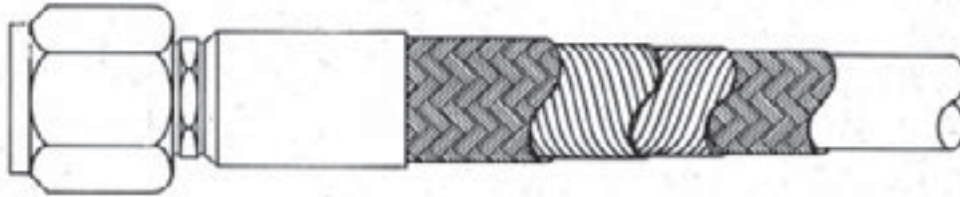


MINIMUM CENTERLINE BEND RADIUS(inches)

<p>Style #7</p> <p>Hex Male NPT</p>	<p>Style #8</p> <p>Plain Male NPT</p>	<p>Style #9</p> <p>Male Union NPT</p>
<p>Style #10</p> <p>Female Union NPT</p>	<p>Style #11</p> <p>Female NPT</p>	<p>Style #12</p> <p>Welding Nipple, 37 1/2° Bevel</p>

CROWN TEFLON HOSES

CROWN INDUSTRIAL SMOOTH BORE, EXTRA-HIGH PRESSURE TEFLON HOSE



Extra-High pressure teflon hose has the most rugged construction of all smooth bore hoses, as well as the highest pressure ratings. It is designed for serving up to 6000 psi with impulse peaks of 8000 psi on a continuous use. This hose can withstand 10,000 psi on an intermittent basis in closed systems or continuous in open systems, with prior approval from Crown Industrial Products.

The Extra-High pressure hose is the hose to choose for the most demanding high pressure applications in hydraulic and pneumatic systems. Its smooth innercore made of extruded teflon with precisely controlled amount of carbon black added provides a continuous conductive path to the 304 type stainless steel and fittings. Typical fluids suitable for extra-high pressure hoses are acids, fuels, oils and industrial gases. This hose can accommodate situations involving high flow rates as well as extremely high pressure, with its conductive innercore to dissipate static charge.

Hose Construction: Black Teflon innercore, extruded, smooth bore.

Smooth innercore of extruded Teflon with a precisely controlled amount of carbon black added to the inner 15%. This homogeneous material provides a continuous conductive path to the metal end fittings.

External Reinforcement: Stainless steel, wire braid, type 304.

-4 and -6: Two layers spiral wrap between two layers of braid.

-8: Four layers spiral wrap between two layers of braid.

Temperature Range: -65°F (-54°C) to 400°F (205°C)

Hose Specifications:

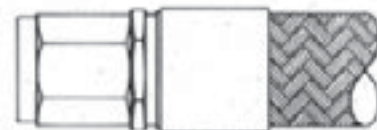
Hose Size	Nominal Size, in.	Nominal I.D., in.	Nominal O.D., in.	Maximum Operating Pressure psi at room temp.	Room Temperature Min. Burst psi	Typ. Max. Continuous Length, ft.	Minimum Bend Radius, in.	Hose Weight lb./ft.
-4	1/4	.229	.495	6,000	24,000	50	3	.24
-6	3/8	.300	.617	6,000	24,000	30	5	.40
-8	1/2	.395	.738	6,000	24,000	30	5.75	.49

Standards: Meets requirements of SAE 100R8 & 100R9.



FITTINGS FOR CROWN INDUSTRIAL EXTRA-HIGH PRESSURE HOSE

JIC - Female Swivel (37° Seat)



HIGH PRESSURE-TEFLON® LINED- S/S BRAIDED FLEXIBLE HOSE

These Hoses Can Be Custom Tailored To Suit Your Particular Needs!! Call Aqua Tech For Assistance In Designing Your Hose Whips & Flex Lines!!

Hose Specifications:

Hose Size	Nominal Size, in.	Nominal I.D., in.	Nominal O.D., in.	Maximum Operating Pressure psi at room temp.	Room Temperature Min. Burst psi	Typ. Max. Continuous Length, ft.	Minimum Bend Radius, in.	Hose Weight lb./ft.
-3	1/16	.110	.313	4,000	20,000	50	2	.115
-4	1/8	.229	.420	4,000	16,000	50	3	.134
-6	3/16	.300	.590	4,000	14,000	30	5	.304
-8	1/4	.395	.715	4,000	14,000	30	5.8	.430
-10	5/16	.525	.905	4,000	12,000	30	6.5	.680
-12	3/8	.650	1.070	4,000	12,000	30	7.8	.940
-16	1	.875	1.390	4,000	12,000	30	9.7	1.500

Standards: Meets requirements of SAE 100R8 & 100R9.

Materials: All wetted surfaces are type 321 stainless steel, other parts are type 304.

Hose Size	Size in.	Thread	Nominal I.D., in.
-4	1/4	7/16-20	.146
-6	3/8	9/16-18	.271
-8	1/2	7/8-16	.365
-10	5/8	7/8-14	.455
-12	3/4	1 1/8-12	.568
-16	1	1 1/8-12	.778

Custom fitting requirements can be accommodated.

HYDRAULIC HOSES

3600 & 3630 LOW PRESSURE (PNEUMO- FATHOMETER HOSE)

Aqua Tech recommends this hose for use as the **Pneumo-Fathometer** on your umbilicals.

Aqua Tech stocks 3600-04 on 1200 ft reels. Shorter lengths available.

Standard Color= GRAY
Available in red, blue or yellow jacket.

Temperature range= -10°F to +150°F
(-23°C to +65°C) Continuous service.



SPECIFICATIONS

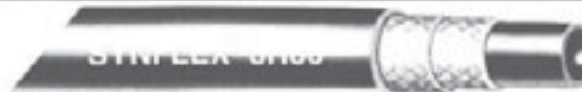
Part No.	I.D. (Nom)		Max. O.D. (in.)	Min. Bend Radius (in.)	Working Pressure**		Min. Burst Pressure		Weight	
	in.	mm			psi	bar	psi	bar	per 100' (lbs.)	kg/ 100 m
3600/3630-03	3/16	4	.399	7/16	250	17	1,000	69	4.5	7.0
3600/3630-04	1/4	6	.490	5/8	250	17	1,000	69	6.3	9.0
3600/3630-06	3/8	10	.639	7/8	250	17	1,000	69	9.7	14.9
3600/3630-08	1/2	13	.794	1-1/4	250	17	1,000	69	13.6	20.7
3600/3630-12	3/4	20	1.097	2-1/2	250	17	1,000	69	22.9	36.5
3630-05	5/16	8	.550	3/4	250	17	1,000	69	7.9	12.0
3630-16	1	25	1.342	3-1/2	250	17	1,000	69	31.4	46.5

3R80/3E80* HYDRAULIC HOSE

Features:
Black Polyurethane perforated cover. (Excellent resistance to abrasion).
Lightweight, easier to handle
Chemically resistant
Low elongation (±2% at Working pressure)

*Meets or exceeds SAE 100R8 specifications for non-conductive hose.

Note: Substitute 3E80 for non-conductive hose. (Color changes)



SPECIFICATIONS

Part No.	I.D. (Nom)		Max. O.D. (in.)	Min. Bend Radius (in.)	Working Pressure**		Min. Burst Pressure		Weight	
	in.	mm			psi	bar	psi	bar	per 100' (lbs.)	kg/ 100 m
3R80-03	3/16	4	.517	1-1/2	5,000	345	20,000	1379	7.7	11.5
3R80-04	1/4	6	.627	2	5,000	345	20,000	1379	11.8	17.6
3R80-06	3/8	10	.767	2-1/2	4,000	276	16,000	1103	14.8	22.0
3R80-08	1/2	13	.894	4	3,500	241	14,000	965	19.0	28.3
3R80-12	3/4	20	1.138	6-1/2	2,250	155	9,000	620	25.6	38.1
3R80-16	1	25	1.472	10	2,000	138	8,000	552	38.5	57.3

AQUA TECH can Construct Hose-Whips to your specifications. A full line of Synflex permanent & reusable fittings can be installed in as little as One Day. Couplings, Tools and Fittings are available out of stock in most cases.

3800/3840* H.P. Hydraulic Hose

Features:
Thermoplastic cover and inner core (UV & abrasion resistant)
Fiber re-enforcement doesn't fatigue like wire braid
Ease of Assembly (No abrasive cutting or skiving to prepare for assembly)
Safety Guards are available from Synflex for added protection and strain relief.
Single and Multi-line configurations available



SPECIFICATIONS

Part No.	I.D. (Nom)		Max. O.D. (in.)	Min. Bend Radius (in.)	Working Pressure**		Min. Burst Pressure		Weight	
	in.	mm			psi	bar	psi	bar	per 100' (lbs.)	kg/ 100 m
3800-03	3/16	4	.432	1-1/2	5,000	345	20,000	1379	5.6	8.3
3800-04	1/4	6	.532	2	5,000	345	20,000	1379	7.9	8.3
3800-06	3/8	10	.667	2-1/2	4,000	276	16,000	1103	10.6	15.8
3800-08	1/2	13	.837	4	3,500	241	14,000	965	14.6	21.7

HOSE FITTINGS & TOOLS

Re-Usable Hose Couplings (Stainless Steel AISI 303 Series)



Hose I.D.	Tube O.D.	Pipe Thread	Part No.
Male Pipe, Stainless Steel AISI For 3000 Series Hose			
3/16		1/8	3908-03102
3/16		1/4	3908-03104
1/4		1/4	3908-04104
5/16		1/4	3908-05104
3/8		3/8	3908-06106
1/2		1/2	3908-08108
3/4		3/4	3908-12112
1		1	3908-16116

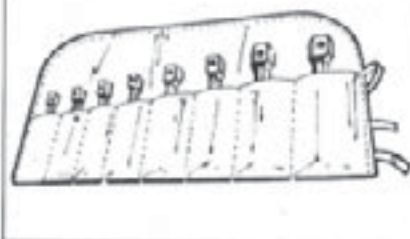


JIC 37° Swivel, Stainless Steel For 3000 Series Hose

Hose I.D.	Tube O.D.	Pipe Thread	Part No.
3/16	1/4(-4)	7/16-20	3908-03544
1/4	1/4(-4)	7/16-20	3908-04544
1/4	5/16(-5)	1/2-20	3908-04545
5/16	3/8(-6)	9/16-18	3908-05546
3/8	3/8(-6)	9/16-18	3908-06546
3/8	1/2(-8)	3/4-16	3908-06548
1/2	1/2(-8)	3/4-16	3908-08548
1/2	5/8(-10)	7/8-14	3908-08550
3/4	3/4(-12)	1-1/16-12	3908-12552
1	1(-16)	1-5/16-12	3908-16556

For 3R80 Series Hose

Hose I.D.	Tube O.D.	Pipe Thread	Part No.
3/16	1/4(-4)	7/16-20	390K-03544
1/2	1/2(-8)	3/4-16	390K-08548
1/2	5/8(-10)	7/8-14	390K-08550
3/4	3/4(-12)	1-1/16-12	390K-12552



Mandrel Tool Kit (JIC37°FlareFittings)
Aqua Tech Order No.....2727

MALE PIPE RIGID, STAINLESS STEEL



Hose I.D.	Pipe or Dash Size	Thread	Coupling	Part No. Die 4540	Part No. Pusher 4599
For Hose Series 3R300, 3000, 3010, 3040, 3130, 31F0, 3700, 3730, 3740, 3350, 3360, 3800, 3402, 3290, 3440, 3W00, 34AG, 34GW, 3600, 3630					
1/4	1/4		390A-04104	304	MP003
3/8	3/8		390A-06106	306	MP005
1/2	1/2		390A-08108	308	MP009
3/4	3/4		390A-12112	312	MP011
For Hose Series 3R80, 3E80, 3350, 3360, 34PW					
1/4	1/4		390L-04104	H04	MP004
3/8	3/8		390L-06106	H06	MP005
1/2	1/2		390L-08108	H08	MP009
3/4	3/4		390L-12112	H12	MP011
1	1		390L-16116	H16	MP013
For Hose Series 3500, 3510					
3/8	3/8		390L-06106	F06	MP005
1/2	1/2		390L-08108	F08	MP009

JIC 37° SWIVEL, STAINLESS STEEL



Hose I.D.	Pipe or Dash Size	Thread	Coupling	Part No. Die 4540	Part No. Pusher 4599
For Hose Series 3R300, 3000, 3010, 3040, 3130, 31F0, 3700, 3730, 3740, 3350, 3360, 3800, 3402, 3290, 3440, 3W00, 34AG, 34GW, 34PW, 3600, 3630					
3/16	-4	7/16-20	390A-03544	303	FP011
1/4	-4	7/16-20	390A-04544	304	FP012
3/8	-6	9/16-18	390A-06546	306	FP015
1/2	-8	3/4-16	390A-08548	308	FP016
1/2	-10	7/8-14	390A-08550	308	FP006
3/4	-12	1-1/16-12	390A-12552	312	FP008
1	-16	1-5/16-12	390A-16556	316	FP009
For Hose Series 3R80, 3E80, 3350, 3360, 34PW					
3/16	-4	7/16-20	390L-03544	H03	FP011
3/16	-5	1/2-20	390L-03545	H03	FP001
1/4	-4	7/16-20	390L-04544	H04	FP012
1/4	-5	1/2-20	390L-04545	H04	FP013
3/8	-6	9/16-18	390L-06546	H06	FP015
1/2	-8	3/4-16	390L-08548	H08	FP016
1/2	-10	7/8-14	390L-08550	H08	FP006

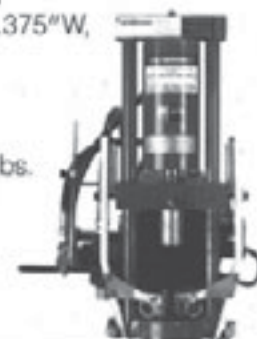
SYNFLEX SUPER V SWAGING MACHINE

for automatic, fast production of Synflex Hose/Coupling assemblies.

Less than ten seconds are required for almost anyone to produce a full-strength, factory-equivalent, permanent swage. Die insertion is followed by hydraulic swage. Pump and motor are self-contained.

Part No. 4530-005S3:
1-HP, 60 Hz, 115/208/230V single-phase motor.

Dimensions:
22.125"H, 10.375"W, 23.5"D.



Weight: 120 lbs.

SYNFLEX DIES AND PUSHERS FOR SYNDFLEX SST AND COUPLING MACHINES.

All Synflex Swaging Machines are fully compatible with all Synflex Dies and Pushers*, Hose, and Couplings exclusively.


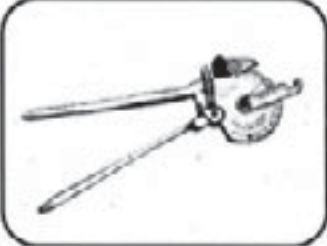









Hand Swager (Vice Held)



SST... the Synflex Swaging Tool:
Part Number 4530-01002

HOSE FITTING TOOLS

Hand Tube Benders		Aqua Tech Ordering Information			Vice Block with Flaring Pin					
		Dash Size	Tube O.D.	Bender A-T Order No.						
Medium Bender (1/8"-1/2")	Rachel Bender (5/8"-3/4")	2	1/8	2-2829						
		3	3/16	3-2329						
		4	1/4	4-2829						
		5	5/16	5-2829						
		6	3/8	6-2829						
		8	1/2	8-2829						
		10	5/8	10-2829						
		12	3/4	12-2829						
		14	7/8	14-2829						
Kloskut® Tube Cutters		IN-EX Deburring Tool		Tru-Kut Sawing Vice		Combination Flaring Tool				
										
Medium Kloskut 2188	Large Kloskut 1232	Part No. 226		Part No. 710439		Aqua Tech - Part No. 210A				
Straight Thread Boss Tapping Tools				Straight Thread Boss Counterboring Tool						
<p>Description Parker thread taps are used for accurate tapping of internal straight thread bosses at the ends of tubing lines and to receive straight thread fittings with O-rings. After counterboring, use a straight thread tap of the correct size to receive fitting.</p>				<p>Description Insure positive, dependable sealing of fluids. Use this tool before tapping to spot-face outside surface of boss and to provide correctly contoured counterbore to contain O-ring. The counterboring tool is made of high speed tool steel.</p>						
										
Ordering Information				Ordering Information						
Size	Tube O.D.		Part Number	Thread Size	Size	Tube O.D.		Counterbore Shank Dia.		For use with Thread Size (UNF-2B)
	(in.)	(mm)				in	mm	in	mm	
2	1/8	3.2	1/8-24UNF-2B-TAP	1/8-24	2	1/8	3.2	1/2	12.7	1/8-24
3	3/16	4.8	3/16-24UNF-2B-TAP	3/16-24	3	3/16	4.8	1/2	12.73	3/16-24
4	1/4	6.4	1/4-20UNF-2B-TAP	1/4-20	4	1/4	6.4	1/2	12.7	1/4-20
5	5/16	7.9	5/16-20UNF-2B-TAP	5/16-20	5	5/16	7.9	1/2	12.71	5/16-20
6	3/8	9.5	3/8-18UNF-2B-TAP	3/8-18	6	3/8	9.5	3/4	19.0	3/8-18
8	1/2	12.7	1/2-16UNF02B-TAP	1/2-16	8	1/2	12.7	3/4	19.0	1/2-16
10	5/8	15.9	5/8-14UNF-2B-TAP	5/8-14	12	5/8	19.0	1	25.4	1 1/8-12
12	3/4	19.0	1 1/8-12UN-2B-TAP	1 1/8-12	14	3/4	22.2	1	25.4	1 1/8-12
14	7/8	22.2	1 1/4-12UN-2B-TAP	1 1/4-12	16	1	25.4	1	25.4	1 1/8-12
16	1	25.4	1 1/2-12UN-2B-TAP	1 1/2-12	20	1 1/4	31.8	1 1/2	38.1	1 1/2-12
20	1 1/4	31.8	2 1/4-12UN-2B-TAP	2 1/4-12	24	1 1/2	38.1	1 1/2	38.1	1 1/2-12
24	2	50.8	2 1/2-12UN-2B-TAP	2 1/2-12	32	2	50.8	1 1/2	38.1	2 1/2-12

HOSE FITTINGS & ADAPTORS

U.S. Navy and Commercial Type Hose Fittings & Adaptors. (Brass)



FEMALE AIR-HOSE FITTING

With 17 Threads per inch Swivel Nut on a long Standard Navy Hose Barb for 1/2" I.D. Breathing Hose. Aqua Tech Order No.23065



MALE AIR-HOSE FITTING

With 17 Threads per inch Male Submarine (Brass) and Standard Navy Long Hose Barb for 1/2" I.D. Hose. Aqua Tech Order No.....23066



DOUBLE MALE "S" REDUCER

With 17 Threads per inch Male Submarine on one end and 3/4" NPT standard pipe thread on the other. Aqua Tech Order No.....23005



FEMALE ADAPTOR

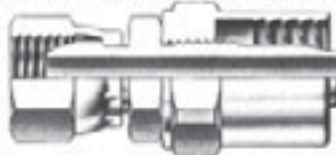
With 17 Threads per inch Female "S" Fitting on one end and 1/4" NPT Female on the other. Aqua Tech Order No.....29128



ADAPTOR DOUBLE MALE

With 1/4" NPT X 9/16" 18 tpi Oxygen Male. (Brass) Aqua Tech Order No.....3AD

"Pneumo" HOSE FITTINGS OXYGEN 9/16" X 18 TPI (Brass)



Re-Usable Hose Fitting Female Nut

Hose I.D.	Hose O.D.	Order No.
1/4"	15/32"	97R-B
1/4"	1/2"	99R-B
3/8"	5/8"	112R-B
3/8"	3/4"	115R-B



Oxygen 9/16" X 18-Swivel Nut to Hose Barb Short (Brass)

Hose I.D.	Stem&Nut	Stem Only	Nut Only
1/4"	12WR	12A	160D
3/8"	22WR	22A	160D



Oxygen 9/16" X 18-Male Hose Stem

Hose I.D.	Order No.
1/4"	12MR

DIVE HOSE FITTINGS COMMERCIAL



#6-J.I.C.w/3" HOSE BARB (Brass)

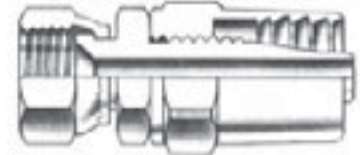
Order : AT-HB-63-B



Oxygen 9/16" X 18-Swivel Nut with 3" long Hose Barb (Brass)

Order: AT-HB-O2-B

"Pneumo" HOSE FITTINGS J.I.C. 37° (Brass)



Re-Usable Hose Fitting Female Nut

Hose I.D.	Hose O.D.	Order No.
1/4"	15/32"	97J-4-B
1/4"	1/2"	99J-4-B

SPECIAL SCUBA ADAPTORS



Scuba Male to 1/4" NPT Male Connects Female Scuba Hose Fitting to 1/4" Female NPT.

Order Part No.....AT-MOD-3AD



Scuba (Old-Style) Double Male 3/8"-24 Male "O"ring X 9/16" Oxygen Male (Brass) Low Press Only. Inserts into the Female L.P. port on the 1st Stage Regulator.

Order Part No.....AT-MOD-230



1/4" Male npt X O₂ Swivel Nut
Order Part No.....WES-123

HOT-WATER QUICK DISCONNECT & HOSE BARB FITTINGS



1/2" NPT Female Brass Quick Disconnect (Straight Through) Fits DUI Hot-Water Suits
Order Part No.....BPHC-B

1/2" Male NPT X 1/2" Hose Barb (Brass)
Order Part No.....WES-C-42

STANLEY POWER UNITS

Stanley HP1 Compact Power Unit STAHP1829x



Stanley's HP1 compact power unit features the most efficient hydraulic circuit available in a portable power unit today. They're built to meet the toughest HTMA standards so they'll provide sure performance in almost any climate condition. Equipped with a high speed blower and large air to oil cooler, the HP1 power unit provides a source for clean and cool hydraulic power under the toughest weather conditions. The HP1 is gas powered by the Briggs and Stratton* Vanguard engine. This high torque engine is fuel efficient, yet has lower exhaust emissions, and runs quieter than most engines its size. It carries a 2 year warranty from Briggs and Stratton,* so you're assured long and reliable service. The HP1 is easy to service also. From the spin on engine oil filter to the in-tank hydraulic filter (that's a snap to change), the HP1 is designed with you in mind. The HP1 includes a large readily available commercial battery for extra starting power. All supply and return hoses are connected to heavy duty hose swivels to extend the life of the hoses and fittings. The HP1 is designed to provide a HTMA type I or type II hydraulic circuit.

HP1 Features

- Rugged Side Handles:** Run the entire length of the unit on both sides for easy lifting and protection
- Automatic Throttle Mechanism:** Provides quicker engine RPM to get the tool on line--fast
- Interlinked Hydraulic Circuit and Starter Circuit:**
For safety, the hydraulic circuit must be "off" or the power unit will not start
- Larger Capacity Battery:** Charge it with your standard shop type recharger
- Fiberglass Pack Muffler:** Quiet operations, only 85 db during operations
- Low Oil Pressure Shut off:** A standard feature to protect the engine low lubrication conditions
- Automatic Fuel Shut off:** Protects the engine from backfire during coast operations
- Cast Iron Swing Away Lifting Eye:** Makes lifting quick and easy using overhead lifting devices

Stanley PortaCo Power Unit STAG20



Features

- 16" Diameter Wheels:** Large Wheels for ease of transport over rough terrain and through yard gates
- Hydraulic Cooler:** Large capacity extends unit life and offer operator comfort. Cooling will meet or exceed HTMA specifications
- Fuel Level Gauge:** Quick and safe fuel measurements
- Hour Meter:** Keeps track of usage for routine
- Low Oil Pressure Shut off:** A standard feature to protect the engine low lubrication conditions
- Collapsible Handle:** Folds away for storage and during onsite operations
- Roll Bar Kit:** Protects unit from impact damage and tip overs
- Variable Flow:** 0 - 12 gpm

PortaCo Specifications

- Hydraulic Systems:** Open Center
- Weight:** 233 lbs. (105.6 kg)
- Length:** 35" (88.9 cm)
- Height:** 32" (81.2 cm)
- Filtration:** 10 Micron Return Line Canister Type
- Engine:** 20 hp Briggs and Stratton V-Twin Vanguard
- Oil Cooler:** Air to Oil
- Fuel Tank Capacity:** 5 gallons (18.9 Liters)
- Hydraulic Oil Capacity:** 5 gallons (18.9 liters)

PortaCo Options

- Hose Basket
- Diesel Units Available

HP1 Specifications

- Capacity:** 8 gpm @ 2000 psi (30 lpm @ 140 bar)
- Weight:** 276 lbs. (100 kg)
- Length:** 33" (84 cm)
- Width:** 21.5" (55 cm)
- Height:** 28.5" (71.8 cm)
- Input Flow Range:** 4 - 12 gpm (15 - 45 lpm)
- Engine:** 18 hp Briggs & Stratton Gas. Elect. Starter
- Hourly Gas Use:** 1.3 gph (4 lph)
- Running Gear:** 12" Wheels Retractable. Handles (31 cm) Wheels, Retractable. Handles)
- Connector:** 3/8" Male Pipe Adaptor

Stanley D30 Power Unit STAD30



This hydraulic power unit is capable of powering two hydraulic tools simultaneously at 8 GPM each or one at 16 GPM. Operates type 1, 2, and 3 class tools.

Features

- Large Wheels:** Large Wheels for ease of transport over rough terrain and through yard gates
- Torsion Bar Rubber Mounted Axle:** For ease and comfort of towing
- Multiple Axle Position:** For optimum load capacity
- Full Instrumentation:** Monitor engine operation
- Tool Storage Area:** Large and Lockable
- Sound Suppression:** Special material reduces noise level
- Hydraulic Cooler:** Large capacity hydraulic cooler will extend unit life and offer operator comfort

D30 Specifications

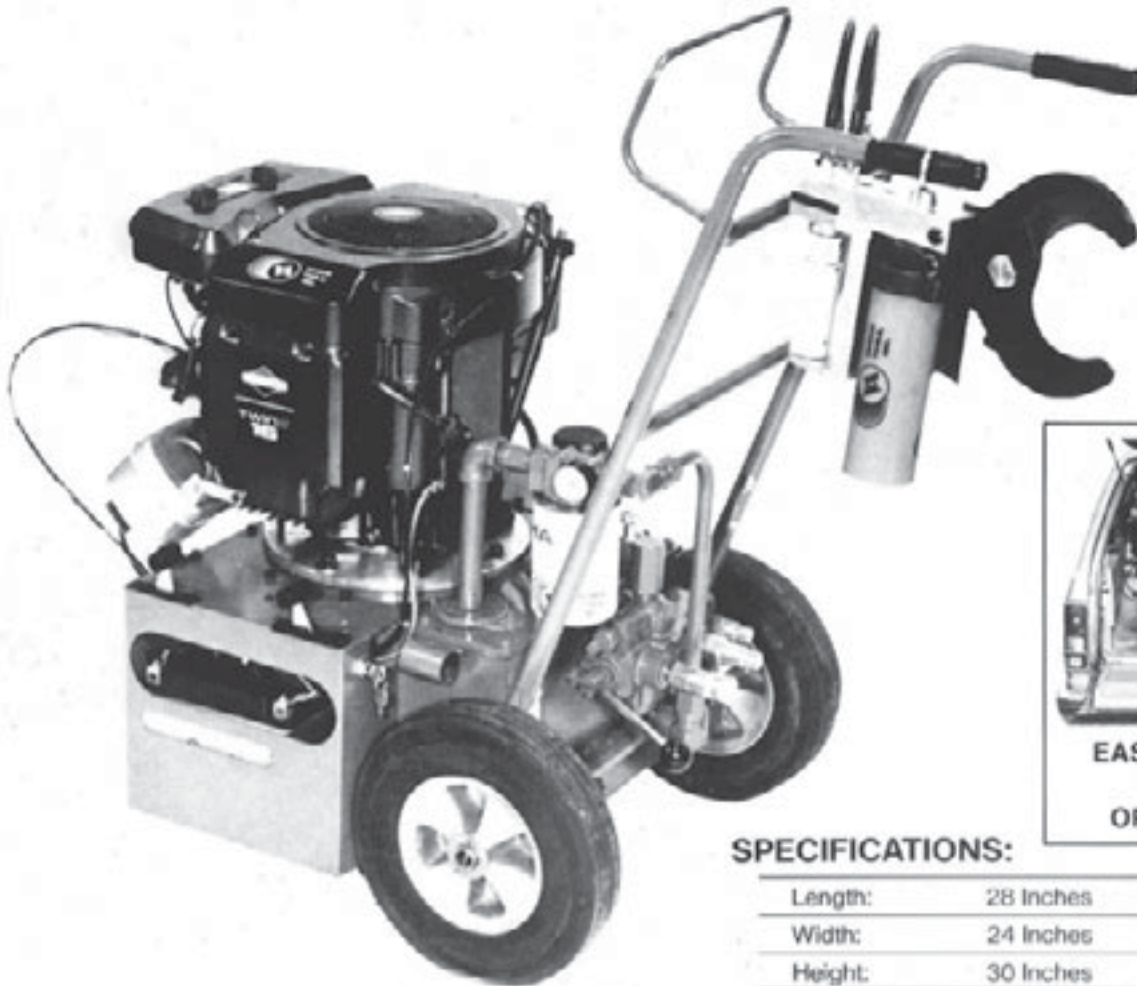
- Hydraulic Systems:** Open Center
- Weight:** 1300 lbs. (590 kg)
- Length:** 120" (304 cm)
- Height:** 49" (124.5 cm)
- Frame Type:** Trailer Ball / Pintle Hitch
- Filtration:** 10 Micron Return Line Canister Type
- Engine:** Yanmar / Kubota / Isuzu
- Oil Cooler:** Air to Oil
- Fuel Tank Capacity:** 22 gallons
- Hydraulic Oil Capacity:** 19 gallons

D30 Options:

- Pintle hitch kit
- Combiner Kit
- Engine shut down kit
- Brake kit
- Unit Available with Air Compressor
- Various engines and Flow Rates available

Huskie® HYDRAULIC UNIT

Model LP-2000 Low Pressure Hydraulic Power Pack



PICTURED WITH
DA-12 4" CUTTER
(SOLD SEPARATELY)



EASILY TRANSPORTED
IN MINI-VAN
OR STATION WAGON

SPECIFICATIONS:

Length:	28 Inches
Width:	24 Inches
Height:	30 Inches
Wheels:	2-12 Inches H x 3 Inches W
Weight:	238 pounds less oil and gas/add 7.5 #/ gal.

Also Available: LP-2012, 7GPM, 12HP, Light wt. 170 lbs. dry.

Features:

- Gas Consumption @ 3600 RPM is 1.75 gal/hr/
- 16HP Briggs & Stratton twin cylinder engine
- Electric Start
- 5 gallon fuel tank
- 9 gallon hydraulic tank/shipped dry
- Hydraulic on/off valve allows changing of tools without stopping engine
- Hose rack on hand trolley
- Visual fluid gage
- Adjustable flow control up to 10 GPM at 2,000 psi pressure compensated when tools are activated
- OPTIONAL: PGF-1 inline pressure/flow gauge

A portable power pack designed to supply fluid for your hydraulic breaker, saw, impact wrench, submersible pump, pole puller, generator, compression tool, cutter, and high pressure booster system.

The LP-2000 can be delivered to a job site and free up your line truck for other important jobs.

It's simplistic design allows easy operation and convenient access to repairs when necessary. Powered by a reliable 16HP Briggs engine which generates an oil flow up to 10 GPM at 2,000 psi. The convertible hand trolley can be easily removed and horizontally inserted to carry or store the unit. Small enough to fit into a station wagon or pick up truck.

The portable power unit was specifically developed to perform all the tool functions found on a line truck thereby reducing the need to tie up a truck and a crew to do simple or time consuming jobs. Why tie up a truck to pump out water from manholes, or to break concrete when a power unit is available?

All Power Units carry the Huskie 1 year warranty.

STANLEY IMPACT WRENCHES

Stanley Impact Wrench IW12
STAIW12340



The IW12 is used around the world for many different land and underwater applications. No other tool, whether air or electric driven can match the power, light weight and overall efficiency of the IW12. Designed to run on a wide range of hydraulic circuits, the IW12 is the ideal tool for nut and bolt driving, anchor setting, wood auguring and drilling.

The IW12 uses Stanley's new rugged mechanism that is simple to maintain and has many features to give it proven reliability. Torque transmission to the operator is minimal with the swing hammer design. The large feathering trigger is convenient to use and gives the operator complete control of the wrench. The standard reversing valve provides instant reverse. For operator comfort the IW12 handle is coated with a heat insulated, shock absorbing material.

The IW12 is available with 3/4 inch square drive. It is designed to run off a HTMA type II or type III hydraulic circuit. Designed for heavy duty operations, the IW12 can be used by divers in any position.

Specifications:

Output Capacity: 3/4" Square Drive
Weight: 16 lbs. (7.25 kg)
Length: 10.25" (26 cm)
Width: 4" (10.2 cm)
Torque: 250 - 1200 ft. lb. (340 - 1632 mm)
Input Flow Range: 4 - 12 gpm (15 - 45 lpm)
Input Pressure: 1000 - 2000 psi (70 - 140 bar)
Optimum Flow: 5 - 10 gpm (15 - 45 lpm)
Porting: 8 SAE O-ring
Connector: 3/8" Male Pipe Adaptor
Motor: Integral

IW12 Accessories

03201 Underwater Tool Lubricant, 1 lb. Can
05117 7/16" Hex Shank x 1/2 Sq. Male Adapter
05080 5/8" Hex Shank x 1/2" sq. Male Adapter
05082 5/8" Hex Shank x 3/4" sq. Male Adapter
06790 3/4 sq. Anvil to 5/8" Hex Quick-Change Adapter
3189 20 gpm / 75 lpm Flowmeter
4182 Flow / Pressure Test

Stanley Impact Wrench IW16
STAIW16350



The IW16 is our best selling underwater tool! No other impact, whether air or electric driven can match the power, light weight and overall efficiency of the IW16. Featuring adjustable impact intensity, the IW16 can handle a wide variety of applications. The IW16's in use today are used primarily for heavy nut and bolt driving. Designed to run on a wide range of hydraulic circuits the IW16 can be your most versatile impact wrench.

The IW16 uses Stanley's new rugged mechanism that is simple to maintain and has many features to give it proven reliability. Torque transmission to the operator is minimal with the swing hammer design. The large feathering trigger is convenient to use and gives the operator complete control of the wrench. The standard reversing valve provides instant reverse. For operator comfort, the IW16 is supplied with a knurled assist handle.

The IW16 is available in a 1 inch square drive. It is designed to run off a HTMA type II or type III hydraulic circuit. Designed for heavy duty operations, the IW16 can be used by divers in any position.

Specifications

Output Capacity: 1" Square Drive
Weight: 26 lbs. (12 kg)
Length: 14.5" (37 cm)
Width: 4.5" (11 cm)
Torque: 500 - 2500 ft. lb. (680 - 3400 mm)
Input Flow Range: 7 - 12 gpm (20 - 45 lpm)
Input Pressure: 1500 - 2000 psi (105 - 140 bar)
Optimum Flow: 8 gpm (30 lpm)
Porting: 8 SAE O-ring
Connector: 3/8" Male Pipe Adaptor
Motor: Integral

IW16 Accessories

03201 Underwater Tool Lubricant, 1 lb. Can
01857 3/4" Sq. Female Jacobs Chuck
3189 20 gpm / 75 lpm Flowmeter
4182 Flow / Pressure Test

Stanley Impact Wrench IW24
STAIW24350



The IW24 is another of Stanley's heavy duty impact wrenches. Featuring adjustable impact intensity, the IW24 can handle a wide variety of applications.

The IW24 uses Stanley's new rugged mechanism that is simple to maintain and has many features to give it proven reliability. Torque transmission to the operator is minimal with the swing hammer design. The large feathering trigger is convenient to use and gives the operator complete control of the wrench. The standard reversing valve provides instant reverse. For operator comfort the IW24 is supplied with a "D" assist handle.

The IW24 is available in a 1-1/2 inch square drive. It is designed to run off a HTMA type II or type III hydraulic circuit. Designed for heavy duty operations, the IW24 can be used by divers in any position.

Specifications

Output Capacity: 1 1/2" Square Drive
Weight: 43 lbs. (19.5 kg)
Length: 16 1/2" (41 cm)
Width: 5" (13 cm)
Pressure: 1800 - 2000 psi (105 - 140 bar)
Torque: 800 - 3500 ft. lb. (1088 - 4760 mm)
Optimum Flow: 8 gpm (30 lpm)
Porting: 8 SAE O-ring
Connector: 3/8" Male Pipe Thread Ends

IW24 Accessories

03201 Underwater Tool Lubricant, 1 lb. Can
3189 20 gpm / 75 lpm Flowmeter
4182 Flow / Pressure Test

There are many Auger Bits, chucks, lubricants, hose types and lengths, fittings, and other options available. Aqua Tech can assist you with selecting the right equipment for the job

STANLEY HYDRAULIC TOOLS

Stanley ID04 Impact Drill
STAID04920



The ID04 is Stanley's lightest and most compact hydraulic impact wrench. Its maximum torque output of up to 450 ft lbs [600 NM] gives the ID04 more than enough power to drill through the toughest salt cured or creosote wood. The IW09 is the ideal tool for nut and bolt driving, anchor setting, wood angering and drilling.

Stanley incorporates a rugged swing hammer mechanism and many other features not found in any other hydraulic impact wrench. The hammer case is machined steel for rigidity and an "O" ring seal at the housing eliminates grease leaks. Thrust bearings at the front and rear of the mechanism carry loads generated when drilling in hard material and provide delivery of more power to the drill bit. Heavy duty bushings and a heavy duty hammer frame make the mechanism resistant to side loads that can damage other impact mechanisms. Heavy duty wiper seals are used to seal the reversing spool shaft to prevent contamination from entering the wrench. To guarantee long and reliable service, the ID04 features a built in reverse check valve to prevent wrench operations if the hydraulic circuit is reversed plumbed. Two large detent balls and heavy duty springs are used in the 7/16 inch quick change adapter for positive socket and bit retention, even when pulling the wrench while angering.

The ID04 comes standard with a 1/2 inch square drive but is field upgradeable to a 7/16 inch hex quick change anvil. It is designed to run off a HTMA type II hydraulic circuit. Designed for heavy duty operations, the ID04 can be used by divers in any position.

Specifications:

- Output Capacity:** 1/2" Square Drive
- Weight:** 7.7 lbs. (3.5 kg)
- Length:** 9" (22.9 cm)
- Width:** 4.5" (11.4 cm)
- Input Flow Range:** 4 - 12 gpm (15 - 45 lpm)
- Input Pressure:** 750 - 2000 psi (50 -140 bar)
- Torque:** 400 ft. lbs. (500 nm)
- Optimum Flow:** 4 - 9 gpm (15 - 34 lpm)
- Porting:** 8 SAE O-ring
- Connector:** 3/8" Male Pipe Adaptor

The many available options and accessories are too numerous to list. Please contact Aqua Tech for additional information, and tomorrow's solutions today.

Stanley SK58 Sinker Drill
STASK58320



The SK58 was designed for utility construction, blast hole drilling, leak detection and dowel drilling. We can modify the SK58 so that a water flush is used down the center of the tool and an air charge is used to keep water out of the hydraulic accumulator. Remember, operation this tool will require four hoses:

1. Hydraulic pressure line
2. Hydraulic return line
3. Air pressure (60 psi at the tool)
4. Water flush

The SK58 features easy start feathering trigger and a direct drive rotation motor for reliable service. Rotation is adjustable between 0-300 RPM. Since rotation is adjustable the SK58 can act as a hammer when rotation is turned off. The SK58 is designed for heavy duty applications. It can drill up to a 3" [75 mm] hole up to 20 feet [6 meters]. The SK58 can be used by divers in any position.

Specifications:

- Capacity:** 4 1/4" x 1" Hex Shank
- Weight:** 67 lbs. (30 kg)
- Length:** 26" (66 cm)
- Width:** 18" (46 cm)
- Flow Range:** 7 - 9 gpm (26 - 34 lpm)
- Pressure:** 1500 - 2000 psi (105 - 140 bar)
- Optimum Flow:** 9 gpm (34 lpm)
- Hydraulic Porting:** 8 SAE O-ring
- Connector Size and Type:** 3/8" MalePipeThread End

SK58 Accessories:

- 4337** "O" Ring Tool Kit
- 4805** Seal Kit for SK58
- 4908** Split Ring (Auto Valve Removal) Tool
- 4909** Flow Sleeve Installation Spacer
- 4910** Flow Sleeve Removal Tool
- 5044** Bearing Installation Tool
- 5045** Latch Removal Tool
- 5048** Latch Installation Tool
- 5061** Bearing Installation Tool
- 5062** Latch Installation Tool
- 5064** Bearing Puller Kit
- 5073** Accumulator Installation Tool
- 5508** Accumulator Disassembly Tool
- 5639** Accumulator Removal Tool
- 5640** Accumulator Cylinder Puller

Stanley DS11 Diamond Chain Saw
STADS115000



Stanley's DS11 Diamond Chain Saw brings a new technology to the diving concrete industry. With chain segments impregnated with diamond and laser welded to the chain, you can cut concrete (either wire or rebar reinforced), brick, concrete block, masonry or stone. Because the DS11 is a chain saw, you can cut square corners and avoid over-cuts or expensive and time consuming corner drilling that required finishing patching and additional labor. That's especially important in load bearing walls where many engineers are specifying no over-cuts. Using the plunge cut ability of the DS11 you can make cut outs in concrete walls and notch or trim concrete pipe. You now have the ability to cut a full 18" / 46 cm depth in one pass with a saw that's easily handled and operated by one diver. Because of the light weight, compact size and maneuverability of the DS11, work in confined spaces is much easier to accomplish. You can even make a clean cut all the way to the bottom or base level of a wall. Whether you're involved in construction, remodeling, demolition, maintenance or rescue, the Stanley DS11 chain saw will help you complete your job with efficiency and productivity.

A interlocking trigger, hand guards, and low kickback are designed in for safety. Hydraulic power doesn't require a flywheel to smooth power pulses so there is not chain coasting when you release the trigger. Kickback is also reduced without the centrifugal force from the flywheel used on other models of chain saws.

The DS11 is sold without bars or chains. You order different length bars and chains as your circumstances dictate. Bars and chains can be easily changed in the field as necessary. The DS11 is designed to run off a HTMA type III hydraulic circuit. The DS11 is designed for heavy duty operations, it can be used by divers in any position.

Specifications:

- Cutting Depths:** 12", 15", 18" (31 cm, 38 cm, 45 cm)
- Bar Lengths:** Same as Cutting Depths
- Max. Feed Force:** 45 lbs. (200 Nm)
- Length:** 32", 35", 38" (81 cm, 89 cm, 97 cm)
- Width:** 9" (23 cm)
- Chain Type:** 3/8" Pitch
- Input Flow Range:** 12 gpm (45 lpm)
- Input Pressure:** 2000 psi (140 bar)
- Optimum Flow:** 12 gpm (45 lpm)
- Porting:** 8 SAE O-ring
- Connector:** 3/8" Male Pipe Hose Ends

STANLEY CHAIN SAWS

Stanley Underwater Cutoff Saw STACO23541



Lightweight and powerful, the Stanley CO23 cut off saw can be used for cutting concrete, masonry, pipe, steel beams and railing. For safe operation, they feature adjustable wheel guards and interlocking triggers to prevent unintentional operations. Stanley cut off saws can be used with any standard 10" by 1" arbor cut off wheel and wet or dry diamond blades. The CO23 direct drive cut off saw is intended for accurate dimensional cutting of concrete, steel I-beams and pipe. It is designed to run off a *HTMA type III hydraulic circuit. Designed for heavy duty operations, it can be used by divers in any position*

The CO23 direct-drive cutoff saw is intended for accurate dimensional cutting of concrete, steel I-beams, and pipe.

Lightweight and powerful, the Stanley CO23 can be used for cutting concrete, masonry, pipe, steel beams and top side constructions. For safe operation it features adjustable wheel guards and interlocking triggers to prevent unintentional operation.

The Stanley CO23 cutoff saw can be used with standard cutoff wheels and wet or dry diamond blades. The guard is tapped to accept a cooling water hose.

Specifications:

Capacity:	10" Wheel (25.4 cm)
Weight:	23 lbs. (10.4 kg)
Length:	19.5" (49.5 cm)
Width:	11" (27.9 cm)
Hose Whips:	Yes
Input Flow Range:	10 - 15 gpm (38 - 57 lpm)
Input Pressure:	1500 - 2000 psi (105 - 140 bar)
Optimum Flow:	15 gpm (57 lpm)
Porting:	6 SAE O-ring
Connector:	1/2" Male Pipe Hose Ends

CO23 Accessories/ Test Equipment

3575	Water Attachment
3189	20 gpm/75 lpm Flow Meter
4182	Flow/Pressure Tester

Not all parts, test equipment are listed. Aqua Tech can assist you with all your Job Requirements.

Stanley CS06 Chain Saw STACS069xx



Stanley's hydraulic chain saws offer the highest power to weight ratio of any chain saw on the market today! They're ideal for diving applications because of their light weight and available styles. The CS06 is used around the world by utility companies, professional divers and construction crews. A interlocking trigger, hand guards, and low kickback are designed in for safety. Hydraulic power doesn't require a flywheel to smooth power pulses so there is not chain coasting when you release the trigger. Kickback is also reduced without the centrifugal force from the flywheel used on other models of chain saws

The CS06 can be ordered with different length bars and can be retrofitted in the field as your applications dictate. It is designed to run off a *HTMA type II hydraulic circuit. Designed for heavy duty operations, it can be used by divers in any position.*

Specifications:

Capacity:	12", 15", or 20" (30, 38, and 51 cm)
Weight:	6.5 lbs. w/o bar (2.8 kg w/o bar)
Length:	14" w/o bar (36 cm w/o bar)
Width:	11" (27.9 cm)
Hose Whips:	Not included
Flow Range:	7 - 9 gpm (26 - 34 lpm)
Pressure:	1000 - 2000 psi (70 - 140 bar)
Optimum Flow:	15 gpm (57 lpm)
Porting:	6 SAE O-ring
Connector:	3/8" Male Pipe Hose Ends

CS06 Accessories:

4643	Saw Chain, 18"/45 cm (3/8" Pitch)
5096	Saw Holster
5132	Sprocket nose bar grease gun
5144	Chain/Bar Guide
7629	Rim Sprocket, 7 tooth (.325" Pitch)
7638	15"/38 cm Saw Bar (.325" Pitch)
7639	18" Saw Bar (.325" Pitch)
7641	Saw Chain, 15" (.325" Pitch)
7642	Saw Chain, 18" (.325" Pitch)
7935	File guide with file - 72L chain (.328" Pitch)
9097	18" Saw Bar (3/8" Pitch)
9098	Rim Sprocket, 7 tooth (3/8" Pitch)
11299	File Guide with File - 72L Chain (3/8" Pitch)
11464	Srench (combination Screwdriver - Bar Nut Wrench)
12363	File Guide with File - 32SL/K2L Chain (.325" Pitch)
9588	15" Hard Nose Bar (3/8" Pitch)
9589	Saw Chain, 15" (3/8" Pitch)

Stanley CS11 Chain Saw STACS113NO



Stanley's hydraulic chain saws offer the highest power to weight ratio of any chain saw on the market today! They're ideal for diving applications because of their light weight and available styles. The CS11 is used around the world by utility companies, professional divers and construction crews. A interlocking trigger, hand guards, and low kickback are designed in for safety. Hydraulic power doesn't require a flywheel to smooth power pulses so there is not chain coasting when you release the trigger. Kickback is also reduced without the centrifugal force from the flywheel used on other models of chain saws.

The CS11 hydraulic chain saw is designed for extreme duty applications. It can be ordered with different length bars and can be retrofitted in the field as your applications dictates. It is designed to run off a *HTMA type III hydraulic circuit. Designed for continuous duty operations, it can be used by divers in any position.*

Specifications:

Capacity:	24", 30", 36, or 43" (61, 76, 91, and 51 cm)
Weight:	24 lbs. w/o bar (6 kg)
Length:	17" (43 cm)
Width:	9" (23 cm)
Hyrevz Motor:	07362
Input Flow Range:	10 - 14 gpm (38 - 53 lpm)
Input Pressure:	1500 - 2000 psi (105 - 140 bar)
Max. Back Pressure:	250 psi (17 bar)
Optimum Flow:	14 gpm (53 lpm)
Porting:	8 SAE O-ring
Connector:	1/2" Male Pipe Hose Ends

CS11 Accessories/Tools:

01824	Saw Chain, 24"
02684	Bar
03194	Saw Chain, 30"
03192	Bar, 30"
03195	Saw Chain, 36"
03193	Bar
03456	Saw Chain
03457	Bar
850	Bearing Pusher
3325	Seal Kit 3 pc P/N 03045 Motor
3326	Repair Kit
3327	Seal Kit 3 pc P/N 03272
3328	Repair Kit
4337	O-Ring Tool Kit
5044	Bearing Installation Tool
5064	Bearing Puller Kit
10569	Seal Kit 2 pc P/N 07362 Motor

STANLEY HYDRAULIC TOOLS

Stanley Pistol Grip Grinder
STAGR29310



The GR29 is Stanley's pistol grip grinder. It's the most powerful hand held grinder you can buy. Utilizing lower than normal flows and the accessories listed below, the GR29 can also be used as a hull brush. Utilizing an integral Stanley HYREVZ gear type motor, the GR29 is quiet, powerful and reliable. For operator safety and convenience, the GR29 features an adjustable wheel guard, assist handle, as well as a heat insulated and shock absorbing pistol grip. The GR29 is designed to run off a *HTMA* Type II hydraulic circuit. Designed for heavy duty operations, it can be used by divers in any position.

Specifications:

Capacity: 9" Wheel on 5/8" - 11 thd ar bor
Weight: 15 lbs. (6.8 kg)
Length: 9" (22.9 cm)
Width: 4.5" (11.5 cm)
Motor: Integral
Input Flow Range: 4 - 10 gpm (15 - 38 lpm)
Input Pressure: 1000 - 2500 psi (70 -176 bar)
Max. Back Pressure: 250 psi (17 bar)
Optimum Flow: 2700 rpm, 10 gpm (38 lpm)
Porting: 8 SAE O-ring
Connector: 3/8" Male Pipe Hose Ends

GR29 Accessories/Tools:

- 2816 6" Wire Brush
- 5194 Depressed Center Adaptor
- 18726 9" Diameter 46 Grit silicon carbide imbedded in nylon bristle
- 18728 9" Steel Flat Wire Bristles
- 18730 9" Disc (3M #3 Density)
- 18731 7 1/2" (3M #3 Density)
- 18732 9" (3M #5 Density)
- 18733 7 1/2" (3M #5 Density)
- 18734 Disc Holder for 3M 9" Disc
- 18735 Disc Holder for 3M 7 1/2" Disc
- 28098 Adapter Plate for Brush and Disc Holders
- 3189 20 gpm/75 lmp Flowmeter
- 4182 Flow / Pressure Tester

Call Aqua Tech for questions regarding your next job and Hydraulic Tool needs!

Stanley CH18 Chipping Hammer
STACH18311



Stanley's CH18 chipping hammer, with "D" handle, is a light but powerful alternative to the air powered tools. Both the handle and the tool holder ends are shock and heat insulated for operator comfort. Designed to be small and compact for confined working conditions, the CH18 accepts standard 0.580-inch round collar steels. The CH18 is designed to run off a *HTMA type II hydraulic circuit*. *Designed for heavy duty operations, it can be used by divers in any position.*

Specifications:

Capacity: 2 1/2" x .580 Shank
Weight: 24 lbs. (11 kg)
Length: 20" (60 / 65 cm)
Width: 14" (35 cm)
Input Flow Range: 7 - 9 gpm (26 - 34 lpm)
Input Pressure: 1500 - 2000 psi (105 - 140 bar)
Max. Back Pressure: 250 psi (17 bar)
Optimum Flow: 8 gpm (30 lpm)
Porting: 8 SAE O-ring
Connector: 3/8" Male Pipe Hose Ends

CH18 Accessories/Tools

- 3189 20 gpm/75 lmp Flowmeter
- 4182 Flow / Pressure Tester

HD45 Carbide Bits:

- 02280 3/4" x 24" (61 cm) length, 14 7/8" (37.8 cm) Deep Hole
- 05163 7/8" x 24" (61 cm) length, 14 7/8" (37.8 cm) Deep Hole
- 04668 1" x 18" (45.7 cm) length, 8 7/8" (22.5 cm) Deep Hole
- 02281 1" x 24" (61 cm) length, 14 7/8" (37.8 cm) Deep Hole
- 02282 1 1/4" x 24" (61 cm) length, 14 7/8" (37.8 cm) Deep Hole
- 04896 1 1/4" x 36" (91.4 cm) length, 29" (73.7 cm) Deep Hole
- 05167 1 1/2" x 24" (61 cm) length, 15" (38.1 cm) Deep Hole
- 02283 2" x 24" (61 cm) length, 14 3/4" (37.5 cm) Deep Hole
- 30279 Adapter to Accept Percussion Core Bits

Stanley HD45 U/W Hammer Drill
STAHD45310



Stanley's HD45 Hammer Drill is a heavy duty model designed for use in medium and heavy duty applications. It can drill holes from 3/4 inch [19 mm] to 2 inch [50 mm] in diameter up to 29 inches [73.7 cm] deep. The HD45 uses standard Skil 736 type carbide fluted drills and does not require fluid to clear the hole while drilling. The feathering trigger and adjustable bit rotation speed (both forward and reverse) makes the HD45 easy to start and control. The HD45 is designed to run off a *HTMA* type II hydraulic circuit. Designed for heavy duty operations, it can be used by divers in any position.

Specifications:

Capacity: Up to 2" dia. or 4" core, 736 skil hex
Weight: 45 lbs. (20.4 kg)
Length: 22.5" (57 cm)
Width: 14" (35 cm)
Motor: Internal
Input Flow Range: 7 - 9 gpm (26 - 34 lpm)
Input Pressure: 1500 - 2500 psi (105 - 140 bar)
Max. Back Pressure: 250 psi (17 bar)
Optimum Flow: 2700 rpm, 10 gpm (38 lpm)
Porting: 8 SAE O-ring
Connector: 3/8" Male Pipe Hose Ends

HD45 Accessories/Tools:

- 3189 20 gpm/75 lmp Flowmeter
- 4182 Flow / Pressure Tester

HD45 Carbide Percussion Core Bits

- 27896 1" dia x 6" (15.2 cm) LOA
- 27897 1 1/8" dia. X 6" (15.2 cm)LOA
- 27898 1 1/4" dia. X 6" (15.2 cm)LOA
- 27899 1 1/2" dia. X 6" (15.2 cm) LOA
- 27900 1 3/4" dia. X 6" (15.2 cm)LOA
- 27901 2" dia. X 6" (15.2 cm)LOA
- 27902 2 1/2" dia. X 6" (15.2 cm)LOA
- 27903 2 3/4" x 6" (15.2 cm)
- 27904 Adapter to Accept Percussion Core Bits
- 30834 4" dia. X 6" (15.2 cm)LOA
- 30279 Percussion Core Bit Adapter for HD45
- 30278 Core Bit Pilot (recommended for 2 1/2" d Larger Core Bits

STANLEY U/W BREAKERS

Stanley's line of hand held breakers is the largest in the world. Breakers are available for any application. Stanley breakers can be used for light to heavy concrete demolition, driving of posts, anchoring and cutting. Stanley breakers feature a trouble free diaphragm accumulator and can handle system back pressures of up to 250 P.S.I. [17 bar]. A handy feature on these breakers is a feathering valve to make start-up and initial placement of the steel easy.

Stanley BR45 Breaker
STABR45



The BR45 breaker is rugged lightweight and powerful tool ideal for use in the 35 to 65 pound class. Designed for light to medium duty, excels at demolition work. Feathering On/Off valve allows the operator to control the output energy of the tool through the full range from 0 to 1800 blows per minute, making start-up and initial tool placement easy.

Diaphragm accumulator provides trouble-free operation with system back pressures up to 250 psi (17 bar). The BR45 operates on an open-center system and is available in 1", 1 1/8", 1 1/4" chuck size.

Specifications:

Steel Capacity: 4-1/4 x 1" Hex
Weight: 45 lbs. (20kg)
Length: 23.5/25.5" (60/65 cm)
Width: 14" (35cm)
Output: 1800 blows per minute
Input Flow Range: 7 - 9 gpm (24 - 34 lpm)
Input Pressure: 1500 - 2000 psi (105 -140 bar)
Max. Back Pressure: 250 psi (17 bar)
Optimum Flow: 8 gpm (30 lpm)
Porting: 8 SAE O-ring
Connector: 3/8" Male Pipe Hose Ends

Stanley BR67 Breaker
STABR67



The BR67 breaker is a medium-duty tool for work in the 70-90 pound class. It is highly productive in underwater construction and general contracting jobs.

Feathering On/Off valve controls blow speed, making start-up and initial tool placement easy.

Diaphragm accumulator provides trouble-free operation with system back pressures up to 250 psi (17 bar). The BR67 is designed for medium duty operations. Available in 1 1/8" or 1 1/4" chuck size.

Specifications:

Steel Capacity: 6" x 1 1/8" Hex (15.2 cm x 1 1/8" Hex)
Weight: 67 lbs. (30kg)
Length: 27" (68 cm)
Width: 16" (40 cm)
Connection Size: 3/8" Male Pipe Thread
Input Flow Range: 7 - 9 gpm (24 - 34 lpm)
Input Pressure: 1500 - 2000 psi (105 -140 bar)
Max. Back Pressure: 250 psi (17 bar)
Optimum Flow: 8 gpm (30 lpm)
Porting: 8 SAE O-ring
Connector: 3/8" Male Pipe Hose Ends

Stanley BR87 Breaker
STABR87



The BR87 breaker is the most powerful hand held underwater breaker on the market. Designed to run off a HTMA type II hydraulic circuit. Can be used by divers in any position. BR87 can be used for light to heavy concrete demolition, ideal for bridge demolition, heavy duty driving applications, and underwater applications.

Diaphragm accumulator provides trouble-free operation with system back pressures up to 250 psi (17 bar). The BR87 operates on an open-center system and is available in 1 1/8" chuck size.

Specifications

Steel Capacity: 6" x 1 1/8" Hex (15.2 cm x 1 1/8" Hex)
Weight: 80 lbs. (36kg)
Length: 27" (68 cm)
Width: 16" (40 cm)
Connection Size: 3/8" Male Pipe Thread
Input Flow Range: 7 - 9 gpm (24 - 34 lpm)
Input Pressure: 1500 - 2000 psi (105 -140 bar)
Max. Back Pressure: 250 psi (17 bar)
Optimum Flow: 8 gpm (30 lpm)
Porting: 8 SAE O-ring
Connector: 3/8" Male Pipe Hose Ends

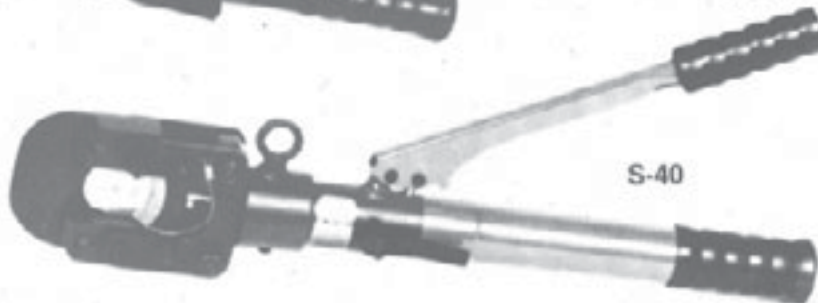
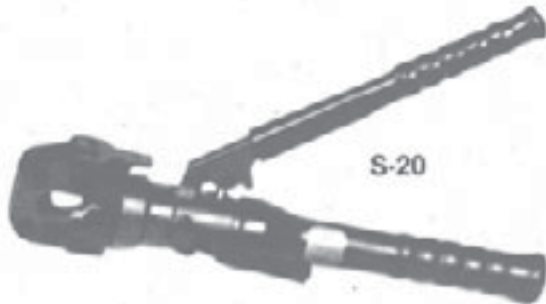
The three different models offer different options and accessories. The main tips are Standard Moil point, Standard Narrow Chisel, or the 3" Standard Chisel.

- | | | |
|------------------------|---------------------|-------------------------|
| * Clay Spades | * Pipe Driver | * Sign Post Driver |
| * Digging Chisels | * Asphalt Cutter | * Railroad Spike Driver |
| * Brick Removing Tools | * Bushing Tool | * Clay Pick |
| * Frost Wedge | * Saber Point | * Detachable Shank |
| * Asphalt Wedge | * Concrete Buster | * Ground Driver |
| * Keen Kuts | * Plug and Feathers | * Pin Driver |

Specialized Accessories







HAND HELD CUTTERS

Models S-20, S-40 & S-85 Cutters



Our popular hand held cutters have been available for over 30 years. Made of the toughest steels, they were built to last 20-30 years under normal cutting conditions. A single cutter replaces Acetylene torches, saws, chisels and hammer blow cutters. Most internal parts are interchangeable between models. Can be operated in any environment; including underwater. These cutters extremely portable, lightweight, and compact. Contact Aqua Tech for replacement blades and repair parts. Manufacturers literature by request.

6 Different Models For Your Specific Job Requirements.

MAXIMUM CUTTING CAPACITIES (shown in O.D.)		S-20	S-30	S-32	S-40	S-55	S-85
		Output 4.40 Tons Weight 6.4 lbs. Length 15-1/8" Handle heated to 20,000V	Output 4.40 Tons Weight 8 lbs. Length 18"	Output 19.84 Tons Weight 21 lbs. Length 26-3/4"	Output 6.38 Tons Weight 11.5 lbs. Length 22"	Output 13.12 Tons Weight 22 lbs. Length 24-3/4"	Output 3 Tons Weight 15.5 lbs. Length 26"
	5 x 7 Hempcore or IWRC	20mm or 3/4"	16mm or 5/8"	32mm or 1-1/4"	20mm or 3/4"	25mm or 1"	Do not cut
	6 x 12 Hempcore or IWRC	20mm or 3/4"	16mm or 5/8"	32mm or 1-1/4"	20mm or 3/4"	26mm or 1"	Do not cut
	6 x 19 Hempcore or IWRC	20mm or 3/4"	16mm or 5/8"	32mm or 1-1/4"	20mm or 3/4"	25mm or 1"	Do not cut
	Copper wire or bar	17mm or 11/16"	16mm or 5/8"	30mm or 1-1/8"	20mm or 3/4"	32mm or 1.25"	Do not cut
	Aluminum wire or bar	27mm or 1 1/16"	16mm or 5/8"	32mm or 1-1/4"	20mm or 3/4"	32mm or 1.25"	Do not cut
	Soft steel bolts	17mm or 11/16"	16mm or 5/8"	30mm or 1-1/4"	20mm or 3/4"	32mm or 1.25"	Do not cut
	Reinforcing bar	13mm or 1/2"	13mm or 1/2"	22mm or 7/8"	16mm or 5/8"	20mm or 3/4"	Do not cut
	Bare copper wire strands	20mm or 3/4"	16mm or 5/8"	32mm or 1-1/4"	37.7mm or 1.48"	50mm or 2"	41.5mm or 1.6"
	Bare aluminum wire strands	20mm or 3/4"	16mm or 5/8"	32mm or 1-1/4"	40.7mm or 1.60"	50mm or 2"	46.2mm or 1.8"
	ACSR	21mm or 25/32"	30mm or 1.18"	32mm or 1-1/4"	41.7mm or 1.62"	50mm or 2"	Do not cut
	Guy steel wire strands 1 x 7	14mm or 9/16"	13mm or 1/2"	22mm or 7/8"	16mm or 5/8"	20mm or 3/4"	Do not cut
	Guy steel wire strands 1 x 19	14mm or 9/16"	13mm or 1/2"	26mm or 1"	16mm or 5/8"	20mm or 3/4"	Do not cut
	Telephone cable CCP	Not recommended	Not recommended	Not recommended	Not recommended	Not recommended	85mm or 3.35"
	Lead sheathed cable (telephone cable)	Not recommended	Not recommended	Not recommended	Not recommended	Not recommended	85mm or 3.35"
	Underground cable (power)	18.2mm or 23/32"	30mm or 1.18"	Not recommended	41.7mm or 1.62"	50mm or 2"	85mm or 3.35"



WEBTOOL & SNAP-ON TOOLS



Aqua Tech is proud to be a Snap-on Tool Distributor for the U.S. Military, and U.S. Military Prime Vendor Programs. Snap-on has some of the best, and right tools for every job. Snap-on incorporates the latest technologies in material, safety, power, electronics, and ergonomics in all their product testing, design, and manufacturing. Snap-on also offers outstanding warranties, making Snap-on the choice of Military professionals everywhere.



WEBTOOL

HCV 100-RCV75

ROV Wire Rope & Cable Cutters

HCV 100



The HCV 100 and the RCV 75 cutters have been especially designed for sub-sea ROV use. They feature hydraulically powered anvil pins for remote actuation. This enables the ROV operator to capture and sever the cable or wire rope via the manipulator arm. Once the rope has been captured by the closing of the anvil pin, a hardened steel guillotine blade is hydraulically driven through the rope. The blade is then hydraulically returned and the anvil pin retracted for the next cut.

Every effort has been made, including the use of special alloys, to reduce weight in these designs and they are corrosion protected throughout.

The HCV 100 is designed for cutting armored telecom and power cables while the RCV 75 is suited for steel ropes up to 3" dia. hardened up to 250,000 psi uts.







MODEL	Hydraulic Pressure PSI	Cutting Cap. Inches	Oil Cap. Cu. Ins	Weight In Air Lbs	Height Inches	Width Inches	Depth
HCV 100	9280	4" cable	45	57	18.5	12	7
RCV 75	10,000	3" Wire	50	77	16.5	10.5	6.1
Anvil Pin Retraction Device	2750	-	3.5	Inc.	Inc.	Inc.	Inc.

The WEBTOOL® line of Hydraulic Sub-Sea Wire Rope & Cable Cutters offers a complete range of cutters to solve your every sub-sea cutting job from 7/8" thru 3 inch diameter. Contact Aqua Tech for complete Manufacturers Literature...

CENTRIFUGAL JETTING PUMPS

Free Standing Centrifugal Pumps

Keene Engineering free standing pumps are designed for any engine application. These heavy duty pumps can be direct or belt driven and are made of light aluminum and precision machined for dependability and maximum performance in the field.

							
MODEL NUMBER	ENGINE H/P	GALLONS PER MINUTE	MAXIMUM HEAD LIFT	SHAFT SIZE	PUMP INTAKE & DISCHARGE	PUMP WEIGHT	SHIPPING WEIGHT
P95	3	90	120	5/8"	1.50" X 1.25 SLIP	6	10
P135	3	125	125	5/8"	1.50" X 1.25" THREADED	8	13
P195	5	300	140	5/8"	2.5" X 2" THREADED	10	15
P288	8	350	170	1.00"	2.5" X 2" THREADED	15	20
P355S	8	450	110	1.00"	4" X 3" THREADED	10	23
P355S	16	550	150	1.00"	4" X 3" THREADED	10	24
P1500	50	1500	230	1 1/4"	5" X 4" THREADED	30	45

CENTRIFUGAL JETTING PUMPS AND ENGINES

Keene Centrifugal Jetting Pumps are designed for efficient dredging applications. Manufactured of lightweight high tensile aluminum alloy. All Keene pumps are precision machined and manufactured for performance and dependability in the field. The perfect match of engine and pump to suit any pumping application. All engines listed other than Volkswagen are equipped with manual recoil starters. All engines are constructed of lightweight aluminum alloy for maximum efficiency and portability in the field. Volkswagen Engines are rebuilt by skilled craftsmen and have a 1 year guarantee.

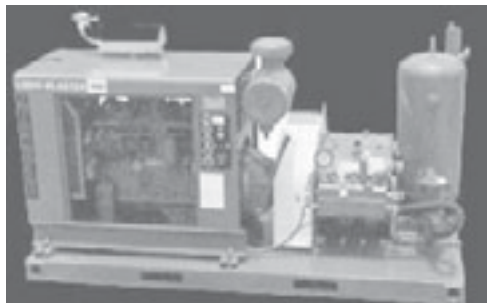


Engine Model	Pump Model	Engine Description	Pump Size	Maximum GPM/Head	Compressor Bracket/Belt	Pump Weight	Pump Shipp. Wt.	Eng/Pump Weight	Eng/Pump Shipp. Wt.	Series Model Dredge
P90G	P90	2hp Tecumseh	1 1/4 x 1 1/2	90/110	N/A	4 lbs.	6 lbs.	95 lbs.	15 lbs.	2000
P103	P100	3hp Briggs	1 1/4 x 1 1/2	125/125	N/A	5 lbs.	8 lbs.	28 lbs.	32 lbs.	2500
P165	P180	5hp Briggs	2 1/4 x 2	280/130	N/A	6 lbs.	9 lbs.	37 lbs.	41 lbs.	3000-4000
P185C	P180	5hp Briggs	2 1/4 x 2	280/130	T80/4L290	6 lbs.	9 lbs.	53 lbs.	69 lbs.	3000-4000
P185H	P180	5hp Honda	2 1/4 x 2	300/138	N/A	6 lbs.	9 lbs.	38 lbs.	44 lbs.	3000-4000
P185CH	P180	5hp Honda	2 1/4 x 2	300/138	T80/4L290	6 lbs.	9 lbs.	58 lbs.	69 lbs.	3000-4000
P288	P280	8hp Briggs	2 1/2 x 2	340/170	NA	10 lbs.	12 lbs.	57 lbs.	63 lbs.	4800
P288B	P280B	8hp Briggs	2 1/2 x 2	340/170	NA	12 lbs.	15 lbs.	60 lbs.	66 lbs.	4800
P288BC	P280B	8hp Briggs	2 1/2 x 2	340/170	T80/4L340	12 lbs.	15 lbs.	75 lbs.	80 lbs.	4800
P288H	P280	8hp Honda	2 1/2 x 2	340/170	N/A	10 lbs.	12 lbs.	60 lbs.	64 lbs.	4800
P288BH	P280B	8hp Honda	2 1/2 x 2	340/170	N/A	12 lbs.	15 lbs.	63 lbs.	70 lbs.	4800
P288BCH	P280B	8hp Honda	2 1/2 x 2	340/170	T80/4L340	12 lbs.	15 lbs.	79 lbs.	85 lbs.	4800
P289	P280	9hp Briggs	2 1/2 x 2	340/170	N/A	12 lbs.	15 lbs.	78 lbs.	86 lbs.	4800
P289B	P280B	9hp Briggs	2 1/2 x 2	340/170	N/A	12 lbs.	15 lbs.	80 lbs.	88 lbs.	4800
P289BC	P280B	9hp Briggs	2 1/2 x 2	340/170	T80/4L340	12 lbs.	15 lbs.	98 lbs.	105 lbs.	4800
P358	P350	8hp Briggs	4 x 3	400/100	N/A	13 lbs.	16 lbs.	60 lbs.	66 lbs.	5000/6000/8200
P358B	P350B	8hp Briggs	4 x 3	400/100	N/A	16 lbs.	18 lbs.	63 lbs.	69 lbs.	5000/6000/8200
P358BC	P350B	8hp Briggs	4 x 3	400/100	T80/4L340	16 lbs.	18 lbs.	90 lbs.	112 lbs.	5000/6000/8200
P358H	P350	8hp Honda	4 x 3	400/100	N/A	13 lbs.	16 lbs.	63 lbs.	67 lbs.	5000/6000/8200
P358BH	P350B	8hp Honda	4 x 3	400/100	N/A	13 lbs.	18 lbs.	65 lbs.	73 lbs.	5000/6000/8200
P358BCH	P350B	8hp Honda	4 x 3	400/100	T80/4L340	16 lbs.	18 lbs.	98 lbs.	115 lbs.	5000/6000/8200
P359	P350	9hp Briggs	4 x 3	450/100	NA	16 lbs.	18 lbs.	81 lbs.	90 lbs.	5000/6000/8200
P359B	P350B	9hp Briggs	4 x 3	450/100	NA	16 lbs.	18 lbs.	82 lbs.	87 lbs.	5000/6000/8200
P359BC	P350B	9hp Briggs	4 x 3	450/100	T80/4L340	16 lbs.	18 lbs.	99 lbs.	108 lbs.	5000/6000/8200
P3511HE	P350S	11hp Honda	4 x 3	475/110	N/A	14 lbs.	19 lbs.	122 lbs.	150 lbs.	5000/6000/8200
P3511HEC	P350S	11hp Honda	4 x 3	475/110	263/4L390	17 lbs.	21 lbs.	126 lbs.	153 lbs.	5000/6000/8200
P316V	P350S	16hp Briggs	4 x 3	550/150	N/A	17 lbs.	21 lbs.	80 lbs.	89 lbs.	6000/8200
P316VC	P350S	16hp Briggs	4 x 3	550/150	263/4L390	17 lbs.	21 lbs.	118 lbs.	155 lbs.	6000/8200
P316VE	P350S	16hp Briggs	4 x 3	550/150	N/A	17 lbs.	21 lbs.	122 lbs.	130 lbs.	6000/8200
P316VCE	P350S	16hp Briggs	4 x 3	550/150	263/4L390	17 lbs.	21 lbs.	125 lbs.	160 lbs.	6000/8200
P1500VE	P1500V	1600CCVW	5 x 4	1400/188	N/A	35 lbs.	44 lbs.	266 lbs.	321 lbs.	8000
P1500VEC	P1500V	1600CCVW	5 x 4	1400/188	2x263/4L310	35 lbs.	44 lbs.	321 lbs.	366 lbs.	8065
P1500VECP	P1500V	1600CCVW	5 x 4	1400/188	2x263/4L110	35 lbs.	44 lbs.	350 lbs.	400 lbs.	8070

Pumps, Blasting

Gardner Denver® BLASTING PUMPS

Gardner Denver 100 X Series



Single speed, 100 hp, 75 kW, T-300 M or H Pump

Unit	PSI	Bar	Flow gpm/lpm	Plunger in./mm
108X	8000	552	18.4/70	1.00/25
110X	10000	690	16.4/62	0.945/24
112X	12000	828	14.1/53	0.875/22
115X	15000	1034	10.3/39	0.750/19
120X	20000	1379	7.7/29	0.650/17

Gardner Denver 600 Series



Single speed, 150 hp, 112 kW, T-375 M or H Pump

Unit	PSI	Bar	Flow gpm/lpm	Plunger in./mm
605	5000	345	43.0/163	1.5/38
607	7000	483	32.9/125	1.312/33
608	8500	587	27.0/102	1.187/30
610	10000	690	21.6/82	1.062/27
615	15000	1034	17.1/65	0.945/24
620	20000	1379	11.9/45	0.787/20

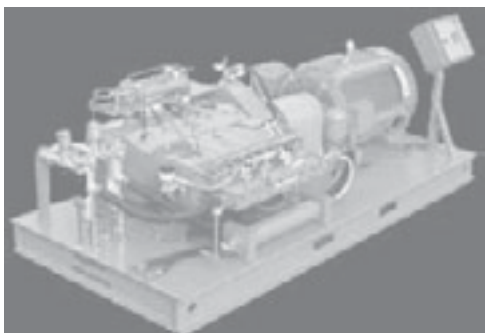
Gardner Denver 800 Series



Single speed, 250 hp, 186 kW, T-450 M or H Pump

Unit	PSI	Bar	Flow gpm/lpm	Plunger in./mm
807	7500	517	51.6/195.4	1.5/38
810	10000	690	39.5/149.6	1.312/33
815	15000	1034	25.9/98.1	1.062/27
820	20000	1379	17.6/66.6	0.945/24

Gardner Denver 1000 Series



Single speed, 500 hp, 3738 kW, QE-450 M or H Pump

Unit	PSI	Bar	Flow gpm/lpm	Plunger in./mm
1005	5000	345	153/579	2.00/51
1010	10000	690	86/326	1.50/38
1015	15000	1034	54/204	1.18/30
1020	20000	1379	43/163	1.06/27

ZERO THRUST BLASTING GUN

LIQUA-BLASTER UNDERWATER GUN ACCESSORIES



Abrasi-Jector®—Injects abrasive into high pressure water stream for tough cleaning jobs.



Automatic Throttle Control—Automatically coordinates engine speed with preset pressure.

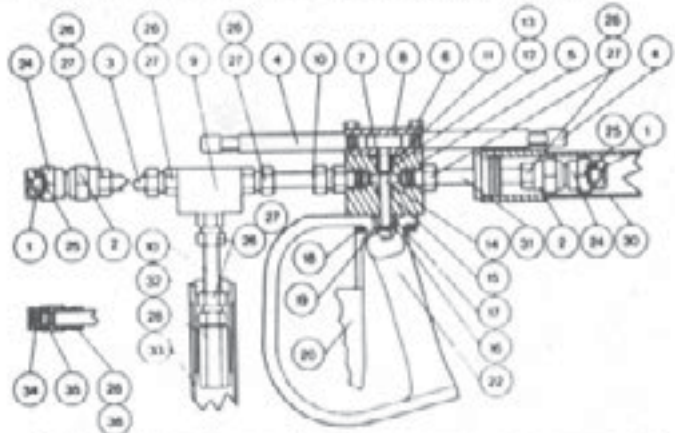


High Pressure Hose—To 64,000 psi burst pressure.



20 K, Model #31-09300-424

Back thrust is eliminated through the addition of an opposing jet while the operator is protected by a perforated aluminum tube. Applications include blasting on scaffolding and in underwater areas where higher working pressure is required without compromising operator safety. Standard equipment includes flex grip trigger, trigger guard and hose shroud for added safe operation. All connections are 1/16" slimline (MP). Weight: 15 lbs.; overall length: 73"; nipple length: 48"; inlet connection: 1/16" MP; outlet connection: 1/16" MP.

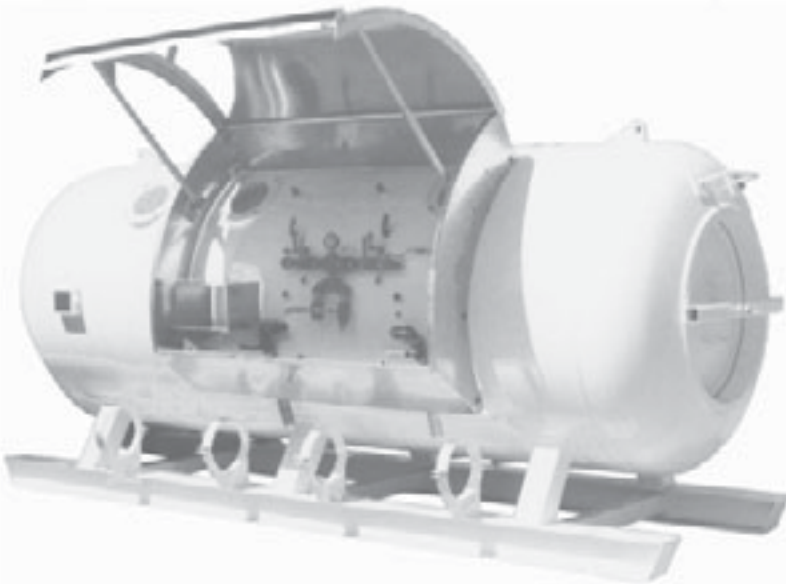


ITEM	QTY.	PART NUMBER	DESCRIPTION
1	2	43-000XX-XXX	TC Nozzle (specify flow, pressure & pattern)
2	2	31-09333	Nozzle Adapter
3	1	36-10027-012	Front Nipple
4	2	31-09321	Dump Tube
5	1	36-20265	Valve Body
6	4	15-20202	Hex Head Bolt
7	1	31-09317	Valve Seat
8	1	31-09371-001	Dump Plate
9	1	36-10009	Tee
10	2	36-10027-006	Nipple
11	1	22-17057	Dump Plate "O" Ring
12	1	22-17056	Valve Seat Back Up Ring
13	1	22-17055	Valve Seat "O" Ring
14	1	31-09372	Valve
15	1	22-09375	Valve Seat
16	1	25-08215-030	Valve Spring
17	1	31-09350	Rubber Boot
18	4	15-15148	Hex Socket Bolt
19	1	15-15135	Trigger Pin
20	1	31-09345-002	Trigger
22	1	31-09706-002	Pistol Grip
24	2	31-09332	Nozzle Cap
25	2	22-09212	Nozzle "O" Ring
26	8	36-10020	1/16" MP Collar
27	8	36-10021	1/16" MP Gland & Collar
28	1	36-10083	1/16" MP Coupling
29	1	28-32203	Patent Label (not shown)
30	1	31-09341	Baffle Tube
31	1	36-20266	Nozzle & Baffle Tube Adapter
32	1	10-10014	Hose Shroud Gland
33	1	10-10020-001	Hose Shroud
OPTION			
34	2	43-44000-XXX	Sapphire Nozzle (specify flow & pressure)
35	2	35-30017	Nozzle Holder
36	2	35-10076	Gland Nut

BUTTERWORTH

54" HYPERBARIC CHAMBER

Hyperbaric Chamber



Aqua Tech will manufacture to your specifications or ours.

Chambers available in 54", 60" & 72" diameters....

All chambers manufactured to the latest PVHO-1, ASME Codes for Human Occupancy.

Design Pressure is 130 psi. Hydrotest Pressure to 195 psi.

Aqua Tech supplies Chamber equipment to companies World-wide.

Halocarbon Oils, Greases, and Waxes

Nitrox, High Pressure compressed air systems, Hyperbaric Chambers have been used with Halocarbon oils and Greases. Halocarbon's lubricants meet both the ASTM oxygen compatibility standards and the European EN ISO standard for compatibility.

25-5S Grease has a low Vapor pressure. There also a 25-5SI, which has a rust inhibitor. Service Temperature for 25-5SI is 0-250 degrees F..

25-5S Grease Data

- * NLGI: 3
- * ASTM Penetration: 220-250
- * Service Temperature: 0-350 degrees F.
- * Min. Drop Melting Point: None

Please Contact Aqua Tech for Any Specifications or Questions



SPECIFICATIONS

- Built to P.V.H.O.-1 and ASME/ANSI Safety Standard for Pressure Vessels for Human Occupancy
- Diameter Inside: 54 inch (137cm)
- Length: 12 feet Over-all (365.8cm)
- Inner Lock: 6 feet (183cm) Seam to Seam
- Transfer Lock (outer Lock): 4 feet (122cm)
- Design Working Pressure: 130 psi (9.14 kg/cm²). Hydro-Tested to 195 psi (13.71 kg/cm²)
- Design Max. Temperature: 125°F (51.7°C)
- Weight: Approx. 5500 lbs. (2495 kg) (bare)
- Manways (hatches): 2 ea 30 inch (76.2 cm) inside diameter with double pivot hinges & stainless steel hinge pins mounted on bronze bushings.
- View Ports: 4 each 8 inch inside dia. (20.32 cm)
- Through Hull Penetrators: 22 (316) Stainless Steel 1/4 inch (.64 cm) Thru 1 inch (2.54 cm)
- Paint: 3-5 mils Inorganic Zinc with Epoxy Top Coat
- Lifting Eyes: 2
- Skid Mounted
- Equalization Penetrator between locks
- Head Material: SA-516 GD. 70
- Hull Plate: SA-516 GD. 70

Optional Features

- Plumbing: All Exterior 250 psi (17.58 kg/cm²) Brass, includes air silencers & supply-line check valves
- Gauges, Exterior & Caisson (interior)
- Deck Plates: Diamond Plate Aluminum (removable)
- Bunk Frame for inner lock
- Mattresses, Flame-Proof
- Cover, Control Panel: Aluminum to protect the tenders work area and plumbing
- Breathing Masks, Standard Oxygen
- Breathing Masks, Overboard Dump (Scott or Ultra-Lite)
- Lighting
- Hand Phones, Sound Powered (3 required)
- Bottle Racks: Mounted on skids (2 or 4) for Emergency Air Back-Up. Designed for 3600 psi x 360 cu.ft. free air

Because of varying engineering standards and our constant up-grading of products Aqua Tech reserves the right to change specifications without notice.

CHAMBER CLOTHING

DURETTE® fabrics were developed to provide maximum fire protection coupled with good overall textile properties. These fabrics have found widespread acceptance in a variety of hazardous environments. DURETTE® fabrics have been used by NASA in the Apollo, Skylab and Columbia programs. It is the only fabric approved by the U.S. Navy and many International Safety Organizations for use in Hyperbaric Chambers.

APPLICATIONS

- Diving Hyperbaric Chamber bedding and clothing.
- Hospital Intensive Care and Hyperbaric Chamber clothing and bedding.
- Industrial uniforms and gloves for use by welders, steelworkers, chemical plant operators, explosives and fuel handlers.
- Fire fighting coats and proximity suits.
- Aircraft flight-suits and ground crew uniforms.
- Race Driver suits, coveralls, underwear and gloves.
- Industrial filters.

FIRE RESISTANT PROPERTIES

DURETTE® style 400-2

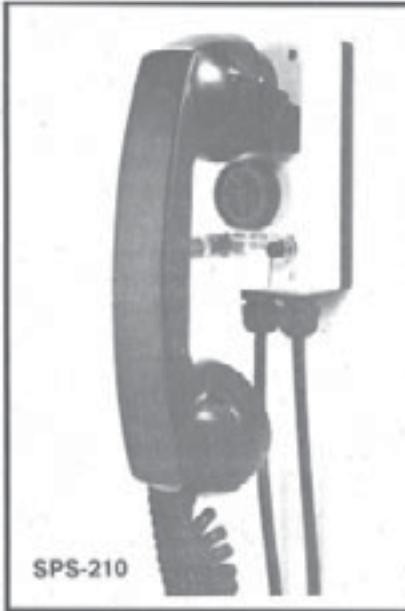
TYPICAL PROPERTIES:

Oxygen Index (per ASTM D 2863-70)		38
Vertical Burn: (per AATCC Test No. 34-1969)		
	Ignition Time	
	12 sec.	60 sec.
After Flame, sec.	0	0
After Glow, sec.	4	7-8
Char Length, inches	1.2-1.3	1.5
Horizontal Burn Through, sec.: (per Fed. Spec. CCC-T-19 Lb.)		22-30
Shrink Force:		
10 mins. @ 400°C		0-Does Not Melt
Heat Transfer:		
Back Face Temp. °F @ 10 sec. (per Holsten-Rives Test)		156°F

Description

Description	Aqua Tech Order No.
• Blankets: *	FSP01
Soft DURETTE® fabric, Needle Punch. Size approximately 54 inches x 96 inches (137 cm x 244 cm).	
• Quilts: *	FSP02
One layer of Needle Punch covered on both sides with plain weave fabric, quilted.	
• Sheets: *	FSP05
DURETTE® plain weave fabric. The sheets are approximately 54 inches x 96 inches (137 cm x 244 cm).	
• Pillows: *	FSP06
Fire resistant filler with a DURETTE® cover approximately 18.5 inches x 22 inches (47 cm x 56 cm).	
• Pillow Slips: *	FSP06A
DURETTE® plain weave. Slips are sized to fit our pillows but can be special ordered to your sizes.	
• Mattresses: *	FSP04
Consist of 2 four inch (10.16 cm) thick layers of approved fire resistant foam covered with DURETTE® fabric. Standard size is 72 inches x 24 inches (182.88 cm x 61 cm) Mattresses can be made to the shape or size you require.	
• Mattress Foam only: *	FSP04A
Cover not included	
• Mattress Jackets: *	FSP03
DURETTE® fabric with a snap opening on one end to allow easy removal and installation on the mattress. All are made to fit your requirements.	
• Coveralls: *	FSP08
DURETTE® fabric with snaps up the front, two pockets on the chest, front waist pockets and two rear pockets. They are available in any size, small, medium and large are carried in inventory.	
• Warm-Up Suits:	FSP14
DURETTE® 1 x 1 rib knit. The shirts are long sleeve with turtle necks. Pants have cuffed legs with a tie waist band. These are great for cold weather or just as a light weight warm-up. Available in small, medium and large.	
• Robes: *	FSP07
DURETTE® fabric with large laped collar, waist tie and pockets on each side of the robe.	
• T-Shirts:	FSP09
DURETTE® 1 x 1 rib knit with standard crew neck and short sleeves. Available in small, medium and large.	
• Shorts:	FSP10
DURETTE® 1 x 1 rib knit, with fly and heavy waist band.	
• Swim Trunks:	FSP12
DURETTE® 1 x 1 rib knit.	
• Towels:	FSP13
• Wash Cloth: DURETTE® 1 x 1 rib knit.	FSP18
• Pajamas:	FSP20
DURETTE® fabric. The top from Aqua Tech, is a pull-over long sleeve shirt with a V-neck. Pants have a tie-waist and snap-fly.	
• Pajama Top:	FSP20A
• Pajama Bottom:	FSP20B
• Jumper: DURETTE® fabric.	FSP15
• Foot Covers/Slippers:	FSP11
DURETTE® woven fabric.	
• Handkerchief:	1-dozen FSP16
DURETTE® light weight.	
• Laundry Bag:	FSP21
• Canvas Bag:	
DURETTE® Duck. Great for carrying tools or clothing items. Closes with a snap top opening.	
• Johnny Coat:	FSP19
For X-Large sizes add XL after the Item Number	
* Items normally carried in stock (others can be special ordered)	

TELEPHONE / ACCESSORIES



SPS-210

The SPS-210 wall-mounted Intercom Station, consisting of a sound powered handset and a battery powered signal, provides reliable communications over distances up to five miles, using a single pair of wires.

The SPS-300 Field Telephone is a portable version of the same station.

Both use a very low drain signal providing for long battery life, usually in excess of two years. The carry-case for the SPS-300 is water-proof.

These telephones are common-talk, common-ring. They may be used as pairs or hooked up in parallel to a practical limit of six stations. Frequently the SPS-210 is used as a central station connected to a string of jack boxes into which the SPS-300 may be plugged. The stations present no shock hazard and emit no radio frequency interference.



Sound Powered Receiver

The push button, (PB), is equivalent to a hang-up switch. The suffix PTT designates push-to-talk (if activates the transmitter) the receiver is always on.

DESCRIPTION	MODEL No.
PB, coiled cord, plug	SP1-650 BP
PB, coiled cord, clips	SP1-650 11C
PB, straight cord, plug	SP1-650 5P
PB, straight cord, clips	SP1-650 5C
PB, coiled cord, plug, PTT	SP1-652 BP
PB, straight cord, plug, PTT	SP1-652 5P
Models are available from Aqua Tech with-out the push button, (W/O-PB). Armored cable (AR) models terminate in tinned wires.	
W/O-PB, coiled cord, plug	SP1-625 BP
W/O-PB, coiled cord, clips	SP1-625 5P
W/O-PB, straight cord, plug	SP1-625 5P
W/O-PB, straight cord, clips	SP1-625 5C
W/O-PB, armored cable	SP1-625 AR

Sound Powered Handset
U.S. NAVY Approved
Aqua Tech Order No...H 203/U



Locking Type Mounting Hook for Sound Powered Phones
Aqua Tech Order No.....A-281

Extension Cord

Two-conductor cord with 1/4" phone plug on one end, extension jack on the other. Use with jumper cords, jack plate, or junction box.

Length	Model
12'	EC-12
25'	EC-25
50'	EC-50
100'	EC-100



Jumper Cord

Extension jack at each end. Used between plug equipped voice-powered units.

Length	Model
12'	JC-12
25'	JC-25
50'	JC-50
100'	JC-100



Clip Adaptor

Converts voice-powered units with phone plugs to split leads with alligator clips.

Model J-CL



Take-Up Reel

With 400 feet of cable—and 2 jacks. Gets cable up and out of the work area. Adaptor converts either end to plug. Model SPS-610-B



Handset Cradle—Heavy Duty

Black ABS Plastic

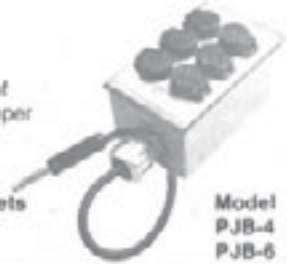
Model	Description
1905-000	Mounting Holes Accessed From Rear
1905-001	Drilled And Counter-sunk for Front Mounting
1905-100	Same As 1905-000 Except With 2 SPDT Switches
1905-101	Same As 1905-001 Except With 2 SPDT Switches



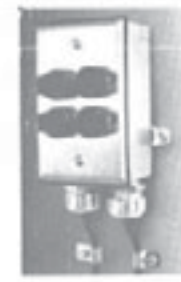
Pig-Tail Jack Box

Use at the end of extension or jumper cords.

No. of Outlets
4
6



Model
PJB-4
PJB-6



Jack Box

Stainless faceplate, waterproof jack covers and cable grips, cast aluminum box. Mount on wall, or use portably.

No. of Outlets	Model
1	WJB-1
2	WJB-2
4	WJB-4
6	WJB-6

Jack Plate

One-gang brushed stainless steel wallplate with waterproof jack covers, gaskets and leads. Fits standard electric box.

No. of Outlets	Model	1	2	4	6
Model	JP-1	JP-2	JP-4	JP-6	



POROUS METAL FILTER & MUFFLER

Porous Metal Filter & Muffler

MALE PIPE THREAD CONNECTION



FM TYPE—MODEL P
1/4" to 2" MNPT

Selective Permeability . . . Optimum Filtering and Diffusion for Air, Fuels, and Other Liquids . . . Disperses Noise

Tough, cellular sintered metal structure, securely brazed to metal ferrule, provides desirable combination of strength and performance.

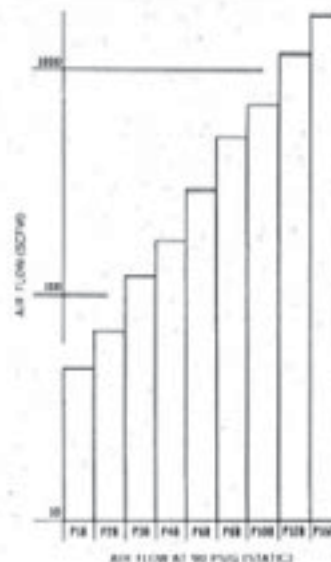
PM Type units are effective for many applications including the muffling of air valve noise; exhaust and intake filtering; cryogenic phase separation; coalescing of oil mist, water vapor, etc.; pressure or vacuum equalization; and many others.

Compact and inexpensive, they are easy to install and maintain. Particularly suitable where space is limited.

Furnished with std. male pipe thread connections, MNPT.

SPECIFICATIONS PM TYPE — MODEL P

MODEL	P18	P28	P38	P48	P58	P68	P78	P128	P168
Connection	1/4"	1/4"	1/2"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Overall Length	1 7/8"	1 7/8"	1 7/8"	1 7/8"	2 1/8"	2 1/8"	3 1/8"	4"	4 1/8"
Max	1/2"	1/2"	1 1/4"	1/2"	1 1/4"	1 1/4"	1 1/4"	2"	2 1/8"



Aqua Tech stocks Air Silencers



Air Exhaust Muffler (Atomuffler)
Controls noise on all compressed air equipment.



Speed Control Muffler. Controls cylinder speed and reduces noise. Non-removable micrometer screw adjustment for precise metering of air flow. Low cost—Wide range of sizes.



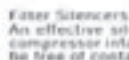
Micro-Minature Muffler
Designed for pneumatic circuit applications, speed control is an added feature.

THERE'S AN



Bantam Muffler
The most economical, smallest size muffler in its class.

Aqua Tech



Filter Silencers.
An effective silencer and filter for compressor intakes where air must be free of contamination.



Air Ejector Muffler
If you use air to eject parts and cannot sacrifice ejection force, but need noise control, this is the answer.

MUFFLER



End Flow
This is your muffler if you are squeezed for space and need positive end flow exhaust and quiet operation at low cost.

THAT'S



Porous Metal
Ultra small and fits anywhere.

JUST RIGHT



NADIR SOUND SILENCERS

ISI Nadir® Sound Silencers

Nadir® Silencers from Aqua Tech provide the industry with a silencer to meet all requirements...size, flow and price-and still meet OSHA standards.

FEATURES

- Meets all OSHA Standards
- Easily Cleaned for Long Life
- Machined from High Tensile Aluminum with no Plastics or Castings!
- Will Pass Particles to 100 Microns
- Can withstand Temperatures of 1000° F

Flow/Standard Cubic Feet/Minute (SCFM)

Open Line Flow @ 90 P.S.I.

ISI Model	N.P.T.	40	50	60	70	80	90	100
MF18M*	1/8	29	36	42	48	54	60	65
MF14M*	1/4	48	57	68	77	89	152	107
MF14	1/4	81	98	112	130	143	152	175
MFT38	3/8	89	101	118	137	150	256	168
MF38	3/8	120	145	172	198	220	256	273
MFT12	1/2	128	151	179	202	229	407	255
MF12	1/2	155	190	222	265	320	407	340
MFT34	3/4	162	197	228	272	330	679	349
MF34	3/4	266	324	379	432	499	679	569
MFT1	1"	272	330	389	440	507	679	580
MF-100	1"	475	584	692	801	905	1130	1017
MFT114	1 1/4	534	645	763	889	1003	1139	1138
MF-114	1 1/4	756	926	1108	1275	1433	1910	1609
MF-112	1 1/2	1077	1308	1650	1867	2130	2611	2382
MFT200	2"	1178	1485	1750	2004	2234	2611	2521



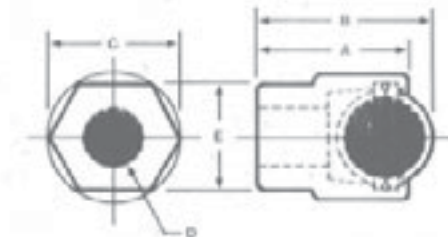
Contact Aqua Tech for all Piping and Silencer requirements. We carry much more than is shown in our catalog. Call and if we don't have it we will find it.

*Miniature with male thread

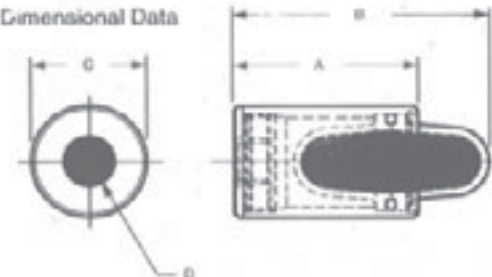
DIMENSIONAL DATA

ISI Model	A BARRELL LENGTH	B OVERALL LENGTH	C DIA.	D THREAD	E FLATS
MF18M*	1/2	1	1/2	1/8NPT	7/16
MF14M*	21/32	1-5/16	5/8	1/4NPT	9/16
MF14	1-15/32	1-15/16	1-1/4	1/4NPT	1-5/32
MFT38	1-15/32	1-15/16	1-1/4	3/8NPT	1-5/32
MF38	1-3/4	2-5/16	1-1/2	3/8NPT	1-1/4
MFT12	1-3/4	2-5/16	1-1/2	1/2NPT	1-1/4
MFT34	1-7/8	2-5/8	1-3/4	3/4NPT	1-1/2
MF34	3-5/16	4-7/8	2-3/8	3/4NPT	
MFT1	3-5/16	4-7/8	2-3/8	1"NPT	
MF100	4-3/8	6-1/2	3	1"NPT	
MFT114	4-3/8	6-1/2	3	1-1/4NPT	
MF114	5-9/16	8-11/32	4	1-1/4NPT	
MFT112	5-9/16	8-11/32	4	1-1/2NPT	
MF112	6-1/2	9-7/8	4-1/2	1-1/2NPT	
MFT200	6-1/2	9-7/8	4-1/2	2"NPT	

Dimensional Data



Dimensional Data



KINGSTON® PRESSURE RELIEF VALVES



“KINGSTON”

ASME • NATIONAL BOARD CERTIFIED
SAFETY VALVES



Kingston ASME Code, National Board Certified Safety Valves are designed to protect un-fired pressure vessels from over pressure. Care must be taken to properly size each valve to meet the operating conditions of the system on which it is to be installed. Major considerations are, compressor capacity, operating pressure, temperature, tank design, environmental conditions and potential hazards. Maximum operating temperature, 250°F (121°C). Application and Installation information can be found on page three of this bulletin.



FIG. 110C



FIG. 112C



FIG. 114



FIG. 115



FIG. 118C



FIG. 119C

Fig. 110C 1/4" & 3/8" MPT only. Construction is of cast bronze body, machined brass stem with stainless steel ball, seating on a precision machined stainless steel seat. Equipped with a protective stem cover and manual test lever. Pressure settings 25 to 600 PSIG. Approved in Massachusetts and Washington D.C. Canadian registration.

Fig. 112C 1/4", 3/8" & 1/2" MPT sizes. All brass construction with chrome steel ball on a precision machined brass seat. (Stainless steel ball available. Specify Fig. 112CSS) Pull Ring for manual testing. All stainless steel construction available in 1/4" size only. Specify "All Stainless". Pressure settings, 25 to 300 PSIG. Canadian Registration.

Fig. 114 1/4", 3/8", 1/2", 3/4" & 1" MPT. Construction is brass with a Viton seat for maximum seat tightness through the pressure range. Equipped with a protective stem cover and manual test lever. Pressure settings on 1/4" size 25 to 300 PSIG, 3/8" and 1/2", 25 to 275 PSIG, 3/4 and 1", 25 to 250 PSIG. Approved in Massachusetts and Washington D.C. Canadian Registration.

Fig. 115 1/4", 3/8" & 1/2" only. Construction and performance the same as Fig. 114, with exception of having a pull ring for manual testing.

Fig. 118C 1/4", 3/8", 1/2", 3/4" & 1" MPT. High capacity design. Construction is brass with a chrome steel ball on a precision machined brass seat. (A stainless steel ball is available on 1/4", 3/8" & 1/2" sizes. Specify Fig. 118CSS.) Equipped with a pull ring for manual test. Pressure settings from 25 to 300 PSIG.

Fig. 119C 1/4", 3/8", 1/2", 3/4" & 1" MPT. High capacity design, the same performance and basic design as Fig. 118C, with the exception of the lever for manual testing, and a protective cap over the valve stem. Approved in Massachusetts and Washington D.C.

TO ORDER SPECIFY:

1. Figure Number 2. Pipe Size 3. Pressure Setting

NOTE: Pressure Settings Available Other Than Those Listed.

Aqua Tech Stocks "The Most Popular Relief Valves" Used in the Diving Industry

KINGSTON® VERTICAL CHECK VALVES

"KINGSTON® VERTICAL CHECK VALVES



Fig. 224A

F.P.T.	M.P.T.
3/8" x 1/2"	
1/2" x 3/4"	
3/4" x 3/4"	
3/4" x 1"	
1" x 1"	
1 1/4" x 1 1/4"	
1 1/2" x 1 1/2"	

Fig. 224A

FIG. 224A

- 224A-1 Valve Body
- 224A-2 Spring Cage
- 224A-3 Disc
- 224A-4 Spring

These spring loaded check valves are constructed along established Kingston lines of highest quality material and workmanship. They give long efficient service with minimum maintenance required.

Valve bodies, spring seats and spring cages are brass. Springs are of stainless steel.

Maximum working pressure 400 psig.

Fig. 224A & 225A – Are designed to screw directly into compressor air receivers or other apparatus. These provide positive non-return or back flow on air and gas service. Seat disc material is of Teflon. A side outlet of 1/8" N.P.T. is provided on Figure 225A, this may be used as connection port to pressure switch unloader systems or test valve for air brake systems. Maximum temperature 350°F (177°C).

Fig. 226A – Inline check valves are for use on air or light liquid service. Seat disc is of Teflon material. The 1/8" N.P.T. port may be used as line connection to pressure switch unloader system or inspection test valve.

Maximum temperature is 350°F (177°C).

Fig. 226 – Inline check valves are the same configuration as Fig. 226A, except without the unloader port. Standard seat disc is of bonded Buna-N material, Teflon is available on request. These valves operate equally well in vertical or horizontal position.

Maximum temperature is 200°F (93°C).



Fig. 225A

F.P.T.	M.P.T.
3/8" x 1/2"	
1/2" x 1/2"	
1/2" x 3/4"	
3/4" x 3/4"	
3/4" x 1"	
1" x 1"	
1 1/4" x 1 1/4"	
1 1/2" x 1 1/2"	

Fig. 225A

FIG. 225A

- 225A-1 Valve Body
- 225A-2 Spring Cage
- 225A-3 Disc
- 225A-4 Spring



Fig. 226

F.P.T.	F.P.T.
1/4" x 1/4"	
3/8" x 3/8"	

Fig. 226

FIG. 226

- 226-1 Valve Body
- 226-2 Disc
- 226-3 Spring
- 226-4 Snap Ring
- 226-5 Spring Seat
- 226-6 Bushing

When Ordering Parts, from Aqua Tech, Please Specify:

- (1) Quantity Needed
- (2) Figure Number..
- (3) Part Number.....
- (4) N.P.T. Size.....

Example:

Need: 3ea. Pt. No. 226-1(Valve Body) In 1/4". ORDER:

PART # 3-226-226-1-1/4"



Fig. 226A

F.P.T.	F.P.T.
1/4" x 1/4"	
3/8" x 3/8"	
1/2" x 1/2"	
3/4" x 3/4"	

Fig. 226A

FIG. 226A

- 226A-1 Valve Body
- 226A-2 Disc
- 226A-3 Spring
- 226A-4 Snap Ring
- 226A-5 Spring Seat
- 226A-6 Bushing

KINGSTON® CHECK VALVES

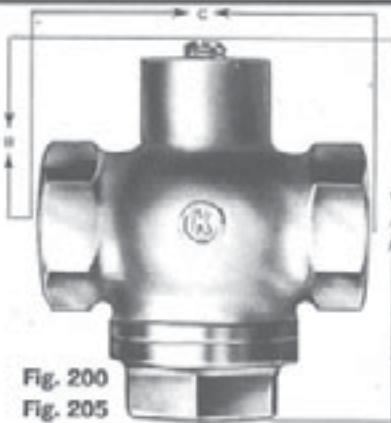


Fig. 200
Fig. 205

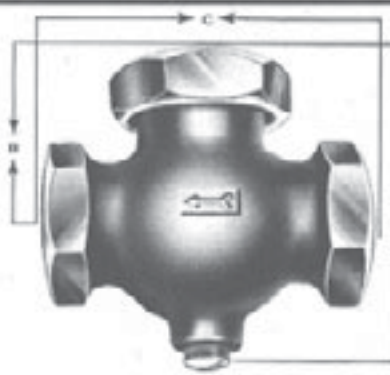


Fig. 215

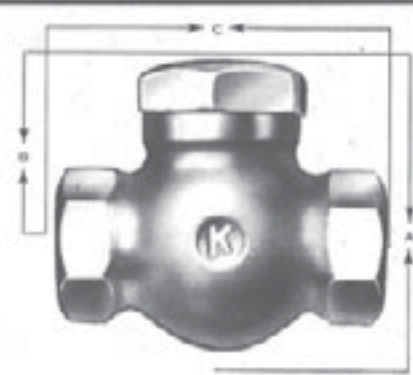


Fig. 216

Aqua Tech Ordering Information

Fig. No.	N.P.T. SIZES						
200	1/4"	3/8"	1/2"				
205	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"
215	1/4"	3/8"	1/2"	3/4"			
216	1/8"	1/4"					

FIG.	SIZE	A	B	C	WEIGHT
200	1/4"	2-7/8"	1-13/32"	2-3/16"	11 oz.
200	3/8"	2-5/8"	1-7/16"	2-3/8"	13 oz.
200	1/2"	2-7/8"	1-1/2"	2-5/8"	1# 3 oz.
205	1/4"	2-7/8"	1-13/32"	2-3/16"	11 oz.
205	3/8"	2-5/8"	1-7/16"	2-3/8"	13 oz.
205	1/2"	2-7/8"	1-1/2"	2-5/8"	1# 3 oz.
205	3/4"	3-13/16"	1-27/32"	3-3/16"	2#
205	1"	4-1/8"	2-1/8"	3-15/16"	4#
205	1-1/4"	4-15/16"	2-1/2"	4-1/2"	5#
205	1-1/2"	4-15/16"	2-1/2"	4-1/2"	4# 12 oz.
205A	2"	5"	2-7/16"	5-3/16"	7# 2 oz.
215A	1/4"	1-5/16"	13/16"	1-3/4"	4 oz.
215A	3/8"	2-5/16"	1-5/16"	2-1/2"	11 oz.
215A	1/2"	2-11/16"	1-3/8"	2-3/4"	14 oz.
215A	3/4"	3"	1-5/8"	3-1/8"	1# 4 oz.
216	1/4"	1-13/16"	1-3/16"	1-31/32"	6 oz.

PARTS LIST

FIG. 200		N.P.T. SIZE
200-1	BODY	1/4" 3/8" 1/2"
200-2	CAP	1/4" 3/8" 1/2"
200-3	PLUNGER	1/4" 3/8" 1/2"
200-4	SPRING	1/4" 3/8" 1/2"
200-5	DISC	1/4" 3/8" 1/2"
200-6	CAGE	1/4" 3/8" 1/2"
200-7	PLUNGER NUT	1/4" 3/8" 1/2"
200-8	PLUNGER ASSEMBLY	1/4" 3/8" 1/2"
200-9	PIPE PLUG	1/4" 3/8" 1/2"
200-11	DISC "O" RING	1/2"

FIG. 205		N.P.T. SIZE
205-1	BODY	1/4" 3/8" 1/2" 3/4" 1" 1-1/4" 1-1/2" 2"
205-2	CAP	1/4" 3/8" 1/2" 3/4" 1" 1-1/4" 1-1/2" 2"
205-3	PLUNGER	1/4" 3/8" 1/2" 3/4" 1" 1-1/4" 1-1/2" 2"
205-4	SPRING	1/4" 3/8" 1/2" 3/4" 1" 1-1/4" 1-1/2" 2"
205-5	DISC	1/4" 3/8" 1/2" 3/4" 1" 1-1/4" 1-1/2" 2"
205-6	CAGE	1/4" 3/8" 1/2" 3/4" 1" 1-1/4" 1-1/2" 2"
205-7	PLUNGER NUT	1/4" 3/8" 1/2" 3/4" 1" 1-1/4" 1-1/2" 2"
205-8	PLUNGER ASSEMBLY	1/4" 3/8" 1/2" 3/4" 1" 1-1/4" 1-1/2" 2"
205-9	PIPE PLUG	1/4" 3/8" 1/2" 3/4" 1" 1-1/4" 1-1/2" 2"
205-10	CAGE WASHER	1-1/4" 1-1/2" 2"
205-11	DISC "O" RING	1/2" 3/4" 1" 1-1/4" 1-1/4" 2"

APPLICATION NOTES

Fig. 205 – Spring loaded dash pot check valves are designed to cushion the closing action of the valves. This overcomes the noise and hammering evident in many check valves.

The Fig. 205 valves are field tested and highly recommended for long wear and hard use.

Construction is of precision machined cast brass with teflon seat disc contained in a plunger cage.

On compressor check valve applications, a 1/8" NPT unloader port is provided for line installation. The valves are provided with ports plugged.

Fig. 205 – Check valves should not be used on liquid or steam systems or on oil-less or oil-free compressors.

It is recommended that the Fig. 205 always be mounted in a horizontal position with the 1/8" NPT port in the "up" position.

Maximum rated working pressure is 400 W.O.G. Maximum temperature rating is 350°F (177°C).

Fig. 200 – Spring loaded dash pot check valves are of the same construction as the Fig. 205 except the disc is Buna "N" material.

Maximum working pressure is 400 W.O.G. Maximum working temperature is 200°F (93°C).

Fig. 215 – Spring loaded disc check valves used for non-return air or cold liquid service applications. Springs are stainless steel. Discs are teflon. All sizes except the 1/4" have a 1/8" NPT port for unloader line attachment. Valves are provided with ports plugged.

Maximum working pressure is 250 W.O.G. Maximum working temperature is 350°F (177°C).

Fig. 216 – Spring loaded check valves similar in construction to Fig. 215 except they have Buna "N" seat disc.

Maximum working pressure is 250 W.O.G. Maximum working temperature is 200°F (93°C).

Kingston® Horizontal Check Valves "HOOKED UP TO THE BEST LINES IN THE COUNTRY"

FIG. 215		N.P.T. SIZE
215A-1	BODY	1/4" 3/8" 1/2" 3/4"
215A-2	CAP	1/4" 3/8" 1/2" 3/4"
215A-3	DISC	1/4" 3/8" 1/2" 3/4"
215A-4	SPRING	1/4" 3/8" 1/2" 3/4"
215A-5	PIPE PLUG	1/4" 3/8" 1/2" 3/4"

FIG. 216		N.P.T. SIZE
216-1	BODY	1/4"
216-2	CAP	1/4"
216-3	SPRING	1/4"
216-4	DISC	1/4"
216-5	PLUNGER	1/4"
216-6	PLUNGER SCREW	1/4"
216-7	PLUNGER ASSEMBLY	1/4"

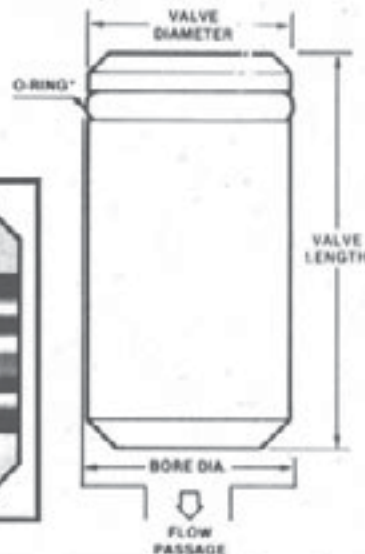
CIRCLE SEAL® CHECK VALVES

SERVICE RECOMMENDATIONS

MODEL NUMBER	O-RING MATERIAL	OPERATING TEMPERATURES	SERVICE
C2949	Buna-N	-40 to 250°F.	Air, Acetylene, Alcohol, Ammonia, Carbon Dioxide, Gasoline, Helium, Hydrogen, Hydraulic Fluid (Mineral Base), Natural Gas, Nitrogen, Water.
C2932	Viton	-20 to 300°F.	Aromatic Fuels, Solvents, Carbon Tetrachloride, Toluene, Trichloroethylene.
C2962	EPR	-65 to 300°F.	Synthetic Oils, Pydraul, Skydrol, Steam.

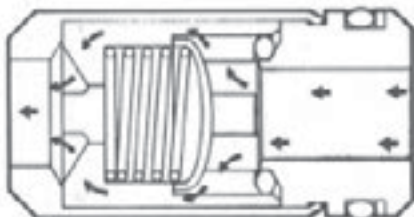
TECHNICAL DATA

OPERATING PRESSURE 0-3000 PSI
 CRACKING PRESSURE—Standard 2 to 4 PSI
 (For other cracking pressures up to 25 PSI consult factory.)



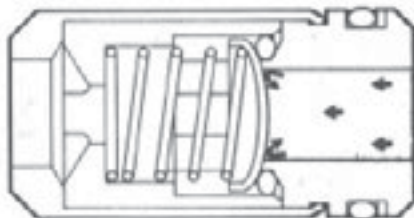
HOW IT WORKS

The proven principles of Circle Seal Check Valve sealing are employed in these cartridge type valves—instant, bubble-tight sealing with an O-ring. Increasing pressure makes the seal tighter until metal-to-metal contact is made and this withstands full system pressures or pressure surges.



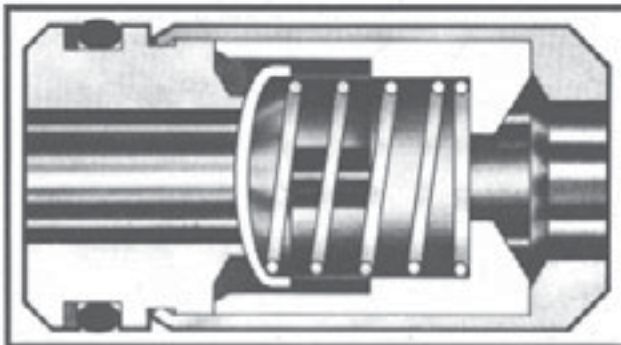
OPEN

In flow position, convex curved surface of spring-loaded poppet permits full flow. Cracking pressure required is governed by the spring.



CLOSED

Closing to check position at the slightest back pressure, dynamic O-ring seals instantly between poppet and seat.



OPERATING CHARACTERISTICS

ZERO LEAKAGE—Valve is absolutely bubble-tight in check direction. Instant sealing with an O-ring. Increased pressure makes seal tighter.

QUICK OPENING—Standard cracking pressure 2 to 4 psi.

FULL FLOW—Curved poppet face diverts flow smoothly. Flow channel bypasses spring. Minimum drop in pressure, especially evident in pneumatic applications.

BRASS OR STEEL BODIES—Buna-N or Viton O-rings. Wide range of combinations make these new valves suitable for many applications.

Circle Seal C2900 Series leakproof valves are high in reliability. They supply positive shutoff against line back pressure. In addition to being used in new equipment, they are interchangeable with and can be used to replace many cartridge valves. Typical installations: air tools, manifolds, pump housings, control panels, cylinder heads, transmissions.

Brass Part No.	VALVE SIZES	BORE DIA. +.002 -.000	FLOW PASSAGE	VALVE DIMENSIONS		O-RING	C _v
				DIA. +.005 -.000	LENGTH		
C2949B-4Q	-4Q	.500	.200	.494	.825	ARP568-012	.55
C2949B-6Q	-6Q	.656	.300	.650	1.205	ARP568-014	1.36
C2949B-8Q	-8Q	.812	.385	.806	1.480	ARP568-017	2.35
C2949B-10Q	-10Q	1.000	.485	.994	1.535	ARP568-020	3.51
C2949B-12Q	-12Q	1.218	.850	1.212	1.920	ARP568-023	5.88

CIRCLE SEAL® CHECK VALVES

CIRCLE SEAL® 2600 SERIES CHECK VALVES (0-3000 PSI)

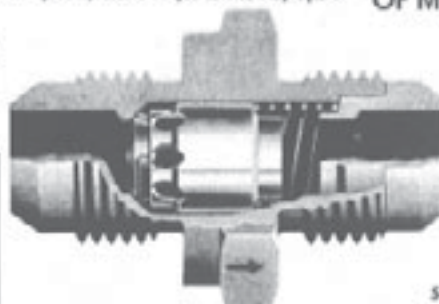
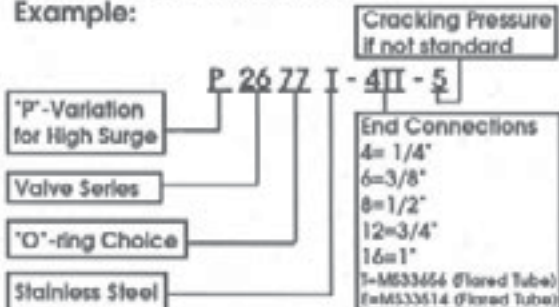
- Positive Sealing at Any Differential Pressure**
 Circle Seal check valves are absolutely bubble tight in leakage tests.
- Quick Opening — Positive Closing**
 Even at extremely low pressure differential. The poppet closes at zero flow before the return flow starts.
- Maintenance-Free Dependability**
 The resilient "O" ring or teflon seal absorbs the shock and automatically compensates for normal wear. There are no special seats which require replacing or refacing.
- Excellent Flow Characteristics**
 The streamlined poppet offers minimum restriction to flow.
- No Chatter or Hammer**
 The pulsating action of shock waves and hammer is absorbed by minor expansion and contraction of the seal. The use of the resilient seal together with the careful poppet design insures cushioned, quiet closing.
- Satisfactory Performance Under Adverse Conditions**
 Foreign particles in the fluid stream do not prevent proper seating. Temperature variations do not affect proper functioning of the valves. Can be supplied to withstand temperatures from -100° to 450° F.
- Adaptable to Most Fluids**
 Metallic and non-metallic parts can be supplied to withstand the action of most commonly used aircraft fluids. No special wear resisting materials are required, eliminating the problems of differential expansion and electrolytic action from dissimilar metals.
- Compact, Easily Installed**
 Efficient straight line design reduces weight and size. Permits mounting in any position. All valves are marked with an arrow to indicate direction of flow.

MODEL NUMBER AND SERVICE RECOMMENDATION TABLE

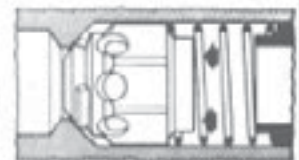
model number	operating temperature	"O" ring material	cracking pressure (psi)	service
2677	-40 to 200°F	MIL-P-25732 Buna N	2 psi max	Air, Alcohol, Ammonium Hydroxide, Helium, Hydrogen, Hydraulic Fluid (mineral base), Lube Oil, Nitrogen, Water.
2673	-40 to 300°F	Neprene W	2 psi max	Silicate-Ester Base Hydraulic Fluid, Monsanto OS-45
2632	-20 to 400°F	Viton A	2 psi max	Aircraft and Jet Fuels, LRFNA
2620	-100 to 400°F	Teflon	5 psi max (2 to 5 psi with liquid)	Chemically inert. Suitable for virtually any service. (Slight leakage at low back pressure in gas service may occur)

PART No. ORDERING SYSTEM

Example:



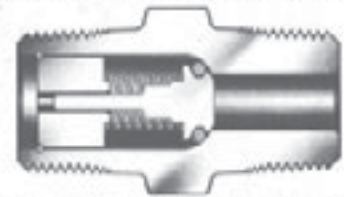
(2620 MODEL ILLUSTRATED)



closing

Seal automatically establishes line of contact with conical seat to cushion closing and insure perfect sealing.

2200 Series - Low Pressure (0-250 PSI)



COMPACT, EASILY INSTALLED—As simple to install as a pipe nipple.

SELF CLEANING—Poppet design is protected from larger foreign particles by the screening action of the spring.

TECHNICAL DATA

OPERATING PRESSURE 0-250 PSI
 PROOF PRESSURE OVER 1000 PSI
 LEAKAGE MODEL 2259 0 @ 1-250 PSI
 LEAKAGE MODEL 2249 0 @ 3-250 PSI
 LEAKAGE MODEL 2232 0 @ 1-250 PSI

2259 B - 2MM

BASIC MODEL NUMBER
See O-ring Table

MATERIALS
 B - Brass
 T1-(316) Stainless Steel
 (1/8", 1/4" & 3/8" only)

END CONNECTIONS
INLET/OUTLET
 1/8" - 1MM 1/2" - 4MM
 1/4" - 2MM 3/4" - 6MM
 3/8" - 3MM 1" - 8MM

Contact Aqua Tech for Manufacturers Literature or Assistance in Ordering.

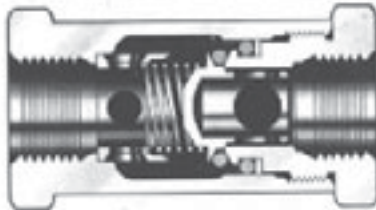
DESIGNED SPECIFICALLY TO MEET THE PACKAGE REQUIREMENTS OF MS24423 AND THE FUNCTIONAL REQUIREMENTS OF MIL-V-25675. (2620T Series)

2600 SERIES
 0-3000 PSI
 303 STAINLESS STEEL

}	1/8	2677T-4TT	2673T-4TT	2632T-4TT	2620T-4TT	2679T-4EE	2673T-4EE	2632T-4EE	2620T-4EE
	1/4	2677T-6TT	2673T-6TT	2632T-6TT	2620T-6TT	2679T-6EE	2673T-6EE	2632T-6EE	2620T-6EE
	3/8	2677T-8TT	2673T-8TT	2632T-8TT	2620T-8TT	2679T-8EE	2673T-8EE	2632T-8EE	2620T-8EE
	1/2	2677T-12TT	2673T-12TT	2632T-12TT	2620T-12TT	2679T-12EE	2673T-12EE	2632T-12EE	2620T-12EE
	1	2677T-16TT	2673T-16TT	2632T-16TT	2620T-16TT	2679T-16EE	2673T-16EE	2632T-16EE	2620T-16EE

CIRCLE SEAL® CHECK VALVES

200/H200 SERIES—VERSATILE



H200 SERIES

ALUMINUM	1/2" to 1"	@ 200°	0-6000
BRASS	1/2" to 1"	@ 300°	0-5000
STEEL	1/2" to 1"	@ 300°	0-5000
STAINLESS	1/2" to 1"	@ 500°	0-6000
PROOF PRESSURE	operating pressure 1 1/2 times		
BURST PRESSURE	operating pressure 2 1/2 to 4 times		

TECHNICAL DATA

OPERATING PRESSURE (PSI)

200 SERIES

ALUMINUM	1/2" to 1"	@ 200°	0-3000
BRASS	1/2" to 1 1/2"	@ 300°	0-3000
BRASS	2"	@ 300°	0-1500
STEEL	1/2" to 2"	@ 300°	0-3000
STAINLESS	1/2" to 1"	@ 500°	0-3000

LEAKAGE From zero to maximum operating pressure -Zero. Exception; teflon seal with (5 cc/min. @ 0-50 psi, 1 cc/min. above 50 psi.)

CONSTRUCTION

BODY Bar Stock
SPRING 302 Stainless
SEALS Synthet. Rubber or Teflon

OPERATING CHARACTERISTICS

ADAPTABLE TO MOST FLUIDS—Metallic and non-metallic parts can be supplied to withstand the action of most commonly used fluids and many exotics.

No special wear resistant materials are required, eliminating the problems of differential expansion and electrolytic action of dissimilar metals.

HOW TO ORDER

H 249 S-2PP

VARIATIONS

H—Modified construction for 6000 psi service (1/2" to 1" tube and 1/2" to 1/2" pipe)
P—Modified construction for high pressure gas or liquid where surge flows are encountered. (Standard on models 249, 233)

BASIC MODEL NUMBER

See O-ring Table

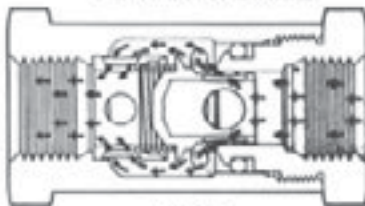
MATERIALS

A—Aluminum **T**—Stainless 303
B—Brass **T1**—Stainless 316
S—Steel

CONNECTIONS—INLET/OUTLET

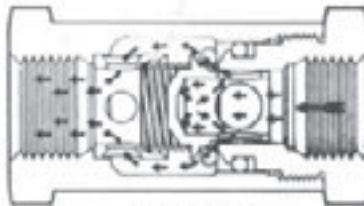
(increments pipe 1/4", tube 1/16")
P—Pipe, female

HOW IT WORKS



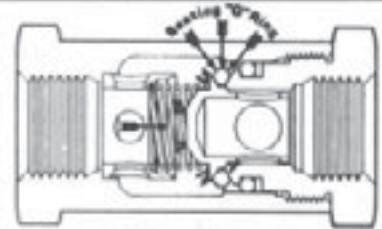
OPEN

Full flow passages offer minimum restriction to flow. Spring is completely removed from flow path.



CLOSING

Floating "O" Ring automatically establishes line contact with conical metal surfaces of poppet and seat to cushion closing and insure perfect sealing.



CLOSED

"O" Ring only seals. Full pressure load is carried by metal-to-metal seat. Increasing pressure increases sealing efficiency—metal seat prevents any possibility of deformation or extrusion of "O" Ring.

Contact Aqua Tech for Manufacturers literature or Assistance in Ordering.

"O"-Ring TABLE & SERVICE RECOMMENDATIONS

Valve Series

O-RING MATERIALS	NUMBER	OPERATING TEMPERATURES	STANDARD RANGE	SUITABLE FOR	Valve Series							
					100	200	C200	2100	2200	2300	C2900	
Buna-N	19	-40° to 225°F	4" H ₂ O	General Purpose	●							
Buna-N	49	-40° to 250°F	2-4 PSI	Air, Acetylene, Alcohol, Ammonia, Carbon Dioxide, Gasoline, Helium, Hydrogen, Hydraulic Fluid (Mineral Base), Natural Gas, Nitrogen, Water.		●	●		●	●	●	
Buna-N	59	-40° to 250°F	.5-1 PSI	Same as 49. Not for use with surge or heavy pulsating flow.		●		●	●	●		
Neoprene	33	-40° to 240°F	2-4 PSI	Oxygen, Acetylene, Freon 12, Freon 22.		●					●	
Viton A	32	-20° to 400°F	.5-1 PSI	Aircraft & Jet Fuels, Aromatics, Carbon Tet.		●		●	●	●		●
Teflon	20	-100° to 500°F	8 PSI*	Chemically inert. Suitable for nearly all fluids.		●		●	●	●		
Ethylene Propylene	62	-65° to 300°F	2-4 PSI	Skyd JI, Air, Steam.		●		●	●	●		

*Maximum Other o-rings available. Consult representative or factory.

CIRCLE SEAL® CHECK VALVES

TECHNICAL DATA

200 Series OPERATING PRESSURE

ALUMINUM 1/8" to 1-1/2"	0-3000 psi (to 200°F)
BRASS 1/8" to 1-1/2"	0-3000 psi (to 300°F)
BRASS 2"	0-1500 psi (to 300°F)
STEEL 1/8" to 2"	0-3000 psi (to 300°F)
STAINLESS STEEL 1/8" to 2"	0-3000 psi (to 450°F)

H200 Series OPERATING PRESSURE

ALUMINUM—	
(Pipe) 1/8"-1"	0-6000 psi (to 200°F)
BRASS—	
(Pipe) 1/8"-1"	0-5000 psi (to 300°F)
STEEL—	
(Pipe) 1/8"-1"	0-5000 psi (to 300°F)
STAINLESS STEEL—	
(Pipe) 1/8"-1"	0-6000 psi (to 400°F)

PROOF PRESSURE ... 1-1/2 times operating pressure

BURST PRESSURE ... 2-1/2 to 4 times operating pressure

LEAKAGE from Zero Pressure

to max. operating pressure Zero

(Exception: Z20A, Z20B and Z20S with gases—5 cc/min. Max. @ 8 to 50 psi; 1 cc/min. above 50 psi.)

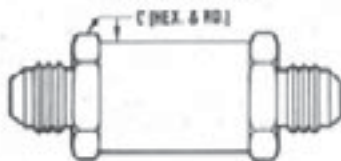
PP-FEMALE PIPE



BB-FEMALE TUBE



TT-MALE TUBE



H200 SERIES



SERVICE RECOMMENDATIONS

MODEL NUMBER	O-RING MATERIALS	OPERATING TEMPERATURES	STANDARD RANGE	SERVICE
249 290	Buna N	- 40° to 250°F	2-4 psi	Air, Acetylene, Alcohol, Ammonia, Carbon Dioxide, Gasoline, Helium, Hydrogen, Hydraulic Fluid (Mineral Base), Natural Gas, Nitrogen, Water.
259 277	Buna N	- 40° to 250°F	.5-1 psi	Same as 249. Specify when cracking pressure is required. Not for use with surge or heavy pulsating flow.
233	Neprene	- 40° to 240°F	2-4 psi	Oxygen, Acetylene, Freon 12, Freon 22.
213	Neprene	- 40° to 240°F	.5-1 psi	Same as 233—for low pressure service.
224	Silicone (AMS3304C)	- 65° to 450°F	.5-1 psi	Air, Lube Oil, Vacuum, Water.
232	Viton A	- 20° to 400°F	.5-1 psi	Aircraft & Jet Fuels, Aromatics, Carbon Tetr.
220	Teflon	-100° to 400°F	8 psi max.	Chemically inert. Suitable for nearly all fluids.
K220T	Teflon	-320° to 165°F	8 psi max.	Especially assembled & LDX cleaned for cryogenic service.
280	Teflon	-320° to 165°F	7 psi max.	No cryogenic processing.

HOW TO ORDER

PART NUMBER DESIGNATION

H 249 S-4PP-7

VARIATION

- M—Modified construction for 6000 psi service (1-1/4" tube & 1/8"-1" pipe size)
- K—Cryogenic service (stainless steel valves only) (Specially manufactured, cleaned and tested for cryogenic temperatures)
- P—Modified construction for high pressure gas or liquid service where surge flows are encountered. (Models 249, or 233 standard)

BASIC MODEL NUMBER

MATERIAL

- A —Aluminum 2024-T351
- B —Brass
- S —Steel
- T —Stainless Steel 303
- T1 —Stainless Steel 316

NOTE: STEEL AND ALUMINUM NOT FOR SALT WATER ATMOSPHERE

Special "O" Rings may be required for service not shown in the Model Number and Service Recommendations Table.

END CONNECTIONS—Inlet/Outlet

- (Pipe in 1/8" s, Tube in 1/16" s)
- P—Pipe, Female
- B—Tube, Female AND 10050*
- D—Straight Thread (MS33656 w/o cone point)
- E—Tube, Male, MS33514
- T—Tube, Male MS33656
- (Female tube inlet and outlet not available in Aluminum H200 Series)
- *Female tube per MS33649 Designated by the Letter "J."
- Y—Tube, Male MS24385
- (Female tube inlet and outlet not available in Aluminum H200 Series)
- *Female tube per MS33649 Designated by the Letter "J."

NON-STANDARD CRACKING PRESSURE

Contact Aqua Tech for Manufacturers literature or Assistance in Ordering.

STANDARD SIZES AVAILABLE

Aluminum	1/4" through 1" Female Pipe
Brass & Steel	1/4" through 2" Female Pipe
303 Stainless Steel	1/4" through 1" Female Pipe
316 Stainless Steel	1/4", 1/2", 3/4" & 1" Female Pipe

ConBraCo® CHECK/RELIEF VALVES

Ball-Cone® Check Valves 61, 62-100Series

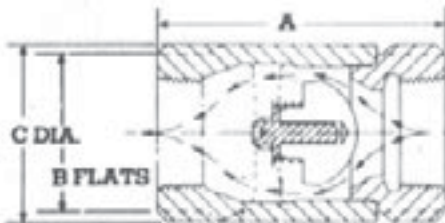


FEATURES

- Straight through flow for minimum pressure drop
- Ball-Cone® check is spring loaded for fast seating action (constructed of reinforced TFE)
- U.S. patent #4,172,465
- All wetted metal parts are bronze (61 Series) or 316 stainless steel (62 Series)

PRESSURE - TEMPERATURE CHART

DEG. F.	PRESS. PSIG
-20 to 100	400
200	200
250	160
275	150
300	140
325	130
353	125 ^{MAXIMUM}



DIMENSIONAL DATA

BRONZE NUMBER	STAINLESS NUMBER	SIZE	A	B	C	Cv*	APPROXIMATE OPEN PRESSURE	WT./100
61-101	62-101	1/4	2 1/8	1 1/4	1 1/4	3	1/2 PSI	38
61-102	62-102	1/2	2 1/8	1 1/4	1 1/4	5	1/2 PSI	38
61-103	62-103	3/4	2 1/8	1 1/4	1 1/4	6	1/2 PSI	38
61-104	62-104	1	2 1/8	1 1/4	1 1/4	12	1/2 PSI	75
61-105	62-105	1	3 1/8	1 1/4	1 1/4	25	1/2 PSI	150
61-106	62-106	1 1/4	4 1/8	2 1/8	2 1/8	44	1/2 PSI	275
61-107	62-107	1 1/2	4 1/8	2 1/8	2 1/8	65	1/2 PSI	425
61-108	62-108	2	6	3	3 1/8	120	1/2 PSI	760
61-109	N/A	2 1/2	7	3 1/2	4 1/8	175	1/2 PSI	1400
61-100	N/A	3	8 1/4	4 1/8	5 1/8	265	1/2 PSI	2150

*The Cv factor is the gallons of water per minute that the valve will pass with 1 PSI pressure drop.
NOTE: NOT RECOMMENDED FOR USE WITH RECIPROCATING PUMPS.

ConBraCo® 19 SERIES Safety (Relief) Valves BRONZE HIGH PRESSURE



FEATURES

- Certified by the National Board in accordance with A.S.M.E. Boiler and Pressure Vessel Code- Section I and Section VIII, Division I.
- Patented Soft Seat, Easily Replaceable @ the Factory U.S. Patent No. 3,045,607.
- No Critical Metal to Metal Seats.
- Double Ring-Full Bore-Hi-Capacity Construction.
- Return to Aqua Tech for Service

KEY

PRESSURE P.S.I.	SUFFIX NUMBER
15	-04
20	-05
25	-06
30	-07
35	-08
40	-09
45	-10
50	-11
55	-12
60	-13
65	-14
70	-15
75	-16
80	-17
85	-18
90	-19
95	-20
100	-21
105	-22
110	-23
115	-24
120	-25
125	-30
130	-31
135	-32
140	-33
145	-34
150	-35
155	-36
160	-37
165	-38
170	-39
175	-40
180	-41
185	-42
190	-43
195	-44
200	-45
205	-46
210	-47
215	-48
220	-49
225	-50
230	-51
235	-52
240	-53
245	-54
250	-55

SPECIAL SETTINGS AVAILABLE UPON REQUEST

VALVE NO.	ORIFICE DESIGNATION	SIZE INLET OUTLET	WEIGHT EACH
19-302	E	3/4 x 1	2.00
19-401	E	1 x 1	2.02
19-402	F	1 x 1 1/4	4.09
19-501	F	1 1/4 x 1 1/4	4.17
19-602	G	1 1/4 x 1 1/2	7.10
19-601	G	1 1/2 x 1 1/2	7.20
19-602	H	1 1/2 x 2	11.30
19-701	H	2 x 2	10.90
19-702	J	2 x 2 1/2	19.80
19-801	J	2 1/2 x 2 1/2	19.80

NEEDLE VALVES

1700 Series

APPLICATIONS:

- Cylinder valve use
- Panel board instrumentation
- Pilot plants
- Research laboratories

Maximum Operating Pressure:
6000 PSIG @ 70°F,
41.4 MPa @ 21°C

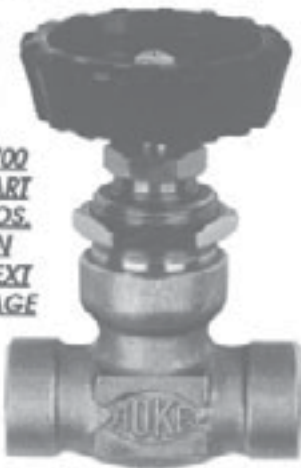
Operating Temperature Range:
-65° to 450°F,
-54° to 232°C

Orifice Sizes: .187 (4.8 mm)

Cv Factor: .45

FEATURES:

- Choice of metal or plastic handle
- Rugged forged body construction
- Dyna-Pak water packing below stem threads
- Non-rotating stem point prevents galling and extends valve life
- Hardened thread gland provides long cycle life



1700
PART
NOS.
ON
NEXT
PAGE

VALVE STEM OPTIONS

(Call Aqua Tech for Mfg. Literature)



Kel-F
(3700-3800-3900)



V-Point
(3732)



Regulating
(3700-3800)



Blunt
(3900)

3700-3800 3900 Series

APPLICATIONS:

- Instrument air lines
- Gas sampling lines
- Test stands

Maximum Operating Pressure:
5000 PSIG @ 70°F,
34.5 MPa @ 21°C

Operating Temperature Range:
-65° to 450°F,
-54° to 232°C

Orifice Sizes:
.170 (4.3 mm) .219, (5.15 mm)
.312 (7.9 mm)

Cv Factor:
.35 (.170 orifice) .55 (.219 orifice)
1.1 (.312 orifice)

FEATURES:

- Variety of materials—Brass, 316SS, Monel, Carbon Steel
- Compact body installs in space restricted areas
- Dyna-Pak packing provides leak-tight seal and low operating torque
- Choice of softsealing, regulating, and V stems
- Kel-F stem disc provides long valve life
- Packing Adjustment can be made from front of panel



3900 SERIES—BLUNT OR KEL-F STEM POINTS .312 ORIFICE—1.1 Cv FACTOR

Body Material	Connections Inlet (A) Outlet (B)	Order By Model Number			
		Blunt Stem Point	Kel-F Stem Point	Orifice	Cv Factor
Brass	1/2 NPT Female	3912FBB	3952F4B	.312	1.1
316SS	1/2 NPT Female	3912FBY	3952FBY	.312	1.1
Carbon Steel	1/2 NPT Female	3912FBE	3952FBE	.312	1.1

3800 SERIES—REGULATING OR KEL-F STEM POINTS .170 or .219 ORIFICES—.35, .55 Cv FACTORS

Body Material	Connections Inlet (A) Outlet (B)	Order By Model Number			
		Regulating Stem Point	Kel-F Stem Point	Orifice	Cv Factor
Brass	1/4 NPT Female	3812F2B*	3852F4B +	.219/.170	.55/.35
	1/4 NPT Male (A) 1/4 NPT Female (B)	3812L4B	—	.219	.55
	3/8 NPT Male	3812M6B	—	.219	.55
	3/8 Gyrolok	3812G6B	—	.219	.55
	1/2 Gyrolok	3812G8B	—	.219	.55
316SS	1/4 NPT Female	3812F4Y*	3852F4Y +	.219/.170	.55/.35
	1/4 NPT Male (A) 1/4 NPT Female (B)	3812L4Y*	3852L4Y +	.219/.170	.55/.35
	3/8 Gyrolok	3812G8Y*	3852G8Y +	.219/.170	.55/.35
	3/8 NPT Male	3812M8Y*	3852M8Y +	.219/.170	.55/.35
	1/2 Gyrolok	3812G8Y*	3852G8Y +	.219/.170	.55/.35
	10MM Gyrolok	3812G10YMM	3852G10YMM	.219	.55
	12MM Gyrolok	3812G12YMM	3852G12YMM	.219	.55

3700 SERIES—REGULATING OR KEL-F STEM POINTS .170 ORIFICE—.35 Cv FACTOR

Body Material	Connections Inlet (A) Outlet (B)	Order By Model Number			
		Regulating Stem Point	Kel-F Stem Point	Orifice	Cv Factor
BRASS	1/8 Gyrolok	3712G2B	—	.170	.35
	1/8 NPT Male	3712M2B	3752M2B	.170	.35
	1/8 NPT Female	3712F2B	3752F2B	.170	.35
	1/4 Gyrolok	3712G4B	3752G4B	.170	.35
	1/4 NPT Male (A) 1/4 Gyrolok (B)	3712H4B	3752H4B	.170	.35
	1/4 NPT Male	3712M4B	3752M4B	.170	.35
	1/8 Gyrolok	3712G2Y	3752G2Y	.170	.35
316SS	1/8 NPT Male	3712M2Y	—	.170	.35
	1/8 NPT Female	3712F2Y	3752F2Y	.170	.35
	1/4 NPT Male (A) 1/4 Gyrolok (B)	3712H4Y	3752H4Y	.170	.35
	1/4 NPT Male	3712M4Y	3752M4Y	.170	.35
	1/4 Gyrolok	3712G4Y	3752G4Y	.170	.35
	3MM Gyrolok	3712G3YMM	3752G3YMM	.170	.35
	6MM Gyrolok	3712G6YMM	3752G6YMM	.170	.35
	8MM Gyrolok	3712G8YMM	3752G8YMM	.170	.35

GLOBE PATTERN VALVES 3700 SERIES—"V" STEM POINT .060 ORIFICE, Cv FACTOR .07

BODY MATERIAL	CONNECTIONS	ORDER BY MODEL NUMBER	ORIFICE	Cv FACTOR
Brass	1/8 NPT Male	3732M2B	.060	.07
Brass	1/4 NPT Male	3732M4B	.060	.07
316SS	1/4 NPT Male	3732M4Y	.060	.07

HOKE® LINE VALVES



Selecto-mite® 3-way Ball Valves

APPLICATIONS:

- Instrument air lines
- Sampling systems

Maximum Operating Pressure:
6000 PSIG
41.4 MPa

Operating Temperature Range:
0° to 350°F
-18° to 179°C

Orifice:
.187 (5mm)

Cv Factor:
.15 to .66

FEATURES:

- Dyna-Pak™ wafer packing provides long trouble-free and low operating torque
- Encapsulated dual TFE or Nylatron seats eliminates cold flow and distortion
- Low operating torque
- Choice of 500, 3000, or 6000 PSI models

SEE 1700 FEATURES ON PREVIOUS PAGE.
Return Valves to Aqua Tech for
Service. Call for manufacturers
Literature.

7177 SERIES 1/8 PORTED

MODERATE VACUUM TO 2000 PSI — 316SS MODELS
TEFLON SEATS—VITON O-RINGS

End Connections	Order by Catalog Part Number	Orifice	Cv Factor
1/8 Gyrolok	7177G2Y	.125	.15*
1/4 Gyrolok	7177G4Y	.125	.30
1/8 Female	7177F2Y	.125	.30
3MM Gyrolok	7177G3Y/MM	.125	.15*
6MM Gyrolok	7177G6Y/MM	.125	.30

*Orifice restricted by end connection

7600 SERIES

5000 PSI BRASS MODELS—NYLATRON SEATS—BUNA-N O-RINGS
6000 PSI 316SS MODELS—NYLATRON SEATS—VITON O-RINGS

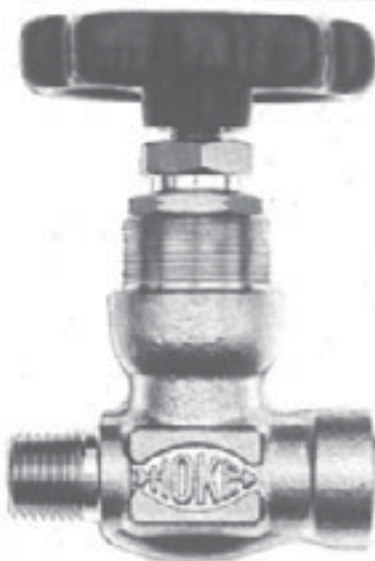
CONNECTIONS		ORDER BY PART NUMBER		Orifice	Cv Factor
Inlet	Outlet	Brass	316SS		
1/4 Gyrolok	1/4 Gyrolok	7671G4B	7673G4Y	.187	.53
3/8 Gyrolok	3/8 Gyrolok	—	7673G6Y	.187	.66
1/4 Female	1/4 Female	7671F4B	7673F4Y	.187	.56
6MM Gyrolok	6MM Gyrolok	—	7673G6Y/MM	.187	.53

NOTE: All 6000 PSIG valves come with a long red handle for reduced operating force.



1700 SERIES - GLOBE PATTERN VALVES

Basic Material	Connections		Order by Model Number	
	Inlet	Outlet	Metal Stem Tip	Kel-F Stem Tip
316SS	1/4 NPT Male	1/4 NPT Male	1711M4Y	1751M4Y
	1/4 NPT Male	1/4 Female	1711L4Y	1751L4Y
	1/2 NPT Male	1/2 NPT Male	1711M6Y	1751M6Y
	1/4 Female	1/4 Female	1711F4Y	1751F4Y
	1/4 Gyrolok Tube	1/4 Gyrolok Tube	1711G4Y	1751G4Y
	6MM Gyrolok	6MM Gyrolok	1711G6Y/MM	1751G6Y/MM
	8mm Gyrolok	8mm Gyrolok	1711G8Y/MM	1751G8Y/MM
Monel	1/4 NPT Male	1/4 NPT Male	1711M4M	1751M4M
	1/4 Female	1/4 Female	1711F4M	1751F4M



1711L4Y



1711G4Y
With Optional Handle

HOKE® BALL VALVES

7223 SERIES

MODERATE VACUUM TO 5000 PSIG VALVES
VITON O-RINGS—TEFLON SEATS

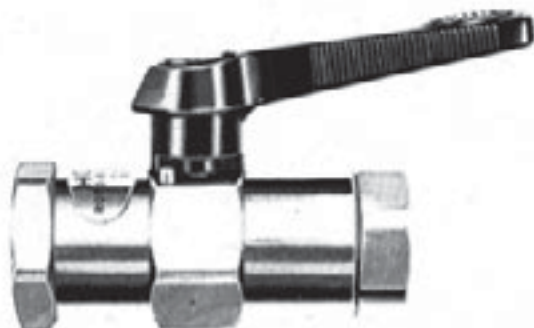
CONNECTIONS		ORDER BY PART NUMBER	Orifice	Cv Factor
Inlet	Outlet	316SS Valves		
3/8 Female	3/8 Female	7223F6Y	.375	3.4
1/2 Female	1/2 Female	7223F8Y	.375	3.4
1/2 Gyrolok	1/2 Gyrolok	7223G8Y	.375	3.4
12MM Gyrolok	12MM Gyrolok	7223G12Y/MM	.375	3.4



7223G8Y



7223F8Y



7223F6Y

Long Lever Metal Handle



Roto-ball® Bar Stock Ball Valves

APPLICATIONS:

- Hydraulic test stands
- Handling slurries
- Refinery pilot plants
- Pneumatic systems

Maximum Operating Pressure:
5000 PSIG @ 70°F.
34 MPa

Operating Temperature Range:
-20° to 350°F
-29° to 179°C

Orifice Sizes:
.375 (9.5 mm)

Cv Factor:
3.4

FEATURES:

- Select Viton O-rings or TFE washers for increased corrosive/temperature compatibility
- Encapsulated TFE seat eliminates cold-flow and distortion
- Dual Seats provide leak proof bi-directional sealing
- Choice of Nylon oval handle or metal lever handle
- Viton "O" Ring stem packing

Return to Aqua Tech for Service

7222 SERIES

MODERATE VACUUM TO 2000 PSIG VALVES
TEFLON WASHERS—TEFLON SEATS

CONNECTIONS		ORDER BY PART NUMBER	
Inlet	Outlet	316SS Valves	Monel
3/8 Female	3/8 Female	7222F6Y	—
1/2 Female	1/2 Female	7222F8Y	7222F8M9
1/2 Gyrolok	1/2 Gyrolok	7222G8Y	7222G8M8
12MM Gyrolok	12MM Gyrolok	7222G12Y/MM	—

HOKE® BALL VALVES

Flomite® Forged Body Ball Valves

APPLICATIONS:

- Hi-pressure instrument lines
- Gas sampling lines
- Chromatographs
- Hydraulic test stands

Maximum Operating Pressure:
6000 PSIG
41.4 MPa

Operating Temperature Range:
0° to 480°F

Orifice:
.250 (6mm)

Cv Factor:
1.40

FEATURES:

- Check Valve design eliminates seat blow-out and distortion at high pressures
- Dyna-Pak™ wafer packing provides long trouble-free life and low torque
- ¼ turn arrow handle indicates flow at a glance
- Forged body for extra strength
- Dual Seats provide leakproof bi-directional flow



7115G4Y
With Severe Service Handle



7115F4B
With Standard Handle



miniature forged ball valves

BI-DIRECTIONAL FLOW—KEL-F SEATS

3000 PSIG MODELS—BRASS
6000 PSIG MODELS—303 & 316SS

CONNECTIONS		ORDER BY CATALOG PART NUMBER			Orifice	Cv Factor
Inlet	Outlet	Brass	303SS	316SS		
¼ Geyrolok	¼ Geyrolok	7115G4B	7115G4S	7115G4Y	.187	0.80
¼ Male	¼ Geyrolok	—	—	7115H4Y	.187	0.80
¼ Geyrolok	¼ Geyrolok	7115G6B	7115G6S	7115G6Y	.250	1.40
¼ Female	¼ Female	7115F4B	7115F4S	7115F4Y	.250	1.40

BI-DIRECTIONAL FLOW—TEFLON SEATS
1500 PSIG—ALL MODELS

CONNECTIONS		ORDER BY CATALOG PART NUMBER			Orifice	Cv Factor
Inlet	Outlet	Brass	303SS	316SS		
¼ Geyrolok	¼ Geyrolok	7122G4B	7122G4S	7122G4Y	.187	0.80
¼ Geyrolok	¼ Geyrolok	7122G6B	7122G6S	7122G6Y	.250	1.40
¼ Female	¼ Female	7122F4B	7122F4S	7122F4Y	.250	1.40

Return to Aqua Tech for Service

DIMENSIONS

CONNECTIONS		D		E	H	H ₂	PANEL MOUNTING	
A Inlet	B Outlet	Inch	mm	Inch	mm	Inch	Max Thickness	Hole Size
¼ Geyrolok	¼ Geyrolok	1 3/4	44	3 1/4	78	1/2	1/2	1/4
¼ Geyrolok	¼ Geyrolok	1 3/4	44	3 1/4	83	1/2	1/2	1/4
¼ Female	¼ Female	1 3/4	44	2 1/4	59	1/2	1/2	1/4
¼ Male	¼ Geyrolok	1 3/4	44	2 1/4	73	1/2	1/2	1/4
¼ Female	¼ Female	1 3/4	44	2 1/4	62	1/2	1/2	1/4
¼ Male	¼ Female	1 3/4	44	2 1/4	64	1/2	1/2	1/4
¼ Male	¼ Male	1 3/4	44	2 1/4	64	1/2	1/2	1/4

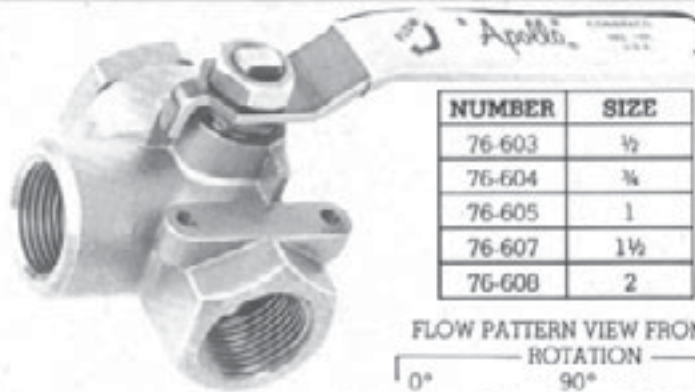
7115G4B

STAINLESS APOLLO® VALVES

316 Stainless Steel Apollo® Valve

Features:

- Investment cast components
- Reinforced TFE seats and stuffing box ring
- Stainless Steel lever & nut
- Easy actuator mounting
- Meets NACE-MR-01-75
- Meets WW-V-35C Type: II Composition:SS Style: 3

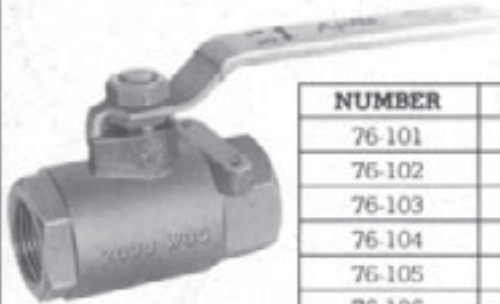


NUMBER	SIZE
76-603	1/2
76-604	3/4
76-605	1
76-607	1 1/2
76-608	2

FLOW PATTERN VIEW FROM TOP ROTATION

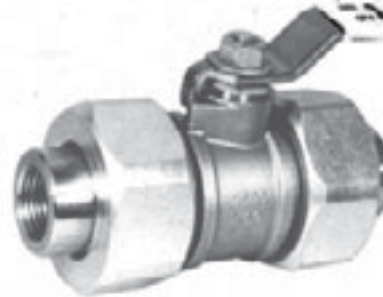


76-600 Series 3-Way Diversion S/S Apollo® 800 WOG



NUMBER	SIZE
76-101	1/4
76-102	3/8
76-103	1/2
76-104	3/4
76-105	1
76-106	1 1/4
76-107	1 1/2
76-108	2
76-109	2 1/2
76-100	3

76-100 Series



THREADED	SOCKET WELD	SIZE
76-303	76-403	1/2
76-304	76-404	3/4
76-305	76-405	1
76-306	76-406	1 1/4
76-307	76-407	1 1/2
76-308	76-408	2

76-300 & 76-400 Series S/S Double Union Apollo®

PLEASE USE ALL SEVEN DIGITS WHEN ORDERING ---EXAMPLE:

76 - 1 0 3 - 1 0 = 316 S/S-NPT Female/150 Range-No Variation, 1/2" With S/S Lever & Nut

MATERIAL OR STYLE	TYPE VALVE	VARIATIONS	SIZE*	DESIGN OPTIONS
76-BRONZE	1-NPT Female/150 Flange	1-One Size Larger Male Retainer	1- 1/4"	01 STANDARD
71-BRZ. W/Mounting Pads	2-Solder & Soc. Weld/150 Flange Full Port	2-Adjustable Stop Lever	2- 3/8"	02 GROUNDED
75-Pad-Locking Bronze	3-Union End-NPT/Std. Port 3 Piece NPT	3-Monel Ball & Stem	3- 1/2"	03 1" EXT. STEM
76-316 Stainless Steel	4-Union End, Solder/Std. Port Soc. Weld	4-S/S Ball & Stem	4- 3/4"	04 2" EXT. STEM
77-BRZ. Full-Port	5-"Deadman"/ High Press. Full Port NPT	5-Original Bal-ancing Stop-Attach to Lever OrT-Handle	5- 1"	05 PLAIN BALL
80-Bronze, UL Listed	6-3-Way, NPT / High Press. Soc. Weld Full Port	6-N.A.C.E. Trim, 73 Style	6- 1-1/4"	06 SPECIAL 2000 LB. (73 SERIES 1 1/2-2")
81-Bronze, UL Listed Plain Ball	7-Butt Weld ? 300 Flange	7-One Size Smaller Female Retainer	7- 1-1/2"	07 TEE HANDLE
82-Bronze-3 Piece Full Port	8-Male X Female, NPT / 600 Flange	8-None	8- 2"	08 90° REVERSED STEM
85-316 S/S-3 Piece-Std. Port	9-3-Way Solder		9- 2-1/2"	09 S.S. LEVER & NUT
86-316 S/S-3 Piece Full Port			0- 3"	10 STAMP 157 SWP & BAGGED
87-316 S/S-Flanged			A- 4"	11 STAMP 157 SWP
91-Bronze, Unibody			C- 6"	12 VENTED BALL
95-Bronze With Stop & Drain			E- 8"	13 ROUND HANDLE
96-316 S/S Unibody			G- 10"	14 VERT. CHAIN LEVER (EXCEPT 73 & 93)
			H- 12"	15 ROUGH CHROME
				16 WITH LOCK PLATE (73, 93, & 76)
				17 NON TFE VALVE, 3 PCE (UNSWP SEATS)
				23 TAKE VALVE, 3 PCE ONLY
				24 GRAPHITE STEM PACKING
				26 DRY CHLORINE TRIM (76-130 SERIES)
				27 LATCH LOCK LEVER
				28 MOUNTING PADS NUT THREADED (76-100)
				30 CAM LOCK HANDLE
				37 ACTUATED
				41 AUTO DRAIN BRONZE VALVES
				45 LESS LEVER & NUT
				49 ASSEMBLED DRY
				53 UNION END LESS TAILPIECE
				57 OXYGEN CLEANED -- BRONZE & S.S. ONLY
				59 S.S. EXTENSION TRIM (82 & 83 SERIES)
				60 GROUNDED BALL & STEM
				62 3PIECE CENTER SECTION
				63 NPT X SOLDER/SOCKET WELD
				64 250 LB. STEAM (70-140, 73-140, & 76)

NOTE: Not all variations and features available on some valves. Contact Aqua Tech for assistance in selecting features.

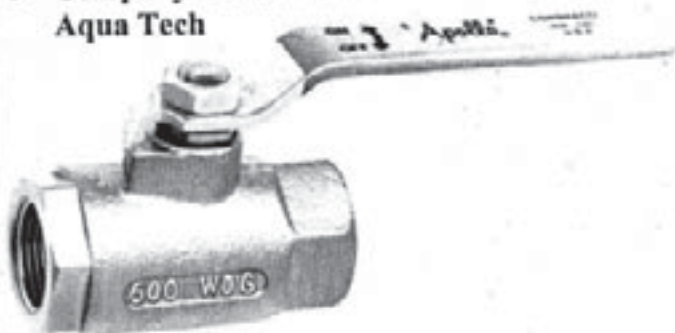
*BODY SIZE WHEN ENDS ARE MIXED.

APOLLO® BALL VALVES

70-100 Series - The Original Bronze Apollo® Valve

Features:

- Chromium plated ball
- Reinforced TFE seats and stuffing box ring
- Meets WW-V-35C Type: II
Composition: BZ Style: 3
- Company literature available from Aqua Tech

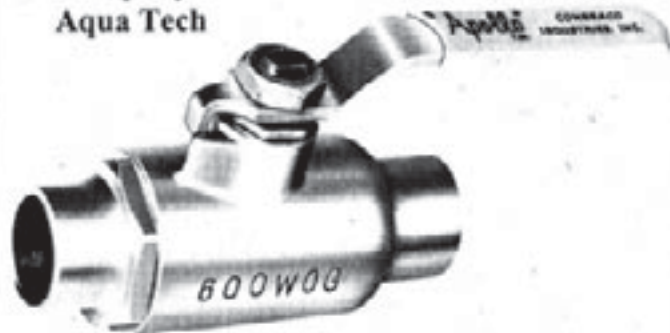


NUMBER	SIZE
70-101	¼
70-102	¾
70-103	½
70-104	¾
70-105	1
70-106	1¼
70-107	1½
70-108	2
70-109	2½
70-100	3

70-200 Series - Solder End Bronze Apollo® Valve

Features:

- Chromium plated ball
- Reinforced TFE seats and stuffing box ring
- Meets WW-V-35C Type: II
Composition: BZ Style: 3
- Company literature available from Aqua Tech



STANDARD VALVE RATINGS

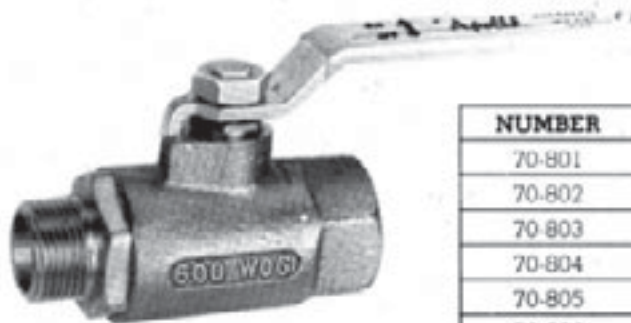
- Bronze Valves
-600 P.S.I. WOG, Cold, Non-Shock
- 316 Stainless Steel Valves
-2000 P.S.I. WOG, ¼" through 1"
-1500 P.S.I. WOG, 1¼" through 2" Cold, Non-Shock
- Carbon Steel Valves
-2000 PSI WOG, ¼" through 1"
-1500 PSI WOG, 1¼" through 2", Cold, Non-Shock

NUMBER	SIZE
70-202	¾
70-203	½
70-204	¾
70-205	1
70-206	1¼
70-207	1½
70-208	2
70-209	2½
70-200	3

70-800 Series - Male X Female Bronze Apollo® Valve

Features:

- Chromium plated ball
- Reinforced TFE seats and stuffing box ring
- Blow-out-proof stem design
600 WOG
- Company literature available from Aqua Tech



NUMBER	SIZE
70-801	¾
70-802	¾
70-803	½
70-804	¾
70-805	1
70-806	1¼

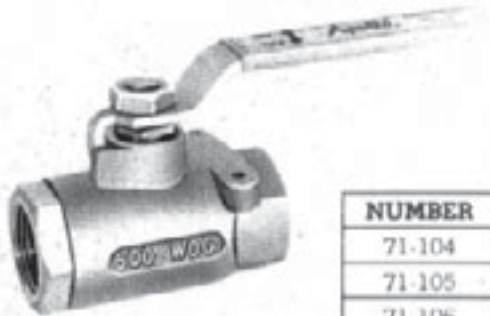
NOTE: Not all variations and features available on some valves. Contact Aqua Tech for assistance in selecting features.

APOLLO® BALL VALVES

71-100 Series - Bronze Apollo® Valve With Mounting Pad

Features:

- Designed for deadman spring return handle, actuator mounting and panel mounting
- Reinforced TFE seats and stuffing box ring
- Meets WW-V-35C Type: II
Composition: BZ Style: 3
- Company literature available from Aqua Tech



NUMBER	SIZE*
71-104	¾
71-105	1
71-106	1¼
71-107	1½
71-108	2
71-100	3

NOTE: Not all variations and features available on some valves. Contact Aqua Tech for assistance in selecting features.

77-100 Series - The Bronze Full Port Apollo® Valve With Mounting Pads

Features:

- Designed for easy actuator mounting
- Chromium plated ball
- Reinforced TFE seats and stuffing box ring
- Meets WW-V-35C Type: II
Composition: BZ Style: 3
- Company literature available from Aqua Tech



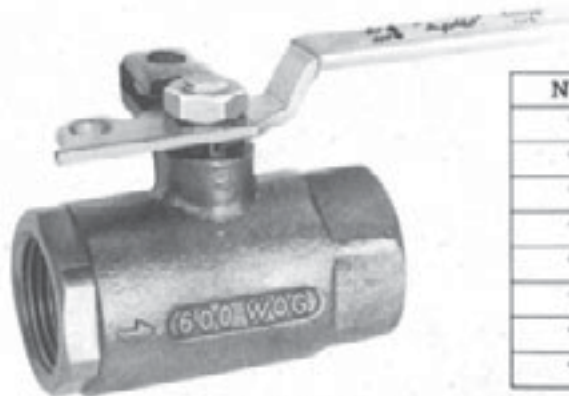
NUMBER	NPT SIZE
77-101	¾
77-102	¾
77-103	¾
77-104	¾
77-105	1
77-106	1¼
77-107	1½
77-108	2
77-109	2½

NOTE: Full Flow Valves have flow rate (Cv) comparable to equivalent length of pipe

75-100 Series - Pad-Locking Bronze Apollo® Valve

Features:

- May be padlocked in open or closed position W/no change of hardware
- 600 WOG
- Company literature available from Aqua Tech



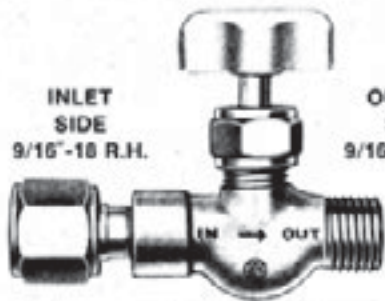
NUMBER	SIZE
75-101	¾
75-102	¾
75-103	¾
75-104	¾
75-105	1
75-106	1¼
75-107	1½
75-108	2

NOTE: Not all variations and features available on some valves. Contact Aqua Tech for assistance in selecting features.

O2 VALVES & PIPING



"B" SIZE KIT
ITEM NO. CK-7



INLET
SIDE
9/16"-18 R.H.

ITEM NO. 203



OUTLET
SIDE
9/16"-18 R.H.

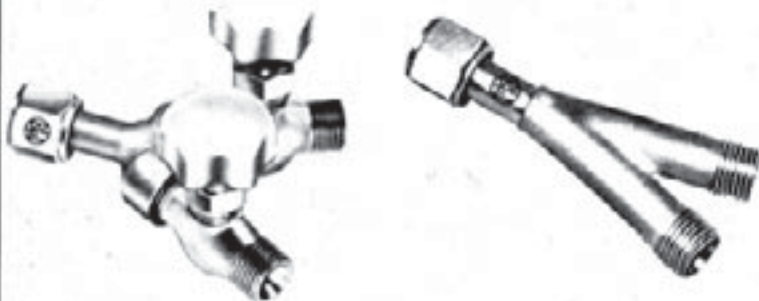
INLET
SIDE
1/4" NPT

ITEM NO. 205

"B" Size Kits contain 9 different items most commonly used, for a total of 205 pieces. "A" Size Kits have 9 different items, or a total of 96 pieces. Assortment consists of hose nuts & nipples, splicers, couplers, bushings, adaptors and ferrules. (There is no crimping tool included). For easy identification of fittings a detailed chart in Kit lists items in each compartment of box.

A Complete Line of Brass & Stainless Steel Fittings is Available from Aqua Tech

"Y" OXYGEN to OXYGEN (Brass)



"Y" OXYGEN to OXYGEN With Valves (Brass)

Brass HOSE
CLAMPS
Sizes:
Hose I.D.
1/4" - 3/8" -
1/2"



HOSE
FERRULES



OXYGEN
RIGHT HAND



BARBED NIPPLE



ITEM NO.
DC-B7



1/4" NPT x Oxygen Male Adaptor



Female NPT x Male Oxygen Connection

Pipe Nipples and Short Pipe Lengths

BRASS ALLOY 360

Working Pressures to 3,000 psi (20,700 kPa)

Inches	1/2" NPT	3/4" NPT
1 1/2	WHF-3-1	WHF-3-9
2	WHF-3-2	WHF-3-10
4	WHF-3-3	WHF-3-11
6	WHF-3-19	WHF-3-21
8 1/4		
8 3/4		WHF-3-13
8 1/2	WHF-3-5	
11 1/4		
11 3/4		WHF-3-16
11 1/2	WHF-3-7	



Pipe Size	Length	Part Number
1/2" NPT	12 Ft.	WHF-3-17
3/4" NPT	12 Ft.	WHF-3-18

FITTINGS, BRASS & S/S

How to Order:

The part number describes complete fittings.

4	RBP	4	-316
PIPE SIZE <small>In sixteenths of an inch</small> 1/4" NPT	FITTING TYPE reducing bushing	PIPE SIZE <small>In sixteenths of an inch</small> 1/4" NPT	MATERIAL Brass- No suffix 316 S/S/Steel- -316

AQUA TECH stocks Brass and Stainless Steel fittings.

DASH CODE	PIPE/TUBE SIZE	DASH CODE	PIPE /TUBE SIZE
1	1/16"	8	1/2"
2	1/8	10	5/8
3	3/16	12	3/4
4	1/4	14	7/8
5	5/16	16	1
6	3/8	*PIPE/TUBE sizes in inches	

CNP

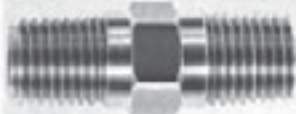
close nipple



HOKE® Pt. No.	Pipe	Working pressure		Cajon	Parker
BRASS	316 S/S	Size	Brass	S/S	Part No.
4CNP	4CNP-316	1/4	5700	9900	-4-CN 4-4MCN

NP

hex nipple



HOKE® Pt. No.	Pipe	*Working pressure		Cajon	Parker
BRASS	316 S/S	Size	Brass	S/S	Part No.
2NP	2NP-316	1/8	7100	12,300	-2-HN 2-2MHN
4NP	4NP-316	1/4	5700	9900	-4-HN 4-4MHN
6NP	6NP-316	3/8	5500	9000	-6-HN 6-6MHN
8NP	8NP-316	1/2	5400	8900	-8-HN 8-8MHN
12NP	12NP-316	3/4	4600	8300	-12-HN 12-12MHN
16NP	16NP-316	1	3400	5900	-16-HN 16-16MHN

RNP

hex reducing nipple



HOKE® Pt. No.	Pipe	Pipe	*Working pressure		Cajon	Parker
BRASS	316 S/S	Size	Size	Brass	S/S	Part No.
4RNP2	4RNP2-316	1/4	1/8	7100	12,300	-4-HRN-2 4-2MHN
6RNP4	6RNP4-316	3/8	1/4	5700	9900	-6-HRN-4 6-4MHN
8RNP4	8RNP4-316	1/2	1/4	5700	9900	-8-HRN-4 8-4MHN
8RNP6	8RNP6-316	1/2	3/8	5500	9000	-8-HRN-6 8-6MHN
12RNP6	12RNP6-316	3/4	3/8	5500	9000	-12-HRN-6 12-6MHN
12RNP8	12RNP8-316	3/4	1/2	6200	10,100	-12-HRN-8 12-8MHN
16RNP8	16RNP8-316	1	1/2	6200	10,100	-16-HRN-8 16-8MHN
16RNP12	16RNP12-316	1	3/4	4600	8300	-16-HRN-12 16-12MHN

*Working pressures in P.S.I

LNP

hex long nipple



HOKE® Pt. No.	Pipe	Working pressure		Cajon	Parker
BRASS	316 S/S	Size	Brass	S/S	Part No.
4LNP/2.00	4LNP/2.00-316	1/4	5700	9900	-4HLN-2.00 4-4MHLN-2
4LNP/2.50	4LNP/2.50-316	1/4	5700	9900	-4HLN-2.50 4-4MHLN-21/2
4LNP/3.00	4LNP/3.00-316	1/4	5700	9900	-4HLN-3.00 4-4MHLN-3

AP

adapter

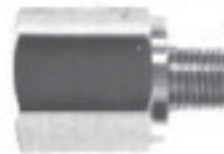


HOKE® Pt. No.	Pipe	*Working pressure		Cajon	Parker
BRASS	316 S/S	Size	Brass	S/S	Part No.
2AP	2AP-316	1/8	4200	7300	-2-A 2-2RA
4AP	4AP-316	1/4	4200	7300	-4-A 4-4RA
6AP	6AP-316	3/8	3400	5500	-6-A 6-6RA
8AP	8AP-316	1/2	2700	4900	-8-A 8-8RA
12AP	12AP-316	3/4	2100	3700	-12-A 12-12RA

(female NPT same as male NPT)

RAP

reducing adaptor

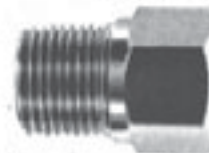


HOKE® Pt. No.	Fe-	Male	*Working pressure		Cajon	Parker
BRASS	316 S/S	Male	Size	Brass	S/S	Part No.
4RAP2	4RAP2-316	1/4	1/8	4200	7300	-4-RA-2 4-2RA
6RAP4	6RAP4-316	3/8	1/4	3400	5500	-6-RA-4 6-4RA
8RAP4	8RAP4-316	1/2	1/4	2700	4900	-8-RA-4 8-4RA
8RAP6	8RAP6-316	1/2	3/8	2700	4900	-8-RA-6 8-6RA
12RAP6	12RAP6-316	3/4	3/8	2100	3700	-12-RA-6 12-6RA
12RAP8	12RAP8-316	3/4	1/2	2100	3700	-12-RA-8 12-8RA
16RAP8	16RAP8-316	1	1/2	2500	4300	-16-RA-8 16-8RA
16RAP12	16RAP12-316	1	3/4	2500	4300	-16-RA-12 16-12RA

*Working pressures in P.S.I

RBP

reducing bushing



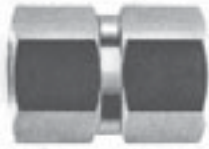
HOKE® Pt. No.	Fe-	Fe-	*Working pressure		Cajon	Parker
BRASS	316 S/S	Male	Male	Brass	S/S	Part No.
4RBP2	4RBP2-316	1/4	1/8	4200	7300	-4-RB-2 4-2RB
6RBP4	6RBP4-316	3/8	1/4	4200	7300	-6-RB-4 6-4RB
8RBP4	8RBP4-316	1/2	1/4	5700	9300	-8-RB-4 8-4RB
8RBP6	8RBP6-316	1/2	3/8	2900	4800	-8-RB-6 8-6RB
12RBP4	12RBP4-316	3/4	1/4	7300	13100	-----
12RBP6	12RBP6-316	3/4	3/8	5200	9400	12-RB-6 12-6RB
12RBP8	12RBP8-316	3/4	1/2	4000	7300	-12-RB-8 12-8RB
16RBP8	16RBP8-316	1	1/2	5600	9500	-16-RB-8 16-8RB
16RBP12	16RBP12-316	1	3/4	3200	5400	-16-RB-12 16-12RB

Fittings

FITTINGS BRASS & S/S

CGP

hex coupling



HOKE® Pt. No.		Pipe		Working pressure		Cajon	Parker
BRASS 316 S/S		Size	Size	Brass	S/S	Part No.	Part. No.
2CGP	2CGP-316	1/8		4200	7300	-2-HCG	2-2FHC
4CGP	4CGP-316	1/4		4200	7300	-4-HCG	4-4FHC
6CGP	6CGP-316	3/8		3400	5500	-6-HCG	6-6FHC
8CGP	8CGP-316	1/2		2700	4900	-8-HCG	8-8FHC
12CGP	12CGP-316	3/4		2100	3700	-12-HCG	12-12FHC
16CGP	16CGP-316	1		2500	4300	-16-HCG	16-16FHC

RCGP

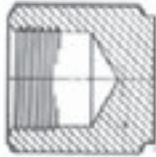
hex reducing coupling



HOKE® Pt. No.		Pipe		Working pressure		Cajon	Parker
BRASS 316 S/S		Size	Size	Brass	S/S	Part No.	Part. No.
4RCGP2	4RCGP2-316	1/4	1/8	4200	7300	-4-HRCG-2	4-2FHC
6RCGP4	6RCGP4-316	3/8	1/4	3400	5500	-6-HRCG-4	6-4FHC
8RCGP4	8RCGP4-316	1/2	1/4	2700	4900	-8-HRCG-4	8-4FHC
8RCGP6	8RCGP6-316	1/2	3/8	2700	4900	-8-HRCG-6	8-6FHC
12RCGP6	12RCGP6-316	3/4	3/8	2100	3700	-12-HRCG-6	12-6FHC
12RCGP8	12RCGP8-316	3/4	1/2	2100	3700	-12-HRCG-8	12-8FHC
16RCGP8	16RCGP8-316	1	1/2	2500	4300	-16-HRCG-8	16-8FHC
16RCGP12	16RCGP12-316	1	3/4	2500	4300	-16-HRCG-12	16-12FHC

CPP

pipe cap



HOKE® Pt. No.		Pipe		Working pressure		Cajon	Parker
BRASS 316 S/S		Size	Size	Brass	S/S	Part No.	Part. No.
2CPP	2CPP-316	1/8		4200	7300	-2-CP	2CP
4CPP	4CPP-316	1/4		4200	7300	-4-CP	4CP
6CPP	6CPP-316	3/8		3400	5500	-6-CP	6CP
8CPP	8CPP-316	1/2		2700	4900	-8-CP	8CP
12CPP	12CPP-316	3/4		2100	3700	-12-CP	-----
16CPP	16CPP-316	1		2500	4300	-16-CP	-----

PP

hex plug



HOKE® Pt. No.		Pipe		Working pressure		Cajon	Parker
BRASS 316 S/S		Size	Size	Brass	S/S	Part No.	Part. No.
2PP	2PP-316	1/8				-2-P	1/8HP
4PP	4PP-316	1/4				-4-P	1/4HP
6PP	6PP-316	3/8			SEE	-6-P	3/8HP
8PP	8PP-316	1/2			MATED	-8-P	1/2HP
12PP	12PP-316	3/4			FITTING	-12-P	3/4HP
16PP	16PP-316	1			PRESSURE	-16-P	1HP
					RATING		

*Working pressures in P.S.I

FLP

elbow female



HOKE® Pt. No.		Pipe		Working pressure		Cajon	Parker
BRASS 316 S/S		Size	Size	Brass	S/S	Part No.	Part. No.
2FLP	2FLP-316	1/8		3600	5600	-2-E	2-2FE
4FLP	4FLP-316	1/4		2900	4600	-4-E	4-4FE
6FLP	6FLP-316	3/8		2300	3700	-6-E	6-6FE
8FLP	8FLP-316	1/2		2200	3500	-8-E	8-8FE
12FLP	12FLP-316	3/4		2200	3400	-12-E	12-12FE

SLP

street elbow



HOKE® Pt. No.		Pipe		Working pressure		Cajon	Parker
BRASS 316 S/S		Size	Size	Brass	S/S	Part No.	Part. No.
2SLP	2SLP-316	1/8		3600	5600	-2-SE	2-2SE
4SLP	4SLP-316	1/4		2900	4600	-4-SE	4-4SE
6SLP	6SLP-316	3/8		2300	3700	-6-SE	6-6SE
8SLP	8SLP-316	1/2		2200	3500	-8-SE	8-8SE
12SLP	12SLP-316	3/4		2200	3400	-12-SE	12-12SE

RSLP

reducing street elbow



HOKE® Pt. No.		Pipe		Working pressure		Cajon	Parker
BRASS 316 S/S		Male	Female	Brass	S/S	Part No.	Part. No.
6RSLP4	6RSLP4-316	1/4	3/8	2300	3700	-6-RSE-4	6-4SE
8RSLP4	8RSLP4-316	1/4	1/2	2200	3500	-8-RSE-4	8-4SE

MLP


male elbow



HOKE® Pt. No.		Pipe		Working pressure		Cajon	Parker
BRASS 316 S/S		Size	Size	Brass	S/S	Part No.	Part. No.
2MLP	2MLP-316	1/8		6200	9700	-2-ME	2-2ME
4MLP	4MLP-316	1/4		5000	7800	-4-ME	4-4ME
6MLP	6MLP-316	3/8		4800	7500	-6-ME	6-6ME
8MLP	8MLP-316	1/2		4700	7400	-8-ME	8-8ME
12MLP	12MLP-316	3/4		4400	6900	-12-ME	12-12ME


Call Aqua Tech for all Brass and Stainless Steel Fittings.

FITTINGS BRASS & S/S




FTP
female tee

HOKE® Pt. No.		Pipe Size	*Working pressure		Cajon Part No.	Parker Part. No.
BRASS	316 S/S		Brass	S/S		
2FTP	2FTP-316	1/8	3600	5600	-2-T	2-2-2FT
4FTP	4FTP-316	1/4	2900	4600	-4-T	4-4-4FT
6FTP	6FTP-316	3/8	2300	3700	-6-T	6-6-6FT
8FTP	8FTP-316	1/2	2200	3500	-8-T	8-8-8FT




STP
street tee

HOKE® Pt. No.		Pipe Size	*Working pressure		Cajon Part No.	Parker Part. No.
BRASS	316 S/S		Brass	S/S		
2STP	2STP-316	1/8	3600	5600	-2-ST	2-2-2ST
4STP	4STP-316	1/4	2800	4500	-4-ST	4-4-4ST
6STP	6STP-316	3/8	2300	3700	-6-ST	6-6-6ST
8STP	8STP-316	1/2	2200	3500	-8-ST	8-8-8ST



FTBM
male branch tee


HOKE® Pt. No.		Pipe Size	*Working pressure		Cajon Part No.	Parker Part. No.
BRASS	316 S/S		Brass	S/S		
2FT/BM2	2FT-316/BM2	1/8	6200	9700	-2-BT	2-2-2MBT
4FT/BM4	4FT-316/BM4	1/4	2900	4600	-4-BT	4-4-4MBT
6FT/BM6	6FT-316/BM6	3/8	2300	3700	-6-BT	6-6-6MBT
8FT/BM8	8FT-316/BM8	1/2	2200	3500	-8-BT	8-8-8MBT



MTP
male tee

HOKE® Pt. No.		Pipe Size	*Working pressure		Cajon Part No.	Parker Part. No.
BRASS	316 S/S		Brass	S/S		
2MTP	2MTP-316	1/8	6200	9700	-2-MT	2-2-2MT
4MTP	4MTP-316	1/4	5000	7800	-4-MT	4-4-4MT
6MTP	6MTP-316	3/8	4800	7500	-6-MT	6-6-6MT
8MTP	8MTP-316	1/2	4700	7400	-8-MT	8-8-8MT
12MTP	12MTP-316	3/4	4400	6900	*****	*****

*Working pressures in P.S.I




CSP
CROSS

HOKE® Pt. No.		Pipe Size	*Working pressure		Cajon Part No.	Parker Part. No.
BRASS	316 S/S		Brass	S/S		
2CSP	2CSP-316	1/8	6900	10,800	-2-CS	2-2FX
4CSP	4CSP-316	1/4	2800	4500	-4-CS	4-4FX
6CSP	6CSP-316	3/8	4600	7200	-6-CS	6-6FX
8CSP	8CSP-316	1/2	2200	3500	-8-CS	8-8FX

- PIPE FITTING FEATURES:**
1. Fitting design meets the requirements of ANSI B 31.1 Power Piping Code, ANSI B 31.3 Chemical Plant and Petroleum Refinery Piping, and Section VIII of ASME Boiler & Pressure Vessel Code.
 2. All fittings are machined from materials which meet ASTM specifications.
 3. 316 Stainless Steel fittings are heat traceable.
 4. Available in a wide variety of shapes and sizes.
 5. Threads exceed the requirements of ANSI B 1.20.1 for tapered pipe threads (NPT).
 6. Protective end caps prevent damage to exposed threads.

Check Valves & Micron Filters



Needle Valves



Ball Valves



TRIPLE-LOK® FITTINGS

Part No. Examples



4 C5BX-S



4 C5X-S



4 C5OX-S



4 CBTX-S



4 CTX-S



4 C6BX-S



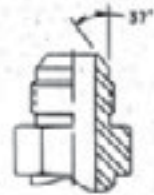
4 C6X-S

Example Discriptions:

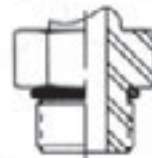
- 4 C5BX-S
Assembled (with nut and sleeve) male straight thread 90 degree elbow - 1/4 tube to 7/16-20 straight threads. The material is steel.
- 4 C5X-S
Same as above without the nut, sleeve, and O-ring.
- 4 C5OX-S
Same as above but includes the O-ring.
- 4 CBTX-S
Assembled (with nut and sleeve) male 90 degree elbow - 1/4 tube to 1/8 male pipe thread.
- 4 CTX-S
Same as above without the nut and sleeve.
- 4 C6BX-S
Assembled swivel nut 90 degree elbow (with nut and sleeve) - 1/4 tube to 1/4 female 37 degree swivel nut.
- 4 C6X-S
Same as above without the nut and sleeve.

Helpful Hints

Thread Guides for Triple-Lok Fittings from Aqua Tech II



Dash Size	Tube O.D.	Triple-Lok SAE 37 Degree Flare (J514) UN/UNF-2A (ISO 725)
2	1/8	5/16-24
3	3/16	3/8-24
4	1/4	7/16-20
5	5/16	1/2-20
6	3/8	9/16-18
8	1/2	3/4-16
10	5/8	7/8-14
12	3/4	1 1/16-12
14	7/8	1 3/16-12
16	1	1 5/16-12
20	1 1/4	1 5/8-12
24	1 1/2	1 7/8-12
32	2	2 1/2-12



Nominal Tube O.D.	SAE Straight Thread (J1926) UN/UNF-2A (ISO 725)		NPT/NPTF (SAE J476)	
	Dash Size	Thread Size	Dash Size	Thread Size
1/8	2	5/16-24	2	1/8-27
3/16	3	3/8-24	2	1/8-27
1/4	4	7/16-20	2	1/8-27
5/16	5	1/2-20	2	1/8-27
3/8	6	9/16-18	4	1/4-18
1/2	8	3/4-16	6	3/8-18
5/8	10	7/8-14	8	1/2-14
3/4	12	1 1/16-12	12	3/4-14
7/8	14	1 3/16-12	12	3/4-14
1	16	1 5/16-12	16	1-11 1/2
1 1/4	20	1 5/8-12	20	1 1/4-11 1/2
1 1/2	24	1 7/8-12	24	1 1/2-11 1/2
2	32	2 1/2-12	32	2-11 1/2

Triple-Lok	Steel		Brass		Stainless Steel	
	ASTM	Type	ASTM	Type	ASTM	Type
Forged Bodies	A576	12L14	B124	CA377	A182	316
Bar stock Bodies	A108	12L14	B16	CA360	A479	316
Cold Formed Tube Nuts	A576	C1010	B21	CA462	A276	316
Bar stock Tube Nuts	A108	12L14	B16	CA360	A479	316
Cold Formed Tube Sleeves	SAE 1020		B111	CA443 CA444	-	-
Bar stock Sleeves	A108	C1137	B371	CA694	A479	316

Standard Material Specifications for Triple-Lok Fittings

HOKE® VALVES/GYROLOK® FITTINGS

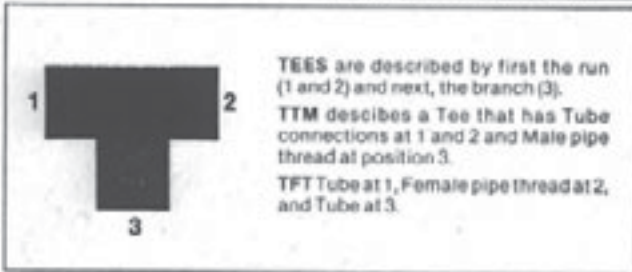
How to Order:

The part number describes completely assembled fittings.

4	CM	4	-316
TUBE O.D. in sixteenths of an inch 1/4" O.D.	FITTING TYPE (Connector Male)	PIPE SIZE in sixteenths of an inch 1/4" NPT	MATERIAL Brass- No suffix 316 S/Steel- -316 Steel- -S Monel- -M

AQUA TECH stocks Brass and Stainless Steel fittings.

DASH CODE	PIPE/TUBE SIZE	DASH CODE	PIPE /TUBE SIZE
1	1/16"	8	1/2"
2	1/8	10	5/8
3	3/16	12	3/4
4	1/4	14	7/8
5	5/16	16	1
6	3/8	*PIPE/TUBE sizes in inches	



HOKE® VALVES WITH GYROLOK TUBE FITTINGS
(Examples of popular Gyrolok ended HOKE® Valves)



NEEDLE VALVES



2-WAY BALL VALVES

CM

connector male



GYROLOK® Pt. No.		Tube O.D.	Pipe Size	Swagelok Part No.	Parker CPI Part. No.
BRASS	316 S/S				
1CM1	1CM1-316	1/16	1/16	100-1-1	1-1FBZ
1CM2	1CM2-316	1/16	1/8	100-1-2	1-2FBZ
2CM1	2CM1-316	1/8	1/16	200-1-1	2-1FBZ
2CM2	2CM2-316	1/8	1/8	200-1-2	2-2FBZ
2CM4	2CM4-316	1/8	1/4	200-1-4	2-4FBZ
3CM2	3CM2-316	3/16	1/8	300-1-2	3-2FBZ
3CM4	3CM4-316	3/16	1/4	300-1-4	3-4FBZ
4CM2	4CM2-316	1/4	1/8	400-1-2	4-2FBZ
4CM4	4CM4-316	1/4	1/4	400-1-4	4-4FBZ
4CM6	4CM6-316	1/4	3/8	400-1-6	4-6FBZ
4CM8	4CM8-316	1/4	1/2	400-1-8	4-8FBZ
5CM2	5CM2-316	5/16	1/8	500-1-2	5-2FBZ
5CM4	5CM4-316	5/16	1/4	500-1-4	5-4FBZ
6CM2	6CM2-316	3/8	1/8	600-1-2	6-2FBZ
6CM4	6CM4-316	3/8	1/4	600-1-4	6-4FBZ
6CM6	6CM6-316	3/8	3/8	600-1-6	6-6FBZ
6CM8	6CM8-316	3/8	1/2	600-1-8	6-8FBZ
8CM4	8CM4-316	1/2	1/4	810-1-4	8-4FBZ
8CM6	8CM6-316	1/2	3/8	810-1-6	8-6FBZ
8CM8	8CM8-316	1/2	1/2	810-1-8	8-8FBZ
8CM12	8CM12-316	1/2	3/4	810-1-12	8-12FBZ
10CM6	10CM6-316	5/8	3/8	1010-1-6	10-6FBZ
10CM8	10CM8-316	5/8	1/2	1010-1-8	10-8FBZ
12CM8	12CM8-316	3/4	1/2	1210-1-8	12-8FBZ
12CM12	12CM12-316	3/4	3/4	1210-1-12	12-12FBZ
14CM12	14CM12-316	7/8	3/4	1410-1-12	14-12FBZ
16CM12	16CM12-316	1	3/4	1610-1-12	16-12FBZ
16CM16	16CM16-316	1	1	1610-1-16	16-16FBZ

BCM

bulkhead connector male



GYROLOK® Pt. No.		Tube O.D.	Pipe Size	Swagelok Part No.	Parker CPI Part. No.
BRASS	316 S/S				
2BCM2	2BCM2-316	1/8	1/8	200-11-2	2-2FH2BZ
3BCM2	3BCM2-316	3/16	1/8
4BCM2	4BCM2-316	1/4	1/8	400-11-2	4-2FH2BZ
4BCM4	4BCM4-316	1/4	1/4	400-11-4	4-4FH2BZ
6BCM4	6BCM4-316	3/8	1/4	600-11-4	6-4FH2BZ
8BCM6	8BCM6-316	1/2	3/8	810-11-6	8-6FH2BZ
8BCM8	8BCM8-316	1/2	1/2	810-11-8	8-8FH2BZ

BCF

bulkhead connector female



GYROLOK® Pt. No.		Tube O.D.	Pipe Size	Swagelok Part No.	Parker CPI Part. No.
BRASS	316 S/S				
2BCF2	2BCF2-316	1/8	1/8	200-71-2	2-2GH2BZ
4BCF2	4BCF2-316	1/4	1/8	400-71-2	4-2GH2BZ
4BCF4	4BCF4-316	1/4	1/4	400-71-4	4-4GH2BZ
6BCF4	6BCF4-316	3/8	1/4	600-71-4	6-4GH2BZ
8BCF6	8BCF6-316	1/2	3/8	810-71-6	8-6GH2BZ
8BCF8	8BCF8-316	1/2	1/2	810-71-8	8-8GH2BZ

FITTING BRASS & S/S

CF

connector female



GYROLOK® Pt. No.		Tube	Pipe	Swagelok	Parker CPI
BRASS	316 S/S	O.D.	Size	Part No.	Part. No.
1CF1	1CF1-316	1/16	1/16	-----	-----
2CF2	2CF2-316	1/8	1/8	200-7-2	2-2GBZ
2CF4	2CF4-316	1/8	1/4	200-7-4	2-4GBZ
3CF2	3CF2-316	3/16	1/8	300-7-2	3-2GBZ
4CF2	4CF2-316	1/4	1/8	400-7-2	4-2GBZ
4CF4	4CF4-316	1/4	1/4	400-7-4	4-4GBZ
4CF6	4CF6-316	1/4	3/8	400-7-6	4-6GBZ
4CF8	4CF8-316	1/4	1/2	400-7-8	4-8GBZ
5CF2	5CF2-316	5/16	1/8	500-7-2	5-2GBZ
5CF4	5CF4-316	5/16	1/4	500-7-4	5-4GBZ
6CF2	6CF2-316	3/8	1/8	600-7-2	6-2GBZ
6CF4	6CF4-316	3/8	1/4	600-7-4	6-4GBZ
6CF6	6CF6-316	3/8	3/8	600-7-6	6-6GBZ
6CF8	6CF8-316	3/8	1/2	600-7-8	6-8GBZ
8CF4	8CF4-316	1/2	1/4	810-7-4	8-4GBZ
8CF6	8CF6-316	1/2	3/8	810-7-6	8-6GBZ
8CF8	8CF8-316	1/2	1/2	810-7-8	8-8GBZ
10CF6	10CF6-316	5/8	3/8	1010-7-6	10-6GBZ
10CF8	10CF8-316	5/8	1/2	1010-7-8	10-8GBZ
12CF8	12CF8-316	3/4	1/2	1210-7-8	12-8GBZ
12CF12	12CF12-316	3/4	3/4	1210-7-12	12-12GBZ
14CF12	14CF12-316	7/8	3/4	1410-7-12	14-12GBZ
16CF12	16CF12-316	1	3/4	-----	-----
16CF16	16CF16-316	1	1	1610-7-16	16-16GBZ

U

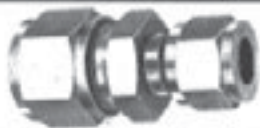
union



GYROLOK® Pt. No.		Tube	Pipe	Swagelok	Parker CPI
BRASS	316 S/S	O.D.	Size	Part No.	Part. No.
1U	1U-316	1/16	-----	100-6	1-1 HBZ
2U	2U-316	1/8	-----	200-6	2-2 HBZ
3U	3U-316	3/16	-----	300-6	3-3 HBZ
4U	4U-316	1/4	-----	400-6	4-4 HBZ
5U	5U-316	5/16	-----	500-6	5-5 HBZ
6U	6U-316	3/8	-----	600-6	6-6 HBZ
8U	8U-316	1/2	-----	810-6	8-8 HBZ
10U	10U-316	5/8	-----	1010-6	10-10 HBZ
12U	12U-316	3/4	-----	1210-6	12-12 HBZ
14U	14U-316	7/8	-----	1410-6	14-14 HBZ
16U	16U-316	1	-----	1610-6	16-16 HBZ

RU

reducing union

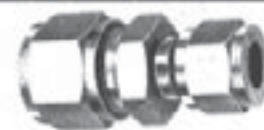


GYROLOK® Pt. No.		Tube	Tube	Swagelok	Parker CPI
BRASS	316 S/S	O.D.	O.D.	Part No.	Part. No.
2RU1	2RU1-316	1/8	1/16	200-6-1	2-1HBZ
3RU1	3RU1-316	3/16	1/16	300-6-1	3-1HBZ
3RU2	3RU2-316	3/16	1/8	300-6-1	3-1HBZ
4RU1	4RU1-316	1/4	1/16	400-6-1	4-1HBZ
4RU2	4RU2-316	1/4	1/8	400-6-2	4-2HBZ

continued

RU

reducing union



GYROLOK® Pt. No.		Tube	Tube	Swagelok	Parker CPI
BRASS	316 S/S	O.D.	O.D.	Part No.	Part. No.
4RU3	4RU3-316	1/4	3/16	400-6-3	4-3HBZ
5RU4	5RU4-316	5/16	1/4	500-6-4	5-4HBZ
6RU4	6RU4-316	3/8	1/4	600-6-4	6-4HBZ
6RU5	6RU5-316	3/8	5/16	600-6-5	6-5HBZ
8RU4	8RU4-316	1/2	1/4	810-6-4	8-4HBZ
8RU6	8RU6-316	1/2	3/8	810-6-6	8-6HBZ
10RU8	10RU8-316	5/8	1/2	-----	-----
12RU8	12RU8-316	3/4	1/2	1210-6-8	12-8HBZ
12RU10	12RU10-316	3/4	5/8	1210-6-10	12-10HBZ
14RU12	14RU12-316	7/8	3/4	-----	-----
16RU12	16RU12-316	1	3/4	-----	-----
16RU14	16RU14-316	1	7/8	-----	-----

BU

bulkhead union



GYROLOK® Pt. No.		Tube	Pipe	Swagelok	Parker CPI
BRASS	316 S/S	O.D.	Size	Part No.	Part. No.
2BU	2BU-316	1/8	-----	200-61	2-2WBZ
3BU	3BU-316	3/16	-----	300-61	3-3WBZ
4BU	4BU-316	1/4	-----	400-61	4-4WBZ
5BU	5BU-316	5/16	-----	500-61	5-5WBZ
6BU	6BU-316	3/8	-----	600-61	6-6WBZ
8BU	8BU-316	1/2	-----	810-61	8-8WBZ
10BU	10BU-316	5/8	-----	1010-61	10-10WBZ
12BU	12BU-316	3/4	-----	1210-61	12-12WBZ
14BU	14BU-316	7/8	-----	-----	-----
16BU	16BU-316	1	-----	-----	-----

LU

elbow / union



GYROLOK® Pt. No.		Tube	Tube	Swagelok	Parker CPI
BRASS	316 S/S	O.D.	O.D.	Part No.	Part. No.
1LU	1LU-316	1/16	-----	-----	-----
2LU	2LU-316	1/8	-----	200-9	2-2EBZ
3LU	3LU-316	3/16	-----	300-9	3-3EBZ
4LU	4LU-316	1/4	-----	400-9	4-4EBZ
5LU	5LU-316	5/16	-----	500-9	5-5EBZ
6LU	6LU-316	3/8	-----	600-9	6-6EBZ
8LU	8LU-316	1/2	-----	810-9	8-8EBZ
10LU	10LU-316	5/8	-----	1010-9	10-10EBZ
12LU	12LU-316	3/4	-----	1210-9	12-12EBZ
14LU	14LU-316	7/8	-----	1410-9	14-14EBZ
16LU	16LU-316	1	-----	1610-9	16-16EBZ

Aqua Tech for all Brass & Stainless Fittings!!

FITTINGS BRASS & S/S

LM

elbow / male



GYROLOK® Pt. No.		Tube	Pipe	Swagelok	Parker CPI
BRASS	316 S/S	O.D.	Size	Part No.	Part No.
1LM1	1LM1-316	1/16	1/16	100-2-1	1-1CBZ
1LM2	1LM2-316	1/16	1/8	100-2-2	1-2CBZ
2LM2	2LM2-316	1/8	1/8	200-2-2	2-2CBZ
2LM4	2LM4-316	1/8	1/4	200-2-4	2-4CBZ
3LM2	3LM2-316	3/16	1/8	300-2-2	3-2CBZ
4LM2	4LM2-316	1/4	1/8	400-2-2	4-2CBZ
4LM4	4LM4-316	1/4	1/4	400-2-4	4-4CBZ
4LM6	4LM6-316	1/4	3/8	400-2-6	4-6CBZ
4LM8	4LM8-316	1/4	1/2	400-2-8	4-8CBZ
5LM2	5LM2-316	5/16	1/8	500-2-2	5-2CBZ
5LM4	5LM4-316	5/16	1/4	500-2-4	5-4CBZ
6LM2	6LM2-316	3/8	1/8	600-2-2	6-2CBZ
6LM4	6LM4-316	3/8	1/4	600-2-4	6-4CBZ
6LM6	6LM6-316	3/8	3/8	600-2-6	6-6CBZ
6LM8	6LM8-316	3/8	1/2	600-2-8	6-8CBZ
8LM4	8LM4-316	1/2	1/4	810-2-4	8-4CBZ
8LM6	8LM6-316	1/2	3/8	810-2-6	8-6CBZ
8LM8	8LM8-316	1/2	1/2	810-2-8	8-8CBZ
10LM6	10LM6-316	5/8	3/8	1010-2-6	10-6CBZ
10LM8	10LM8-316	5/8	1/2	1010-2-8	10-8CBZ
12LM8	12LM8-316	3/4	1/2	1210-2-8	12-8CBZ
12LM12	12LM12-316	3/4	3/4	1210-2-12	12-12CBZ
14LM12	14LM12-316	7/8	3/4	1410-2-12	14-12CBZ
16LM12	16LM12-316	1	3/4	1610-2-12	16-12CBZ
16LM16	16LM16-316	1	1	1610-2-16	16-16CBZ

LF

elbow / female



GYROLOK® Pt. No.		Tube	Pipe	Swagelok	Parker CPI
BRASS	316 S/S	O.D.	Size	Part No.	Part No.
1LF1	1LF1-316	1/16	1/16	-----	-----
1LF2	1LF2-316	1/16	1/8	-----	-----
2LF2	2LF2-316	1/8	1/8	200-8-2	2-2DBZ
2LF4	2LF4-316	1/8	1/4	-----	2-4DBZ
3LF2	3LF2-316	3/16	1/8	300-8-2	3-2DBZ
4LF2	4LF2-316	1/4	1/8	400-8-2	4-2DBZ
4LF4	4LF4-316	1/4	1/4	400-8-4	4-4DBZ
5LF2	5LF2-316	5/16	1/8	-----	-----
5LF4	5LF4-316	5/16	1/4	500-8-4	5-4DBZ
6LF2	6LF2-316	3/8	1/8	600-8-2	6-2DBZ
6LF4	6LF4-316	3/8	1/4	600-8-4	6-4DBZ
6LF6	6LF6-316	3/8	3/8	600-8-6	6-6DBZ
8LF4	8LF4-316	1/2	1/4	810-8-4	8-4DBZ
8LF6	8LF6-316	1/2	3/8	810-8-6	8-6DBZ
8LF8	8LF8-316	1/2	1/2	810-8-8	8-8DBZ
10LF6	10LF6-316	5/8	3/8	-----	-----
10LF8	10LF8-316	5/8	1/2	1010-8-8	10-8DBZ
12LF8	12LF8-316	3/4	1/2	1210-8-8	12-8DBZ
12LF12	12LF12-316	3/4	3/4	1210-8-12	12-12DBZ
14LF12	14LF12-316	7/8	3/4	-----	-----
16LF12	16LF12	1	3/4	-----	-----
16LF16	16LF16-316	1	1	-----	-----

R

reducer



GYROLOK® Pt. No.		Tube	Tube	Swagelok	Parker CPI
BRASS	316 S/S	O.D.	O.D.	Part No.	Part No.
1R2	1R2-316	1/16	1/8	100-R-2	2-1TRBZ
1R4	1R4-316	1/16	1/4	100-R-4	4-1TRBZ
2R3	2R3-316	1/8	3/16	200-R-3	3-2TRBZ
2R4	2R4-316	1/8	1/4	200-R-4	4-2TRBZ
2R5	2R5-316	1/8	5/16	-----	-----
2R6	2R6-316	1/8	3/8	200-R-6	6-2TRBZ
3R4	3R4-316	3/16	1/4	300-R-4	4-3TRBZ
3R5	3R5-316	3/16	5/16	-----	-----
3R6	3R6-316	3/16	3/8	-----	-----
3R8	3R8-316	3/16	1/2	-----	-----
4R5	4R5-316	1/4	5/16	400-R5	5-4TRBZ
4R6	4R6-316	1/4	3/8	400-R-6	6-4TRBZ
4R8	4R8-316	1/4	1/2	400-R-8	8-4TRBZ
4R10	4R10-316	1/4	5/8	400-R-10	10-4TRBZ
5R6	5R6-316	5/16	3/8	500-R-6	6-5TRBZ
5R8	5R8-316	5/16	1/2	-----	-----
5R10	5R10-316	5/16	5/8	-----	-----
5R12	5R12-316	5/16	3/4	-----	-----
6R8	6R8-316	3/8	1/2	600-R-8	8-6TRBZ
6R10	6R10-316	3/8	5/8	600-R-10	10-6TRBZ
6R12	6R12-316	3/8	3/4	600-R-12	12-6TRBZ
6R14	6R14-316	3/8	7/8	-----	-----
8R10	8R10-316	1/2	5/8	810-R-10	10-8-TRBZ
8R12	8R12-316	1/2	3/4	810-R-22	12-8TRBZ
8R16	8R16-316	1/2	1	810-R-16	16-8-TRBZ
10R12	10R12-316	5/8	3/4	-----	-----
10R14	10R14-316	5/8	7/8	-----	-----
10R16	10R16-316	5/8	1	-----	-----
12R14	12R14-316	3/4	7/8	-----	-----
12R16	12R16-316	3/4	1	1210-R-16	16-12TRBZ
14R16	14R16-316	7/8	1	-----	-----

TTT

all tube / tee



GYROLOK® Pt. No.		Tube	Tube	Swagelok	Parker CPI
BRASS	316 S/S	O.D.	O.D.	Part No.	Part No.
1TTT	1TTT-316	1/16	-----	100-3	1-1-1JBZ
2TTT	2TTT-316	1/8	-----	200-3	2-2-2JBZ
3TTT	3TTT-316	3/16	-----	300-3	3-3-3JBZ
4TTT	4TTT-316	1/4	-----	400-3	4-4-4JBZ
5TTT	5TTT-316	5/16	-----	500-3	5-5-5JBZ
6TTT	6TTT-316	3/8	-----	600-3	6-6-6JBZ
8TTT	8TTT-316	1/2	-----	810-3	8-8-8JBZ
10TTT	10TTT-316	5/8	-----	1010-3	10-10-10JBZ
12TTT	12TTT-316	3/4	-----	1210-3	12-12-12JBZ
14TTT	14TTT-316	7/8	-----	1410-3	14-14-14JBZ
16TTT	16TTT-316	1	-----	1610-3	16-16-16JBZ

Aqua Tech for all Brass & Stainless Fittings!!

Fittings

FITTINGS, BRASS & S/S

TMT

tee



GYROLOK® Pt. No.		Tube	Pipe	Swagelok	Parker CPI
BRASS	316 S/S	O.D.	Size	Part No.	Part. No.
1TMT1	1TMT1-316	1/16	1/16	-----	-----
2TMT2	2TMT2-316	1/8	1/8	200-3TMT	2-2-2RBZ
3TMT2	3TMT2-316	3/16	1/8	300-3TMT	3-2-3RBZ
4TMT2	4TMT2-316	1/4	1/8	400-3TMT	4-2-4RBZ
4TMT4	4TMT4-316	1/4	1/4	400-3-4TMT	4-4-4RBZ
5TMT2	5TMT2-316	5/16	1/8	500-3TMT	5-2-5RBZ
6TMT4	6TMT4-316	3/8	1/4	600-3TMT	6-4-6RBZ
8TMT6	8TMT6-316	1/2	3/8	810-3TMT	8-6-8RBZ
8TMT8	8TMT8-316	1/2	1/2	810-3TMT	8-8-8RBZ
10TMT8	10TMT8-316	5/8	1/2	-----	-----
12TMT12	12TMT12-316	3/4	3/4	1210-3TMT	12-12-12RBZ
14TMT12	14TMT12-316	7/8	3/4	-----	-----
16TMT12	16TMT12-316	1	3/4	-----	-----
16TMT16	16TMT16-316	1	1	-----	-----

TTM

tee



GYROLOK® Pt. No.		Tube	Pipe	Swagelok	Parker CPI
BRASS	316 S/S	O.D.	Size	Part No.	Part. No.
1TTM1	1TTM1-316	1/16	1/16	-----	-----
2TTM2	2TTM2-316	1/8	1/8	200-3TTM	2-2-2SBZ
2TTM4	2TTM4-316	1/8	1/4	-----	-----
3TTM2	3TTM2-316	3/16	1/8	300-3TTM	3-3-2SBZ
4TTM2	4TTM2-316	1/4	1/8	400-3TTM	4-4-2SBZ
4TTM4	4TTM4-316	1/4	1/4	400-3-4TTM	4-4-4SBZ
5TTM2	5TTM2-316	5/16	1/8	500-3TTM	5-5-2SBZ
6TTM4	6TTM4-316	3/8	1/4	600-3TTM	6-6-4SBZ
8TTM6	8TTM6-316	1/2	3/8	810-3TTM	8-8-6SBZ
8TTM8	8TTM8-316	1/2	1/2	810-3TTM	8-8-8SBZ
10TTM6	10TTM6-316	5/8	3/8	-----	-----
10TTM8	10TTM8-316	5/8	1/2	1010-3TTM	10-10-8SBZ
12TTM12	12TTM12-316	3/4	3/4	1210-3TTM	12-12-12SBZ
14TTM12	14TTM12-316	7/8	3/4	-----	-----
16TTM12	16TTM12-316	1	3/4	-----	-----
16TTM16	16TTM16-316	1	1	-----	-----

Aqua Tech for all Brass & Stainless Fittings!

Manufacturer's literature available on request!

GYROLOK® / PARKER® / SWAGELOK®

TFT

tee



GYROLOK® Pt. No.		Tube	Tube	Swagelok	Parker CPI
BRASS	316 S/S	O.D.	O.D.	Part No.	Part. No.
1TFT1	1TFT1-316	1/16	1/16	-----	-----
2TFT2	2TFT2-316	1/8	1/8	200-3TTF	2-2-2MBZ
3TFT2	3TFT2-316	3/16	1/8	-----	-----
4TFT2	4TFT2-316	1/4	1/8	400-3TTF	4-2-4MBZ
4TFT4	4TFT4-316	1/4	1/4	400-3-4TTF	4-4-4MBZ
5TFT2	5TFT2-316	5/16	1/8	-----	-----
6TFT4	6TFT4-316	3/8	1/4	600-3TTF	6-4-6MBZ
8TFT6	8TFT6-316	1/2	3/8	810-3TTF	8-6-8MBZ
10TFT8	10TFT8-316	5/8	1/2	1010-3TTF	10-8-10MBZ
12TFT12	12TFT12-316	3/4	3/4	1210-3TTF	12-12-12MBZ
14TFT12	14TFT12-316	7/8	3/4	-----	-----
16TFT12	16TFT12-316	1	3/4	-----	-----
16TFT16	16TFT16-316	1	1	-----	-----

TTF

tee



GYROLOK® Pt. No.		Tube	Pipe	Swagelok	Parker CPI
BRASS	316 S/S	O.D.	Size	Part No.	Part. No.
1TTF1	1TTF1-316	1/16	1/16	-----	-----
2TTF2	2TTF2-316	1/8	1/8	200-3TTF	2-2-2OBZ
3TTF2	3TTF2-316	3/16	1/8	-----	-----
4TTF2	4TTF2-316	1/4	1/8	400-3TTF	2-2-2OBZ
4TTF4	4TTF4-316	1/4	1/4	400-3-4TTF	4-4-4OBZ
5TTF2	5TTF2-316	5/16	1/8	-----	-----
6TTF4	6TTF4-316	3/8	1/4	600-3TTF	6-6-4OBZ
8TTF6	8TTF6-316	1/2	3/8	810-3TTF	8-8-6OBZ
10TTF8	10TTF8-316	5/8	1/2	1010-3TTF	10-10-8OBZ
12TTF12	12TTF12-316	3/4	3/4	1210-3TTF	12-12-12OBZ
14TTF12	14TTF12-316	7/8	3/4	-----	-----
16TTF12	16TTF12-316	1	3/4	-----	-----
16TTF16	16TTF16-316	1	1	-----	-----

BA

bulkhead adapter



GYROLOK® Pt. No.		Tube	Pipe	Swagelok	Parker CPI
BRASS	316 S/S	O.D.	Size	Part No.	Part. No.
2BA2	2BA2-316	1/8	-----	200-R1-2	2-2T2H2BZ
3BA3	3BA3-316	3/16	-----	-----	-----
4BA4	4BA4-316	1/4	-----	400-R1-4	4-4T2H2BZ
5BA5	5BA5-316	5/16	-----	500-R1-5	5-5T2H2BZ
6BA6	6BA6-316	3/8	-----	600-R1-6	6-6T2H2BZ
8BA8	8BA8-316	1/2	-----	810-R1-8	8-8T2H2BZ
10BA10	10BA10-316	5/8	-----	-----	-----
12BA12	12BA12-316	3/4	-----	-----	-----
14BA14	14BA14-316	7/8	-----	-----	-----
16BA16	16BA16-316	1	-----	-----	-----

FITTINGS, BRASS & S/S

COM



connector / "O" ring male

GYROLOK® Pt. No.		Tube	Pipe	Swagelok	Parker CPI
BRASS	316 S/S	O.D.	Size	Part No.	Part. No.
1COM2	1COM2-316	1/16	1/8	-----	-----
2COM2	2COM2-316	1/8	1/8	200-1-2-OR	2-2ZHBS
2COM4	2COM4-316	1/8	1/4	-----	-----
3COM2	3COM2-316	3/16	1/8	-----	-----
3COM4	3COM4-316	3/16	1/4	-----	-----
4COM2	4COM2-316	1/4	1/8	400-1-2-OR	4-2ZHBS
4COM4	4COM4-316	1/4	1/4	400-1-4-OR	4-4ZHBS
4COM6	4COM6-316	1/4	3/8	-----	-----
5COM2	5COM2-316	5/16	1/8	-----	-----
5COM4	5COM4-316	5/16	1/4	-----	-----
6COM2	6COM2-316	3/8	1/8	600-1-2-OR	6-2ZHBS
6COM4	6COM4-316	3/8	1/4	-----	-----
6COM6	6COM6-316	3/8	3/8	-----	-----
6COM8	6COM8-316	3/8	1/2	-----	-----
8COM4	8COM4-316	1/2	1/4	-----	-----
8COM6	8COM6-316	1/2	3/8	-----	-----
8COM8	8COM8-316	1/2	1/2	-----	-----
10COM8	10COM8-316	5/8	1/2	-----	-----
10COM12	10COM12-316	5/8	3/4	-----	-----
12COM8	12COM8-316	3/4	1/2	-----	-----
12COM12	12COM12-316	3/4	3/4	-----	-----
16COM12	16COM12-316	1	3/4	-----	-----
16COM16	16COM16-316	1	1	-----	-----

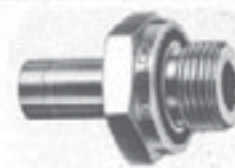
COS



connector / "O" ring straight

GYROLOK® Pt. No.		Tube	Thread	Swagelok	Parker CPI
BRASS	316 S/S	O.D.	Size	Part No.	Part. No.
1COS	1COS-316	1/16	5/16-24	100-1-OR	1-2ZHBA5
2COS	2COS-316	1/8	5/16-25	200-1-OR	2-2ZHBA5
3COS	3COS-316	3/16	3/8-24	300-1-OR	3-3ZHBA5
4COS	4COS-316	1/4	7/16-20	400-1-OR	4-4ZHBA5
5COS	5COS-316	5/16	1/2-20	-----	-----
6COS	6COS-316	3/8	9/16-18	600-1-OR	6-6ZHBA5
8COS	8COS-316	1/2	3/4-16	810-1-OR	8-8ZHBA5
10COS	10COS-316	5/8	7/8-14	-----	-----
12COS	12COS-316	3/4	1 1/16-12	-----	-----
14COS	14COS-316	7/8	1 1/16-12	-----	-----
16COS	16COS-316	1	1 5/16-12	-----	-----

AOS



adapter / "O" ring straight

GYROLOK® Pt. No.		Tube	Thread	Swagelok	Parker CPI
BRASS	316 S/S	O.D.	Size	Part No.	Part. No.
1AOS	1AOS-316	1/16	5/16-24	-----	-----
2AOS	2AOS-316	1/8	5/16-24	2-TA-OR-ST*	2-2 T2HOA5
3AOS	3AOS-316	3/16	3/8-24	-----	-----
4AOS	4AOS-316	1/4	7/16-20	4-TA-OR-ST*	4-4T2HOA5
5AOS	5AOS-316	5/16	1/2-20	5-TA-OR-ST*	5-5T2HOA5
6AOS	6AOS-316	3/8	9/16-18	-----	-----
8AOS	8AOS-316	1/2	3/4-16	-----	-----
10AOS	10AOS-316	5/8	7/8-14	-----	-----
12AOS	12AOS-316	3/4	1 1/16-12	-----	-----
14AOS	14AOS-316	7/8	1 1/16-12	-----	-----
16AOS	16AOS-316	1	1 5/16-12	-----	-----

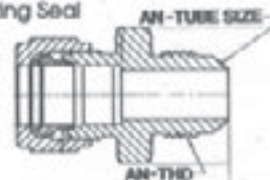
NOTE: AN ends are available for "O" Ring Seal to conform to MS33656.

To order see UANO parts below

UAN



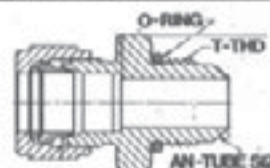
union / an



GYROLOK® Pt. No.		Tube	AN Tube	AN	Swagelok	Parker CPI
BRASS	316 S/S	O.D.	Size	Thread	Part No.	Part. No.
1UAN4	1UAN4-316	1/16	1/4	7/16-20	100-6-4AN	1-4 XHBZ
2UAN2	2UAN2-316	1/8	1/8	5/16-24	200-6-2AN	2-2 XHBZ
2UAN4	2UAN4-316	1/8	1/4	7/16-20	200-6-4AN	2-4 XHBZ
3UAN3	3UAN3-316	3/16	3/16	3/8-24	-----	-----
4UAN4	4UAN4-316	1/4	1/4	7/16-20	400-6-4AN	4-4 XHBZ
5UAN5	5UAN5-316	5/16	5/16	1/2-20	-----	-----
6UAN4	6UAN4-316	3/8	1/4	7/16-20	600-6-4AN	6-4 XHBZ
6UAN6	6UAN6-316	3/8	3/8	9/16-18	600-6-6AN	6-6 XHBZ
8UAN8	8UAN8-316	1/2	1/2	3/4-16	810-6-8AN	8-8 XHBZ
10UAN10	10UAN10-316	5/8	5/8	7/8-14	-----	-----
12UAN12	12UAN12-316	3/4	3/4	1 1/16-12	-----	-----
16UAN16	16UAN16-316	1	1	1 5/16-12	-----	-----

UANO

union / an / "O" ring



GYROLOK® Pt. No.		Tube	AN Tube	AN Thread	
BRASS	316 S/S	O.D.	Size	Size and Type	
2UANO2	2UANO2-316	1/8	1/8	5/16-24	UNF-3A
4UANO4	4UANO4-316	1/4	1/4	7/16-20	UNF-3A
4UANO6	4UANO6-316	1/4	3/8	9/16-18	UNF-3A
6UANO4	6UANO4-316	3/8	1/4	7/16-20	UNF-3A
6UANO6	6UANO6-316	3/8	3/8	9/16-18	UNF-3A
8UANO8	8UANO8-316	1/2	1/2	3/4-16	UNF-3A

Gyrolok fittings, from Aqua Tech, with AN Type connections are offered to facilitate the adaptation of Gyrolok systems to existing AN or MS systems.

Aqua Tech for all Brass & Stainless Fittings!

Manufacturer's literature available on request!

GYROLOK® / PARKER® / SWAGELOK®

FITTINGS, BRASS & S/S



BUAN

bulkhead / union / an

GYROLOK® Pt. No.		Tube	AN Tube	AN	Swagelok	Parker CPI
BRASS	316 S/S	O.D.	Size	Thread	Part No.	Part No.
2BUAN2	2BUAN2-316	1/8	1/8	5/16-24	200-61-2AN	2-2 XH2BZ
2BUAN4	2BUAN4-316	1/8	1/4	7/16-20	200-61-4AN	2-4 XH2BZ
3BUAN3	3BUAN3-316	3/16	3/16	3/8-24	-----	-----
4BUAN4	4BUAN4-316	1/4	1/4	7/16-20	400-61-4AN	4-4 XH2BZ
5BUAN5	5BUAN5-316	5/16	5/16	1/2-20	-----	-----
6BUAN4	6BUAN4-316	3/8	1/4	7/16-20	600-61-4AN	4-6 XH2BZ
6BUAN6	6BUAN6-316	3/8	3/8	9/16-18	600-61-6AN	6-6 XH2BZ
8BUAN8	8BUAN8-316	1/2	1/2	3/4-16	-----	-----
10BUAN10	10BUAN10-316	5/8	5/8	7/8-14	-----	-----
12BUAN12	12BUAN12-316	3/4	3/4	1 1/16-12	-----	-----
16BUAN16	16BUAN16-316	1	1	1 5/16-12	-----	-----

AAN

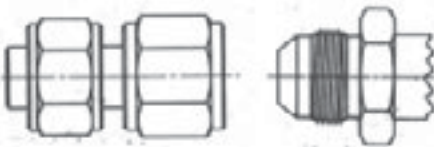
adapter / an



GYROLOK® Pt. No.		Tube	AN	AN	Swagelok	Parker CPI
BRASS	316 S/S	O.D.	Size	Thread	Part No.	Part No.
2AAN2	2AAN2-316	1/8	1/8	5/16-24	-----	-----
2AAN4	2AAN4-316	1/8	1/4	7/16-20	-----	-----
3AAN3	3AAN3-316	3/16	3/16	3/8-24	-----	-----
4AAN4	4AAN4-316	1/4	1/4	7/16-20	400-A-4ANF	4-4X6HBZ6
5AAN5	5AAN5-316	5/16	5/16	1/2-20	-----	-----
6AAN6	6AAN6-316	3/8	3/8	9/16-18	600-A-6ANF	6-6X6HBZ6
8AAN8	8AAN8-316	1/2	1/2	3/4-16	810-A-8ANF	8-8X6HBZ8
10AAN10	10AAN10-316	5/8	5/8	7/8-14	-----	-----
12AAN12	12AAN12-316	3/4	3/4	1 1/16-12	-----	-----
16AAN16	16AAN16-316	1	1	1 5/16-12	-----	-----

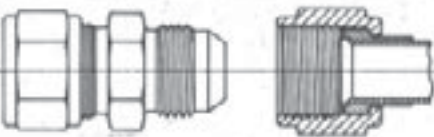
AAN

37° AN connection
(and 10056 or MS33656)



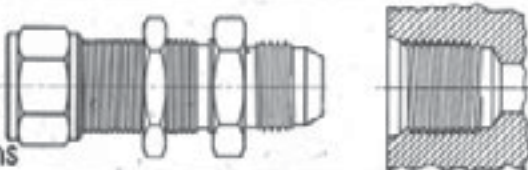
UAN

flared tube end
Gyrolok to
AN or MS connections



BUAN

bulkhead applications



N nut

GYROLOK® Pt. No.	Tube	Swagelok	Parker CPI
BRASS	316 S/S	O.D.	Part No.
1N	1N-316	1/16	102-1
2N	2N-316	1/8	102-1
3N	3N-316	3/16	302-1
4N	4N-316	1/4	402-1
5N	5N-316	5/16	502-1
6N	6N-316	3/8	602-1
8N	8N-316	1/2	812-1
10N	10N-316	5/8	1012-1
12N	12N-316	3/4	1212-1
14N	14N-316	7/8	1412-1
16N	16N-316	1	1612-1

FF ferrule / front



GYROLOK® Pt. No.				Tube	Swagelok	Parker CPI
BRASS	316 S/S	NYLON	TEFLON	O.D.	Part No.	Part No.
1FF	1FF-316	1FF-N	1FF-T	1/16	103-1	1TZ
2FF	2FF-316	2FF-N	2FF-T	1/8	203-1	2TZ
3FF	3FF-316	3FF-N	3FF-T	3/16	303-1	3TZ
4FF	4FF-316	4FF-N	4FF-T	1/4	403-1	4TZ
5FF	5FF-316	5FF-N	5FF-T	5/16	503-1	5TZ
6FF	6FF-316	6FF-N	6FF-T	3/8	603-1	6TZ
8FF	8FF-316	8FF-N	8FF-T	1/2	813-1	8TZ
10FF	10FF-316	10FF-N	10FF-T	5/8	1013-1	10TZ
12FF	12FF-316	12FF-N	12FF-T	3/4	1213-1	12TZ
14FF	14FF-316	14FF-N	14FF-T	7/8	1413-1	14TZ
16FF	16FF-316	16FF-N	16FF-T	1	1613-1	16TZ

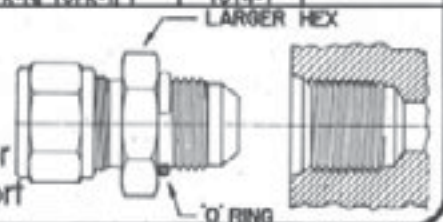
FR ferrule / rear



GYROLOK® Pt. No.				Tube	Swagelok	Parker CPI
BRASS	316 S/S	NYLON	TEFLON	O.D.	Part No.	Part No.
1FR	1FR-316	1FR-N	1FR-T	1/16	104-1	
2FR	2FR-316	2FR-N	2FR-T	1/8	204-1	N
3FR	3FR-316	3FR-N	3FR-T	3/16	304-1	O
4FR	4FR-316	4FR-N	4FR-T	1/4	404-1	T
5FR	5FR-316	5FR-N	5FR-T	5/16	504-1	
6FR	6FR-316	6FR-N	6FR-T	3/8	604-1	U
8FR	8FR-316	8FR-N	8FR-T	1/2	814-1	S
10FR	10FR-316	10FR-N	10FR-T	5/8	1014-1	E
12FR	12FR-316	12FR-N	12FR-T	3/4	1214-1	D
14FR	14FR-316	14FR-N	14FR-T	7/8	1414-1	
16FR	16FR-316	16FR-N	16FR-T	1	1614-1	

UANO

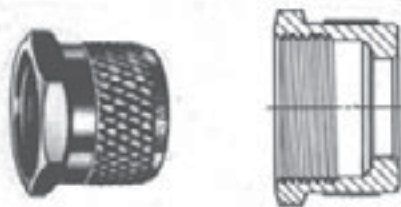
and 10050 or MS 16142 port



FITTINGS, BRASS & S/S

KN

knurled nut



Gyrolok fittings are available, from Aqua Tech, with knurled nut and nylon ferrules for use with polyethylene tubing. Finger tight make up provides a leak tight seal assembly.

To order simply add KNN to the basic part number. Example: A 4CM4 with a knurled nut and nylon ferrules would be 4CM4-KNN.

KN knurled nut

GYROLOK®

Pt. No.	Tube O.D.	Swagelok Part No.	Parker CPI Part No.
1KN	1/16	102-1K	-----
2KN	1/8	202-1K	28ZP
3KN	3/16	302-1K	38ZP
4KN	9/16	402-1K	48ZP
5KN	5/16	502-1K	-----
6KN	3/8	602-1K	68ZP
8KN	7/8	812-1K	88ZP
10KN	5/8	1012-1K	-----
12KN	3/4	1212-1K	-----
14KN	7/8	1412-1K	-----
16KN	1	1612-1K	-----



TI tube insert



GYROLOK® Pt. No.	Tube O.D.	Tube I.D.	Bore Size	Swagelok Part No.	Parker CPI Part No.
3TI2	3TI2-316	3/16	1/8	3/16	-----
4TI2	4TI2-316	1/4	1/8	3/32	4TI2 (.125)
4TI.170	4TI.170-316	1/4	.170	7/64	4TI2 (.170)
4TI3	4TI3-316	1/4	3/16	1/8	405-3
5TI2	5TI2-316	5/16	1/8	3/32	-----
5TI3	5TI3-316	5/16	3/16	1/8	505-3
5TI4	5TI4-316	5/16	1/4	3/16	505-4
6TI3	6TI3-316	3/8	3/16	1/8	605-3
6TI4	6TI4-316	3/8	1/4	3/16	605-4
8TI4	8TI4-316	1/2	1/4	3/16	815-4
8TI6	8TI6-316	1/2	3/8	9/32	815-6
10TI6	10TI6-316	5/8	3/8	9/32	1015-6
10TI8	10TI8-316	5/8	1/2	27/64	1015-8
12TI8	12TI8-316	3/4	1/2	27/64	-----
12TI10	12TI10-316	3/4	5/8	1/2	-----
14TI10	14TI10-316	7/8	5/8	1/2	-----
14TI12	14TI12-316	7/8	3/4	21/32	-----
16TI12	16TI12-316	1	3/4	21/32	-----
16TI14	16TI14-316	1	7/8	23/32	1615-14

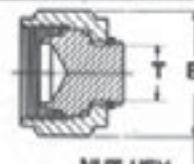
Gyrolok used with plastic tubing



TUBING MATERIAL	FITTING BODY	FRONT FERRULE	REAR FERRULE	INSERT* USAGE
Polyethylene	Metal	Metal or Nylon	Metal or Nylon	Not normally required
	Nylon	Nylon	Nylon	required
Nylon	Metal	Metal or Nylon	Metal or Nylon	Not normally required
	Nylon	Nylon	Nylon	required
Teflon	Metal	Metal or Teflon	Metal or Teflon	Not normally required
	Teflon**	Teflon	Teflon or Metal	required
Rigid PVC	Metal	Metal	Metal	None
	Teflon***	Teflon+	Teflon+	None
Soft Polyvinyl Chloride or Tygon	Metal	Metal	Metal	Recommended
	Nylon	Nylon	Nylon	

*Tube inserts are described at the lower left of this page. When ordering by part number, from Aqua Tech, you must know both the I.D. and O.D. of the tube material.
 **Metal nuts are preferred for permanent connections or applications of elevated temperatures.
 ***Limited gripping, metal provides tighter grip for higher pressures.

P plug / for plugging unused fitting ports




GYROLOK® Pt. No.	Tube O.D.	Hex Size	Swagelok Part No.	Parker CPI Part No.
1P	1P-316	1/16	5/16	100-P
2P	2P-316	1/8	7/16	200-P
3P	3P-316	3/16	1/2	300-P
4P	4P-316	1/4	9/16	400-P
5P	5P-316	5/16	5/8	500-P
6P	6P-316	3/8	11/16	600-P
8P	8P-316	1/2	7/8	810-P
10P	10P-316	5/8	1	1010-P
12P	12P-316	3/4	1 1/8	1210-P
14P	14P-316	7/8	1 1/4	-----
16P	16P-316	1	1 1/2	1610-P

CP cap / for capping tube end



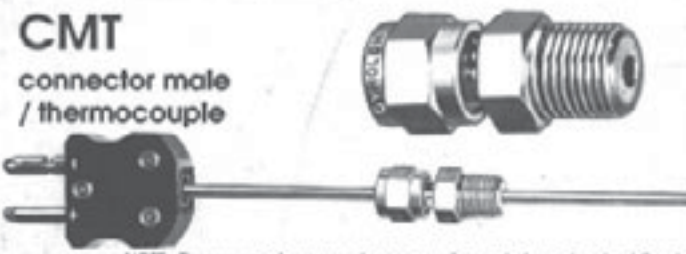
GYROLOK® Pt. No.	Tube O.D.	Nut Hex	Body Hex	Swagelok Part No.	Parker CPI Part No.
1CP	1CP-316	1/16	5/16	5/16	100-C
2CP	2CP-316	1/8	7/16	9/16	200-C
3CP	3CP-316	3/16	1/2	7/16	300-C
4CP	4CP-316	1/4	9/16	1/2	400-C
5CP	5CP-316	5/16	5/8	9/16	500-C
6CP	6CP-316	3/8	11/16	5/8	600-C
8CP	8CP-316	1/2	7/8	13/16	810-C
10CP	10CP-316	5/8	1	15/16	1010-C
12CP	12CP-316	3/4	1 1/8	1 1/16	1210-C
14CP	14CP-316	7/8	1 1/4	1 3/16	-----
16CP	16CP-316	1	1 1/2	1 3/8	1610-C

FITTINGS, BRASS & S/S



C
tube cross


GYROLOK® Pt. No.		Tube	Swagelok	Parker CPI
BRASS	316 S/S	O.D.	Part No.	Part. No.
1C	1C-316	1/16	-----	-----
2C	2C-316	1/8	200-4	2KBZ
3C	3C-316	3/16	-----	-----
4C	4C-316	1/4	400-4	4KBZ
5C	5C-316	5/16	-----	-----
6C	6C-316	3/8	600-4	6KBZ
8C	8C-316	1/2	810-4	8KBZ
10C	10C-316	5/8	-----	-----
12C	12C-316	3/4	-----	-----
14C	14C-316	7/8	-----	-----
16C	16C-316	1	-----	-----



CMT
connector male / thermocouple

NOTE: Thermocouple connectors are easily made from standard Gyrolok Male Connector by simply drilling the tube O.D. size all the way through.


GYROLOK® Pt. No.		Tube	Pipe	Swagelok	Parker CPI
BRASS	316 S/S	O.D.	Size	Part No.	Part. No.
1CMT1	1CMT1-316	1/16	1/16	100-1-1BT	1-1FH4BZ
1CMT2	1CMT2-316	1/16	1/8	100-1-2BT	1-2FH4BZ
2CMT2	2CMT2-316	1/8	1/8	200-1-2BT	2-2FH4BZ
2CMT4	2CMT4-316	1/8	1/4	200-1-4BT	2-4FH4BZ
3CMT2	3CMT2-316	3/16	1/8	300-1-2BT	3-2FH4BZ
3CMT4	3CMT4-316	3/16	1/4	300-1-4BT	3-4FH4BZ
4CMT2	4CMT2-316	1/4	1/8	-----	4-2FH4BZ
4CMT4	4CMT4-316	1/4	1/4	400-1-4BT	4-4FH4BZ
4CMT6	4CMT6-316	1/4	3/8	-----	-----
4CMT8	4CMT8-316	1/4	1/2	400-1-8BT	4-8FH4BZ
5CMT4	5CMT4-316	5/16	1/4	500-1-4BT	5-4FH4BZ
6CMT6	6CMT6-316	3/8	3/8	600-1-6BT	6-6FH4BZ
6CMT8	6CMT8-316	3/8	1/2	600-1-8BT	6-8FH4BZ
8CMT8	8CMT8-316	1/2	1/2	810-1-8BT	8-8FH4BZ
16CMT16	16CMT16-316	1	1	1610-1-16BT	16-16FH4BZ



LBW
elbow / butt weld


Part Numbers →

GYROLOK® Pt. No.		Tube	Butt	Butt	Swagelok	Parker CP
BRASS	316 S/S	O.D.	O.D.	Pipe	Part No.	Part. No.
2LBW2	2LBW2-316	1/8	.405	1/8	-----	-----
3LBW2	3LBW2-316	3/16	.405	1/8	-----	-----



CW
connector weld / (socket)

GYROLOK® Pt. No.		Tube	Swagelok	Parker CPI
BRASS	316 S/S	O.D.	Part No.	Part. No.
2CW2	2CW2-316	1/8	200-6-2W	2-2ZHBW
3CW3	3CW3-316	3/16	-----	-----
4CW4	4CW4-316	1/4	400-6-4W	4-4ZHBW
6CW6	6CW6-316	3/8	600-6-6W	6-6ZHBW
8CW8	8CW8-316	1/2	800-6-8W	8-8ZHBW
10CW10	10CW10-316	5/8	-----	-----
12CW12	12CW12-316	3/4	-----	-----
16CW16	16CW16-316	1	-----	-----



LW
elbow weld / (socket)

GYROLOK® Pt. No.		Tube	Swagelok	Parker CPI
BRASS	316 S/S	O.D.	Part No.	Part. No.
2LW2	2LW2-316	1/8	200-9-2T5W	2-2ZEBW
3LW3	3LW3-316	3/16	300-9-3T5W	3-3ZEBW
4LW4	4LW4-316	1/4	400-9-4T5W	4-4ZEBW
6LW6	6LW6-316	3/8	600-9-6T5W	6-6ZEBW
8LW8	8LW8-316	1/2	810-9-8T5W	8-8ZEBW
10LW10	10LW10-316	5/8	1010-9-10T5W	10-10ZEBW
12LW12	12LW12-316	3/4	1210-9-12T5W	12-12ZEBW
16LW16	16LW16-316	1	1610-9-16T5W	16-16ZEBW



CBW
connector / butt weld

GYROLOK® Pt. No.		Tube	Butt	Butt	Swagelok	Parker CPI
BRASS	316 S/S	O.D.	O.D.	Pipe	Part No.	Part. No.
2CBW2	2CBW2-316	1/8	.405	1/8	200-1-2W	2-2ZHBW2*
3CBW2	3CBW2-316	3/16	.405	1/8	-----	-----
4CBW2	4CBW2-316	1/4	.405	1/8	400-1-2W	4-2ZHBW2*
4CBW4	4CBW4-316	1/4	.540	1/4	400-1-4W	4-4ZHBW2*
6CBW4	6CBW4-316	3/8	.540	1/4	600-1-4W	6-4ZHBW2*
6CBW6	6CBW6-316	3/8	.675	3/8	-----	-----
6CBW8	6CBW8-316	3/8	.840	1/2	600-1-8W	6-8ZHBW2*
8CBW6	8CBW6-316	1/2	.675	3/8	810-1-6W	8-2ZHBW2*
8CBW8	8CBW8-316	1/2	.840	1/2	810-1-8W	8-8ZHBW2*
10CBW8	10CBW8-316	5/8	.840	1/2	-----	-----
12CBW12	12CBW12-316	3/4	1.050	3/4	-----	-----
16CBW16	16CBW16-316	1	1.315	1	1610-1-16W	16-16ZHBW2*

GYROLOK® Pt. No.		Tube	Butt	Butt	Swagelok	Parker CPI
BRASS	316 S/S	O.D.	O.D.	Pipe	Part No.	Part. No.
4LBW2	4LBW2-316	1/4	.405	1/8	400-2-2W	4-1/8ZEBW2*
4LBW4	4LBW4-316	1/4	.540	1/4	400-2-4W	4-1/4ZEBW2*
6LBW4	6LBW4-316	3/8	.540	1/4	600-2-4W	6-1/4ZEBW2*
8LBW6	8LBW6-316	1/2	.675	3/8	-----	-----
8LBW8	8LBW8-316	1/2	.840	1/2	-----	-----
10LBW8	10LBW8	5/8	.840	1/2	-----	-----
12LBW12	12LBW12-316	3/4	1.050	3/4	-----	-----
16LBW12	16LBW12-316	1	1.050	3/4	-----	-----
16LBW16	16LBW16-316	1	1.315	1	-----	-----

*Weld-Lok part numbers
Call Aqua Tech for mfg. literature and all H.P. S/S & Brass Fittings.

SEAMLESS TUBING



Available from AQUA TECH in:
 Brass, 304 & 316 Stainless Steel,
 Carbon Steel & Monel in Sizes
 1/8" to 1" O.D. Tubing

- All components made from same type material
- High pressure applications
- Vacuum Applications
- High temperature and bake-out applications
- Cryogenic Applications
- Vibration resistant
- Use on metal, plastic and glass tubing—thin and heavy wall
- Excellent make and re-make life
- Complete interchangeability in the field
- Seal pressures that will burst tubing
- Threads of 316 S/S nuts silver plated—No galling
- 15° angle between ferrules before make-up

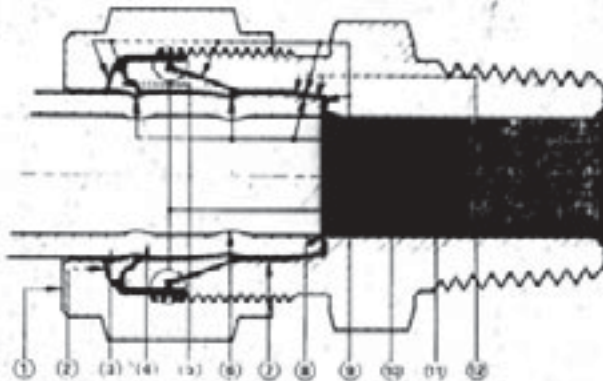
How to calculate maximum allowable working pressures

Tubing O.D.	WALL THICKNESS											
	.010	.012	.016	.020	.028	.035	.048	.065	.083	.095	.109	.120
1/16	6880	8412	11506	14409								
1/8				6863	9967	12641						
3/16				4357	6339	8153	11762					
1/4					4600	5891	8602	11688				
5/16					5009	6600	8713	9182				
3/8						3777	5460	7517				
1/2						2788	3876	5423	7182			
5/8						2188	3123	4245	5554	6470		
3/4						1814	2581	3478	4544	5273	6152	6863
7/8						1545	2188	2955	3834	4451	5180	5780
1						1346	1907	2562	3329	3852	4489	4956

304 AND 316 STAINLESS STEEL
 annealed seamless tubing
 ASTM A-213 or equivalent

COPPER annealed seamless tubing ASTM-B-75 or equivalent

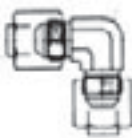
Tubing O.D.	WALL THICKNESS									
	.028	.032	.035	.049	.065	.083	.095	.109	.120	
1/8	3198	3690	4056							
3/16	2034	2370	2616	3774						
1/4	1476	1710	1890	2760	3750					
5/16		1338	1476	2154	2946					
3/8		1098	1217	1757	2417	3156				
1/2			888	1276	1740	2298				
5/8			702	1002	1362	1782	2076			
3/4			582	828	1116	1458	1692	1974		
7/8			496	702	948	1230	1428	1662		
1			432	612	822	1068	1236	1434	1590	



- 1 Ease of assembly—Low assembly torque
- 2 Unique "Roll-in" locking action by rear ferrule
Not just sliding angles
- 3 No tube rotation on make-up
- 4 No torque transmitted to tubing
- 5 Controlled ferrule drive
- 6 Minimum tubing I.D. reduction
- 7 Solid "Metal to Metal Make Up" leaving no voids
- 8 Tubing "Butt Seal" provides a "Series Seal"
- 9 Full face contact and support among all components after make-up and subsequent re-makes
- 10 Four point support for vibration control
- 11 Cannot be Overlightened—"Cannot Self-Destruct"
- 12 Unique sizing angle prevents sticking

FITTINGS, BRASS & S/S

Union Elbow
EBTX




Flare tube end / flare tube end
SAE 070201 MS61606

Part Number Information
ETX - Body only
EBTX - Assembled fitting

PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	PORT NPT & Thd. SIZE
	S	SS	B		
2 EBTX-	X			1/8	-----
4 EBTX-	X	X	X	1/4	-----
5 EBTX-	X		X	5/16	-----
6 EBTX-	X	X	X	3/8	-----
8 EBTX-	X	X	X	1/2	-----
10 EBTX-	X	X	X	5/8	-----
12 EBTX-	X	X	X	3/4	-----
14 EBTX-	X			7/8	-----
16 EBTX-	X	X	X	1	-----
20 EBTX-	X			1-1/4	-----
24 EBTX-	X			1-1/2	-----
32 EBTX-	X			2	-----

Union
HBTX




Flare tube end / flare tube end
SAE 070101 MS61601

Part Number Information
HTX - Body only
HBTX - Assembled fitting

PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	PORT NPT & Thd. SIZE
	S	SS	B		
2 HBTX-	X	X	X	1/8	-----
3 HBTX-	X		X	3/16	-----
4 HBTX-	X	X	X	1/4	-----
5 HBTX-	X	X	X	5/16	-----
6 HBTX-	X	X	X	3/8	-----
8 HBTX-	X	X	X	1/2	-----
10 HBTX-	X	X	X	5/8	-----
12 HBTX-	X	X	X	3/4	-----
14 HBTX-	X		X	7/8	-----
16 HBTX-	X	X	X	1	-----
20 HBTX-	X	X	X	1-1/4	-----
24 HBTX-	X	X	X	1-1/2	-----
32 HBTX-	X			2	-----

Large Hex Union
LHBTX

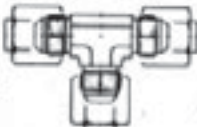


Flare tube end / flare tube end
SAE 070119 MS61619

Part Number Information
LHTX - Body only
LHBTX - Assembled fitting

PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	PORT NPT & Thd. SIZE
	S	SS	B		
4 LHBTX-	X	X	X	1/4	-----
5 LHBTX-	X			5/16	-----
6 LHBTX-	X	X	X	3/8	-----
6-4 LHBTX-		X		3/8	7/16-20
8 LHBTX-	X	X	X	1/2	-----
8-4 LHBTX-		X		1/2	7/16-20
8-6 LHBTX-		X		1/2	9/16-18
10 LHBTX-	X	X		5/8	-----
12 LHBTX-	X	X		3/4	-----
16 LHBTX-	X	X		1	-----

Union Tee
JBTX




Flare tube end (all three ends)
SAE 070401 MS61610

Part Number Information
JTX - Body only
JBTX - Assembled fitting

PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	PORT NPT & Thd. SIZE
	S	SS	B		
2 JBTX-	X		X	1/8	-----
3 JBTX-	X			3/16	-----
4 JBTX-	X	X	X	1/4	-----
5 JBTX-	X		X	5/16	-----
6 JBTX-	X	X	X	3/8	-----
8 JBTX-	X	X	X	1/2	-----
10 JBTX-	X	X	X	5/8	-----
12 JBTX-	X	X	X	3/4	-----
14 JBTX-	X			7/8	-----
16 JBTX-	X	X	X	1	-----
20 JBTX-	X			1-1/4	-----
24 JBTX-	X			1-1/2	-----

Union Cross
KBTX

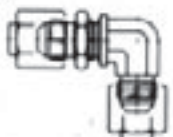


Flare tube end (all four ends)
SAE 070601 MS61617

Part Number Information
KTX - Body only
KBTX - Assembled fitting

PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	PORT NPT & Thd. SIZE
	S	SS	B		
4 KBTX-	X	X	X	1/4	-----
5 KBTX-	X			5/16	-----
6 KBTX-	X	X	X	3/8	-----
8 KBTX-	X	X	X	1/2	-----
10 KBTX-	X			5/8	-----
12 KBTX-	X			3/4	-----
16 KBTX-	X			1	-----

Bulkhead Union Elbow
WEBTX



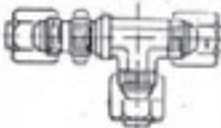
Flare tube end / flare tube end
SAE 070701 MS61607

Part Number Information
WETX - Body only
WEBTX - Assembled fitting

PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	PORT NPT & Thd. SIZE
	S	SS	B		
4 WEBTX-	X	X	X	1/4	-----
5 WEBTX-	X			5/16	-----
6 WEBTX-	X	X	X	3/8	-----
8 WEBTX-	X	X	X	1/2	-----
10 WEBTX-	X	X		5/8	-----
12 WEBTX-	X	X		3/4	-----
14 WEBTX-	X			7/8	-----
16 WEBTX-	X			1	-----
20 WEBTX-	X			1-1/4	-----

Aqua Tech for all Brass & Stainless Fittings!
Manufacturer's literature available on request!
GYROLOK® / PARKER® / SWAGELOK®

Bulkhead Run Tee
WJJBTX



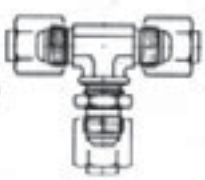
SAE 070958 MS61616
Part Number Information
WJJTX - Body only
WJJBTX - Assembled fitting Flare tube end

PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	PORT NPT & Thd. SIZE
	S	SS	B		
4 WJJBTX-	X			1/4	-----
6 WJJBTX-	X			3/8	-----
8 WJJBTX-	X			1/2	-----
10 WJJBTX-	X			5/8	-----
12 WJJBTX-	X			3/4	-----



FITTINGS, BRASS & S/S

Bulkhead Branch
WJBTX
 Flare tube end (all three ends)
 SAE 070959 MS51515



Part Number Information
 WJBTX - Body only
 WJBTX - Assembled fitting

PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	PORT NPT & Thd SIZE
	S	SS	B		
4 WJBTX-	X	X		1/4	-----
6 WJBTX-	X	X		3/8	-----
8 WJBTX-	X			1/2	-----
10 WJBTX-	X			5/8	-----
12 WJBTX-	X			3/4	-----

45° Bulkhead Union Elbow
WNBTX
 Flare tube end / flare tube end
 SAE 070601 MS51509



Part Number Information
 WNBTX - Body only
 WNBTX - Assembled fitting

PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	PORT NPT & Thd SIZE
	S	SS	B		
4 WNBTX-	X	X		1/4	-----
5 WNBTX-	X			5/16	-----
6 WNBTX-	X	X		3/8	-----
8 WNBTX-	X	X		1/2	-----
10 WNBTX-	X			5/8	-----
12 WNBTX-	X			3/4	-----
16 WNBTX-	X			1	-----


Bulkhead Union
WBTX
 Flare tube end / flare tube end
 SAE 070401 MS51520



Part Number Information
 WBTX - Body only
 WBTX - Assembled fitting

PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	PORT NPT & Thd SIZE
	S	SS	B		
3 WBTX-	X			3/16	-----
4 WBTX-	X	X		1/4	-----
5 WBTX-	X			5/16	-----
6 WBTX-	X	X	X	3/8	-----
8 WBTX-	X	X	X	1/2	-----
10 WBTX-	X	X	X	5/8	-----
12 WBTX-	X	X	X	3/4	-----
14 WBTX-	X			7/8	-----
16 WBTX-	X	X		1	-----
20 WBTX-	X			1-1/4	-----
24 WBTX-	X			1-1/2	-----


Female Bulkhead Union
WGBTX
 Flare tube end / female pipe end



Part Number Information
 WGBTX - Body only
 WGBTX - Assembled fitting
 WGBTX-WLN - Body with lockout

PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	PORT NPT & Thd SIZE
	S	SS	B		
4 WGBTX-	X			1/4	1/8-27
6 WGBTX-	X			3/8	1/4-18
8 WGBTX-	X			1/2	3/8-18
10 WGBTX-	X			5/8	1/2-14
12 WGBTX-	X			3/4	3/4-14
14 WGBTX-	X			7/8	3/4-14
16 WGBTX-	X			1	1-11 1/2

Female Elbow
DBTX
 Flare tube end / female pipe end
 SAE 070203 MS51506



Part Number Information
 DBTX - Body only
 DBTX - Assembled fitting


PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	PORT NPT & Thd SIZE
	S	SS	B		
4 DBTX-	X	X	X	1/4	1/8-27
4-4 DBTX-	X	X	X	1/4	1/4-18
5 DBTX-	X		X	5/16	1/8-27
5-4 DBTX-	X			5/16	1/4-18
6 DBTX-	X	X	X	3/8	1/4-18
6-2 DBTX-	X			3/8	1/8-27
6-6 DBTX	X	X	X	3/8	3/8-18
8 DBTX-	X	X	X	1/2	3/8-18
8-4 DBTX-	X	X	X	1/2	1/4-18
8-8 DBTX-	X	X	X	1/2	1/2-14
10 DBTX-	X		X	5/8	1/2-14
12 DBTX-	X	X	X	3/4	3/4-14
12-8 DBTX-	X			3/4	1/2-14
14 DBTX-	X			7/8	3/4-14
16 DBTX-	X	X		1	1-11 1/2
20 DBTX-	X			1-1/4	1-1/4-11.5
24 DBTX-	X			1-1/2	1-1/2-11.5

**Aqua Tech for all Brass
&
Stainless Fittings!**

Manufacturer's literature available
on request!

GYROLOK® / PARKER® / SWAGELOK®

Female Connector
GBTX
 Flare tube end / female pipe end
 SAE 070103 MS51503



Part Number Information
 GBTX - Body only
 GBTX - Assembled fitting

PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	PORT NPT & Thd SIZE
	S	SS	B		
2 GBTX-	X	X	X	1/8	1/8-27
3 GBTX-			X	3/16	1/8-27
4 GBTX-	X	X	X	1/4	1/8-27
4-4 GBTX-	X	X	X	1/4	1/4-18
5 GBTX-	X		X	5/16	1/8-27
5-4 GBTX-	X	X	X	5/16	1/4-18
6 GBTX-	X	X	X	3/8	1/4-18
6-6 GBTX-	X	X	X	3/8	3/8-18
8 GBTX-	X	X	X	1/2	3/8-18
8-8 GBTX-	X	X	X	1/2	1/2-14
10 GBTX-	X	X	X	5/8	1/2-14
12 GBTX-	X	X	X	3/4	3/4-14
12-8 GBTX-	X			3/4	1/2-14
14 GBTX-	X			7/8	3/4-14
16 GBTX-	X	X	X	1	1-11 1/2
20 GBTX-	X			1-1/4	1-1/4-11.5
24 GBTX-	X			1-1/2	1-1/2-11.5
32 GBTX-	X			2	2-11 1/2

Female Run Tee
MBTX
 Flare tube ends / female pipe end
 SAE 070426 MS51514



Part Number Information
 MBTX - Body only
 MBTX - Assembled fitting

PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	PORT NPT & Thd SIZE
	S	SS	B		
4 MBTX-	X		X	1/4	1/8-27
4-4-4MBTX-		X		1/4	1/4-18
6 MBTX-	X	X	X	3/8	1/4-18
8 MBTX-	X	X	X	1/2	3/8-18
10 MBTX-	X			5/8	1/2-14
12 MBTX-	X			3/4	3/4-14
14 MBTX-	X			7/8	3/4-14
16 MBTX-	X			1	1-11 1/2
20 MBTX-	X			1-1/4	1-1/4-11.5
24 MBTX-	X			1-1/2	1-1/2-11.5

S= Steel
 SS=Stainless Steel
 B=Brass

Call Aqua Tech for all Commercial Diving Equipment needs.

FITTINGS, BRASS & S/S

Female Branch Tee

OBTX

Flare tube end / female pipe end
SAE 070427 MS61613

Part Number Information
OBTX - Body only
OBTX - Assembled fitting



PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	PORT NPT & Thd SIZE
	S	SS	B		
4 OBTX-	X	X	X	1/4	1/8-27
4-4-4 OBTX-		X		1/4	1/4-18
5 OBTX-	X			5/16	1/8-27
6 OBTX-	X	X	X	3/8	1/4-18
8 OBTX-	X	X	X	1/2	3/8-18
10 OBTX-	X			5/8	1/2-14
12 OBTX-	X		X	3/4	3/4-14
14 OBTX-	X			7/8	3/4-14
16 OBTX-	X		X	1	1-11 1/2
20 OBTX-	X			1-1/4	1 1/4 11 1/2
24 OBTX-	X			1-1/2	1 1/2 11 1/2

Swivel Nut Elbow

C6BX

Flare tube end / swivel nut end
SAE 070321 MS61621

Part Number Information
C6X - Body only
C6BX - Assembled fitting



PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	SWIVEL FEMALE J.I.C. NUT
	S	SS	B		
4 C6BX-	X	X		1/4	7/16-20
6 C6BX-	X	X		3/8	9/16-18
8 C6BX-	X	X		1/2	3/4-16
10 C6BX-	X	X		5/8	7/8-14
12 C6BX-	X	X		3/4	1 1/16-12
14 C6BX-	X			7/8	1 3/16-12
16 C6BX-	X			1	1 5/16-12
20 C6BX-	X			1-1/4	1 5/8-12
24 C6BX-	X			1-1/2	1 7/8-12

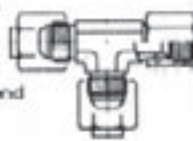
S= Steel
SS=Stainless Steel
B=Brass

Swivel Nut Run Tee

R6BX

Flare tube ends / swivel nut end
SAE 070432

Part Number Information
R6X - Body only
R6BX - Assembled fitting



PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	SWIVEL FEMALE J.I.C. NUT
	S	SS	B		
4 R6BX-	X	X		1/4	7/16-20
6 R6BX-	X	X		3/8	9/16-18
8 R6BX-	X	X		1/2	3/4-16
10 R6BX-	X	X		5/8	7/8-14
12 R6BX-	X	X		3/4	1 1/16-12
14 R6BX-	X			7/8	1 3/16-12
16 R6BX-	X			1	1 5/16-12
20 R6BX-	X			1-1/4	1 5/8-12

45° Swivel Nut Elbow

V6BX

Flare tube end / swivel nut end
SAE 070321 MS61622

Part Number Information
V6X - Body only
V6BX - Assembled fitting



PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	SWIVEL FEMALE J.I.C. NUT
	S	SS	B		
4 V6BX-	X	X		1/4	7/16-20
5 V6BX-	X			5/16	1/2-20
6 V6BX-	X	X		3/8	9/16-18
8 V6BX-	X	X		1/2	3/4-16
10 V6BX-	X			5/8	7/8-14
12 V6BX-	X	X		3/4	1 1/16-12
14 V6BX-	X			7/8	1 3/16-12
16 V6BX-	X			1	1 5/16-12
20 V6BX-	X			1-1/4	1 5/8-12

Swivel Nut Branch Tee

S6BX

Flare tube ends / swivel nut end
SAE 070433 MS61624

Part Number Information
S6X - Body only
S6BX - Assembled fitting



PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	SWIVEL FEMALE J.I.C. NUT
	S	SS	B		
4 S6BX-	X	X		1/4	7/16-20
6 S6BX-	X	X		3/8	9/16-18
8 S6BX-	X	X		1/2	3/4-16
10 S6BX-	X	X		5/8	7/8-14
12 S6BX-	X	X		3/4	1 1/16-12
14 S6BX-	X			7/8	1 3/16-12
16 S6BX-	X			1	1 5/16-12
20 S6BX-	X			1-1/4	1 5/8-12

Extra Long Male Elbow

CCCBTX

Flare tube end / male pipe end
SAE 071402

Part Number Information
CCCTX - Body only
CCCBTX - Assembled fitting



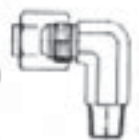
PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	PORT NPT & Thd SIZE
	S	SS	B		
4 CCCBTX-	X		X	1/4	1/8-27
4-4CCCBTX-	X			1/4	1/4-18
5 CCCBTX-	X			5/16	1/8-27
6 CCCBTX-	X		X	3/8	1/4-18
8 CCCBTX-	X			1/2	3/8-18
10CCCBTX-	X			5/8	1/2-14
12CCCBTX-	X			3/4	3/4-14
16CCCBTX-	X			1	1-1 1/2

Long Male Elbow

CCBTX

Flare tube end / long male pipe end
SAE 070502

Part Number Information
CCCTX - Body only
CCBTX - Assembled fitting



PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	PORT NPT & Thd SIZE
	S	SS	B		
4 CCBTX-	X		X	1/4	1/8-27
4-4 CCBTX-	X			1/4	1/4-18
5 CCBTX-	X			5/16	1/8-27
6 CCBTX-	X		X	3/8	1/4-18
8 CCBTX-	X			1/2	3/8-18
10 CCBTX-	X			5/8	1/2-14
12 CCBTX-	X			3/4	3/4-14
16 CCBTX-	X			1	1-11 1/2
20 CCBTX-	X			1-1/4	1 1/4 11 1/2

Aqua Tech



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Aqua Tech for all Brass

&

Stainless Fittings!

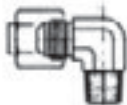
Manufacturer's literature available on request!

GYROLOK® / PARKER® / SWAGelok®

FITTINGS, BRASS & S/S

Male Elbow CBTX

Rare tube end / male pipe end
SAE 070202 MS61604



Part Number Information
CTX - Body only
CBTX - Assembled fitting

PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	PORT NPT & Thd. SIZE
	S	SS	B		
2 CBTX	X	X	X	1/8	1/8-27
3 CBTX	X	X	X	3/16	1/8-27
4 CBTX	X	X	X	1/4	1/8-27
4-4 CBTX	X	X	X	1/4	1/4-18
5 CBTX	X	X	X	5/16	1/8-27
5-4 CBTX	X	X	X	5/16	1/4-18
6 CBTX	X	X	X	3/8	1/4-18
6-2 CBTX	X	X	X	3/8	1/8-27
6-6 CBTX	X	X	X	3/8	3/8-18
6-8 CBTX	X	X	X	3/8	1/2-14
8 CBTX	X	X	X	1/2	3/8-18
8-4 CBTX	X	X	X	1/2	1/4-18
8-8 CBTX	X	X	X	1/2	1/2-14
8-12 CBTX	X	X	X	1/2	3/4-14
10 CBTX	X	X	X	5/8	1/2-14
10-6 CBTX	X	X	X	5/8	3/8-18
10-12 CBTX	X	X	X	5/8	3/4-14
12 CBTX	X	X	X	3/4	3/4-14
12-8 CBTX	X	X	X	3/4	1/2-14
14 CBTX	X	X	X	7/8	3/4-14
16 CBTX	X	X	X	1	1-1 1/2
16-12 CBTX	X	X	X	1	3/4-14
20 CBTX	X	X	X	1 1/4	1 1/4-1 1/2
20-16 CBTX	X	X	X	1 1/4	1-1 1/2
24 CBTX	X	X	X	1 1/2	1 1/2-1 1/2
32 CBTX	X	X	X	2	2-1 1/2

Male Connector FBTX

Rare tube end / male pipe end
SAE 070102 MS61600



Part Number Information
FTX - Body only
FBTX - Assembled fitting

PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	PORT NPT & Thd. SIZE
	S	SS	B		
2 FBTX	X	X	X	1/8	1/8-27
3 FBTX	X	X	X	3/16	1/8-27
4 FBTX	X	X	X	1/4	1/8-27
4-4 FBTX	X	X	X	1/4	1/4-18
4-6 FBTX	X	X	X	1/4	3/8-18
4-8 FBTX	X	X	X	1/4	1/2-14
5 FBTX	X	X	X	5/16	1/8-27
5-4 FBTX	X	X	X	5/16	1/4-18
6 FBTX	X	X	X	3/8	1/4-18
6-2 FBTX	X	X	X	3/8	1/8-27

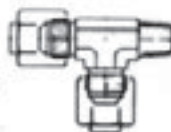
FBTX Continued

PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	PORT NPT & Thd. SIZE
	S	SS	B		
6-6 FBTX	X	X	X	3/8	3/8-18
6-8 FBTX	X	X	X	3/8	1/2-14
8 FBTX	X	X	X	1/2	3/8-18
8-4 FBTX	X	X	X	1/2	1/4-18
8-8 FBTX	X	X	X	1/2	1/2-14
8-12 FBTX	X	X	X	1/2	3/4-14
10 FBTX	X	X	X	5/8	1/2-14
10-6 FBTX	X	X	X	5/8	3/8-18
10-12 FBTX	X	X	X	5/8	3/4-14
12 FBTX	X	X	X	3/4	3/4-14
12-16 FBTX	X	X	X	3/4	1-1 1/2
14 FBTX	X	X	X	7/8	3/4-14
16 FBTX	X	X	X	1	1-1 1/2
16-12 FBTX	X	X	X	1	3/4-14
20 FBTX	X	X	X	1 1/4	1 1/4-1 1/2
20-16 FBTX	X	X	X	1 1/4	1-1 1/2
24 FBTX	X	X	X	1 1/2	1 1/2-1 1/2
24-20 FBTX	X	X	X	1 1/2	1 1/4-1 1/2
32 FBTX	X	X	X	2	2-1 1/2

Male Run Tee

RBTX

Rare tube end / male pipe end
SAE 070424 MS61511



Part Number Information
RTX - Body only
RBTX - Assembled fitting

PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	PORT NPT & Thd. SIZE
	S	SS	B		
3 RBTX	X	X	X	3/16	1/8-27
4 RBTX	X	X	X	1/4	1/8-27
4-4 RBTX	X	X	X	1/4	1/4-18
5 RBTX	X	X	X	5/16	1/8-27
6 RBTX	X	X	X	3/8	1/4-18
6-6 RBTX	X	X	X	3/8	3/8-18
8 RBTX	X	X	X	1/2	3/8-18
8-8 RBTX	X	X	X	1/2	1/2-14
10 RBTX	X	X	X	5/8	1/2-14
12 RBTX	X	X	X	3/4	3/4-14
14 RBTX	X	X	X	7/8	3/4-14
16 RBTX	X	X	X	1	1-1 1/2
20 RBTX	X	X	X	1-1/4	1-1/4-1 1/2
24 RBTX	X	X	X	1-1/2	1-1/2-1 1/2

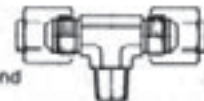
S= Steel
SS=Stainless Steel
B=Brass

Call Aqua Tech for all Commercial Diving Equipment needs.

Male Branch Tee

SBTX

Rare tube end / male pipe end
SAE 070425 MS61512



Part Number Information
STX - Body only
SBTX - Assembled fitting

PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	PORT NPT & Thd. SIZE
	S	SS	B		
3 SBTX	X	X	X	3/16	1/8-27
4 SBTX	X	X	X	1/4	1/8-27
4-4 SBTX	X	X	X	1/4	1/4-18
5 SBTX	X	X	X	5/16	1/8-27
6 SBTX	X	X	X	3/8	1/4-18
6-6 SBTX	X	X	X	3/8	3/8-18
8 SBTX	X	X	X	1/2	3/8-18
8-8 SBTX	X	X	X	1/2	1/2-14
10 SBTX	X	X	X	5/8	1/2-14
12 SBTX	X	X	X	3/4	3/4-14
14 SBTX	X	X	X	7/8	3/4-14
16 SBTX	X	X	X	1	1-1 1/2
20 SBTX	X	X	X	1-1/4	1 1/4-1 1/2

45° Male Elbow

VBTX

Rare tube end / male pipe end
SAE 070302 MS61608



Part Number Information
VTX - Body only
VBTX - Assembled fitting

PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	PORT NPT & Thd. SIZE
	S	SS	B		
2 VBTX	X	X	X	1/8	1/8-27
3 VBTX	X	X	X	3/16	1/8-27
4 VBTX	X	X	X	1/4	1/8-27
4-4 VBTX	X	X	X	1/4	1/4-18
5 VBTX	X	X	X	5/16	1/8-27
5-4 VBTX	X	X	X	5/16	1/4-18
6 VBTX	X	X	X	3/8	1/4-18
6-2 VBTX	X	X	X	3/8	1/8-27
6-6 VBTX	X	X	X	3/8	3/8-18
6-8 VBTX	X	X	X	3/8	1/2-14
8 VBTX	X	X	X	1/2	3/8-18
8-4 VBTX	X	X	X	1/2	1/4-18
8-8 VBTX	X	X	X	1/2	1/2-14
8-12 VBTX	X	X	X	1/2	3/4-14
10 VBTX	X	X	X	5/8	1/2-14
10-6 VBTX	X	X	X	5/8	3/8-18
12 VBTX	X	X	X	3/4	3/4-14
12-8 VBTX	X	X	X	3/4	1/2-14
14 VBTX	X	X	X	7/8	3/4-14
16 VBTX	X	X	X	1	1-1 1/2
16-12 VBTX	X	X	X	1	3/4-14
20 VBTX	X	X	X	1-1/4	1-1/4-1 1/2
24 VBTX	X	X	X	1 1/2	1 1/2-1 1/2

FITTINGS, BRASS & S/S

Long Straight Thread Elbow
CC5BX




Rare tube end / straight thread O-ring
SAE 070120 MS51526

Part Number Information
CC5X - Body only
CC5BX - Assembled fitting

PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	PORT Thread SIZE
	S	SS	B		
4 CC5BX	X			1/4	7/16-20
6 CC5BX	X			3/8	9/16-18
8 CC5BX	X			1/2	3/4-16
10 CC5BX	X			5/8	7/8-14
12 CC5BX	X			3/4	1 1/16-12
16 CC5BX	X			1	1 5/16-12

Straight Thread Elbow
C5BX



Rare tube end / straight thread O-ring
SAE 070220 MS51527

Part Number Information
C5X - Body only
C5BX - Assembled fitting

PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	PORT Thread SIZE
	S	SS	B		
2 C5BX	X	X		1/8	5/16-24
3 C5BX	X	X		3/16	3/8-24
4 C5BX	X	X		1/4	7/16-20
4-6 C5BX	X	X		1/4	9/16-18
5 C5BX	X	X		5/16	1/2-20
6 C5BX	X	X		3/8	9/16-18
6-4 C5BX	X			3/8	7/16-20
6-5 C5BX	X			3/8	1/2-20
6-8 C5BX	X	X		3/8	3/4-16
8 C5BX	X	X		1/2	3/4-16
8-6 C5BX	X	X		1/2	9/16-18
8-10 C5BX	X			1/2	7/8-14
8-12 C5BX	X			1/2	1 1/16-12
10 C5BX	X			5/8	7/8-14
10-8 C5BX	X			5/8	3/4-16
10-12 C5BX	X			5/8	1 1/16-12
12 C5BX	X	X		3/4	1 1/16-12
12-10 C5BX	X			3/4	7/8-14
12-16 C5BX	X			3/4	1 5/16-12
14 C5BX	X			7/8	1 3/16-12
16 C5BX	X	X		1	1 5/16-12
16-12 C5BX	X			1	1 1/16-12
20 C5BX	X			1 1/4	1 5/8-12
24 C5BX	X			1 1/2	1 7/8-12

Straight Thread Connector
F5BX




Rare tube end / straight thread O-ring
SAE 070120 MS51526

Part Number Information
F5X - Body only
F5BX - Assembled fitting

PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	PORT Thread SIZE
	S	SS	B		
2 F5BX	X	X		1/8	5/16-24
3 F5BX	X	X		3/16	3/8-24
4 F5BX	X	X		1/4	7/16-20
4-5 F5BX	X	X		1/4	1/2-20
4-6 F5BX	X	X		1/4	9/16-18
4-8 F5BX	X	X		1/4	3/4-16
5 F5BX	X	X		5/16	1/2-20
5-6 F5BX	X	X		5/16	9/16-18
6 F5BX	X	X		3/8	9/16-18
6-4 F5BX	X	X		3/8	7/16-20
6-8 F5BX	X	X		3/8	3/4-16
6-10 F5BX	X	X		3/8	7/8-14
8 F5BX	X	X		1/2	3/4-16
8-6 F5BX	X	X		1/2	9/16-18
8-10 F5BX	X	X		1/2	7/8-14
8-12 F5BX	X	X		1/2	1 1/16-12
10 F5BX	X	X		5/8	7/8-14
10-8 F5BX	X	X		5/8	3/4-16
10-12 F5BX	X	X		5/8	1 1/16-12
12 F5BX	X	X		3/4	1 1/16-12
12-8 F5BX	X	X		3/4	3/4-16
12-10 F5BX	X	X		3/4	7/8-14
12-16 F5BX	X	X		3/4	1 5/16-12
14 F5BX	X	X		7/8	1 3/16-12
14-16 F5BX	X	X		7/8	1 5/16-12
16 F5BX	X	X		1	1 5/16-12
16-10 F5BX	X	X		1	7/8-14
16-12 F5BX	X	X		1	1 1/16-12
16-14 F5BX	X	X		1	1 3/16-12
16-20 F5BX	X	X		1	1 5/8-12
20 F5BX	X	X		1 1/4	1 5/8-12
20-16 F5BX	X	X		1 1/4	1 5/16-12
24 F5BX	X	X		1 1/2	1 7/8-12
32 F5BX	X	X		2	2 1/2-12

Long Straight Thread Connector
FF5BX




Rare tube end / straight thread O-ring
SAE 070122 MS51526

Part Number Information
FF5X - Body only
FF5BX - Assembled fitting

PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	PORT Thread SIZE
	S	SS	B		
4 FF5BX	X			1/4	7/16-20
6 FF5BX	X			3/8	9/16-18
8 FF5BX	X			1/2	3/4-16
10 FF5BX	X			5/8	7/8-14
12 FF5BX	X			3/4	1 1/16-12
16 FF5BX	X			1	1 5/16-12
20 FF5BX	X			1 1/4	1 5/8-12

Straight Thread Branch Tee
S5BX



Rare tube ends / straight thread O-ring
SAE 070429 MS51529

Part Number Information
S5X - Body only
S5BX - Assembled fitting

PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	PORT Thread SIZE
	S	SS	B		
4 S5BX	X	X		1/4	7/16-20
6 S5BX	X	X		3/8	9/16-18
8 S5BX	X	X		3/8	9/16-18
8 S5BX	X	X		1/2	3/4-16
10 S5BX	X	X		5/8	7/8-14
12 S5BX	X	X		3/4	1 1/16-12
16 S5BX	X	X		1	1 5/16-12

45° Straight Thread Elbow
V5BX

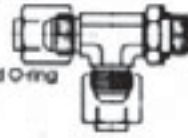


Rare tube end / straight thread O-ring
SAE 070320 MS51528

Part Number Information
V5X - Body only
V5BX - Assembled fitting

PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	PORT Thread SIZE
	S	SS	B		
4 V5BX	X	X		1/4	7/16-20
5 V5BX	X	X		3/8	9/16-18
6 V5BX	X	X		3/8	9/16-18
8 V5BX	X	X		1/2	3/4-16
8-10 V5BX	X	X		1/2	7/8-14
10 V5BX	X	X		5/8	7/8-14
12 V5BX	X	X		3/4	1 1/16-12
12-10 V5BX	X	X		3/4	7/8-14
14 V5BX	X	X		7/8	1 3/16-12
16 V5BX	X	X		1	1 5/16-12
20 V5BX	X	X		1 1/4	1 5/8-12
24 V5BX	X	X		1 1/2	1 7/8-12

Straight Thread Run Tee
R5BX



Rare tube ends / straight thread O-ring
SAE 070428 MS51530

Part Number Information
R5X - Body only
R5BX - Assembled fitting

PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	PORT Thread SIZE
	S	SS	B		
4 R5BX	X	X		1/4	7/16-20
5 R5BX	X	X		3/8	9/16-18
6 R5BX	X	X		3/8	9/16-18
8 R5BX	X	X		1/2	3/4-16
10 R5BX	X	X		5/8	7/8-14
12 R5BX	X	X		3/4	1 1/16-12
16 R5BX	X	X		1	1 5/16-12
20 R5BX	X	X		1 1/4	1 5/8-12
24 R5BX	X	X		1 1/4	1 5/8-12

Call Aqua Tech for all Commercial Diving Equipment needs.

Call Aqua Tech for all Commercial Diving Equipment needs.

FITTINGS, BRASS & S/S

Swivel Connector
F6X



Swivel Nut end / male NPTF

Part Number Information
F6X - Body only

PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	SWIVEL FEMALE J.I.C. NUT
	S	SS	B		
4-4 F6X-	X			1/4	1/4-18
5 F6X-	X			5/16	1/4-18
6 F6X-	X			3/8	1/4-18
6-6 F6X-	X			3/8	3/8-18
8 F6X-	X			1/2	3/8-18
10-6 F6X-	X			5/8	3/8-18
10 F6X-	X			5/8	1/2-14
12-8 F6X	X			3/4	1/2-14
12 F6X-	X			3/4	3/4-14
16-12 F6X	X			1	3/4-12
16 F6X-	X			1	1-11 1/2
20 F6X-	X			1-1/4	1 1/4-11 1/2

Swivel Straight Thread Connector
F650X




Swivel nut end / straight thread O-ring

Part Number Information
F65X - Body only
F650X - Assembled with O-ring

PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	SWIVEL FEMALE J.I.C. NUT
	S	SS	B		
4 F650X-	X			1/4	7/16-20
5 F650X	X			5/16	1/2-20
6 F650X-	X			3/8	9/16-18
8 F650X-	X			1/2	3/4-16
10 F650X-	X			5/8	7/8-14
12 F650X-	X			3/4	1 1/16-12
16 F650X-	X			1	1 5/16-12
20 F650X-	X			1-1/4	1 5/8-12

Mountie
T22X



Used with BTX nut to plug one port on Triple-Lok tee or cross for self-mounting

PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.
	S	SS	B	
4 T22X-	X			1/4
6 T22X-	X			3/8
8 T22X-	X			1/2

Nut
BTX




Flare tube end nut
SAE 070110 MSS1631

Part Number Information
BTX - Body only

PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	FEMALE J.I.C. NUT
	S	SS	B		
2 BTX-	X	X	X	1/8	5/16-24
3 BTX-	X	X	X	3/16	3/8-24
4 BTX-	X	X	X	1/4	7/16-20
5 BTX-	X	X	X	5/16	1/2-20
6 BTX-	X	X	X	3/8	9/16-18
8 BTX-	X	X	X	1/2	3/4-16
10 BTX-	X	X	X	5/8	7/8-14
12 BTX-	X	X	X	3/4	1 1/16-12
14 BTX-	X	X	X	7/8	1 3/16-12
16 BTX-	X	X	X	1	1 5/16-12
20 BTX-	X	X	X	1-1/4	1 5/8-12
24 BTX-	X	X	X	1 1/2	1 7/8-12
32 BTX-	X	X	X	2	2 1/2-12

Inch Sleeve
TX



Flare tube end sleeve
SAE 070116 MSS1633

Part Number Information
TX - body only

Sleeves are available from Aqua Tech in all sizes, DASH #2 thru 24. These Dash #'s are also available in Steel, Stainless Steel and Brass, #32 not available in Brass..

Cap
FNTX



Flare tube end cap
SAE 070112 MSS1632

Part Number Information
FNTX - body only

PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	FEMALE J.I.C. NUT
	S	SS	B		
2 FNTX-	X	X	X	1/8	5/16-24
3 FNTX-	X	X	X	3/16	3/8-24
4 FNTX-	X	X	X	1/4	7/16-20
5 FNTX-	X	X	X	5/16	1/2-20
6 FNTX-	X	X	X	3/8	9/16-18
8 FNTX-	X	X	X	1/2	3/4-16
10 FNTX-	X	X	X	5/8	7/8-14
12 FNTX-	X	X	X	3/4	1 1/16-12
14 FNTX-	X	X	X	7/8	1 3/16-12
16 FNTX-	X	X	X	1	1 5/16-12
20 FNTX-	X	X	X	1-1/4	1 5/8-12
24 FNTX-	X	X	X	1 1/2	1 7/8-12
32 FNTX-	X	X	X	2	2 1/2-12

Tube end reducer
TRTX



Assembles to Triple-Lok end to reduce size
SAE 070123 MSS1634

Part Number Information
TRTX - Body only
TRTX - Assembled fitting w/sleeve & nut on smaller side

PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	REDUCTION
	S	SS	B		
4-2 TRBTX-		X		1/4	1/8
6-4 TRBTX-	X	X	X	3/8	1/4
8-4 TRBTX-	X	X	X	1/2	1/4
8-6 TRBTX-	X	X	X	1/2	3/8
10-4TRBTX-	X	X		5/8	1/4
10-6 TRBTX-	X	X	X	5/8	3/8
10-8TRBTX-	X	X		5/8	1/2"
12-4 TRBTX-	X	X	X	3/4	1/4
12-6 TRBTX-	X	X	X	3/4	3/8
12-8 TRBTX-	X	X	X	3/4	1/2
12-10TRBTX-	X			3/4	5/8"
14-6 TRBTX-	X			7/8	3/8
14-10TRBTX-	X			7/8	5/8
14-12TRBTX-	X			7/8	3/4"
16-8 TRBTX-		X		1	1/2
16-12TRBTX-	X	X		1	3/4
16-14TRBTX-	X			1	7/8"
20-12TRBTX-	X	X		1 1/4	3/4
20-16TRBTX-	X	X		1 1/4	1
24-20TRBTX-	X			1 1/2	1 1/4

*Does not require BTX nut on larger side. All others require nut be purchased from Aqua Tech separately..

Plug
PNTX



To screw into BTX nut to plug line
SAE 070109 MSS1618

Part Number Information
VTX - Plug

PARKER® PART No.	STANDARD MATERIAL from STOCK			TUBE O.D.	Thread SIZE
	S	SS	B		
2 PNTX-		X		1/8	5/16-24
3 PNTX-		X		3/16	3/8-24
4 PNTX-	X	X	X	1/4	7/16-20
5 PNTX-	X	X		5/16	1/2-20
6 PNTX-	X	X	X	3/8	9/16-18
8 PNTX-	X	X	X	1/2	3/4-16
10 PNTX-	X	X	X	5/8	7/8-14
12 PNTX-	X	X	X	3/4	1 1/16-12
14 PNTX-	X	X		7/8	1 3/16-12
16 PNTX-	X			1	1 5/16-12
20 PNTX-	X	X		1 1/4	1 5/8-12
24 PNTX-	X			1 1/2	1 7/8-12
32 PNTX-	X			2	2 1/2-12

PARKER ORDERING CHART

Parker® Ordering System & Fitting Identification Numbers

6 - 4 C5BX-S

Fitting Size or Dash No.	Tube O.D.	Port End Thread Size		Tube Size		Shape or Style	Fitting Sub Style
		Pipe Thread	Straight Thread	Dash No.	Tube O.D.		
2	1/8	1/8	5/16-24	2	1/8	B Nut	5= SAE Straight Thread 6= Swivel Nut End (Tube)
3	3/16	1/8	3/8-24	3	3/16	C* 90 Degree Male Elbow	
4	1/4	1/8	7/16-20	4	1/4	CC* 90 Degree Long Male Elbow	
4-4	1/4	1/4	—	5	5/16	CCC* 90 Degree Extra Long Male Elbow	
4-5	1/4	—	1/2-20	6	3/8	D Elbow	
4-5	1/4	3/8	9/16-18	8	1/2	E 90 Degree Female Elbow	
4-8	1/4	1/2	3/4-16	10	5/8	F 90 Degree Union Elbow	
5	5/16	1/8	1/2-20	12	3/4	F* Male Connector	
5-4	5/16	1/4	7/16-20	14	7/8	FF* Long Connector	
6	3/8	1/4	9/16-18	16	1	FN Cap	
6-2	3/8	1/8	5/16-24	20	1-1/4	G* Female Connector	
6-6	3/8	3/8	—	24	1-1/2	H Union	
6-8	3/8	1/2	3/4-16	32	2	HH Long Union	
6-10	3/8	—	7/8-14			J Union Tee	
8	1/2	3/8	3/4-16			K Union Cross	
8-4	1/2	1/4	7/8-20			LH Large Hex Union	
8-6	1/2	—	9/16-18			M Female Run Tee	
8-8	1/2	1/2	—			O Female Branch Tee	
8-10	1/2	—	7/8-14			PN Plug	
8-12	1/2	3/4	1-1/16-12			R* Male Run Tee	
10	5/8	1/2	7/8-14			S* Male Branch Tee	
10-6	5/8	3/8	9/16-18			T Sleeve or Ferrule	
10-8	5/8	—	3/4-16			TR Tube Reducer	
10-12	5/8	3/4	1-1/16-12			TZ Mounse	
12	3/4	3/4	1-1/16-12			V* 45 Degree Male Elbow	
12-8	3/4	1/2	3/4-16			W Bulkhead Union	
12-10	3/4	—	7/8-14			WE 90 Degree Bulkhead Union Elbow	
12-16	3/4	1	1-5/16-12			WG Bulkhead Female Connector	
14	7/8	3/4	1-3/16-12			WN 45 Degree Bulkhead Union Elbow	
14-16	7/8	1	1-5/16-12			WJ Bulkhead Branch Tee	
16	1	1	1-5/16-12			WJJ Bulkhead Run Tee	
16-12	1	3/4	1-1/16-12			WLN Bulkhead Locknut for Triple-Lok and Ferulok	
16-14	1	—	1-3/16-12			WLNL Bulkhead Locknut for Seal-Lok	
16-20	1	1-1/4	1-5/8-12				
20	1-1/4	1-1/4	1-5/8-12				
20-16	1-1/4	1	1-5/16-12				
20-24	1-1/4	1-1/2	1-7/8-12				
24	1-1/2	1-1/2	1-7/8-12				
24-20	1-1/2	1-1/4	1-5/8-12				
24-32	1-1/2	2	2-1/2-12				
32	2	2	2-1/2-12				

Fitting Sub Style

5= SAE Straight Thread
6= Swivel Nut End (Tube)

Parker® J.I.C. Fittings are Stocked by Aqua Tech in Brass & Stainless Steel.

Designation For Assembled Fitting

The "B" designation denotes a completely assembled fitting with nut, sleeve or a nut & female.

Fitting Type

TX= Triple-Lok (if the sub style code 5 or 6 is used, OMIT the "T")

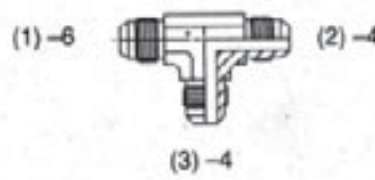
Fitting Material

-B= Brass

-SS= Stainless Steel
Parker® J.I.C. Fittings are Stocked by Aqua Tech in Brass & Stainless Steel.

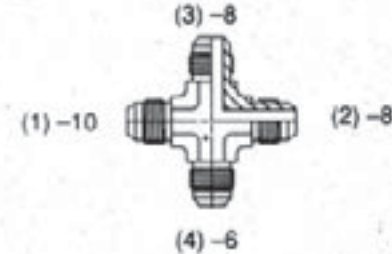
- Sizes are measured in sixteenths of an inch. (Example: 1/4 = 4/16 or -4)
 - When a fitting has more than one tube end of the same size, only one dash number for the tube O.D. is used. (Example: A tee with 1/4" Triple-Lok ends is a 4 JTX instead of a 4-4-4 JTX)
- When a fitting has different size tube ends, each end is called out in the sequence as shown
- On straight thread and swivel nut fittings, the number "S" is used to designate straight thread and the number "B" is used to designate swivel end. This number would be inserted before the "B". With Triple-Lok when the number "S" or "B" is present then the letter "T" is omitted.
- When a straight thread fitting is desired with an O-ring, the letter "O" is inserted after the sub fitting types 4, 5, 8 and 87 as listed above

Tees: First call out the ends of the run, left to right, and then the branch. The largest tube end on the run is always called out first.



6-4-4 JTX

Crosses: First call out the run ends, left to right, and then the branch, top to bottom. The largest of the tube ends is always called out first.



10-8-8-6 KTX

SCUBA TRAINING

Aqua Tech Dive Center has been certifying SCUBA Divers for more than 27 years. Aqua Tech is proud to be a **Five Star PADI® Training Facility**. As a matter of interest, Aqua Tech Dive Center was the second PADI® training facility to be awarded the 5 STAR Rating in the State of California.

Aqua Tech also offers Technical Diver Instruction through **Technical Diving International®**.

PADI® Open Water Crew Pack



PADI Rescue Diver Pack

PADI Advanced Open Water Pack



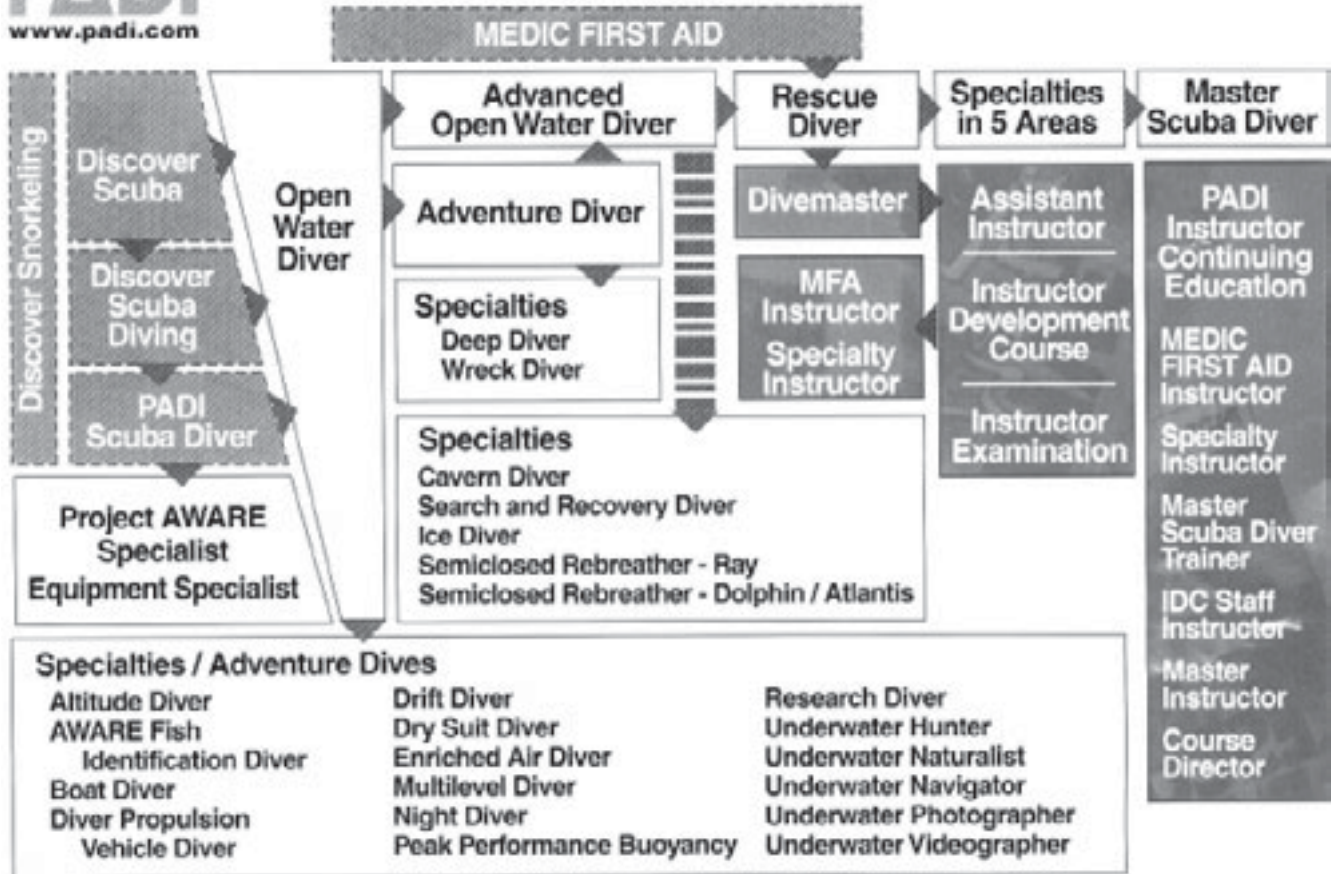
Aqua Tech stocks most manuals required for different certification levels, as well as training packages. Some items shown are not complete.



PADI Divemaster Pack



Continuing Education Flow Chart



PADI Diving Society – Invest in Adventure

Dive Today Programs
No Experience Necessary

Master Scuba Diver Path

Instructor Path

Rev. 06/15/00

BOOKS & MANUALS

Aqua Tech STOCKS ALL YOUR FAVORITES



B1A DREDGING FOR GOLD "The Gold Diver's Handbook", Mat Thornton. Complete with information for the professional or the hobbyist. Dredging, placer geology, hookah diving, mining law and other related subjects are illustrated in easy to understand language. Packed with photos and illustrations. Fully illustrated 239 pages.



B344 GOLD MINING IN THE 90's McCracken A fully outlined text of everything that the beginner as well as the advanced prospector will need to know about getting started in gold mining as a hobby or a small scale business. Covers the origin of gold, where to find it, recovery techniques, panning, sluicing, dredging, dry washing, hardrock mining, electronic detecting, cleaning, selling and much more. 8"x11" Fully illustrated 260 pages



B349A ADVANCED DREDGING TECHNIQUES Volume 2 Part 1 McCracken One of the authoritative books covering advanced mining procedures. Discover paystreaks, the technology, how and where they form. The technology of paystreaks, sampling and procedures that are vital to all gold dredgers. Fully illustrated 240 pages



B349A ADVANCED DREDGING TECHNIQUES Volume 2 Part 2 McCracken A continued wealth of information about dredging. More about gold paystreaks, winching boulder procedures, deep and cold water diving care and modification of diving systems. Recovery of free gold from small volumes of concentrates. Present legal situation of gold dredging. Information for gold in Alaska and Canada. Fully illustrated 164 pages



B377 GOLD MINERS HANDBOOK Harris. One of the most comprehensive handbooks for the modern gold miner. This book fully illustrates all facets of mining, panning, sluicing, dredging, diving, drywashing, assaying, refining, leaching, electronic prospecting and much more. See hard to get information on claims, permits and legalities of mining. Fully illustrated with all the latest equipment. 8"x 11" 250 pages



B249 WHERE TO FIND GOLD IN THE MOTHERLODE. James Klein. An accurate accounting and maps of key gold producing areas in the Motherlode Area. All counties and gold bearing districts are listed, including local treasure stories. Local laws relating to dredging and much more. Also the proper tools and equipment needed. 121 well illustrated pages.



B-251 WHERE TO FIND GOLD IN SOUTHERN CALIFORNIA James Klein Just revised for the 90's. Well written book on all the best known locations where gold exists in So. Cal. Includes also how to find gold and complete with well illustrated maps, photos & diagrams. 108 Pages.



B399 COIN AND RELIC DREDGING Bob Smith. Coin and relic dredging is a new frontier of fun and profit! This book covers the techniques on how to work Metal detector in conjunction with a coin and relic dredge. Provides ideas on where to hunt, what you might find, rules and laws and much more. Well illustrated 120 pages.

Aqua Tech STOCKS ALL YOUR FAVORITES



VT2 Successful Gold Dredging Made Easy McCracken. The most important thing in gold dredging is how to find pay streaks. Follow Dave through a complete day from startup, from sampling, production to final clean-up. Covers every important aspect of how to succeed in gold dredging. 90 minutes.



VT4 Modern Gold Mining Techniques. McCracken. Combines years of experience with advanced video effects and demonstrates proper panning, sluicing techniques, moss sampling, fanning, hydraulic concentrating, dry washing, electronic prospecting, underwater prospecting, basics of dredge cleaning, amalgamating gold and much more. A virtual encyclopedia 90 minutes.



VT7 Learn to Make Gold Nugget Jewelry Bedali. Learn to make beautiful gold nugget jewelry with step by step instructions. Whether you are a novice or an experienced jewelry maker, you will find helpful tips to make your work easier and more rewarding. 52 minutes



VT12 Stay Alive! A Guide to Survival in the Desert Southwest. Westmorland Productions. Dealing with poisonous creatures, edible desert plants, the worst mistakes you might make if stranded. Separate fact from fiction, from mirage's to quicksand. How to equip yourself and your car. Tips on finding water, signaling for help. 65 minutes



VT3 Prospecting for Gold Roy Rouch illustrates the 6 basic methods of finding gold and provides tips and information for the beginning and experienced prospector. Shows how to find gold bearing areas and where gold accumulates. Demonstrates and explains proper panning and sluicing techniques, operation of wet and dry placers, effective metal detecting in dredging and accessories. 63 minutes.



VT5 Commercial Gold Dredging and Sampling Techniques. McCracken. Exciting new video gives visual demonstrations of commercial larger scale gold dredging equipment and underwater production techniques to include winching, high tech recovery systems and other testing equipment. Covers advanced cleanup and refining techniques. A must for anyone interested in mining on a larger scale. 63 minutes.



VT9 Sure Fire Panning Methods. Gold prospectors Association of America is proclaimed the best video on gold panning ever made. This one hour video will improve your panning skills and techniques even if you have been panning for years. 45 minutes



VT10 Testing Gold Authenticity and Purity Nevada John Seginski. Now that you've got your gold, whether nugget, gold coin or jewelry). How do you know it's real? This video shows you how to test gold's authenticity, purity and karat value. 28 minutes

BOOKS & MANUALS

- | | | | | | |
|---------|--|----------|--|---------|--|
| B0474 | SCUBA DIVERS SIGN LANGUAGE MANUAL | B0001 | US NAVY DIVING - COMPLETE SET | M0796 | TECHNICAL STUDENT WORKBOOK |
| B0479 | HYPERBARIC MEDICINE PRACTICE | B0001-V1 | US NAVY DIVING MANUAL - VOL 1 | M0804 | SCUBA DIVING FIRST AID |
| B0480 | IRONSUIT | B0001-V2 | US NAVY DIVING MANUAL - VOL 2 | M0805 | DIVING PHYSIOLOGY IN PLAIN ENGLISH |
| B0482 | DIVING AND DREDGING FOR GOLD | B0001-V3 | US NAVY DIVING MANUAL - VOL 3 | B0809 | MIXED GAS DIVING |
| B0483 | DIVING ABOVE SEA LEVEL | B0001-V4 | US NAVY DIVING MANUAL - VOL 4 | B0811 | COLD WATER DIVING |
| B0485 | PROCEEDINGS OF 9TH INTL CONGRESS/HYPERBARIC | B0001-V5 | US NAVY DIVING MANUAL - VOL 5 | M0850 | DIABETIC FOOT - 6TH ED. |
| B0486 | CALIFORNIA ABALONE INDUSTRY | B0001-CD | US NAVY DIVING MANUAL - CD ROM | B0852 | ESSENTIAL GUIDE LIVE-ABOARD DIVE TRAVEL |
| B0486-S | CALIFORNIA ABALONE INDUSTRY/SPECIAL EDITION | B0005 | US NAVY DIVER'S HANDBOOK | M0869 | SPORT DIVERS GUIDE TO SUNKEN TREASURE |
| B0487 | ENCYCLOPEDIA UNDERWATER INVESTIGATIONS | B0019 | PROFESSIONAL DIVER'S LOG BOOK | B0883 | SCUBA DIVING EXPLAINED |
| B0487-A | CORRESPONDENCE COURSE/AMW INVESTIGATIONS | B0019A | ADCI COMMERCIAL DIVER'S LOG BOOK | M0920 | LIFE SUPPORT SYSTEMS DESIGN |
| B0488 | FROM SKY TO SEA: STORY OF EDWIN LINK | M0025 | DIVING AND SUBAQUATIC MEDICINE | M0921 | DEEP DIVING & SUB OPERATION PART 1&2 |
| M0489 | TEXTBOOK OF HYPERBARIC MEDICINE | B0047-H | NOAA DIVING MANUAL HARDCOVER | B0927 | SPEARFISHING FOR SKIN & SCUBA DIVERS |
| B0500 | WHO'S WHO IN SCUBA DIVING | B0047-S | NOAA DIVING MANUAL SOFTCOVER | B0935 | UNPREDICTABLE MISTRESS |
| M0507 | INTRODUCTION TO NITROX | B0047-CD | NOAA DIVING MANUAL - CD ROM | B0936 | ONE MAN'S WAR |
| B0522 | HISTORIES & MYSTERIES | B0049 | DIVER'S HANDBOOK OF U/W CALCULATIONS | B0937 | BEST OF ALERT DIVER, THE |
| M0544 | SAFETY & RESCUE FOR DIVERS | B0053 | DIVER'S REFERENCE DICTIONARY | B0938 | PROCEEDINGS OF THE 12TH INTL CONGRESS/HYPERBARIC |
| M0545 | SEAMANSHIP FOR DIVERS | B0055 | UNDERWATER EAR & NOSE CARE | M0946 | AIDS UNDER PRESSURE |
| M0546 | SEAMANSHIP FOR DIVERS | M0079 | DIVING MEDICINE | B0947 | THE SIMPLE GUIDE TO SNORKELING FUN |
| B0565 | DANGEROUS MARINE CREATURES | M0127 | TEACHING SCUBA DIVING | B0968 | GUIDE/TEACH SCUBA TO DIVERS W/SPECIAL NEEDS |
| M0581 | EANK STUDENT MANUAL & WORKBOOK | M0146 | OILFIELD DIVING/DIVER'S STORY | B0970 | MANUAL FOR DIVERS 1905 |
| M0582 | BLENDING AND PARTIAL PRESSURE METHODS | M0176 | LIVING & WORKING IN THE SEA | B0972 | SIMPLE GUIDE TO REBREATHING DIVING |
| M0619 | TITANIC: AN ILLUSTRATED HISTORY | B0190 | CONSENSUS STANDARDS/COMMERCIAL DIVING OPERATIONS | B0974 | DIVE YOUR WAY TO SUCCESS |
| B0622 | PHYSICS FOR COMMERCIAL DIVERS | M0195 | SCUBA EQUIPMENT CARE & MAINTENANCE | M0980 | UNDERWATER NAVIGATION |
| B0623 | EXPEDITION & DIVING OPERATIONS HANDBOOK | M0224 | MEDICAL EXAM SPORT SCUBA DIVERS | B0983-H | DEEP, DEEPER, DEEPEST |
| B0627 | SAFE DIVING | B0235 | STRESS & PERFORMANCE IN DIVING | B0983-S | DEEP, DEEPER, DEEPEST |
| B0634 | DIVING WITH EXD-26 | B0244 | PROCEEDINGS OF 8TH INTL CONGRESS/HYPERBARIC | B0987 | EUBS DIVING & HYPERBARIC MEDICINE |
| B0635 | DIVING WITH DIVATOR MK 11 | B0250 | CALL TO ADVENTURE | M0989 | HIGH PRESSURE BREATHING AIR HANDBOOK |
| B0654 | LET'S COOK FISH | M0258 | OFFSHORE HEALTH HANDBOOK | B0990 | PRACTICE OF OXYGEN MEASUREMENT FOR DIVERS |
| B0655 | TIME FOR SEAFOOD | B0263 | COMMERCIAL DIVER TRAINING MANUAL/W BINDER | B0991 | BENEATH THE SEA |
| B0656 | NAUTICAL NOTIONS FOR NIBBLING | B0267 | MEDICAL GUIDE HAZARDOUS MARINE LIFE | | |
| B0657 | OVER THE COALS | B0270 | PICTORIAL HISTORY OF DIVING | | |
| M0658 | DIVERS LOG | B0272 | HYPERBARIC MEDICINE AND PHYSIOLOGY | | |
| B0666 | TREASURE OF THE CONCEPCION | M0300 | BASIC UNDERWATER CAVE SURVEYING | | |
| M0673 | BEAUFORT SCALE COOKBOOK | M0301 | BASIC CAVE DIVING | | |
| M0675 | HISTORY OF DIVING (POSTER) | M0302 | NSS CAVERN DIVING MANUAL | | |
| M0678 | HOW TO PHOTOGRAPH UNDERWATER | M0303 | NSS CAVE DIVING MANUAL REVISED | | |
| M0695 | NATURAL HISTORY OF SHARKS | B0308 | DIVING INSPECTION PERSONNEL LOG BOOK | | |
| M0697 | LUNG PHYSIOLOGY/DIVERS BREATHING APPARATUS | B0312 | MAN IN THE SEA, VOL I | | |
| B0698 | BASIC DIVING PHYSICS & APPLICATIONS | B0313 | MAN IN THE SEA, VOL II | | |
| B0705-H | MARINE CONSERVATION FOR THE 21ST CENTURY | M0314 | MANUAL OF U/W PHOTOGRAPHY | | |
| B0705-S | MARINE CONSERVATION FOR THE 21ST CENTURY | B0323 | ADVENTUROUS AQUANAUT | | |
| M0714 | THE NEW GUIDE TO SEA & SEA | M0324 | SRT DIVER - REVISED 1999 | | |
| M0721 | ENGINEERING/HEALTH IN COMP AIR WORK | M0330 | NITROX MANUAL | | |
| M0722 | DIVING ACCIDENT MANAGEMENT MANUAL | M0346 | CAVE DIVING COMMUNICATIONS | | |
| B0727 | SMALL BOAT DIVING | M0348 | RECOMPRESSION CHAMBER LIFE SUPPORT MANUAL | | |
| B0746 | MEDICAL ASSESSMENT OF FITNESS TO DIVE | B0350 | BASIC DECOMPRESSION THEORY & APPLICATION | | |
| M0748 | EXPLORING DIVING | B0397 | SNORKELING AND FREE DIVING | | |
| B0749 | BEATING THE BENDS | B0399 | SCIENTIFIC DIVING: A GEN CODE | | |
| B0755-A | DEVELOPING INTERNATIONAL CONSENSUS STANDARDS | M0403 | SUNKEN TREASURE: HOW TO FIND IT | | |
| M0786 | US NAVY SEAL COMBAT MANUAL | M0404 | TREASURY RECOVERY FROM SAND & SEA | | |
| B0787 | PROCEEDINGS OF 11TH INTL CONGRESS/HYPERBARIC | M0411 | TREASURE: BUSINESS/TECHNOLOGY | | |
| | | M0449 | SCUBA DIVING: A WOMAN'S GUIDE | | |
| | | B0450 | PROCEEDINGS OF 10TH INTL CONGRESS/HYPERBARIC | | |
| | | M0465 | SEAFOOD SECRETS COOKBOOK | | |

New Publications



Essentials of Underwater Photography

Robert M. Jackson



DEATH OF AN AQUANAUT

Bill Rantson



Essentials of Diving Safety

Wesley Y. Yapor, M.D.

BOOKS & MANUALS



BK45



B133



B140



BK78



B306



BK85



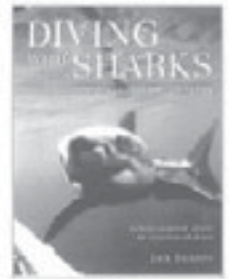
BK86



BK87



B375



B377



B101



B103



B130



B232



B233



B234



B254



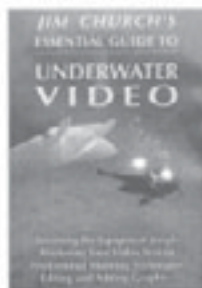
BK60



B267



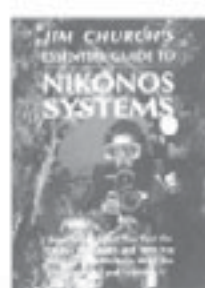
B125



B138



B153



B154



B238

Easy to use cue card set for the Nikonos camera

BOOKS & MANUALS



BK41

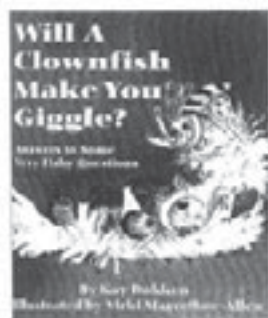
B195

B222

B224

B137
Novel

B335
Novel



B240



B266
Navy diver
handbook



B268
Guide book



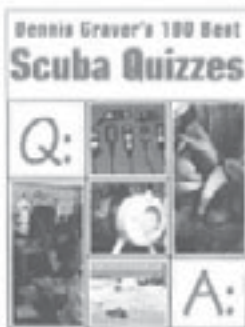
B346



B374



BK84
2001 Calendar



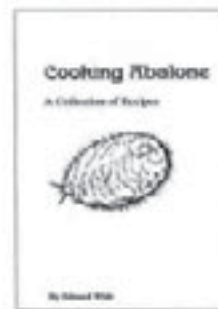
B330



BK00



B169



B158

BLUE WATER HUNTING VIDEO



B198



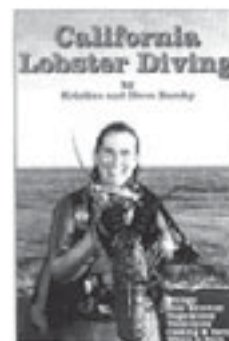
B201



B305



B347

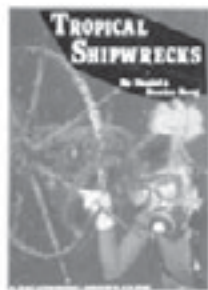


B113

BOOKS & MANUALS



B223



BK99



B115



B127



B164



B167



B170



B168



B171



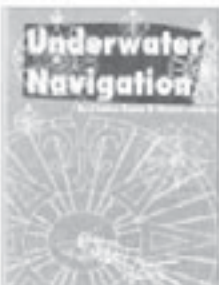
B183



B384



BK68



B225



B325



B326



B345



B104



B161



B179



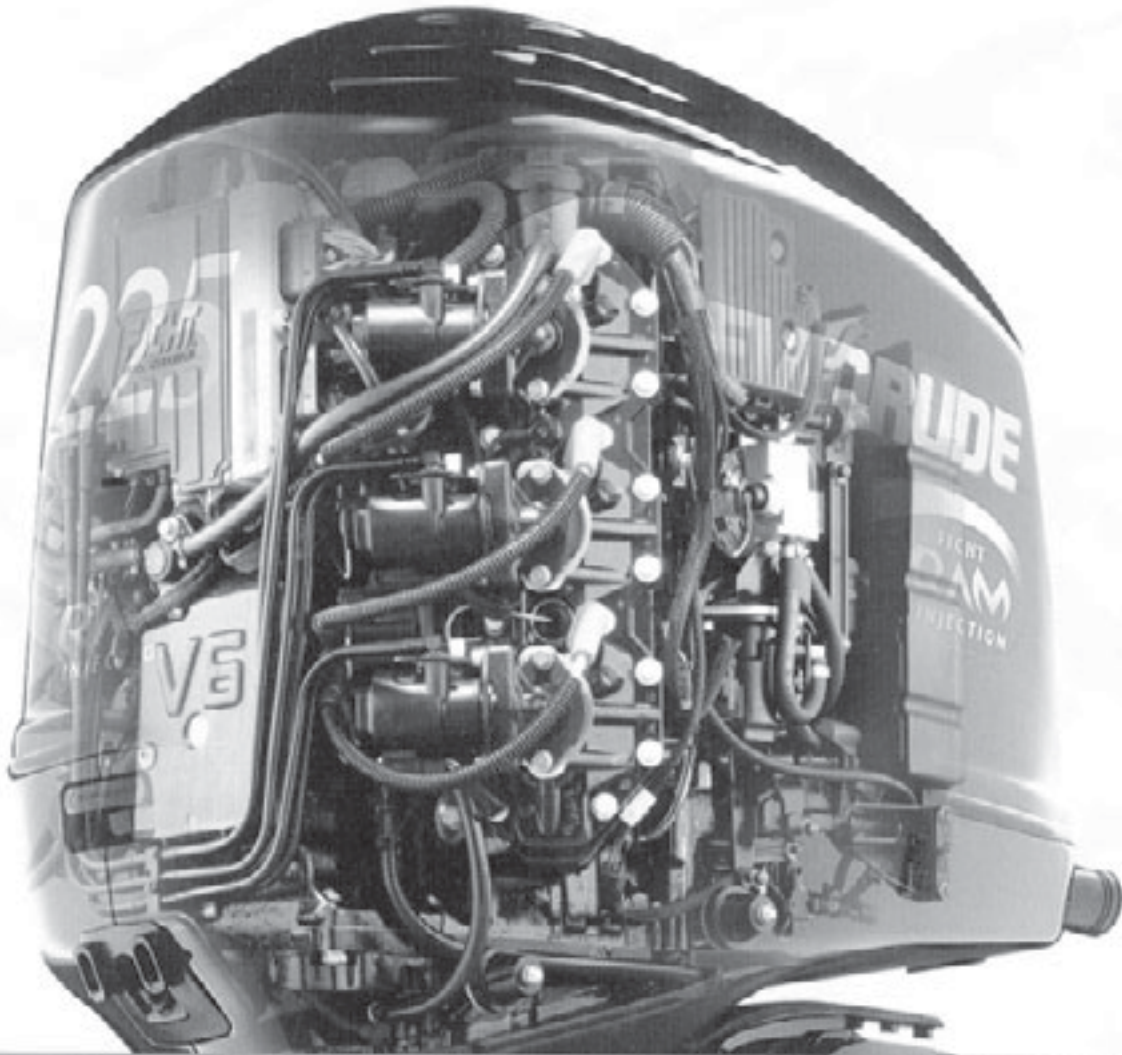
BK04

OMC® MARINE PARTS

OMC[®]
GENUINE PARTS

**PARTS &
ACCESSORIES**

Call Aqua Tech for all your marine engine needs




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AQUA TECH

Boats, Inflatable

THUNDERDUCK® INFLATABLES

Thunderduck® is a proven designer of inflatable boats for racing, military, industrial and recreational use. The standard features of the *ABDUCTOR*® series are coated fabric, heat welded seams, 6 floatation chambers, preset relief valves, molded grab handles, encapsulated marine ply floors, encapsulated transom, foot pump, and repair kit. The *ABDUCTOR*® is available in 15', and 14' 9.38". Some optional features include single point inflation, carry bag, bow bag, oversized gear bags, and extra "D" rings are some of the outstanding optional features. These features and superior construction, make the *THUNDERDUCK*® the best choice for over the horizon and special operations.



1.0 STYLE#		L4090UPW					
2.0 BASE FABRIC		ENGLISH		METRIC			
2.1 Weight		13.99	oz/lyd*	474.3	g/m ²		
2.2 Fiber		Nylon					
2.3 Fabric Style		Woven					
3.0 COATED FABRIC		40 ± 2 oz/lyd*		1356 ± 67.8 g/m ²			
3.1 Total Weight		0.0520 ± 0.0020 in.		0.132 ± 0.005 cm.			
3.2 Gauge		Urethane					
3.3 Type of Coating		65 / 35					
3.4 Coating Distribution		62 ± 0.25 in.		157.5 ± 0.64 cm.			
3.5 Width		Dielectric X		Thermal X			
3.6 Sealing Properties							
4.0 MECHANICAL PROPERTIES						TEST METHODS	
						Fed.Std/191A	ASTM
4.1 Tensile Strength		1300 lbs.		578 daN		5100	D751-A
	Grab Warp	1100 lbs.		489 daN			
	Fill	700 lbs./in		622 daN/5cm		5102	D751-B
	Strip Warp	600 lbs./in		533 daN/5cm			
	Fill	30.0 lbs./in		26.7 daN/5cm			D751
4.2 Adhesion R.F.		30.0 lbs./in		26.7 daN/5cm			
4.3 Adhesion Thermal		65 lbs.		28.9 daN		5134	D751-B
4.4 Tear Strength, Tongue	Warp	75 lbs.		33.3 daN			
	Fill	-25 ° F		-32 ° C			D2136
4.5 Low Temperature		160 / 180 ° F		71 / 82.2 ° C			D1204
4.6 High Temperature,Cont/Intern.		Wheel H18		Load 1000 g			
4.7 Abrasion Resistance(Taber)		Cycles 12000		wgt.loss 0.000040 g/cy		5306	D3884
4.8 Puncture		150 lbs.		66.7 daN		5120	D751Mod
	Screwdriver	1800 lbs.		800.0 daN		5120	D751
	Ball	600 psi		4.1 X 10 Pa		5512	D751-A
4.9 Hydro Resistance							
4.10 Flame Resistance							
	Time of Afterflame	sec. Max.		sec. Max.			
	Length of Char	in. Max.		cm. Max.			

LIFE JACKETS AND VESTS

Stearns® *Windward*

LIF326

Flotation jacket features concealed hood, storm cuffs, and sealed seams to keep out wind and water. Comfortable Suisse Aire foam for flotation and insulation. Available in International Orange, Navy, Orange/Navy combo. Sizes: Small to XXXL.



- USCG Approved Type III
- * SOLAS-grade reflective tape
 - * Two-way vision zipper with storm flap
 - * Heavy duty nylon waist belt
 - * Hand warmer and cargo pockets
 - * Mid-thigh length for foul weather protection
 - * Waterproof construction and design

Stearns® *Windward*

LIF326

The original bomber style flotation jacket with extra comfort and mobility. Cut waist-length for freedom of movement. Soft Suisse Aire foam with a coated nylon shell. Multiple pockets with full hook and loop closures. Available in International Orange, CG International Navy, Orange/Black, Orange/Navy combo. Sizes: Small to XXXL.



- USCG Approved Type III
- * SOLAS-grade reflective tape
 - * Waterproof construction
 - * Rib knit waist and wrist bands
 - * Four pockets, sleeve utility pocket and inside chest pocket

Stearns® *Merchant Mate II*

LIF323

Nonreversible vest style Type I PFD designed for comfort and performance. Soft, comfortable Aquaform flotation provides a minimum of 22 lbs. of buoyancy. International orange. Sizes: Adult Universal or Adult Oversize.



- USCG Approved Type I
- * SOLAS-grade reflective tape
 - * Hinged back panel for additional head support
 - * Encircling, adjustable body belt and chest strap
 - * Heavy -duty 210 Denier nylon shell and lining
 - * Mid-thigh length for foul weather protection
 - * 62 sq. in. of SOLAS-grade reflective tape

Stearns® *Versatile*

LIF320

LSC's best selling, most versatile flotation vest. Tough nylon shell with 7 piece foam design for all day comfort. Features 4 roomy pockets with loop enclosures and rustproof zippers. Sizes: Small to XXXL.



- USCG Approved Type III
- * SOLAS-grade reflective panels
 - * Multiple foam inserts for exceptional flexibility and freedom
 - * Quick adjust side tabs for secure fit and comfort
 - * Sturdy D-ring
 - * Hand warmer and cargo pockets
 - * Mid-thigh length for foul weather protection
 - * Waterproof construction and design

Stearns® *Work Boat*

LIF356

Heavy duty flotation vest features two adjustable belts for secure and comfortable fit, leg straps for added safety and improved in water performance. International Orange, Navy, Orange/Navy combo Sizes: Small to XXXL.



- USCG Approved Type III
- * 62 Sq. In. SOLAS-grade reflective panels
 - * Nylon shell
 - * Marine mesh lining

Stearns® *Utility Flotation Vest*

LIF460

New comfort series utility vest is specially designed with a soft, lightweight mesh on on the upper half of the vest for comfort and ventilation. International Orange. Sizes: Small to XXXL.



- USCG Approved Type III
- * SOLAS-grade reflective tape
 - * Tough, nylon oxford shell material
 - * Two 1" encircling body straps with zipper front for secure fit
 - * Two pockets with hook and loop enclosure
 - * Light, durable Crosstech flotation

Stearns® *Force II*

LIF331

Rugged work vest for all around industrial use. Aquafoam flotation foam retains buoyancy even when punctured. Coated with strong, durable PVC. International Orange. Sizes: Adult Universal.



- USCG Approved Type V
- * SOLAS-grade reflective panels
 - * Heavy duty construction
 - * Easy to clean
 - * Encircling belts with snag resistant buckles

Stearns® *Merchant Mate I*

LIF32x

Type I flotation designed to keep most unconscious wearers face upward. Provides a minimum of 22 lbs. of buoyancy. Child version has 18 lbs. of buoyancy, International Orange.



- USCG Approved Type I
- * Offshore life Jacket
 - * SOLAS-grade reflective panels
 - * Grommets for attaching Personnel Marker Light
 - * Encircling chest strap
 - * Stackable for easy stowage
 - * Stainless steel hardware

NIGHT VISION AND GOGGLES

**Famous Trails FT300
FAMFT300**

2.5x Image Magnification
Fully Focusing with Coated Optics
Anti-Bloom Protection
Self-energizing Power Supply
Lightweight Composite Housing
Detachable IR Illuminator
(3V Lithium Batt., not included)
Radio Shack Part #23265
Duracell Part # DL1/3N
Eveready® Part #2L-76)
Attached Lens Cover
Wrist Lanyard
Padded Case
Dimensions: 9" x 11" x 11.25"



**Famous Trails Neptune
FAMFT500**

2.5x Image Magnification
Moisture Proof Design
Fully Focusing with Coated Optics
Anti-Bloom Protection
Built-in IR Illuminator
Operates Up to 10 Hours
(2 AAA Batt., not included)
Lightweight Composite Housing
Attached Lens Cover
Wrist Lanyard
Padded Case
Dimensions: 9" x 11" x 11.25



**Famous Trails FT750 Calypso II
FAMFT750**

2.3x Image Magnification
Large Aperture Camera Lens
Interchangeable Lens System Accepts
other Screw Mount Lens.
Fully Focusing with Coated Optics
Anti-Bloom Protection
Built-in IR Illuminator
Operates Up to 10 Hours
(2 AA Batt., not included)
Attached Lens Cover
Padded Hand Strap and Case
Dimensions: 9" x 11" x 11.25



**Famous Trails G2K Second Generation
FAMG2**

Two Photo Cathode
Multi Alkali Resolution: 28 lp/mm Photo Response
450 Ma/lu Tube Gain: 25,000x
System Gain: 2,200x
System to Noise: 11:1
Battery Type: 3V Battery
30 Hours
Magnification: 1x
Objective Lens: 25mm F/1.6
Field of View: 40 degrees
Focus Distance: 1'
Small and Rugged
Attached Lens Cover
Soft Carrying Case
Dimensions: 4" x 2" x 2.5 Weight 8 oz.



**Gentex® EPS-21 Goggles
GEND105251**

The EPS-21 is an advanced sun wind and dust goggle for the Military user. The modular concept consists of a basic goggle, made of advanced materials, with a 4 mm thick ballistic lens which has a scratch resistant, anti-fog coating



**Hatch Boss 6000 Ballistic Optical Safety System
HAT6000**

Meets ANSI Standard Z87.1
100% Peripheral Vision
Aircraft Alloy Frame, Weight 2.4 oz.
Impact Resistant, Anti-Fog Polycarbonate Lens
All Goggle Components are Replaceable
Dimensionally Stable Optics
Sleek Design Fits Under Virtually All Helmets
Self Centering Strap
On-The-Fly Adhesive Tear-offs
(smoke, yellow, or clear)



**Bolle® T800 Tactical Goggles
BOLT800**

Meets ANSI Standard Z87.1
Good Peripheral Vision.



**Bolle® Attacker Goggles
BOL**

Tactical Goggles that are suitable for the most demanding Spec Ops, SWAT, and Tactical units.

Meets ANSI Standard Z87.1
Good Peripheral Vision



BLACK HAWK® TACTICAL

CQR Holster (Close Quarters Retention)

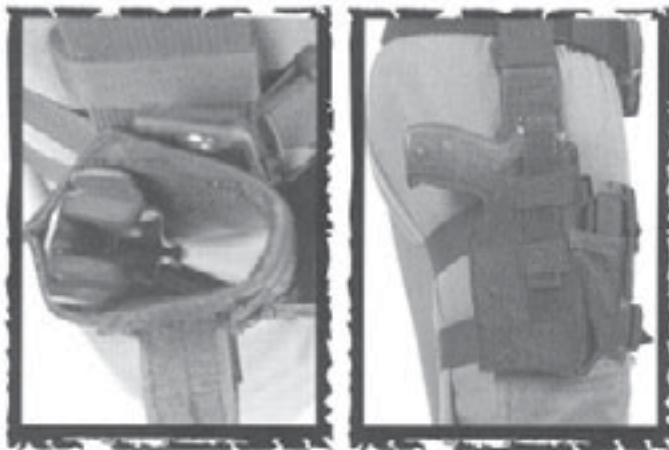
The all new CQR Assault Holster is designed to allow the shooter to snap in his pistol for prisoner control without using the thumb break and to allow absolute release and Quick draw, when needed. No levers, No buttons, No twisting, No gimmicks. Fully adjustable tension settings using a coin or flat head screwdriver/knife. Drop leg design.

Features: • Includes 2 Omega leg straps • Includes fully adjustable leg hanger • Extra Mag pouch on front/w fully adjustable lid for Mags, knives, etc. • Adjustable thumb break and security strap. • Entire Holster has rigid Talon-flex plastic insert. • Includes new

40RH00BK CQR Assault Holster SIG 226,228 Baretta 92F - Black

Most models available!-please call or see your local Blackhawk Authorized Dealer

Specify right or left hand draw, OD or desert available by special request (Minimum quantities may be required)



Mag Hip Pouches

In this configuration, magazines are worn just below the belt line. This **BlackHawk** magazine pouch holds magazines securely in individual pouches. The cover flaps have a Hook & Loop & Snap combination for outstanding positive control of the magazines when reloading in time of need. This pouch is being used more and more in 3-Gun competition.

Features include:

- Made of 1000 denier Nylatane™ nylon
- Fits up to 2 1/4" wide belt
- Removable and adjustable leg strap with elastic and side release buckle

51M502BK (Black) MP-5 Magazine Hip Pouch Wt: 8 oz.



MP-5 Magazine Hip Pouch

Swimmers One Quart Canteen Pouch

This one quart canteen pouch is virtually identical to the current military issue, except this is designed with up-to-date specifications. The **BlackHawk** model does not have the insulated fur liner, which absorbs water and adds pounds of weight to your gear. The canteen is held in place by a double flap with two Durasegs®. The bottom is made of heavy duty coated mesh for quick water drainage during river and stream crossings. It attaches to your belt with our BTS belt loops or Alice clips. Made of coated 1000 denier Nylatane™ nylon for water and abrasion resistance.

50SC00BK (Black) Swimmers One Quart Canteen Pouch

Wt: 4 oz

50SC00OD (Olive Drab) Swimmers One Quart Canteen Pouch

Wt: 4 oz



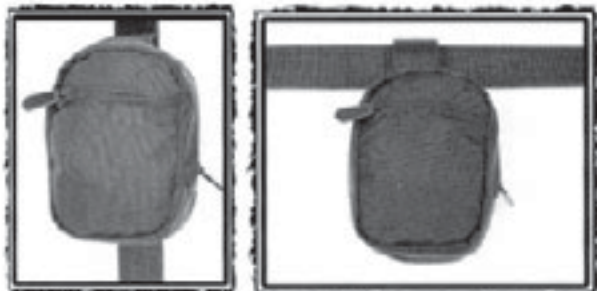
Escape and Evasion HV and drop Pouch

This is uniquely designed pouch to carry any and all E&E kit. It can be worn vertically high or low on the belt & horizontally. The vertical/below belt position allows you to gain additional space on your 1st line gear system or pistol belt load bearing system. It is made of 1000D Nylatane™ and has 2 compartments both secured by the #9 YKK zippers and Hawk Tabs. All inside edges are bound and have internal keeper elastic straps.

5" x 5" x 7.5" 7 oz. 135 cubes

50EE01BK (Black) Escape/Evasion Pouch

50EE01OD (Olive Drab) Escape/Evasion Pouch



BLACK HAWK® TACTICAL

Swimmers Two Quart Canteen Pouch

This two quart canteen pouch is virtually identical to the current military issue, except this is designed with up-to-date specifications. The **BlackHawk** model does not have the insulated liner, which absorbs water and adds pounds of weight to your gear. The canteen is held in place by lid with a 1" side release buckle. The bottom is made of heavy duty coated mesh for quick water drainage during river and stream crossings. It attaches to your belt by our BTS belt loops or the Alice clips. Made of coated 1000 denier Nylatone™ nylon for water and abrasion resistance.

- 50SCD1BK (Black) Swimmers Two Quart Canteen Pouch Wt: 6 oz.
- 50SCD1OD (Olive Drab) Swimmers Two Quart Canteen Pouch Wt: 6 oz.



CQD® Weapon Catch Mark I

Specifically developed for police and military special operations, the CQD® Weapon Catch Mark I provides weapon security and retention while maintaining immediate access. With your weapons fully secure, the Mark I's unique design offers safety, reliability and provides a tactical advantage. The trigger is protected from accidental contact and with the Mark I's ability to retain the weapon close to the body, it has been proven to prevent injury to self, teammates and prisoners. The Mark I secures rifles, shotguns, submachine guns, tear gas launchers, non-lethal weapons, manual entry tools and other special-use weapons. The CQD® Weapon Catch is used in two basic methods: (1) quick catch - used for moderate physical activity or the necessity of a quick response such as controlling known complying prisoners, hasty prisoner snatch, methodical weapon transitions, etc.; and (2) retention catch - used for intense physical activity with stress or when total retention is necessary, such as controlling non-complying prisoners, running, fast-rope, climbing, jumping, etc. The Mark II includes a polymer hook for fast clip action, and silent attach and release. It can be locked down with the overstrap. Both ALICE clips and BlackHawks BTS system can be used for attaching to the body.

Features include:

- Highly rugged, durable and streamlined
- Uses high impact polymer retention clamp
- One size fits all, Compact
- Accommodates left and right handed uses
- Compatible with existing equipment systems
- Accommodates all rifles, shotguns, and submachine guns as well as slung manual tools.

71CQD1BK Black

CQD® Weapon Catch Mark I



CQD® Weapon Catch Mark I



CQD® Weapon Catch Mark I

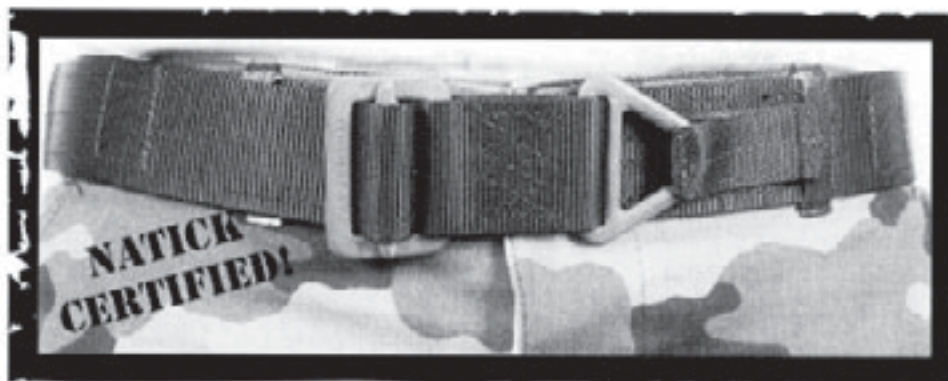
CQB/Emergency Rescue (Rigger) Belt

The BlackHawk CQB/Rescue (Rigger) belt is NATICK certified and built with parachute grade buckles and adapters. The webbing is 1 3/4" Type 13 (7,000 lb tensile strength) and Type 12 liner for the abrasion buffer. The CQB/Rescue belt is sewn with #5 nylon cord on a Class 7 sewing machine for that complete confidence in life threatening situations. The belt has hook and loop along the entire length for securing the bitter end down.

- Will fit in issue EOU's
- BH spec hardware and webbing

41CQD1BK (Black)

CQB/Emergency Rescue (Rigger) Belt Up to 41" 10 oz



BLACK HAWK® TACTICAL

Ωmega® Flash Bang (DEF-TEC # 25) Pouch-NEW ADJUSTABLE LID DESIGN!

This pouch carries three flash bang grenades with the flaps secured by "silent" side release buckles. Also each of the lids are adjustable to fully secure each flash bang. The belt hanger is fully adjustable and removable just like the leg strap. It can be worn drop leg Ωmega® style or on your belt. The Ωmega® series features:

- Made of 1000 denier Nytaneon™ nylon lined with closed cell foam
- **BlackHawk's** fully adjustable and removable Ωmega® style belt hanger
- Fully adjustable and removable leg straps
- Slotted webbing for military Alice clips
- Belt loops for attaching directly to your belt for tactical high ride
- Drainage grommets in each pouch

56FB01BK (Black)
Ωmega® Flash Bang (DEF-TEC #25) Pouch
Wt: 10.5 oz



Military Pop-Flare Pouch

Designed to fit standard military Pop-Flare and Star Clusters. The lid is secured by adjustable side-release buckles. Also fits bipods and rifle silencers. Attaches to any belt with 2 alic clips (included) and made of 1000D Nytaneon™ nylon.

54PF00BK Black
Military Pop-Flare Pouch

54PF000D Olive Drab
Military Pop-Flare Pouch

Ωmega® Shot Shell Pouch

This design carries 10 shot shell rounds in each pouch for a total of 20 rounds. Each flap can be held open or closed with Hook & Loop. All rounds are held firmly in place with heavy duty 1½" wide elastic. The Ωmega® series features:

- Made of 1000 denier Nytaneon™ nylon
- **BlackHawk's** fully adjustable and removable Ωmega® style belt hanger
- Fully adjustable and removable leg straps
- Slotted webbing for military Alice clips
- Belt loops for attaching directly to your belt for tactical high ride

56SS20BK (Black) Ωmega® Shot Shell Pouch
Wt: 13 oz



Smoke Grenade Pouch (M-18)

This "smoke pouch" is constructed of 1000D Nytaneon™. It has a top flap to secure the grenade with a Hook & Loop® combination. A pull tab has been added for a positive grip when opening. It's attached to the belt or harness by BTS or Alice clips. Special features include:

- Spoon pouch to prevent grenade rotation.

54SG00BK (Black) Smoke Grenade Pouch (M-18)
54SG000D (Olive Drab) Smoke Grenade Pouch (M-18)
Dimensions: 21/4" x 21/4" x 41/4"H
Wt: 2.5 oz

BLACK HAWK® TACTICAL



S.O.L.A.R. Harness

(Special Operations Light Adjustable Rappel)

The SOLAR Harness was designed to be carried in a compact, light weight manner. Ready to be used at any time, under any condition. It is constructed with MIL SPEC Type 13 and Type 8 webbing and is fully adjustable for perfect fit and maximum comfort. An accessory loop has been provided for miscellaneous extra gear. One size fits all.

30RH01BK (Black) S.O.L.A.R. Harness

Wt: 1 lb 1 oz

Rifle Case NEW – FULL OPENING ZIPPER FOR SHOOTING MAT CAPABILITY

If you need a top quality protective carry case for your prized possessions then the BlackHawk Rifle Cases are for you. They are constructed with 1000 denier Nylatane™ nylon which is abrasion and mildew resistant. Our padding is 3/8" closed cell foam which takes the shock and will not absorb moisture or water. Special features include:

- ◆ Wrap around handle & handle grabber
- ◆ New removable foam inserts ◆ Includes HawkTex shoulder pad
- ◆ #9 YKK heavy duty zipper & sliders with our HawkTabs®
- ◆ Detachable and fully adjustable padded shoulder strap
- ◆ **NEW Adjustable lids on mag pouches!**



64RC46BK (Black) Rifle Case Dimensions: 46" x 2 1/2" x 10"

Wt: 3 lb 4 oz

Discreet Weapons Carry Case

These cases are designed for operators who need a little extra concealment and a lot less attention paid to their presence. They are made of 1000 denier Nylatane™ nylon for extreme durability and packed with 3/8" closed cell foam padding which will not absorb water and dissipates shock. Special features include:



65DC29BK

- ◆ New removable foam padding
- ◆ Wrap around handle and handle grabber
- ◆ # 9 YKK zippers and dual sliders with our HawkTabs®
- ◆ Detachable and fully adjustable padded shoulder strap

65DC29BK (Black) Discreet Weapons Carry Case HK94,MP-5

- ◆ Includes HawkTex shoulder pad
- ◆ Interior MAG pouches
- ◆ Padded and zippered exterior pocket
- ◆ 360° internal padded protection

Dimensions: 29" x 2 1/2" x 10 1/2"

Wt: 3 lb 4 oz

BLACK HAWK® TACTICAL

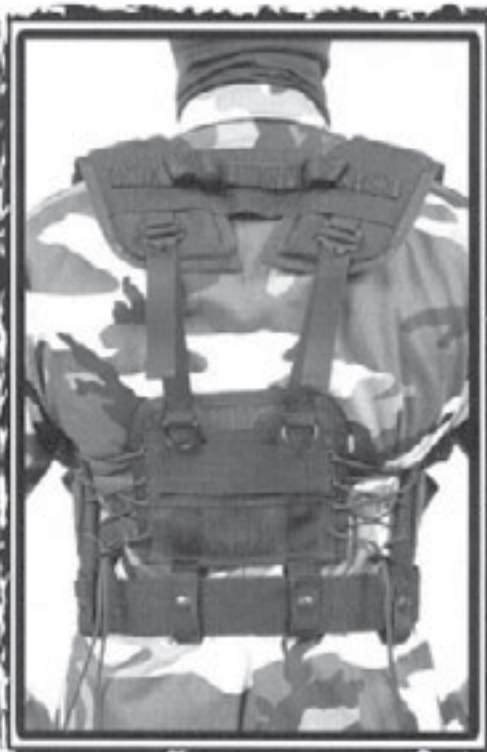


New for 2000 is BlackHawk's Sniper Shoulder™ rifle lock-in pad. This remarkable innovation features a unique, high density foam pad covered by HawkTex, BlackHawk's composite anti-slip compound. It features a built-in flexible rib on the outer edge that supports the normal lateral shift induced at the buttstock with automatic weapons fire. The Sniper Shoulder™ built into the BHI vests helps tremendously in anchoring the rifle butt when utilizing body armor. Worn over a bullet resistant vest, it provides an a secure shoulder platform for the rifle stock. All BHI non harness type tactical vests include this safety enhancement. (Pat. Pending)

Enhanced Soldier Load Bearing Vest

BlackHawk's enhanced SF-LBV pouches are angle designed for increased magazine efficiency. The panels are made of nylon mesh and the pouches are made of 2 layers of 1000D Nytaneon™. The shoulder straps are neck contour cut and packed with .5" closed cell foam. The internal panels have #9 YKK zippered mesh compartments. Each magazine pouch holds 2 M-16 .223 mags that are separated and kept silent by a mag divider. This vest holds a total of 8 .223 mags and 2 grenades. Special Features Include:

- Internal Mesh Pockets
- .5" closed cell shoulder padding
- Stealth snap and hook/loop closures on all pouches
- Belt loops for military 2.5" Pistol Belts
- BTS webbing on side and back (fits any BlackHawk pouch)
- Welded/Anodized metal d-rings for Butt-Pack attachment
- Rescue Drag handle
- Hydration System tube Routing system
- Pack-Strap keeper system



31SF03BK Black Enhanced Soldier L.B.V.

BLACK HAWK® TACTICAL

Omega Cross Draw/Pistol Mag Vest

This vest has a cross draw holster secured by adjustable FastTex. Includes new internal zippered map pouches and Sniper Shoulder™. The Pistol Mag Pouches are adjustable for tall or short mags as well as flashlights and other utility items. Special features include: (Gas mask pouch and radio pouch optional.)

30VT26BK Black

OmegaCross Draw/Pistol Mag Vest



Omega Operator Vest -40mm/Rifle

The Blackhawk Omega Tactical Operator 40 mm/Rifle Vest is designed to carry (8) eight 40mm HE or ILLUM canisters in pouches with adjustable lids and up to (6) M-16 or (3) AK or (3) M-14 mags. (Also fits MK-13 flares).

- Internal Zippered map/utility pockets.
- Hook & loop ID panel for flags or nametag.
- Fully adjustable sides & shoulders.
- Belt loops for military 2.25" web belt
- Emergency drag handle.
- Shoulder D-rings for pack attachment.
- BTS web on back for Radio, Gas Mask, ID Panel
- Hawk Tex Shooters Pad and Stock Stop Ribbing

30VT290D

Omega Vest - Operator

40mm/Rifle - OD Green



BLACK HAWK® TACTICAL



The new QD® Special Operations Tactical Folder by trainer Duane Dieter is the latest magnificent collaboration to emerge from the M.O.D. R & D center in the hills of North Carolina. Constructed of the most advanced materials available, its' operating mechanism is computer machined to tolerances one-thirtieth the width of a human hair. Like all M.O.D. knives, the Dieter QD knife is milled from solid bars of T6 aluminum with blades of 154cm cryogenically heat treated steel. The final assembly is hand fitted by master craftsmen, giving you the perfection of a custom knife, with the accuracy and durability availed by 3rd millennium computerized milling techniques.

Built on the same machinery used to make missile guidance systems, Dieter's tactical knife features a plunge lock system, secondary safety lock, cord ripper/cuff cutter, Dieter side hilt, a modified spearpoint breacking blade, and military anti-slip grip inserts. Brutally strong, it is designed by the world's leading Close Quarters Defense® specialist, trainer of the world's most elite special operations units. All QD® folders pass the stringent inspection procedures demanded by tactical knife authority and M.O.D. CEO Jim Ray. It is available in

mate bead blast or proven stealth black titanium-carbonitride coating, with a plain or partially serrated cutting edge. This is a knife that can keep you alive. Offering both utility and astonishing defensive capability, the Dieter Spec Op's knife is a new level of personal weaponry. M.O.D.'s tactical knives are regarded by many as the most advanced production tactical knives in existence today. Since their introduction, they have become the tool of choice for black-ops specialists throughout the defense industry.

Call Blackhawk toll-free for a dealer near you and a free catalog!

At right is the Dieter QD Weapon Catch - See Page 58 for pricing!



BLACK HAWK
THE WORLD'S FINEST TACTICAL NYLON



BLACK HAWK® TACTICAL

PAKTEEN™ MAXIMUM™ GEAR

RESERVOIR CAPACITY: 50 oz / 1.5 LITERS
 TOTAL CARGO: WATER ONLY
 EMPTY WEIGHT: 8 oz / .23 Kg

A fully insulated stand-alone hydration unit, the PakTeen™ fits easily inside your pack or can be lashed on the outside of duty gear or your web harness. When empty, the unit collapses flat, won't rupture if you fall and can be filled directly with most water filters. For long missions or extended engagements, they can be worn in tandem for extra capacity.

FEATURES:

- Daisy chain and D-rings for attaching on the outside of gear
- Abrasion-resistant 500D Cordura® exterior
- CamelClip™ attaches tube just where you'd like it
- Extra-long Monster Flow™ tubing (44") detaches for easier cleaning and sizing

76050 PAKTEEN MAXIMUM GEAR
 50 oz / 1.5 LITER • BLACK



H.A.W.G.™ MAXIMUM™ GEAR

RESERVOIR CAPACITY: 100 oz / 3 LITERS
 TOTAL CARGO: 830 cu. in. / 14 LITERS
 WEIGHT EMPTY: 2 LB / .91 Kg

Completely redesigned for 2000, the H.A.W.G. features upgraded zippers, material and harness system. Developed for highly mobile short-range recon missions, the H.A.W.G. holds over 50% more cargo than the M.U.L.E. and features modular attachment points for use in a variety of mission configurations. Can easily carry a survival ration pack.

FEATURES:

- New 1000D Cordura® materials, all nylon webbing and heavy-duty, double-stitched construction
- 2" Belt & removable Sternum strap
- New modular and daisy chain attachment points
- 830 cu. in. of storage with a large main compartment
- Fully padded, wicking mesh harness system for extra comfort and stability

73000 H.A.W.G. MAXIMUM GEAR •
 100 oz/3 LITER • BLACK



S.T.O.M.P. II Medical Coverage Bag (Jumpable)

The S.T.O.M.P. II was designed to SFM team medic specifications. All material is made of heavy duty 1000D Nylon™. All padded areas are closed cell foam. The adjustable shoulder straps, sternum strap and adjustable web belt make for a comfortable fit. Cinch straps are included for the sides and top to maintain load integrity during stress maneuvers. All of our zippers have our Hawk-Tabs. Grommets are provided for drainage. Like all of our bags the S.T.O.M.P. II is CamelBak compatible and has the Blackhawk Tube Routing System.

Internal Features:

- Outside flap has two netted, zippered, flat pockets
- The next flap going in has several elastic stays, one large zippered pocket, and four medium open pouches
- The next flap consists of a zippered pocket with a netted flat pocket with two zippered openings, several small pockets and several elastic keepers
- The last flap has two pockets containing a color coded removable bag (one in each pocket)
- Pouches for two CamelBak Hydration systems

External Features:

- Adjustable Shoulder Straps, Web Belt, Sternum Strap
- Two grab handles are attached to the outside flaps for picking up in a hurry. They also double as drag handles
- Hook & loop Strip located on the back panel for attaching marker panels and other items
- Inside panel is padded with closed cell foam
- Alice attachment webbing is sewn to the underside of the pack
- Grommets are on the bottom for drainage
- Cinch straps are included for the sides and top to maintain load integrity during stress maneuvers.

GOMP01BK Black S.T.O.M.P. II
 Medical Coverage Bag



BLACK HAWK® MILITARY PACKS



R.A.P.T.O.R. Pack

The BlackHawk R.A.P. is designed for special-ops use and abuse. It is made to the specifications of the US Army Special-ops groups. It has 2 "Pop-Flare Pouches" on the right side and one combo "Pop-Flare Pouch and Radio Pouch" on the left side. All material is Heavy Duty 1000D Nylatane™, with all seams Quad-stitched and Trim Taped Edges. It is Hydration System Compatible, Free Fall and Static Line Jumpsafe w/built in Harness Attachment system. The shoulder straps and waist belt are packed with .5" closed cell foam and have an additional fully adjustable extreme load carry suspension system. Drain holes are provided for each compartment for an increase in efficiency during

Maritime operations. Special Features include:

- Hydration Tube Routing System (both sides)
- Antenna Routing Ports System
- Removable waist belt
- Removable sternum strap
- Compartment Securing System for Ops Gear
- Extreme Emergency access pouches (Pop Flare/Radio)
- Drag Handle/Carry Handle
- Hawk-Tab zipper silencers
- Drainage Grommets
- Internal secure system for man carried radios (LST-5/Pre17 etc.)



603D05BK Black R.A.P.T.O.R. Pack

Enhanced Military Butt Pack

BlackHawk's Butt Pack is made to the same size as the U.S. governments butt pack but with many added and superior features. This lifetime lasting pack works great with our Special-Operations vests or H-Gear shoulder straps. It has a draw string liner with a cordlock to secure its contents.

- ★ **New Design-now has grab handle**
- ★ **New Design-includes super tough lash tabs top and bottom**
- ★ BTS webbing on sides for additional pouch attachment
- ★ Made of 1000 denier Nylatane™ nylon
- ★ All edges bound with a special double needle machine
- ★ Adjustable Side release buckles are used for quick, silent opening
- ★ Belt loop and Alice clip attachment
- ★ Drain holes
- ★ D-ring for suspender hook-up prevents sagging
- ★ Draw string liner with cordlock

60BP00BK (Black) Butt Pack Wt: 9 oz

Dimensions: 10⁵/₈"x 6³/₄"x 10"H Cubes: 708"



BLACK HAWK® TACTICAL

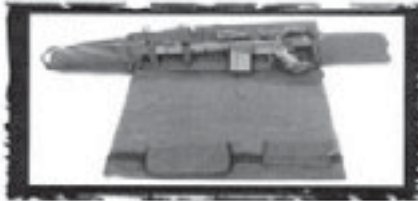


Long Gun Pack Mat with HawkTex®

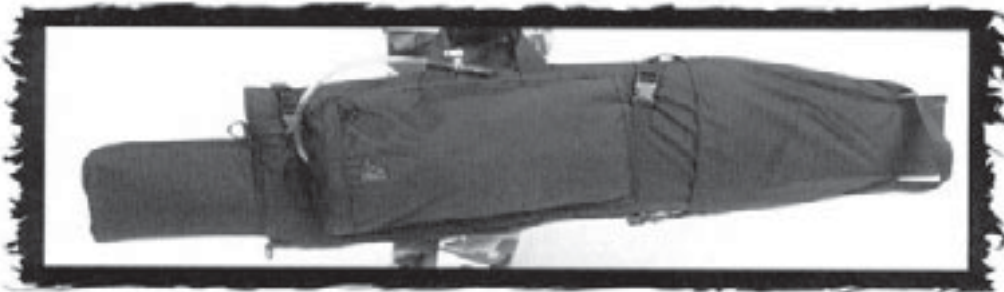
A true professional deserves **BlackHawk's** Long Gun Pack Mat with HawkTex® to fully round out his abilities. This unique piece of gear can change missions along with the operator. It is used as a rifle carrying case, a backpack, a jungle drag bag and as a shooting mat complete with removable notebook, bullet, weapons cleaning kit and bolt carrying pouches. HawkTex® on the mat presents slipping whether it's hot or cold, wet or dry. This is an outstanding piece of gear and every long gunner should have one!



- * New HawkTex Elbow locks - in system
- * Full wrap around carry handles made of heavy duty webbing for superior weight support
- * All compartments closed by #9 YKK zipper and sliders with our HawkTubs®
- * Hard plastic crown protective cover lined with closed cell foam
- * Concealable back pack harness straps & belt (fully padded)
- * Sternum strap elasticized for comfortable fit
- * Closed cell foam insulation and padding
- * Made of 1000 denier Nylatex™ nylon
- * Fits all rifles up to 50" in length
- * Freefall and static line jumpable
- * CamelBak Compatible™



20PM03BK (Black) Long Gun Pack Mat with HawkTex® Wt: 5 lb
 Dimensions: 50" x 14" x 4"



Tactical Pistol Lanyard - Coiled

Made of coiled telephone type wire with a black rubber exterior laminate. Modular attachment to your belt with our BTS Belt Loop and attaches to your weapon with gutted 550 cord. Allows full extension shooting.



90TP11BK Black Tactical Pistol Lanyard - Coiled

DANNER® UNIFORM BOOTS

RAIDER



VIBRAM 148 KLETTERLIFT

STYLE NO. 59800
 M: 7-12, 13, 14, 15D AND 6-12, 13EE
 W: 5-10M
 GORE-TEX®

Full-grain leather and Cordura uppers offer great support, the Raider's padded collar ensures comfort on all day marches or foot patrols.

TROOPER II



VIBRAM 1375 BIFIDA

STYLE NO. 22400
 M: 7-12, 13, 14D AND 6-12, 13EE
 GORE-TEX®

A lightweight breathable boot features cement construction outsole, offering significant weight savings, and Danner's legendary all-day comfort.

ACADIA STEEL TOE



VIBRAM 148 KLETTERLIFT

STYLE NO. 22500
 M: 7-12, 13, 14D AND 6-12, 13EE
 GORE-TEX®
 ANSI-APPROVED STEEL
 SAFETY TOE

Our popular leather and Cordura® Acadia boot with an ANSI-approved steel toe for protection. Compatible with Danner's boot zipper, for easy on and off.

ACADIA



VIBRAM 148 KLETTERLIFT

STYLE NO. 21210
 M: 8-12, 13, 14D; 7-12, 13, 14, 15D AND 6-12, 13EE
 W: 5-10M
 GORE-TEX®
 U.S.M.C. APPROVED (#91-94)

Water-resistant leather, 1000 denier Cordura® nylon and Danner's patented GORE-TEX® liner make the lightweight, uninsulated Acadia a great choice for warmer climates and high activity levels.

FORT LEWIS



VIBRAM 148 KLETTERLIFT

STYLE NO. 29110
 M: 7-12, 13, 14, 15D AND 6-12, 13EE
 W: 5-10M
 GORE-TEX®
 FORSCOM APPROVED

The consummate foot soldier, the Fort Lewis features our patented GORE-TEX® liner to keep your feet nice and dry. Uninsulated for warmer climates and those extra long marches.

The Naked Truth About Boots



Let Aqua Tech Give You a Hand With all Your Danner® Needs



UNDERWATER CAMERAS

Ikelite® Auto 35 MD System



The Auto 35 system provides very good underwater photographs automatically. Compact, lightweight and trouble free, complete with a full frame motor drive, a 35 mm camera at a realistic price. This is a well designed rugged system, not just a colorful "point and shoot" camera.

The maintenance free housing includes a special internal lens for optimum photos underwater in the 2 - 6 ft range. Camera installation and removal is fast and simple.

Compact and lightweight, the Auto 35 features a built-in hand grip with lanyard, accessory shoes, and sports finder for easy framing. Safe operation to 38m (125').

- * Motorized film advance
- * Motorized film rewind
- * Built-in flash
- * DX coding
- * Automatic flash "on"
- * Automatic flash "off"
- * Fixed-focus 3-element 28 mm wide angle glass lens
- * Accepts ISO 100, 200 & 400 in color or black/white

Optional Accessories include a real macro kit for close-up photographs about 9 inches from the camera, handle and tray for mounting accessories, colorful front shrouds, and optional external SubStrobes with various mounting systems.

Ikelite® SubStrobe A35

IKE5468



An external strobe enhances photos by helping to eliminate backscatter. This combination includes a special SubStrobe A35, a rugged aluminum mounting tray, molded rubber hand grip, and quick release Strobe Arm II. The solid tray provides ballast to achieve neutral buoyancy for the system.

The SubStrobe A35 is twice the power of the SubStrobe AQ/S, is only 4.5" long and a mere 1.3 pounds. Five second recycle time and almost 300 flashes from 4 "AA" alkaline batteries



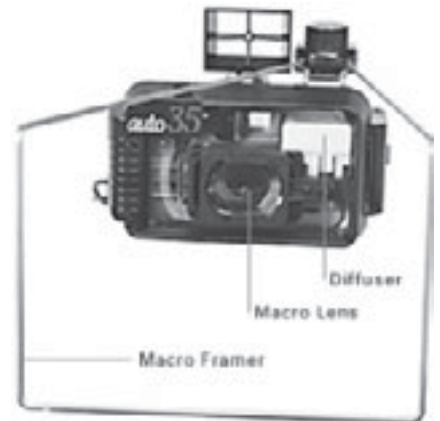
Ikelite offers optional color shrouds in; chrome, blue, green, and yellow.

Durable vinyl Travel bag.

For any question please call Aqua Tech, we will be glad to aid you in your camera setup.

Ikelite® SubStrobe A35

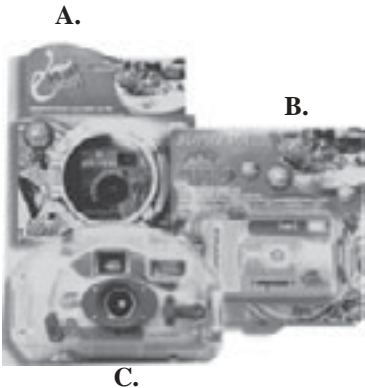
IKE5465



This accessory provides real macro capability. Shoot sharp, colorful, close-up photographs of small underwater subjects approximately 9" from the camera. The removable framer shows the area being photographed. Diffuser softens the light from the built-in flash of the camera.

McNett® Multi Use Cameras

McNett's line of underwater cameras are ideal for diving, snorkeling, white water, sailing and marine, sport fishing, fly fishing and outdoor adventures of all kinds.



A. Point & Shoot: Single use 35 mm camera waterproof to 45 feet. Preloaded with 27-Exposure ISO 400 color film. Focus-free lens with pop-up viewfinder. May also be used above water in wet conditions.

B. Suprema® Sport: High performance reloadable 35 mm camera waterproof to 60 feet. Motorized film advance/rewind and flash. Focus-free lens; durable waterproof housing; pop-up viewfinder. Camera may be removed from housing for land use.

C. Suprema® Super Sport: High performance reloadable 35 mm camera waterproof to 130 feet. Motorized film advance/rewind and flash; tripod mount, with viewfinder and wrist lanyard (not shown). Glass lens on camera and housing for best light absorption. Heavy duty waterproof housing with single hinge. Camera may be removed from housing for land use.

REEFMASTER® CAMERAS

ReefMaster Expandable System

ReefMaster PRO PROFESSIONAL DIVE CAMERA SET

Item SL560

ReefMaster PRO Includes:

- External Flash
- Macro 3X Close-up Lens / Underwater Filter
- Deluxe padded carry case
- Fully automatic 35 mm camera
- F-stop 3.5 • 1/140 shutter speed
- Multi-coated, glass lens • Big sports finder
- Built-in, color corrected underwater flash
- One step "PUSH HERE" shutter lever
- Automatic advance and rewind • ASA 100-200
- Rubber armored underwater housing
- Optional land use out of rubber armored housing
- Care Kit
- "Great Pictures Made Easy" booklet
- Fully expandable with MACRO Set



REEFMASTER RC UNDERWATER PHOTO SET

Item SL511



Dive to 164 ft

DC200 Digital Underwater Camera System

Now Available is the DC200 that can be used for Land and Sea Pictures. The one-button operation makes it easy to use and the instant review and delete function practically guarantees great pictures on the spot. The 2-hour life of the rechargeable batteries with LCD monitor on allows up to 2 normal dives. The camera is loaded with accessories and great dive features. *Many options available.*



ReefMaster RC Underwater Photo Set (Item SL511) includes:

- SeaLife ReefMaster RC Automatic Land & Sea Camera
- Airtight unbreakable Travel Accessory Case
- SeaLife MACRO 3X Close-Up Lens / Underwater Filter
- SeaLife Care Kit
- SeaLife "Moisture Muncher" anti-fog desiccant
- Foam insert and space for accessories
- SeaLife color booklet "Great Pictures Made Easy"

Cameras

SEA & SEA® U/W CAMERAS

In 1968, two young men handmade a strobe. They called it the Yellow Submarine and it became the cornerstone of a global corporation.

Today Sea & Sea bridges the centuries with a comprehensive line of underwater imaging products, from the world's most popular amphibious cameras to cutting edge housings for SLR cameras and video camcorders, sterling lenses and strobes, and an extensive array of accessories.

Dependability and ease of operation are the hallmarks of all Sea & Sea equipment. Like the first strobe, innovative design, precision engineering, and ease of use distinguish all Sea & Sea products. A commitment to excellence is a 30 year old concept that time and technology cannot improve.

Sea & Sea Point & Shoot MX-5

SEAxxxxx



Sea & Sea's new camera, the MX-5, is a ready-to-shoot splash-and-flash camera that makes taking pictures fun and easy. Take it scuba diving, snorkeling, surfing, skiing, rafting and fishing. It's weatherproof and waterproof to 120 feet. Constructed of translucent polymers, it is lightweight, sporty, impact resistant, and noncorrosive. It comes in five tropical colors: Deep Ocean Blue (#05100), Luminous Yellow (#05200), Anemone Pink (#05300), Coral Reef Green (#05400), and Stingray Gray (#05500). Sea & Sea made it. You know it's good!

- * **Built-in focus-free 28 mm f/9 amphibious lens**
- * **Automatic film loading, advance and rewind**
- * **Uses 35 mm film**
- * **Built-in flash for indoors, outdoors, or underwater**
- * **Digital LCD window displays film load confirmation, low battery warning, and frame counter**

Sea & Sea Point & Shoot MX-5

SEA04701



The MX-10 is a compact, lightweight amphibious camera that is ideal for diving, snorkeling, rafting, all outdoor activities. Simple to use, versatile and attractively priced, it is the perfect camera for beginners.

- * **Built-in focus-free 32 mm lens**
- * **Automatic film loading, advance and rewind**
- * **Shutter speed fixed at 1/100 second**
- * **Built-in flash for indoors, outdoors, or underwater**
- * **Exterior mount lets you add on or take off accessory lenses underwater**
- * **Constructed of noncorrosive polycarbonate**

YS-40A Strobe

SEA14200



The YS-40A strobe has been manufactured exclusively for use with the MX-10 camera. It is equipped with a built-in sensor that automatically delivers the proper exposure for perfectly illuminated images.

- * **Built-in prism diffuser, 80° x 70° beam**
- * **Infrared optical triggering synchronizes strobe with camera shutter.**
- * **No cords or cables**

20 MM Wide Lens Conversion Kit

SEA00410



Attach to the camera's built-in lens and you've instantly converted your standard lens to a wide angle lens. Ideal for taking pictures of large fish, schools of fish, reef corals, fellow divers. Use with the companion Sports finder for accurate framing.

- * **Converts angle of view from 51° to 74.4°**
- * **Reduces focusing distance to 16 inches**
- * **Can be attached or detached underwater**

MX-10 Macro Lens

SEA04020



To capture the sea's smallest creatures, you need to get really close. The MX-10 Macro Lens lets you get just seven inches from your subject and still retain super sharp focus.

- * **Consists of lens, base plate and guide rod.**
- * **Folds down for convenient storage**
- * **Detachable guide rod stores under the base plate**

MX-10 Close Up Lens

SEA04030



An exterior bayonet mount allows for quick and easy coupling of the close-up lens to the MX-10's built-in lens. Reduces the camera's close focusing limit from four feet to 19 inch.

20 MM U/W Color Filter

SEA04070



Mounts to the front of the 20 mm conversion lens to minimize the blue effects of water and creates brighter, more saturated reds and oranges. Filters available for MMII -EX and Seamaster® PRO-EX.

There are many other accessories, macro kits, sync cords, connectors, and options form the SEA & SEA product line that are not shown, please call for additional information.

AQUA TECH

comsales@divecenter.com / milsales@divecenter.com
Toll free 1-800-345-3252 / Fax 619-237-1886

www.Divecenter.com

SEA & SEA® CAMERAS

The bestselling **Motor Marine II-EX** and **Seamaster Pro-EX** are available at dive retailers only) incorporate a host of sophisticated features that promise ease of operation, superior performance, and limitless versatility.

- * **Built-in 35 mm amphibious lens**
- * **Unique built-in close-up lens that focuses down to 18 inches**
- * **Automatic film load, advance and power-driven rewind**
- * **Automatic DX indexing for ISO 50, 100 and 400 speed films**
- * **Dedicates for TTL flash photography at speeds of 1/15, 1/30, 1/60 and 1/125 second**
- * **In-viewfinder LED**
- * **Exterior bayonet mount permits users to attach or detach auxiliary lenses underwater**



Motor Marine® II-EX

16 MM Lens Conversion

SEA03031



This is the lens of choice for photographing schools of fish, wrecks, and those rare encounters.

- * **Mounts to the camera's built-in lens, converting it from a standard lens to a wide angle lens**
- * **Expands the angle of view from 46° to an ultra wide 91°**
- * **Allows for extreme close focusing, down to 12 inches**
- * **Yields crisp distortion-free images**

20 MM Lens Conversion

SEA03020



Outstanding for buddy and fish portraits and reef corals.

- * **Expands angle of view from 46° to 80°**
- * **Reduces minimum focusing distance from three feet to 16 inches**
- * **Offers high resolution images with corner-to-corner sharpness**

Optical Viewfinder

SEA03020



An auxiliary optical viewfinder that mounts to the camera's hot shoe and provides accurate framing and composition.

- * **Internal masking for 15 mm, 20 mm and 35 mm lenses.**
- * **96° of coverage**
- * **Compatible with the Motor Marine II, Motor Marine II-EX, Seamaster Pro-EX and Nikonos cameras**

YS-30TTL DUO Strobe

SEA10500



Exposure control: Man./TTL
Beam angle: 55° x 80°
Guide number: (ISO 100, land): 66/2(ft/m)
Recycle time: 4 sec. (ni-cad), 5 sec. (alkaline)
Number flashes (full power): 250 (alkaline), 140 (ni-cad)
Color temperature: 5900° K
Slave function: Built in TTL
Power source: 2 AA alkaline or ni-cad batts.
Maximum depth: 200 feet/60m
Weight: .91 lb

YS-60TTL N/S Strobe

SEA15xxx



Exposure cont: Manual/ TTL
Beam angle: 105° x 95°
Guide no. (ISO 100, land): 72/22 (ft./m)
Recycle time: 4 sec. (ni-cad), 6.5 sec. (alkaline)
No. of flashes (full power): 200 (alk.), 120(n-c)
Color temperature: 5500° K
Slave function: Built in
Power source: 4 AA alkaline or ni-cad batteries
Maximum depth: 200 feet/60m
Weight: 1.7 lbs.

YS-90TTL Strobe DUO

SEA16900



Exposure control: Manual/ TTL
Beam angle: 105° x 95°
Guide no. (ISO 100, land): 72/22 (ft./m)
Recycle time: 4 sec. (ni-cad), 6.5 sec. (alk.) 4 sec. (lith.)
No. of flashes (full power): 200 (alk.), 120(n-c), 300 (lith.)
Color temperature: 5400° K, 5100° with diffuser
Slavefunction: Built in
Power source: 4 AA alkaline, ni-cad, lithium batt.
Maximum depth: 200 feet/60m
Weight: 15 oz. (land) (including batteries)

YS-90 DX Strobe

SEA16950



Exp. Control: TTL and Manual, with 12 light levels
Beam angle: 105° x 95°
Guide number: (ISO 100, land) 72/22 (ft/m)
Recycl time: 4 sec. (ni-cad), 6.5 sec. (alk.), 4 sec. (lith.)
Color temp: 5500°K
Recycl time: 4 sec. (ni-cad), 6.5 sec. (alk.)
Powersource: 4 AA alkaline, ni-cad, lithium batt.
Max depth: 200 feet/60m
Weight: 15 oz. (land) (including batteries)
Optional: Fiber optic cable 58040

YS-350TTL/PRO Strobe

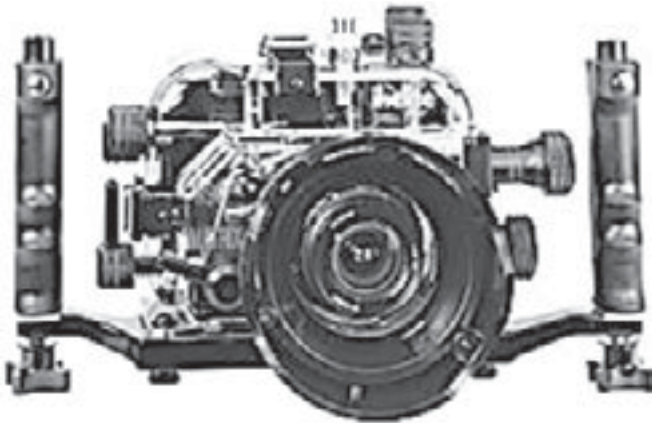
SEA185xx

Exposure control: Manual and TTL
Beam angle: 105°
Guide no. (ISO 100, land): 105/32 (ft.m)
Recycle time: 4 sec. (full)
Number of flashes: 120 (full)
Color temperature: 5500° K
Slave function: Built in
Target light: Built in
Power source: 7.2 volt ni-cad battery
Maximum depth: 60m/200 feet
Weight: 4.4 lbs



IKELIGHT® HOUSINGS AND STROBES

Ikelite® SLR Housings



Ikelite Has Housings For Most Major Camera Manufactures. Please Call For Product Information

The Ikelite® SLR Case has evolved into a classic providing dependable performance for over 25 years. It is probably the safest enclosure money can buy, and provides optical capabilities equal to anything. An assortment of interchangeable lens ports allow use of most macro, wide angle, and zoom lenses. The SLR Case is part of a full system of TTL strobes, mounting systems, and accessories.

The Ikelite SLR Case is "Clearly Superior" and allows visual assurance the system is safe with a clear view of the camera information and control functions. Ikelite housings are injection molded of clear polycarbonate for its superior strength and corrosion-free properties, and operate safely to 60 m (200 feet) working depth. Ikelite® housings are sized and weighted for near neutral buoyancy and superb handling underwater. Camera installation is quick and simple. The dependable controls are conveniently placed at your fingertips, and kept water tight with Ikelite pioneered Quad-Ring seal glands proven to be the most reliable method for sealing controls.

The Ikelite Super-Eye magnifier provided with the housing secures to the camera eyepiece and offers enhanced viewing while wearing a diving mask.

Ikelite® Substrobes

Ikelite Substrobes are designed and manufactured in Indianapolis. Every strobe is subjected to a myriad of electrical tests during and after assembly, then pressure tested underwater to assure waterproof integrity. Many of the people in Ikelite have been with us for over 25 years, and they make product dependability and improvement their primary concerns. Ikelite has the strobe for most application, varying sizes, power, and other performance features, *Making Ikelite Your Choice for Strobes.*

Ikelite has Pioneered the following Innovations in Substrobe Development: Pre Flash Capability, Aiming Light, Audible Ready Light, Interchangeable Sync Cords, Cordless TTL Slave Sensors, Removable Battery Packs, Battery Power Gauge, Innovative Battery Rechargers, Fastest Recycle Times, Compact Sizes and Lightweight Designs

Ikelite Macro Mount IKE4085

Mount the Substrobe 50 directly to the Nikonos IV/V camera for easy macro lighting. Especially convenient with 1:1, 1:2, or 1:3 extension tubes and framers. Features Nikonos shoe mount, ball clamp, and strobe mount.



Ikelite® SS50 Package IKE394345

- * Substrobe 50
 - * Macro Grip Arm
 - * Tray, Handle, Rapid Advance
 - * Nikonos TTL Cord
- Nikonos V not Included**

Substrobe 50 Packages IKE394343



- * Substrobe 50
 - * Strobe Arm II
 - * Mini C-Lite and Lite Bracket
 - * Tray, Handle, Advance
 - * Nikonos TTL Cord
- Nikonos V not Included**

Substrobe 50 Packages IKE394344



- * Substrobe 50
 - * Macro Grip Arm
 - * Tray, Handle, Advance
 - * Nikonos TTL Cord
- Nikonos V not Included**

Only a Fraction of Ikelites Strobe are Shown. Please Call for Additional Information.

IKELITE VIDEO AND DIGITAL

Ikelite Digital Cameras and Housings

Digital Still Cameras provide an Exciting new way to capture images. You view the results in the camera and transfer them directly to your computer to manipulate, print, use on web sites, and e-mail your friends. **Stock housings are available for the following digital still cameras.**

CANNON G	NIKON COOLPIX	OLYMPUS D	SONY Mavica
G1	COOLPIX 800		
G2	COOLPIX880	D-100	CD-200
	COOLPIX 950	D-220L	CD-300
CANNON S	COOLPIX 990	D-320L	FD-7
S100	COOLPIX995	D-340L	FD-71
S110 Digital Elph		D-340R	FD-73
Digital Ixus	OLYMPUS	D-360	FD-75
Ixus V	2040		FD-81
S300 Digital Elph	3000	SONY DSC	FD-83
	3030	DSC-S70	FD-85
Kodak DC	3040	DSC-S75	FD-88
DC-220	4040	DSC-S85	FD-90
DC-260			FD-91
DC-265			FD-95
DC-290			FD-97



Ikelite Digital SubStrobes

Only Ikelite housings combined with the new DS Series Digital SubStrobes provide complete flash automation with digital cameras. Other systems utilize clever "play on word" claims which in reality provide only a trial and error exposure method with multiple manual flash settings. Ikelite designs Digital Strobes for many types of Cameras, the *DS-50 Package* is one example. All components of packages can be sold separately.



#3944.40 Digital Package includes:

- * IKE4044 DS-50 SubStrobe with IKE0561.2 diffuser
- * IKE4100.5 TTL Slave Sensor
- * IKE4075.1 Strobe Arm system

Housings are available for most Sony and JVC camcorder models. Other brand camcorders may be sent to us for a custom installation

JVC 2000 Digital Video Package

IKE601122

This package combines advanced digital imaging of a JVC DV2000u digital camcorder with a very compact and easy to use Ikelite CyberMarine Video Housing.

The delightful size housing and camera allows you to capture the moment with the latest digital video technology, including digital stills that can be printed or sent as electronic mail.

The clear polycarbonate molded housing includes an optical dome port and removable UR Pro Filter. Controls for power on/off, record start/stop, zoom and snapshot. Size is 10.5" wide with removable handle bar attached, 7.5" tall with removable base attached, and 10" long including the dome port.



JVC DV2000u Digital Camcorder:

- * DV Format
- * 10X optical zoom
- * 200x Digital Zoom
- * Picture Stabilizer
- * 520 lines of horizontal resolution
- * 680,000 pixel CCD
- * PCM Digital Audio
- * DV I/O via Firewire
- * Digital Still Output
- * Removable 4MB Flash Memory
- * J-Terminal
- * S-Video and A/V Terminals
- * Software Package included
- * Snapshot & Motor Drive modes
- * Digital Effects & Scene transitions
- * Random Assembly Edit w/Remote
- * Hi-Res 3.5" LCD Color Monitor
- * Hi-Res Color Electronic Viewfinder
- * Built-in Auto Light (above water)
- * Long-Time Recording Capability



Ikelite Video-Lite 45

IKE601122

This light features a 50 watt primary light for over 30 minutes of intermittent recording time per charge. The reflector is specifically designed for photography and provides an ultra-wide 100 degrees of even coverage and 3400 degree Kelvin color temperature. A 6 watt modeling or diving light is also featured.

COMPLETE VIDEO-LITE 45 The Video-Lite 45 operates safely to 90m (300 feet), weighs 2kg (4.4 pounds) and is slightly negative underwater. A 30cm (12 inch) adjustable mounting arm for attachment to all Ikelite video housings is included. Note: Charger is NOT included.



AGA MASK & SCHEMATICS

ITEM	QTY	ORDER #	DESCRIPTION
1	1	336-190-354	Breathing Valve Ass'y
2	1	336-190-356	Positive Pressure Attachment
3	1	336-100-001	Shield Ring
4	1	336-100-433	Cover
5	1	336-100-003	Guide Disk
6	1	336-100-436	Positive Pressure Spring
7	1	336-190-360	Diaphragm Ass'y
8	1	336-100-005	Sealing Disc
9	1	336-100-006	Exhalation Diaphragm
10	1	336-100-008	Securing Ring
11	1	336-100-007	Valve Seat
12	1	336-100-011	Guide Pin
13	1	336-100-009	Diaphragm
14	1	336-100-010	Diaphragm Holder
15	1	336-900-009	O-Ring
16	1	331-100-664	Locking Ring
17	1	336-190-379	Valve Housing Ass'y
18	1	336-190-142	Lever Ass'y Se
19	1	336-100-014	Locking Spring (Not Sold Separately)
20	1	336-100-022	Lever Spring (Not Sold Separately)
21	1	336-100-015	Distance Ring (Not Sold Separately)
22	1	336-900-001	O-Ring
23	1	336-100-016	Lever (Not Sold Separately)
24	1	336-100-461	Valve Housing
25	1	336-900-008	O-Ring
26	1	331-100-652	Nut
27	1	336-190-357	Valve Insert
28	1	336-190-334	Lever Ass'y
29	1	336-190-358	Counter Pressure Ass'y
30	1	336-100-397	Lever Support
31	1	336-100-019	Sealing Sleeve
32	1	336-100-021	Center Spindle
33	1	331-102-020	Adjusting Nut
34	1	336-100-033	Relief Valve Spring
35	1	331-102-018	Relief Valve Piston
36	1	336-100-046	Pin
37	1	944-127-124	Pin
38	1	336-100-438	Sealing Spring
39	1	336-190-015	Sealing Piston Ass'y
40	1	336-100-025	Lifting Spindle
41	1	331-100-641	Balancing Diaphragm
42	1	336-190-064	Valve Cone Ass'y
43	1	336-100-020	Connection Nipple
44	1	331-900-064	O-Ring
45	1	336-900-007	O-Ring
46	1	336-100-432	Drain Button
47	1	336-100-437	Washer
48	1	336-190-332	Valve Housing Ass'y

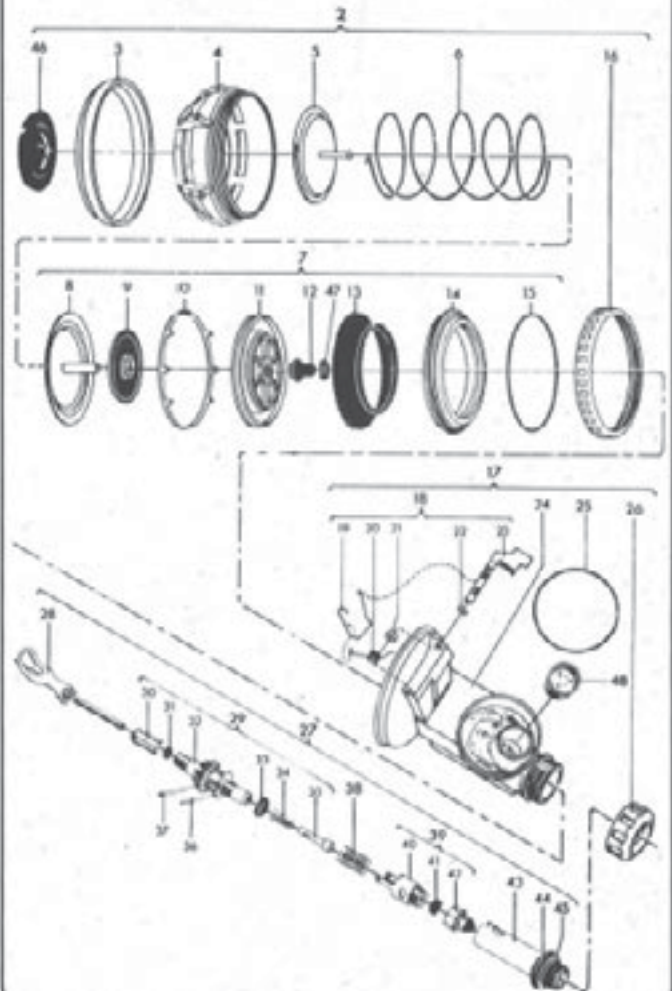
Interspiro "Aga Mask"

Shown with Buddy Phone

Available in
black silicone
positive pressure
or non-positive
pressure. Gold
silicone
non-positive
pressure

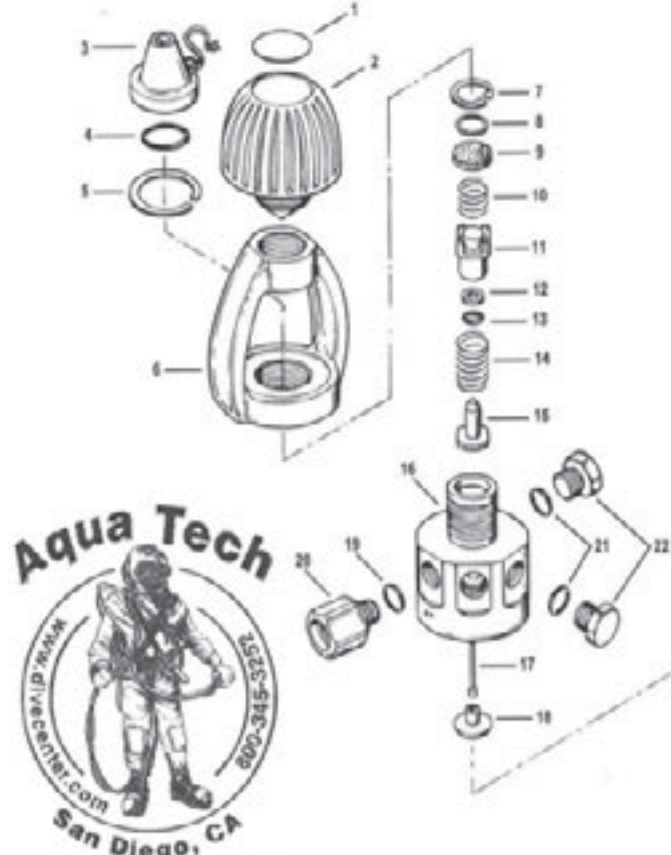


Parts Breakdown



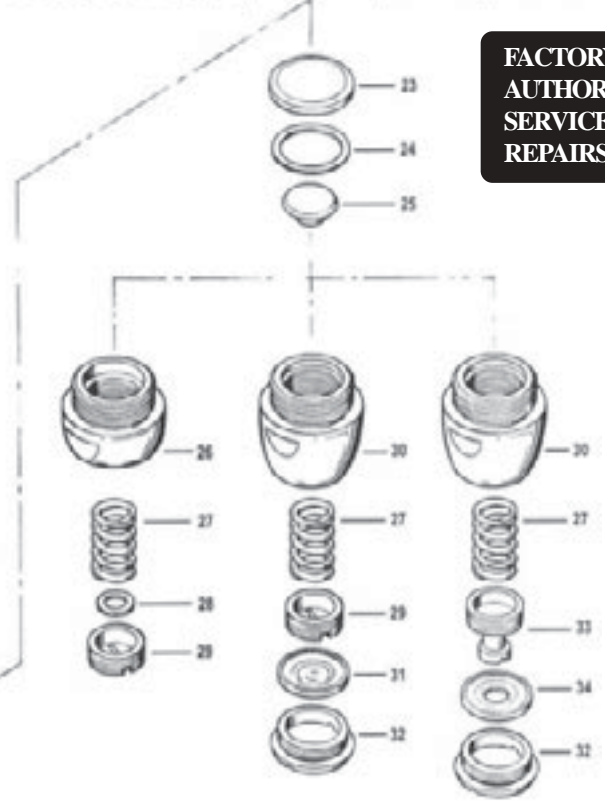
CONSHELF SCHEMATICS

AQUA TECH HAS A LARGE INVENTORY OF DIVING RELATED REPLACEMENT PARTS.



First-Stage Regulators

Conshelf 22, 21, 20, XIV, XIV Supreme



FACTORY AUTHORIZED SERVICE AND REPAIRS.

Key #	Part #	Description
----	1077-00	First-Stage, Conshelf XIV
----	1088-10	First-Stage, Conshelf XIV Supreme
----	NLA	First-Stage, Conshelf 21 & 22
----	NLA	First-Stage, Conshelf 21 & 22 Supreme
----	9000-01	Overhaul Parts Kit, non-Supreme
----	1081-95	Overhaul Kit, Militt. Conshlf XIV (1st & 2nd)
1 ----	1003-88	Decal
2 ----	1075-06	Yoke Screw
3 ----	1010-12	Dust Cap
4 ----	8201-20	O-Ring
5 ----	8610-68	Retaining Ring
6 ----	7004-18	Yoke
7 ----	8630-51	Retaining Ring
8 ----	8450-95	Washer, Filter
9 ----	1051-06	Filter
10 ----	1046-13	Spring
11 ----	1053-24	Spring Block
12 ----	8280-05	Back-up Ring
13 ----	8240-06	O-ring
----	8200-06	O-ring, Purple (suggested for cold water)
14 ----	1015-04	Spring
15 ----	1059-40	Seat
16 ----	1053-33	Body, Conshelf XIV
----	NLA	Body, Conshelf 21&22 (sub w/ P/N 1007-12)
17 ----	1063-23	Pin
18 ----	1017-27	Pin Support
19 ----	9570-04	O-ring, 7/16" HP Port
20 ----	1017-85	Adapter, HP, 7/16" Fem. to 3/8" Male
21 ----	8200-11	O-ring, 3/8" port

Key #	Part #	Description
22 ----	9109-12	Port Plug, LP, Conshelf XIV
----	1043-04	Port Plug, LP, Conshelf 21
----	1020-03	Port Plug, HP, Conshelf XIV
23 ----	1034-29	Diaphragm
24 ----	8210-26	Thrust Washer
25 ----	1017-28	Spring Pad
26 ----	1059-26	Spring Retainer (line thread)
----	1063-26	Spring Retainer (coarse thread)
27 ----	1053-27	Spring
28 ----	8450-97	Washer, Main Spring (non-supremes only)
29 ----	1060-23	Adjustment Screw (line thread)
----	1015-49	Adjustment Screw (coarse thread)
Used on Supreme Models		
27 ----	1059-44	Spring (coarse thread Supreme only)
----	1053-27	Spring (line thread & EFA Supreme)
30 ----	1059-27	Spring Retainer (line thread)
----	1088-51	Spring Retainer (coarse thread)
31 ----	1088-53	Secondary Diaphragm
32 ----	1088-54	Diaphragm Retainer
<i>n/s</i> ----	<i>1088-65</i>	<i>Silicone Fluid</i>
Used Only on Externally Fine Adjustable Supreme		
34 ----	1059-36	Adjustment Screw, EFA Supreme
35 ----	1088-52	Secondary Diaphragm, EFA Supreme
<i>n/s</i> ----	<i>1088-65</i>	<i>Silicone Fluid</i>

Part numbers in **BOLD ITALICS** indicate standard overhaul replacement part.

CONSHELF SCHEMATICS

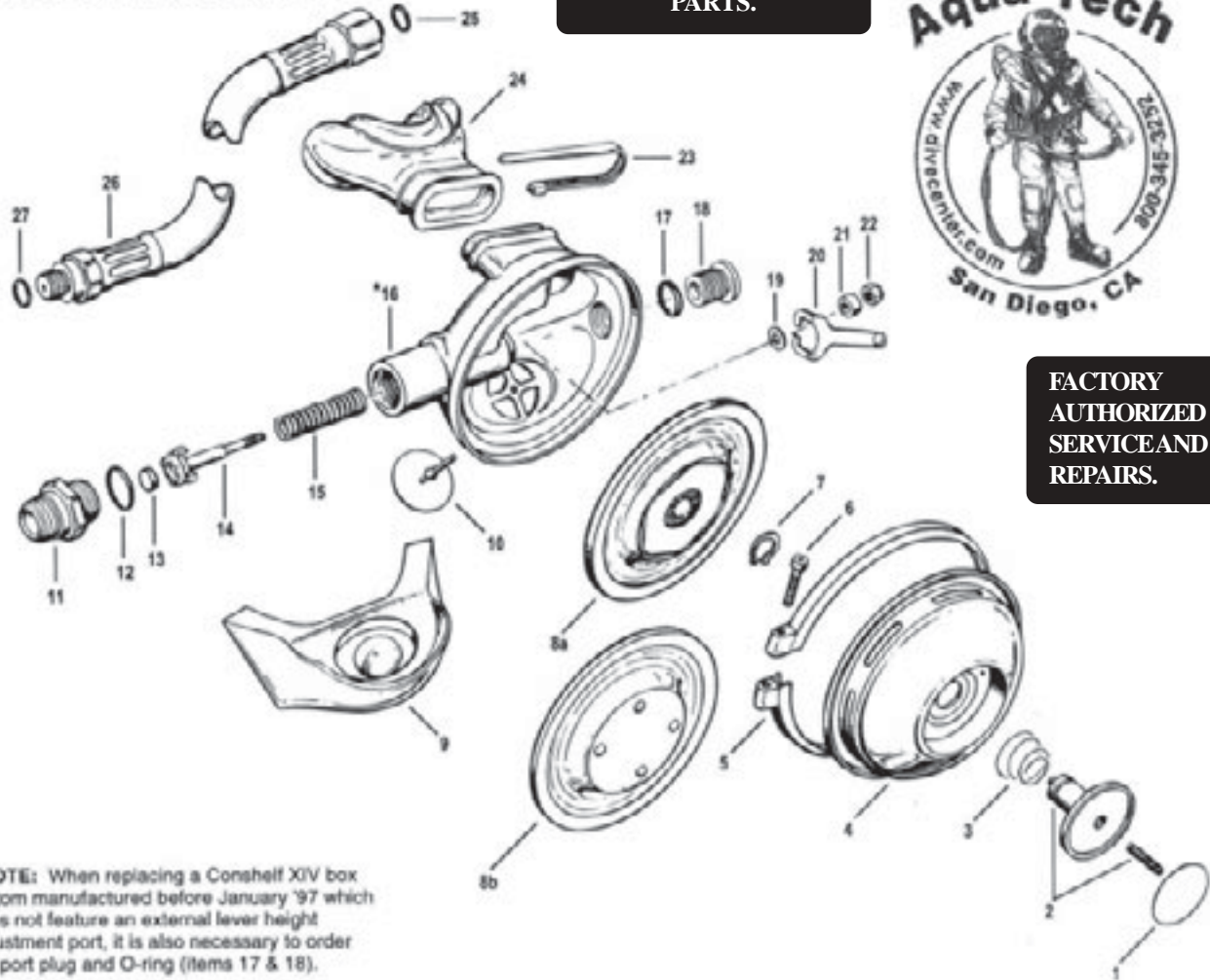
Second-Stage Regulators

Conshelf XIV, Conshelf 30

AQUATECH HAS A LARGE INVENTORY OF DIVING RELATED REPLACEMENT PARTS.



FACTORY AUTHORIZED SERVICE AND REPAIRS.



*NOTE: When replacing a Conshelf XIV box bottom manufactured before January '97 which does not feature an external lever height adjustment port, it is also necessary to order the port plug and O-ring (items 17 & 18).

Key #	Part #	Description
----	1085-00	Conshelf XIV Second Stage w/out hose
----	9000-07	Overhaul Parts Kit
1	1081-85	Decal, Conshelf XIV
2	1037-06	Purge Button w/ Adjustment Screw
3	1027-08	Purge Spring
4	1070-01	Box Top
5	3901-47	Box Top Clamp
6	8040-23	Clamp Screw
7	8600-37	Retaining Ring
8a	1005-71	Demand Diaphragm, Liquid Injection Molded
8b	1037-32	Demand Diaphragm (U.S. Military Only)
9	1019-19	Exhaust Tee
10	1051-39	Exhaust Valve
11	1004-44	Inlet Fitting
12	8200-14	O-ring
13	1085-10	LP Seat
14	1049-03	Poppet
15	1085-04	Spring (Standard)
----	1085-14	Spring (Octopus)
16	1081-22	Box Bottom
17	9570-25	O-ring
18	1020-04	Plug
19	8450-22	Washer

Key #	Part #	Description
----	1076-07	Washer (Cold Water)
20	1085-13	Lever
----	1076-05	Lever (Cold Water)
21	1025-17	Spacer
----	1076-06	Spacer (Cold Water)
22	1025-10	Locknut
23	1049-40	Clamp, Clear
----	1049-13	Clamp, Black
24	1058-84	Comfo Bite Mouthpiece, Clear, Standard
----	1058-85	Comfo Bite Mouthpiece, Black, Standard
----	1058-28	Comfo Bite Mouthpiece, Clear, Small
----	1058-29	Comfo Bite Mouthpiece, Black, Small
----	1058-89	Standard Mouthpiece, Clear
----	1058-79	Standard Mouthpiece, Black
25	8200-10	O-ring
26	0900-15	Hose Assy, 3/8" x 30"
----	1020-25	Hose Assy, 1/2" x 26"
----	1005-35	Hose Assy, Pulsair, 1/2" x 30"
27	9570-25	O-ring (Conshelf 30)
----	8200-11	O-ring (Standard)

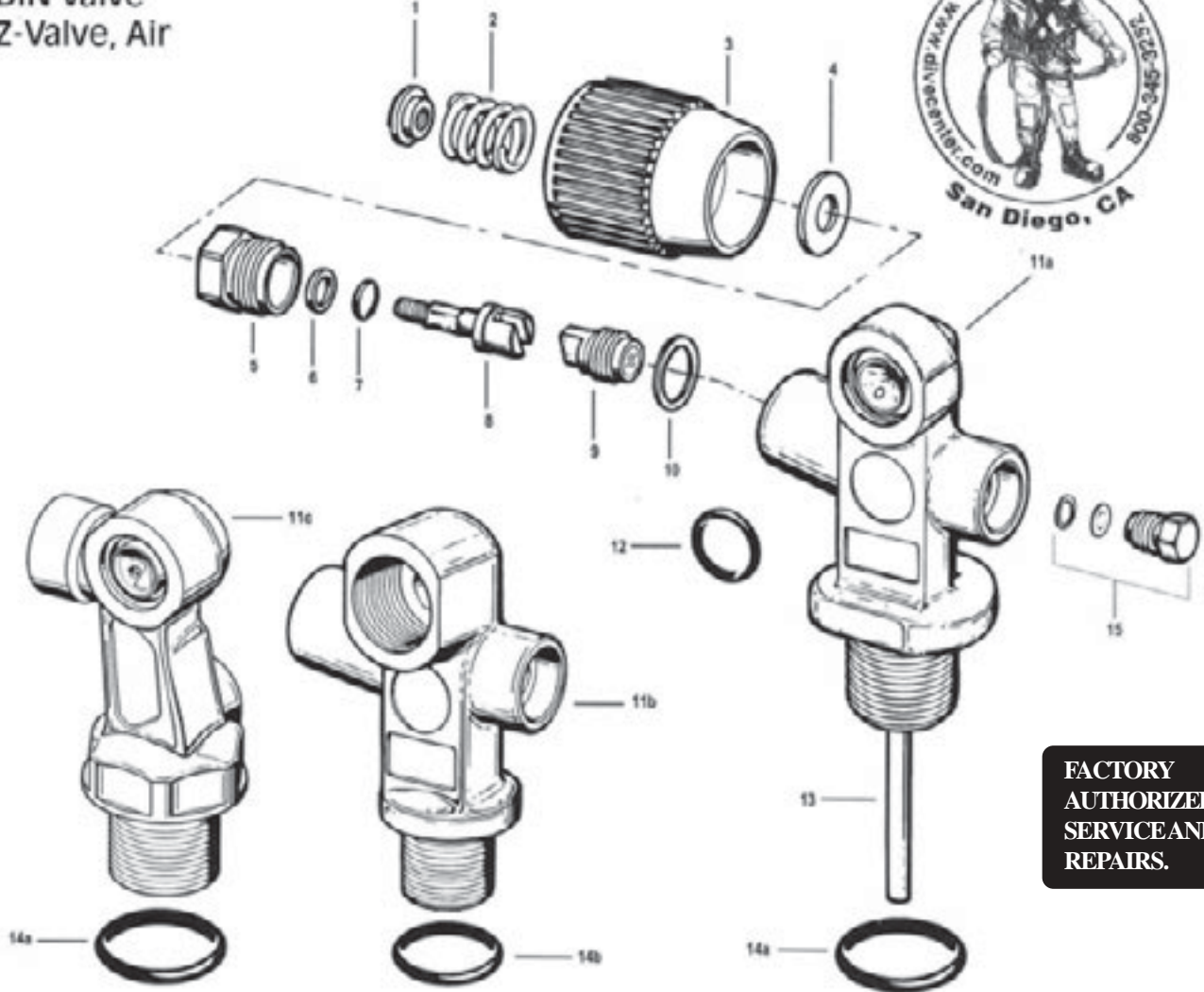
Part numbers in **BOLD ITALICS** indicate standard overhaul replacement part.

VALVE SCHEMATICS

Valves and Connectors

K-Valve
DIN Valve
Z-Valve, Air

AQUATECHHASALARGE
INVENTORY OF DIVING RELATED
REPLACEMENT PARTS.



FACTORY
AUTHORIZED
SERVICE AND
REPAIRS.

Key #	Part #	Description
----	N/A	K-Valve - 3,000 psi
----	0542-35	DIN Valve, 240 BAR
----	0542-95	Z-Valve - 3,000 psi (Air)
1	0542-07	Nut, Handwheel Retaining
2	0542-09	Spring, Handwheel
3	0542-06	Handwheel
4	0542-12	Washer
5	0542-04	Bonnet
6	0542-05	Packing
7	8200-10	O-ring, Stem
8	0542-08	Stem
9	0542-03	Seat Assembly
10	0542-16	Gasket, Bonnet
11a	N/A	Body, K-Valve
11b	N/A	Body, DIN Valve

Key #	Part #	Description
11c	N/A	Body, Z-Valve
12	8200-41	O-ring, Outlet
13	0542-15	Dip Tube
14	8202-14	O-ring, K-Valve
14b	0541-14	O-ring, DIN Valve
15	0542-01	Safety Plug Kit, 3,000 psi (Aluminum)
	0542-61	Safety Plug Kit, 3,500 psi (HP Steel)
	0542-21	Safety Plug Kit, 2,400 psi (LP Steel)
	0542-11	Safety Plug Kit, 2,250 psi (LP Steel)
n/s	42485	Dust Cap, K-Valve
n/s	42484	Dust Cap, DIN Valve
n/s	0542-28	Dust Cap, Z-Valve

Part numbers in **BOLD ITALICS** indicate standard overhaul replacement part.

VALVE SCHEMATICS

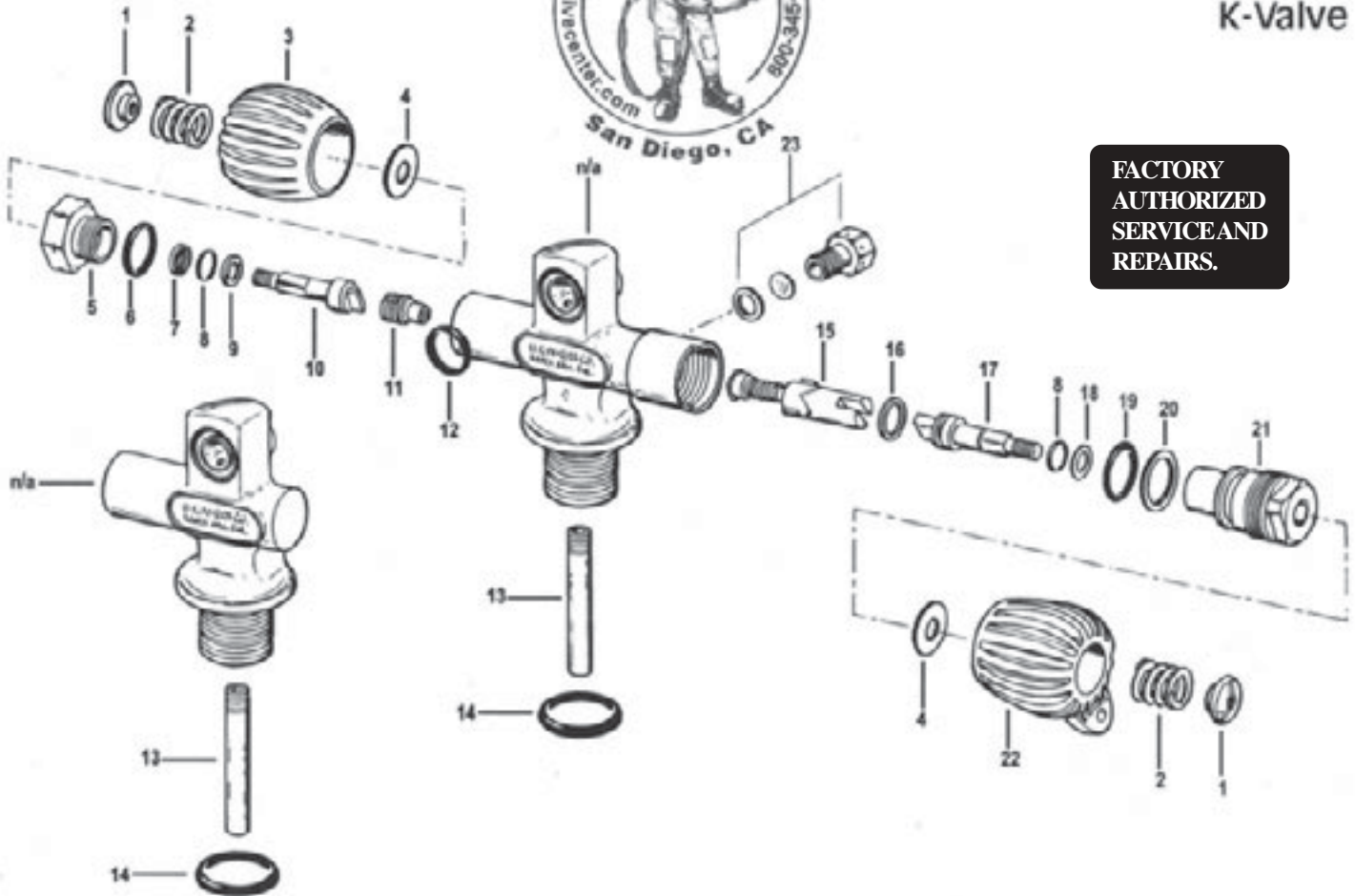
AQUATECH HAS A LARGE INVENTORY OF DIVING RELATED REPLACEMENT PARTS.



Valves and Connectors

J-Valve
K-Valve

FACTORY AUTHORIZED SERVICE AND REPAIRS.



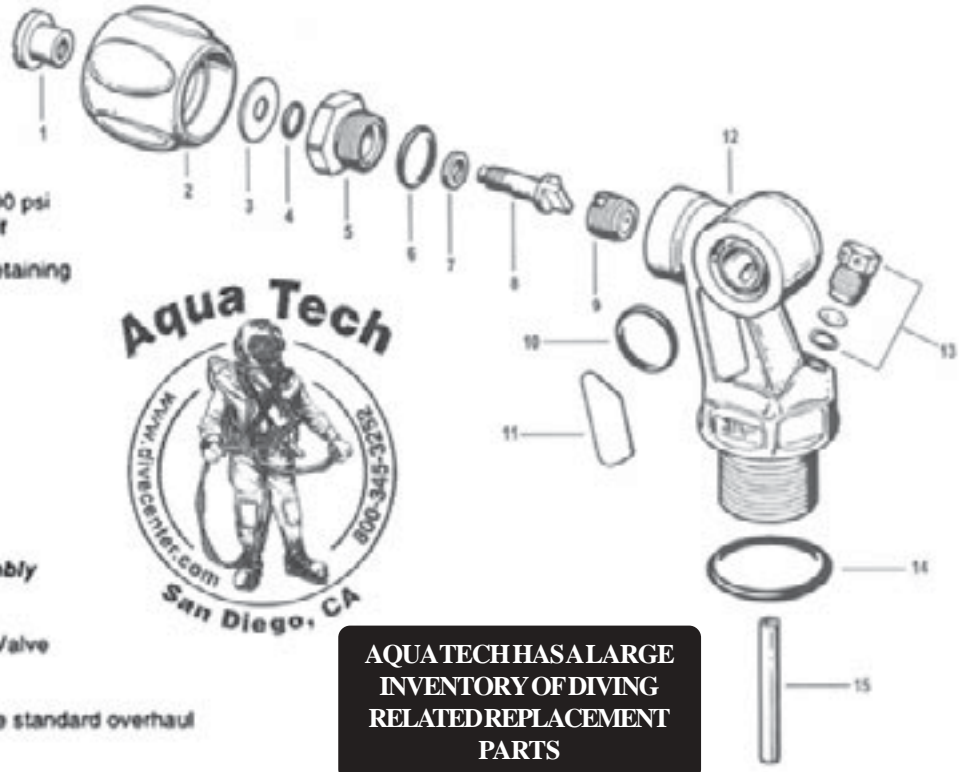
Key #	Part #	Description
----	0545-00	J-Valve (3000 psi)
----	NLA	K-Valve (3000 psi)
1	0525-18	Nut, Handle Retaining (2 req. on J-Valve)
2	0501-07	Spring (2 req. on J-Valve)
3	0525-41	Handwheel
4	8450-58	Washer (2 req. on J-Valve)
5	0502-33	Bonnet, Left Handed Thread
6	0502-16	Bonnet, Right Handed Thread
7	9570-07	O-ring
8	8285-10	Back-up ring
9	8200-10	O-ring
10	9210-19	Thrust Washer
11	0525-21	Stem, K-Valve
11	0525-19	Seat, J-Valve
11	0501-09	Seat, K-Valve
12	8201-20	O-ring
13	0518-21	Dip Tube
14	8202-14	O-ring
15	0525-08	Reserve Assembly
15	0525-48	Reserve Assembly, Red (SEE NOTE)

Key #	Part #	Description
16	8450-21	Washer
17	0525-14	Stem, J-Valve
18	8210-14	Gasket
19	8200-15	O-ring
20	8285-15	Back-up Ring
21	0525-15	Bonnet
22	0525-40	Handwheel, Reserve
23	0502-41	Safety Disc Assembly, 3000 psi
23	0502-42	Safety Disc Assembly, 2250 psi
n/s	0743-05	Reserve Pull Rod, J-Valve

NOTE: Reserve Assembly (PN 0525-48) is to be used on valves which have "Japan" stamped on the base of the valve body. If replacement of the reserve assembly is required, do not use the 0525-08 reserve assembly in valves stamped with "Japan". The 0525-48 reserve assembly is dyed red to differentiate between the reserve assemblies.

Part numbers in **BOLD ITALICS** indicate standard overhaul replacement part.

VALVE & HARNESS SCHEMATICS



Key # Part # Description

-0542-51 EAN Z-Valve - 3,000 psi
-**9002-09** **Overhaul Parts Kit**
- 1.....0542-66 Nut, Handwheel Retaining
- 2.....0542-64 Handwheel
- 3.....0542-63 Washer
- 4.....n/a* O-ring (EAN)
- 5.....0542-59 Bonnet
- 6.....n/a* O-ring (EAN)
- 7.....0542-58 Washer, Packing
- 8.....0542-57 Stem
- 9.....0542-56 Seat
- 10.....C-8200-49 O-ring (EAN)
- 11.....0542-54 Decal
- 12.....0542-53 Body, Z-Valve
- 13.....0542-52 Burst Disc Assembly
- 14.....C-8200-64 O-ring (EAN)
- 15.....0518-21 Dip Tube
- n/s ---0542-28 Protective Cap, Z-Valve
- n/s ---7500-42 Gas Analysis Tag



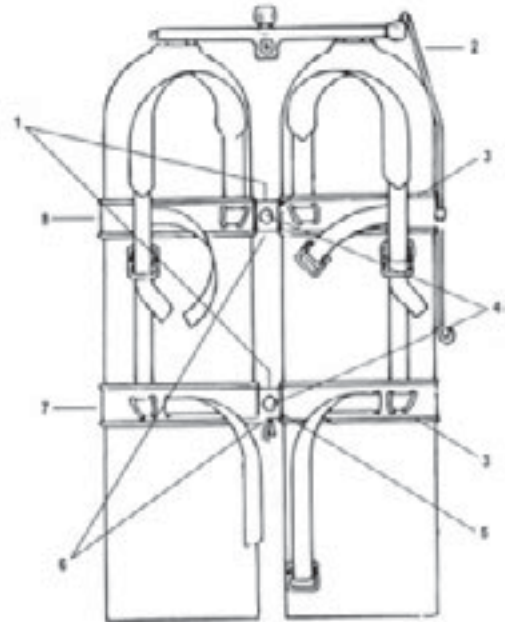
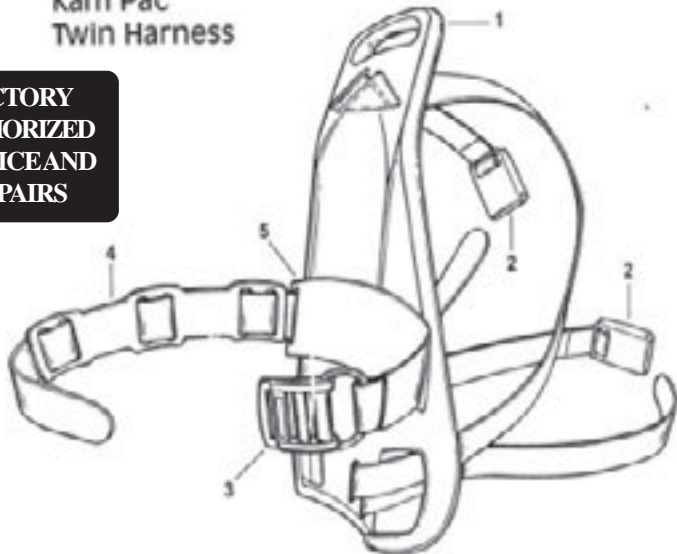
AQUATECH HAS A LARGE INVENTORY OF DIVING RELATED REPLACEMENT PARTS

Part numbers in **BOLD ITALICS** indicate standard overhaul replacement part.

Cylinder Harnesses

Kam Pac
Twin Harness

FACTORY AUTHORIZED SERVICE AND REPAIRS



Key # Part # Description

- Kam Pac Assembly**
-0881-50 Kam-Pac Assy, Complete
 - 1.....0881-10 Frame
 - 2.....7125-06 Buckle Assy
 - 3.....0881-31 Cylinder Band
 - 4.....7693-43 Cylinder Pad
 - 5.....0881-07 Cylinder Pad, Soft Band
 - n/s ---0881-51 Non-Slip Lanyard

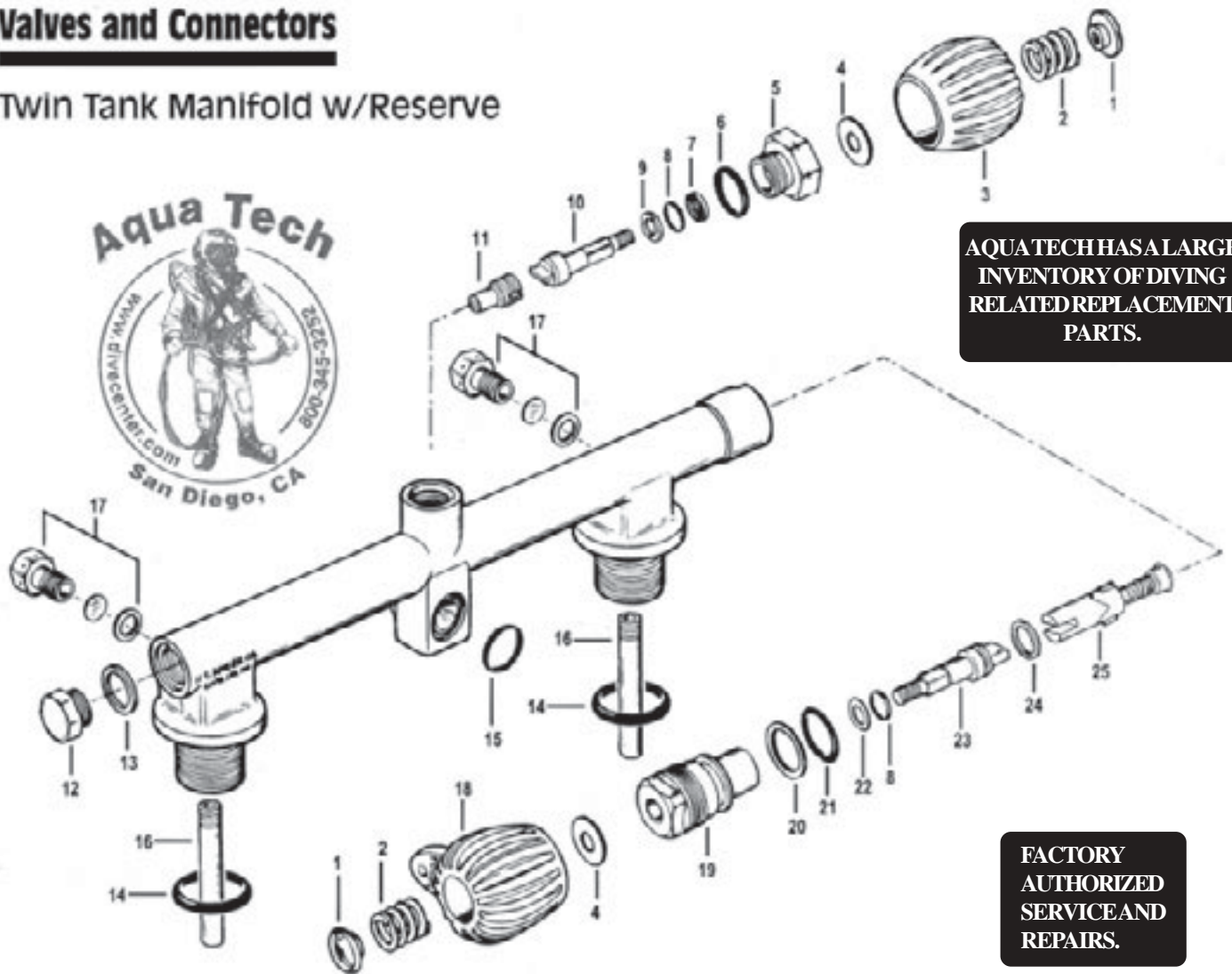
Key # Part # Description

- Twin Harness Assembly (For 7.25" Cylinders)**
-0827-00 7.25" Harness Assembly, Complete
 -0812-00 6.9" Harness Assembly, Complete
 -0812-15 Strap Kit
 - 1.....0812-45 Back-up Plate
 - 2.....0743-05 Reserve Pull Rod
 - 3.....0812-40 Non-Slip Cover
 - 4.....8360-31 Bolt
 - 5.....0827-29 Spacer
 - 6.....8520-21 Hex Nut
 - 7.....0827-23 Bottom Band Assy
 - 8.....0827-21 Top Band Assy

TWIN MANIFOLD SCHEMATICS

Valves and Connectors

Twin Tank Manifold w/Reserve



AQUATECH HAS A LARGE INVENTORY OF DIVING RELATED REPLACEMENT PARTS.

FACTORY AUTHORIZED SERVICE AND REPAIRS.

Key #	Part #	Description
----	2800-00	Twin J-Valve Manifold (SEE NOTE)
1	0525-18	Nut, Handle Retaining
2	0801-07	Spring
3	0525-41	Handwheel
4	8450-58	Washer
5	0502-33	Bonnet
6	9570-07	O-ring
7	8285-10	Back-up Ring
8	8200-10	O-ring
9	9210-19	Gasket
10	0525-21	Stem, K-Valve
11	2800-13	Seat, Std. Twin
11	0501-09	Seat, Triple/Twin 30's
12	0502-21	Plug
13	8210-11	Gasket
14	8202-14	O-ring
15	8201-20	O-ring
16	0518-21	Dip Tube

Key #	Part #	Description
17	0502-41	Safety Disc Assembly, 3000 psi
17	0502-42	Safety Disc Assembly, 2250 psi
18	2800-40	Handwheel, Reserve
19	0525-15	Bonnet
20	8285-15	Back-up Ring
21	8200-15	O-ring
22	8210-14	Gasket
23	0525-14	Stem, J-Valve
24	8450-21	Washer
25	0525-08	Reserve Assembly
n/s	0743-05	Reserve Pull Rod

NOTE: Manifold bodies are not available as a spare part.

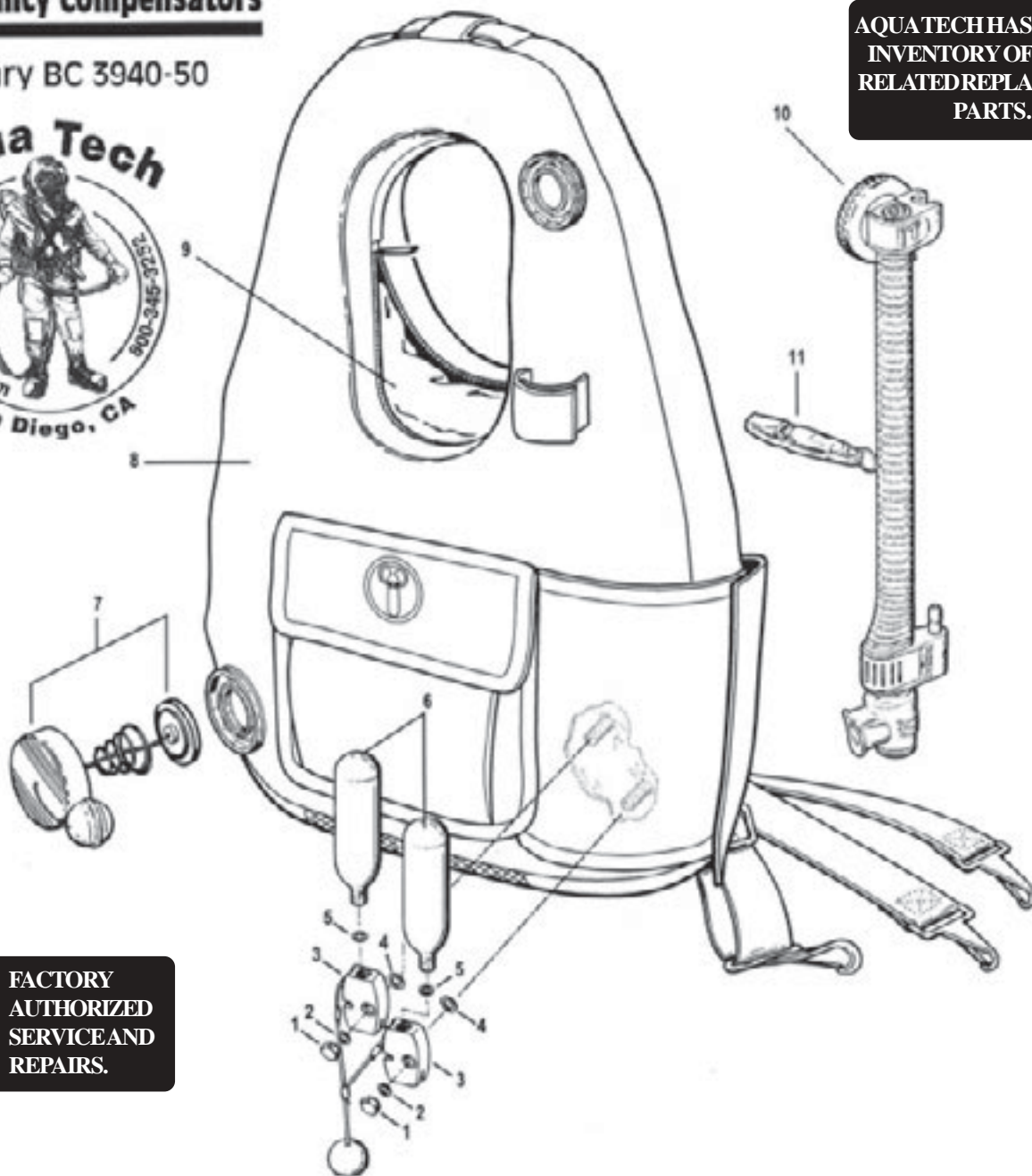
Part numbers in **BOLD ITALICS** indicate standard overhaul replacement part.

MILITARY B.C. SCHEMATICS

Buoyancy Compensators

Military BC 3940-50

AQUATECH HAS A LARGE INVENTORY OF DIVING RELATED REPLACEMENT PARTS.



FACTORY AUTHORIZED SERVICE AND REPAIRS.

Key #	Part #	Description
1	7040-11	Cap Nut
2	<i>8210-20</i>	Gasket
3	7040-12	Firing Mechanism, W/O Ball & Cord
4	<i>8210-21</i>	Gasket
5	7040-14	Gasket, CO ₂ Cartridge
6	7039-09	CO ₂ Cartridge, 38 gram
7	7786-87	Overpressure Relief Valve Assembly
8	n/a	Outer Bag
9	3940-52	Inner Bladder
10	7786-60	AirMic Airway Assy, Complete (Std. Length)
11	7040-79	Whistle

REPAIRS AND SERVICE

AQUATECH HAS THE LARGEST INVENTORY OF DIVING RELATED REPLACEMENT PARTS IN SAN DIEGO. OUR FACTORY TRAINED TECHNICIANS CAN REPAIR YOUR SPORT AND MILITARY DIVING EQUIPMENT. DIVING TANK SERVICE, HYDROSTATIC TESTING AND VALVE REPAIRS ARE DONE IN OUR SERVICE DEPARTMENT.

Part numbers in BOLD ITALICS indicate standard overhaul replacement parts.

www.Divecenter.com

comsales@divecenter.com / milsales@divecenter.com
Toll free 1-800-345-3252 / Fax 619-237-1886

AQUATECH

CONVERSION TABLES

VOLUME

from \ to	cm ³	liter	m ³	in. ³	ft ³	yd ³	fl oz	fl pt	fl qt	gal	gal (Br.)	hbl (oil)	hbl (liq)
cm ³	1	0.001	1x10 ⁻⁶	0.06102	3.53x10 ⁻⁵	1.31x10 ⁻⁴	0.03381	0.00211	0.00106	2.64x10 ⁻⁴	2.70x10 ⁻⁴	6.29x10 ⁻⁴	8.39x10 ⁻⁴
liter	1000	1	0.001	61.02	0.03532	0.00131	33.81	2.113	1.057	0.2642	0.2700	0.00629	0.00839
m ³	1x10 ⁶	1000	1	6.10x10 ⁴	35.31	1.308	3.38x10 ²	2113	1057	264.2	270.0	6.290	8.386
in. ³	16.39	0.01639	1.64x10 ⁻⁵	1	5.79x10 ⁻⁴	2.14x10 ⁻³	0.5541	0.03463	0.01732	0.00433	0.00360	1.03x10 ⁻³	1.37x10 ⁻³
ft ³	2.83x10 ⁴	28.32	0.02832	1728	1	0.03704	957.5	59.84	29.92	7.481	6.229	0.1781	0.2375
yd ³	2.65x10 ⁵	264.5	0.2644	4.67x10 ⁴	27	1	2.59x10 ²	1615	807.9	202.0	168.2	4.809	6.412
fl oz	29.57	0.02957	2.96x10 ⁻⁵	1.805	0.00104	3.87x10 ⁻³	1	0.06750	0.03375	0.00781	0.00651	1.86x10 ⁻³	2.48x10 ⁻³
fl pt	473.2	0.4732	4.73x10 ⁻⁴	28.88	0.01671	6.19x10 ⁻²	16	1	0.5000	0.1250	0.1041	0.00298	0.00397
fl qt	946.4	0.9463	9.46x10 ⁻⁴	57.75	0.03342	0.00124	32	2	1	0.2500	0.2082	0.00595	0.00794
gal	3785	3.785	0.00379	231.0	0.1337	0.00495	128	8	4	1	0.8327	0.02381	0.03175
gal (Br.)	4546	4.546	0.00455	277.4	0.1605	0.00595	153.7	9.608	4.804	1.201	1	0.02850	0.03813
hbl (oil)	1.59x10 ⁵	159.0	0.1590	9702	5.615	0.2079	5376	336	168	42	34.97	1	1.333
hbl (liq)	1.19x10 ⁵	119.2	0.1192	7299	4.211	0.1560	4032	252	126	31.5	26.23	0.7500	1

1 cord = 128 ft³ = 3.625 m³

AREA

from \ to	cm ²	m ²	km ²	in. ²	ft ²	mile ²
cm ²	1	0.0001	1x10 ⁻¹⁰	0.1550	0.00108	3.86x10 ⁻¹¹
m ²	1x10 ⁴	1	1x10 ⁻⁶	1550	10.76	3.86x10 ⁻⁴
km ²	1x10 ¹⁰	1x10 ⁶	1	1.55x10 ⁸	1.08x10 ⁵	0.3861
in. ²	6.452	6.45x10 ⁻⁴	6.45x10 ⁻¹⁰	1	0.00694	2.49x10 ⁻¹⁰
ft ²	329.0	0.00290	9.29x10 ⁻⁶	144	1	3.59x10 ⁻⁴
mile ²	2.59x10 ¹⁰	2.59x10 ⁶	2.590	4.01x10 ⁸	2.79x10 ⁵	1

FLOW RATE

from \ to	lit sec	gal min	ft ³ sec	ft ³ min	hbl hr	hbl day
lit sec	1	15.85	0.03532	2.119	27.66	543.8
gal min	0.06309	1	0.00223	0.1337	1.429	34.30
ft ³ sec	28.32	448.0	1	60	641.1	1.54x10 ⁴
ft ³ min	0.4719	7.481	0.01667	1	10.69	256.5
hbl hr	0.04415	0.6997	0.00156	0.09359	1	24
hbl day	0.00184	0.02917	6.50x10 ⁻⁵	0.00390	0.04167	1

PRESSURE

from \ to	mm Hg	in. Hg	in. H ₂ O	ft H ₂ O	atm	lb in. ²	kg cm ²	kPa
mm Hg	1	0.03937	0.5353	0.04460	0.00132	0.01934	0.00136	0.028
in. Hg	25.40	1	13.60	1.133	0.03342	0.4912	0.03453	6.712
in. H ₂ O	1.868	0.07355	1	0.08333	0.00248	0.03613	0.00254	0.052
ft H ₂ O	22.42	0.8826	12	1	0.02960	0.4328	0.03048	0.629
atm	760	29.92	406.8	33.90	1	14.70	1.033	2.139
lb in. ²	51.71	2.036	27.67	2.307	0.06805	1	0.07031	140
kg cm ²	735.6	28.96	393.7	32.81	0.9678	14.22	1	2.064
kPa	356.28	14.03	190.65	15.90	469	6.89	484	1

1 Bar = 1 x 10⁵ dynes/cm² = 0.98692 atm = 14.5 psi = 100 kPa

1.0 PSI = 6.9 kPa

TEMPERATURE CONVERSION TABLE

°C	°F	°C	°F	°C	°F	°C	°F
-200	-328	75	77	240	464	540	1004
-180	-292	30	86	250	482	550	1022
-160	-256	35	95	260	500	560	1040
-140	-220	40	104	270	518	570	1058
-120	-184	45	113	280	536	580	1076
-100	-148	50	122	290	554	590	1094
-95	-139	55	131	300	572	600	1112
-90	-130	60	140	310	590	610	1130
-85	-121	65	149	320	608	620	1148
-80	-112	70	158	330	626	630	1166
-75	-103	75	167	340	644	640	1184
-70	-94	80	176	350	662	650	1202
-65	-85	85	185	360	680	660	1220
-60	-76	90	194	370	698	670	1238
-55	-67	95	203	380	716	680	1256
-50	-58	100	212	390	734	690	1274
-45	-49	110	230	400	752	700	1292
-40	-40	120	248	410	770	710	1310
-35	-31	130	266	420	788	720	1328
-30	-22	140	284	430	806	730	1346
-25	-13	150	302	440	824	740	1364
-20	-4	160	320	450	842	750	1382
-15	5	170	338	460	860	760	1400
-10	14	180	356	470	878	770	1418
-5	23	190	374	480	896	780	1436
0	32	200	392	490	914	790	1454
5	41	210	410	500	932	800	1472
10	50	212	414	510	950	810	1490
15	59	220	428	520	968	820	1508
20	68	230	446	530	986	830	1526

TEMPERATURE CONVERSION FORMULAS

°C = 5/9 (°F - 32) °F = 9/5 °C + 32

DECIMAL EQUIVALENTS

8ths.	32nds.	64ths.
1/8 = .125	1/32 = .03125	1/64 = .015625
1/4 = .250	3/32 = .09375	3/64 = .046875
3/8 = .375	5/32 = .15625	5/64 = .078125
1/2 = .500	7/32 = .21875	7/64 = .109375
5/8 = .625	9/32 = .28125	9/64 = .140625
3/4 = .750	11/32 = .34375	11/64 = .171875
7/8 = .875	13/32 = .40625	13/64 = .203125
16ths.	15/32 = .46875	15/64 = .234375
1/16 = .0625	17/32 = .53125	17/64 = .265625
3/16 = .1875	19/32 = .59375	19/64 = .296875
5/16 = .3125	21/32 = .65625	21/64 = .328125
7/16 = .4375	23/32 = .71875	23/64 = .359375
9/16 = .5625	25/32 = .78125	25/64 = .390625
11/16 = .6875	27/32 = .84375	27/64 = .421875
13/16 = .8125	29/32 = .90625	29/64 = .453125
15/16 = .9375	31/32 = .96875	31/64 = .484375
		33/64 = .515625
		35/64 = .546875
		37/64 = .578125
		39/64 = .609375
		41/64 = .640625
		43/64 = .671875
		45/64 = .703125
		47/64 = .734375
		49/64 = .765625
		51/64 = .796875
		53/64 = .828125
		55/64 = .859375
		57/64 = .890625
		59/64 = .921875
		61/64 = .953125
		63/64 = .984375

MM TO INCH EQUIVALENT

1mm = 0.039 in.	8mm = 0.315 in.	15mm = 0.590 in.	22mm = 0.866 in.
2mm = 0.079 in.	9mm = 0.354 in.	16mm = 0.630 in.	23mm = 0.905 in.
3mm = 0.118 in.	10mm = 0.394 in.	17mm = 0.669 in.	24mm = 0.944 in.
4mm = 0.157 in.	11mm = 0.433 in.	18mm = 0.709 in.	25mm = 0.984 in.
5mm = 0.197 in.	12mm = 0.472 in.	19mm = 0.748 in.	26mm = 1 in.
6mm = 0.236 in.	13mm = 0.512 in.	20mm = 0.787 in.	
7mm = 0.276 in.	14mm = 0.551 in.	21mm = 0.827 in.	

AQUA TECH ORDERING INFORMATION

AQUA TECH ORDERING INFORMATION

Orders may be placed by contacting our sales staff by telephone, E-mail, Fax or the U.S. Mail. Aqua Tech accepts open billing orders from various entities with, prearranged, established payment terms. All open credit accounts are to be paid no later than 30 days from the invoice/shipment date. Aqua Tech reserves the right to charge 1 1/2% per month on any past due amounts. Aqua Tech may require C.O.D. or pre-payment from anyone whose account is delinquent. Aqua Tech employs the services of Dun and Bradstreet Company in determining the creditability of anyone requesting open account billing. You may request a Credit Application Form by contacting Aqua Tech Dive Center.

Credit Cards:

Aqua Tech accepts Visa, Master Card and American Express Cards. Aqua Tech will request specific and required information when accepting your credit card. This information is required for both your protection and the protection of Aqua Tech. Please be ready to furnish any and all requested information. Any orders sent outside the United States on a credit card purchase can only be shipped to the billing address of the credit card used.

Personal Checks:

Personal checks accepted for prepayment only and with proper ID, valid drivers license number with the expiration date and the State of issue. Checks must clear the bank before merchandise can be shipped.
A \$25.00 service charge will be assessed for any N.S.F. check.

C.O.D. Shipments:

All C.O.D. shipments require payment by cash or cashiers check. Any C.O.D. order which is refused by the customer and returned by the shipper will require all fees for shipping and handling be paid by the ordering party.

Sales Tax:

All applicable sales taxes will be charged, for in California shipments, unless Aqua Tech has a completed sales tax exemption certificate on file for the ordering entity. Please indicate, when placing an order, if the items are tax exempt.

Special Orders:

Special orders for items not normally stocked by Aqua Tech will require a 50% deposit. Any order requiring special nonstandard manufacturing may require prepayment in full. Special orders may not be returned unless the manufacturer or distributor authorizes such return. All required restocking fees and or special handling fees are the responsibility of the customer requesting return authorization.

Returns:

Any request for a return authorization number must be done within 30 days of receiving the item. All returned merchandise must show a return authorization number, issued by Aqua Tech, on the shipping label. No returns will be accepted without this number. Returned items must be in the original packaging and accompanied by all original product literature and must be in new and sellable condition. Items returned for refund or store credit will require a 20% restocking fee.

SHIPPING INFORMATION

Freight and Shipping Fees:

All shipments are F.O.B. San Diego, California. Delivery to the carrier constitutes delivery to the customer. Most items are shipped U.P.S. ground service. Larger items will be shipped by common carrier truck lines. If you require special shipping and or packing please state your preferences at the time the order is placed. All items shipped by Aqua Tech will carry standard insurance unless special instructions are stated when placing the order. All costs of shipping and handling will be added to the invoice for payment by the ordering entity. Any disputes regarding late, damaged and lost shipments should be directed to the carrier involved. Aqua Tech will make every good faith effort to help you in any disputes with the carrier, involving your shipment. All decisions by the carrier will be final.

International Shipments:

International customers must state any special packaging and or carrier preferences at the time an order is placed. Aqua Tech will deliver freight directly to your Freight Forwarding Company, at your request. All added costs for shipping merchandise outside the United States will be paid by the customer. There may be special document fees required for International shipments. All payments will be in U.S. Dollars only. All export shipments must be paid in advance of shipping. The nearest Ocean Freight Ports are San Diego and Los Angeles, California.

Payment of International Orders:

All International Export shipments will be paid in advance of shipping. You may pay by Bank Wire Transfer, Irrevocable Letter of Credit issued in the favor of Aqua Tech Dive Center or by bank check in U.S. Dollars. In the event payment is by check the funds must be cleared before release of the shipment. All relevant charges incurred by Aqua Tech, while effecting payment in full, will be for the account of the ordering entity.

Warranty Information:

Most items sold by Aqua Tech are covered by a manufacturers warranty. Aqua Tech will make every good faith effort to help secure warranty information, as requested by our customers. Aqua Tech warrants all products manufactured by Aqua Tech to be free of material and or manufacturing defects for a period of 90 days from purchase. Aqua Tech reserves the right to replace warranted items with items of like value and or usability at it's sole discretion.

DIRECT CORRESPONDENCE TO:
Aqua Tech Dive Center
1800 Logan Avenue
San Diego, California 92113

Telephone 1-619-237-1800
Fax 1-619-237-1886
E-mail:
comsales@divecenter.com
milsales@divecenter.com
aquatech@divecenter.com



AQUA TECH WEB SITES:
<http://www.divecenter.com>
<http://www.diveUS.com>
(internet sales only!)

URLs reserved for future growth.
<http://www.divehelmets.com>
<http://www.seabrass.com>
<http://www.diveauction.com>
<http://www.diveatcost.com>

APPLICATION FOR CREDIT

Aqua Tech Dive Center

1800 Logan Avenue, San Diego, California 92113

Phone 800-345-3252 / Fax 619-237-1886 / E-mail: aquatech@divecenter.com

Company Name _____ Accts. Payable Contact _____
Address _____ Type of Business _____
City _____ State _____ Zip _____ Phone _____ - _____ Fax _____ - _____
Corp. _____ Partnership _____ Sole Proprietor _____ Other _____ Year Established _____ Year Incorporated _____
Duns No: _____ Federal Tax I.D.No. _____

Billing Address:

Company Name _____
Address _____
City _____ State _____ Zip _____

Bank Information: Acct:# _____
Bank _____ Branch _____
Bank Contact _____ Phone _____ - _____
Fax _____ - _____

Principals:

Name _____ Title _____ Home Phone _____ - _____ S/S # _____ - _____ - _____
Address _____ City _____ State _____ Zip _____

Name _____ Title _____ Home Phone _____ - _____ S/S # _____ - _____ - _____
Address _____ City _____ State _____ Zip _____

Name _____ Title _____ Home Phone _____ - _____ S/S # _____ - _____ - _____
Address _____ City _____ State _____ Zip _____

Name _____ Title _____ Home Phone _____ - _____ S/S # _____ - _____ - _____
Address _____ City _____ State _____ Zip _____

Has any company principal filed for protection under Federal or State Bankruptcy Laws in the past seven years? _____

Trade References:

Name _____ Title _____ Home Phone _____ - _____ S/S # _____ - _____ - _____
Address _____ City _____ State _____ Zip _____

Name _____ Title _____ Home Phone _____ - _____ S/S # _____ - _____ - _____
Address _____ City _____ State _____ Zip _____

Name _____ Title _____ Home Phone _____ - _____ S/S # _____ - _____ - _____
Address _____ City _____ State _____ Zip _____

Name _____ Title _____ Home Phone _____ - _____ S/S # _____ - _____ - _____
Address _____ City _____ State _____ Zip _____

CREDIT LINE REQUESTED \$ _____

The following signature guarantees financial responsibility and authorizes those references listed above to furnish information on our account. Subsequent to establishment of a line of credit, the undersigned agrees to remit all amounts owed in compliance with Aqua Tech Dive Centers standard billing terms of Net 30 days. The undersigned also agrees to pay all legal interest levied, 1 1/2% per month, for past due amounts and agrees to pay all collection and attorney's fees incurred in the collection of amounts owed.

Signature _____
Print Name _____

Date _____
Title _____

If requested, can you furnish a recent Company Financial Statement? _____

www.Divecenter.com

comsales@divecenter.com / milsales@divecenter.com
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AQUA TECH

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CREDIT CARD AUTHORIZATION FORM

Aqua Tech Dive Center

1800 Logan Avenue, San Diego, California 92113

Phone 800-345-3252 / Fax 619-237-1886

E-mail: aquatech@divecenter.com

INSTRUCTIONS: Please print or type **in black ink only**. A signature is mandatory. This form **must be signed by the card holder**. A separate authorization form must be completed for each credit card. Aqua Tech Dive Center accepts faxed copies of this form, initially, to expedite orders. However, the original copy must be returned to Aqua Tech Dive Center within seven days.

Please return original form to:

Aqua Tech Dive Center
1800 Logan Avenue
San Diego, Ca. 92113 USA



Please provide a copy of your valid drivers license or passport photo page.

General Business Information:

Company or Name: _____
Street Address: _____
City: _____ State: _____ Zip or Country & Postal Code _____
Phone: _____ Fax: _____
E-mail address: _____

Credit Card Information:



VISA _____



Mastercard _____



American Express _____

Credit Card Number: _____ Expiration Date: _____
On American Express Card the four (4) digit, printed, number above impressed acct. number _____
Name of Issuing Bank: _____
800 or 888 phone number on back of card: _____
Card holders name as it appears on the card: _____
Billing Address used for this credit card:
Name as shown on card: _____
City: _____ State: _____ Zip or Country & Postal Code _____
Company Credit Card _____ Government Credit Card _____ Personal Credit Card _____

General description of products being purchased: _____

Authorization:

Authorized card users:

1. _____ Title / Relationship _____
2. _____ Title / Relationship _____
3. _____ Title / Relationship _____

As the cardholder and signer for the above listed VISA, MasterCard or American Express Credit Card, I hereby authorize the purchase of merchandise and / or services from Aqua Tech Dive Center. I accept financial responsibility for all transactions processed on this card by authorized users listed above.

Signature: _____ Printed Name: _____

Title (if applicable): _____ Date: _____

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HYPERBARIC MEDICINE LINKS

Diving, Hyperbaric and Medical References

<http://www.diversalertnetwork.org>

Links and information

<http://www.brooks.af.mil/medical.htm>

Hyperbaric and Medical links

http://www.nbdhmt.org/index_ie.htm

Hyperbaric and Medical links

<http://www.gulftel.com/~scubadoc>

Links and information

<http://www.hyperbaric.mc.duke.edu>

Hyperbaric Medicine and links

<http://www.wound.com/links.html>

Wound Care and Hyperbaric links

<http://www.hyperbaricmedicine.org>

Hyperbaric Care and Protocols

<http://www.aawn.org>

American Academy, Wound Management

<http://www.wound1.com>

Wound Care Database

<http://www.hyperbaricservices.com>

Services and links

<http://www.kindwallconsulting.com>

Hyperbaric and Compressed Air Medicine

<http://www.hyperbaric.com>

Hyperbaric Equipt. and links

<http://www.hyperbaricmedicine.com>

Hyperbaric Information and links

<http://www.baromedical.com>

Hyperbaric information and Protocols

<http://www.perrybaromedical.com>

Hyperbaric Equipment and Information

<http://www.ichm.net>

International Congress on Hyperbaric Medicine

<http://www.hyperbaricrx.com>

Beverly Hills Center for Hyperbaric Medicine

<http://www.hyperchamber.com>

Information and links

<http://www.fremantle-anesthesia.com/hyperbaric.htm>

hyperbaric.htm

Western Australia Dept. of Hyperbaric Medicine

<http://www.hyperbarictraining.com>

Hyperbaric Training

http://www.etcusa.com/hbo_cal.htm

Hyperbaric Related Conferences

<http://www.wpmc1.wpafb.af.mil/pages/hbo/hbo1.html>

Wright Patterson AF Base links

<http://www.uphs.upenn.edu/ifem>

Institute For Invironmental Medicine

<http://www.anesthesia.org/vat/hyperbaric.html>

Hyperbaric Information and links

<http://www.londonhyperbaric.com>

Hyperbaric Help Site

<http://www.quackwatch.com/index.html>

Searchable Database



ATTENTION:

All of the information and links contained on this page are for your research and possible use. Aqua Tech Dive Center has NOT VERIFIED any of the information for accuracy or medical usefulness. Our intent is to offer you several choices that may be of use in your search for Diving Related Medical Assistance. Please verify any information before applying it to an actual medical situation.



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