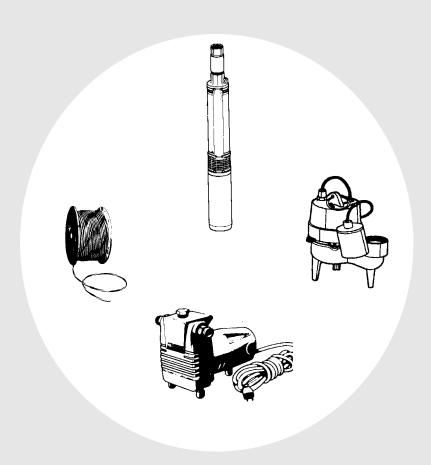
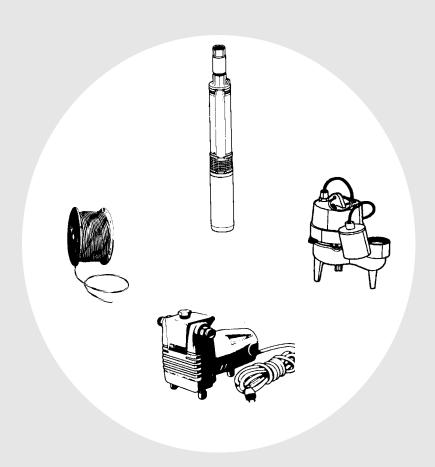
PUMPS



PUMPS



DUFF SUMP PUMPS AND CONTROLS

Duff submersible and pedestal sump pumps are designed to pump any basement drainage water and residential flooding.

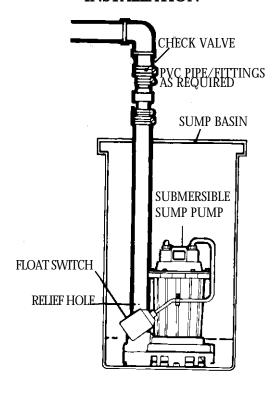
TOOLS AND MATERIALS NEEDED FOR SUBMERSIBLE OR PEDESTAL SUMP PUMP INSTALLATION

- * Duff hose kit or PVC pipe and cement (or galvanized pipe)
- * PVC adapter (same size as PVC/ABS pipe)
- * Check valve
- * Plastic, fiberglass or concrete sump basin
- * Screwdriver, pipe wrench, adjustable wrench (med.-large)
- * Hacksaw with 24-tooth blade for cutting plastic pipe
- * Knife or round file for smoothing inside of plastic pipe connections.

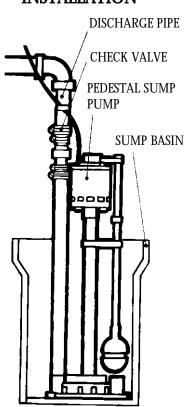


GRUNDFOS

BASIC SUBMERSIBLE SUMP PUMP INSTALLATION



BASIC PEDESTAL SUMP PUMP INSTALLATION



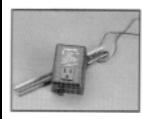
SUMP PUMP CONTROLS



DIAPHRAGM LEVEL CONTROL

Rated for 115V operation. Available on all SS Style pumps

| FIG. NO. | PRICE |
|----------|-------|
| 8238 | |



SSA NARROW SUMP SWITCH

No float to tangle and no moving parts - just stainless steel sensors. Converts system from wide angle float to stationary liquid level detection switch. For use in small sumps where it is not practical for two floats because sump opening is too small or corroded. Fully adjustable sensor rods for desire on/off levels.

| FIG. NO. | PRICE |
|----------|----------|
| 52287 | <u> </u> |



FIG. NO. PRICE 10644

LIQUID LEVEL CONTROL

Patented solid state design Use with sump or utility pumps Keep sumps, basements, or tanks dry Use to actuate water level alarms Mounts anywhere - on pump, wall, etc.

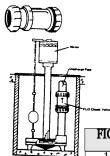


LITTLE GIANT LOW LEVEL DIPHRAGM SWITCH

Converts any manual pump up through $1/2~\mathrm{HP}$ to automatic operation on level 6 ".

| FIG. NO. | PRICE | |
|----------|-------|--|
| 25363 | | |

SUMP PUMP TRIM



PVC SUMP PUMP SWING CHECK

Compression. One size fits 1 1/2x1 1/2, 1 1/2x1 1/4, or 1 1/4x1 1/4

| FIG. NO. | PRICE |
|----------|-------|
| 15900 | |

CORRUGATED SUMP PUMP HOSE KIT



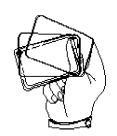
FIG. NO. PRICE 15851

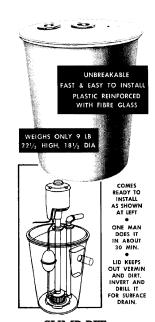
SUMP PUMP CHECK VALVE

Super quiet Fiberglass body Stainless steel flapper Fits PVC, steel or copper

| FIG. NO. | PRICE |
|----------|----------------------------------|
| 15838 | |
| 15845 | |
| 15846 | |
| 15847 | |
| 15849 | |
| | 15838 15845 15846 15847 |

DUFF GLADLY ACCEPTS VISA AND MASTERCARD!





SUMP PIT 18x22 Pit and Lid for submersible or upright sump pump.

| FIG. NO. | PRICE |
|----------|-------|
| 10885 | |

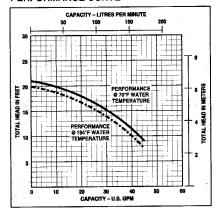


SUMP PUMPS SUBMERSIBLE HIGH TEMPERATURE PUMP

Cast Iron. Solids handling capability to 3/4", 1/3 HP, 115v. 1 1/2" NPT vertical discharge. Includes separate high temperature mercury float switch. APPLICATIONS: boiler blow down pits, condensate pits, hot water sumps. Liquid temperature - 200°F (93°C)

GREAT FOR HOT WATER

PERFORMANCE CURVE



ORDERING INFORMATION

| Catalog Number | HP | Max. Load Amps | Volts | Phase/ Cycle | Solids Handling Capability | Discharge |
|-------------------|-----|----------------------|-------|-----------------|----------------------------------|------------|
| 33040 | 1/3 | 12.0 | 115 | 1/60 | 3/4" | 1-1/2" NPT |



HEAVY DUTY BRASS SUMP PUMP

Durable bronze body-industrial as well as domestic applications. Dependable wide-angle or diaphragm level control. American made 1/2

HP motor, with over-load protection. 1 1/2" female discharge - 1800 GPH at 28' head.

| FIG. NO. | PRICE |
|----------|-------|
| 8209 | |



SUBMERSIBLE SUMP PUMP

Durable cast iron body. Reliable 1/3 HP American made motor Dependable wide-angle or diaphragm level control

Adapts to manual or automatic operation.

| FIG. NO. | PRICE |
|----------|-------|
| 47005 | |



action switch. cast iron epoxy coated, 10' power cord, 1/3 HP, 1 1/2" discharge. Model 6E-CIA-SFS.

| FIG. NO. | PRICE |
|----------|-------|
| 9283 | |



CAST BRONZE SUMP PUMP

1/2 HP, 1 1/2" discharge, heavy duty, diaphragm switch, 10' powercord.

| Gallons Per Hour | | | | | | |
|------------------|------|------|----------|-----|----------|-------|
| 1' | 10' | 20' | shut off | PSI | Fig. No. | Price |
| | | | | | | |
| 3250 | 2500 | 1550 | 22.9 | 9.9 | 11541 | |



CAST IRON SUBMERSIBLE PUMP

Cast iron, epoxy coated, passes 1/2" solids, 1 1/2 discharge, diaphragm switch, 8' power cord, 1 1/3 HP motor.

Model 6-CIA.

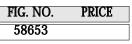
| Gallons Per Hour | | | | | 1120402 | 0 0111 |
|------------------|---------|--------|------------|--------|------------|--------|
| 1' | 10' | 20' | shut off | PSI | Fig. No. | Price |
| | | | | | Ū | |
| 2750 | 1750 | 750 | 18.0 | 7.8 | 11539 | |
| SA | ME AS 1 | 1539 W | TTH 25' CO | ORD LI | ESS SWITCI | H |
| 2750 | 1750 | 750 | 18.0 | 7.8 | 48537 | |

BACK-UP SUMP PUMP SYSTEM

The greatest protection for basements. Uses any standard 12 volt battery. Battery is kept charged and automatically recharges when pump is used. If power goes out or the main sump pump fails, the battery pump will keep the basement dry and free of potential damage. Pump is made of corrosion resistant thermoplastics. High head pump to accommodate long piping runs. Sold LESS BATTERY.

| 0 1 | | | | | | | | |
|--|----|----|-----|-----|-----|-----|-----|--|
| Discharge Height above Performance - up to 5100 gallons per hour | | | | | | | | |
| pumping level | 0' | 5' | 10' | 15' | 20' | 25' | 30' | |
| Gallons per minute | 23 | 20 | 18 | 14 | 10 | 6 | 1 | |

| • | |
|----------|-------|
| FIG. NO. | PRICE |
| 58653 | |



GEYSER II " CLASSIC" SUMP PUMPS

Open type trash impeller resists clogging Removable screen for easy cleaning 1 1/4" FPG discharge with garden hose adapter included Pumps floor dry to 1/8"

Fits into 7" opening Two year warranty

| FIG. NO. | PRICE |
|----------|-------|
| 10629 | |

| 0 0 | Performance - up to 5100 gallons per hour | | | | | | |
|--------------------|---|----|-----|-----|-----|--|--|
| pumping level | 0, | 5' | 10' | 15' | 20' | | |
| Gallons per minute | 21 | 19 | 17 | 14 | 8 | | |



Heavy duty $1/\overline{2}$ HP, $11\overline{5}$ volt oil filled motor, 6.3 Amps

High capacity - rate 85 GPM

Automatic operation features piggy-back style float switch

Removable snap-off strainer for easy cleaning Vent relief prevents air lock

1 1/2" MPT discharge Fits into 2" diameter sump

| FIG. NO. | PRICE |
|----------|-------|
| 50555 | |

| | Performance - up to 5100 gallons per hour | | | | | | |
|--------------------|---|----|-----|-----|-----|--|--|
| pumping level | 0' | 5' | 10' | 15' | 20' | | |
| Gallons per minute | 85 | 65 | 45 | 28 | 4 | | |

GEYSER "CLASSIC" SUMPLESS

1/6 hp, 115 volt oil filled motor, 5 amps The same "Classic" utility pump as 10629, but converted to an automatic sump pump that can pump down to 1/2" from floor. Includes pump, solid state probe switch, check valve and mud

| FIG. NO. | PRICE |
|----------|-------|
| 10631 | |

| Discharge Height above | Performance - up to 1260 gallons per hour | | | | | |
|------------------------|---|----|-----|-----|-----|--|
| pumping level | 0' | 5' | 10' | 15' | 20' | |
| Gallons per minute | 21 | 19 | 17 | 14 | 8 | |



Don't see what you're looking for? Call the pump experts at Duff Company for ALL your pump needs! 610-275-4453



SUPER GEYSER

3 HP, 115 volt motor, 10 Amps

Pumps floor dry to 5/8"; fits into 7" opening

1 1/4" MPT discharge with garden hose adapter included.

| FIG. NO. | PRICE |
|----------|-------|
| 37878 | |

| Discharge Height above | Performa | nce - up to | 1860 gallo | ons per hou | ır | |
|------------------------|----------|-------------|------------|-------------|-----|-----|
| pumping level | 0' | 5' | 10' | 15' | 20' | 25' |
| Gallons per minute | 36 | 29 | 27 | 21 | 12 | 1 |



GRUNDFOS STAINLESS STEEL SUMP & UTILITY PUMP

Stainless steel. Handles clean or gray water. Pump up to 4080 gallons per hour, Series KP pumps can handle solids up to 3/8". Suited for hard to reach areas. Operates continuously in

hot water up to 950 F. Automatic thermal protection and restart system to prevent motor damage. All stainless steel housing, impeller, and suction screen. Use for effluent, clear or dirty sump water, grey water and waste water, draining ponds, pits and tanks, de-watering, draining and filling tanks, draining pools & spas, light commercial mixing . DO NOT USE FOR: raw sewage, flammables, highly corrosive liquids. Flow range = .5-.68 US GPM. Temp range 320- $95^{\circ}F$ ($0^{\circ}-35^{\circ}C$) Continuous, $32^{\circ}-122^{\circ}F$ ($0^{\circ}-122^{\circ}F$) 50°C) Intermittent (totally submerged). Minimum pumping level - 1/2 inch

| HP | Descr | Model | Fig. No. | Price |
|-------------------|----------------------|---------------------------|-------------|-------|
| 1/5 1/3 1/2 | Auto Auto Auto | KP150A KP250A AP12A | | |

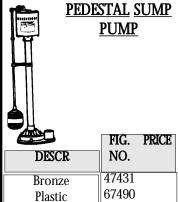


SUBMERSIBLE SUMP **PUMP**

Durable cast iron body. Reliable 1/3 HP American made motor. Dependable wide-angle or diaphragm level control. Adapts to

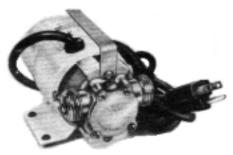
manual or automatic operation.

| DESCRIPTION | FIG. NO. | PRICE |
|------------------|-------------|-------|
| Sump pump w/ | 25253 | |
| diaphragm switch | | |
| Page 376 | , | |



| For additional information call: 610-275-4453 or Fax: 610-279-6299. | |
|---|--|
| Please call for current prices. | |

ALL PURPOSE PUMPS



ORIGINAL PONY PUMP

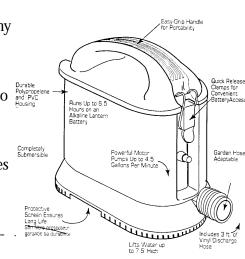
115 volt, AC. Instant self-priming. Moves up to 360 GPM with hydro impeller. Excellent for even tanks and water heater. 3/4" GH in & out.

| VOLT | FIG. NO. | PRICE |
|------------------|----------|-----------------|
| 115 AC | 10700 | |
| 12 V | 10697 | |
| | | |
| | LER REPA | IR KIT |
| IMPELI FIG. N | | IR KIT PRICE |

HANDI-PUMP

Cordless Utility Pump. Many household uses. Powerful -Pumps up to Polyprop and PVC 4.5 gallons per minute. Safe - nonelectric, uses one 6 volt lantern battery (not included).

Completely Submersible!



| FIG. NO. | PRICE |
|----------|-------|
| 65799 | |



WATER WIZZARD

Bottom pick up. 1" Female discharge. Epoxy coated aluminum, removes water to 1/8", 1" IP with garden hose adapter. Pumps to 26" high.

WITH LOW LEVEL SWITCH

| FIG. NO. | PRICE | FIG. NO. | PRICE |
|----------|-------|----------|-------|
| 46933 | | 57068 | |



PORTABLE GAS UTILITY PUMP

2 cycle McCullough engine, includes 3/4"x10' hose, primes in 15 seconds.

| FIG. NO. | PRICE |
|----------|-------|
| 44606 | |



DRILL PUMP

| FIG. NO. | PRICE |
|----------|-------|
| 10668 | |



FUEL TRANSFER PUMP

Gas driven (40 minutes to one tank), Self-priming, 3/4" IPS, wt=30 lbs. 21 CC McCullough engine.

| FIG. NO. | PRICE |
|----------|-------|
| 44607 | |



UTILITY PUMP

Compact, portable design, self priming High powered 1/2 HP, 7500-RPM, 115 volt, double insulated american made motor. 3/4" inlet and outlet.

| FIG. NO. | PRICE |
|----------|-------|
| 9286 | |



8M CONTRACTOR PUMP

Heavy duty, cast iron case will survice even the most rugged applications. Self-priming Non-clogging, semi-open, cast iron impeller. Gas-driven engine is air-cooled and has manual start.



3.5 HP. 2" inlet & outlet.

FIG. NO. **PRICE** 45485



PITCHER PUMP

- *Brass body
- *Left or right hand
- *Cut-a-way base
- *3" Dia. cylinder
- *1 1/4" pipe tape
- *Spout type

| FIG. NO. | PRICE |
|----------|-------|
| 10605 | |

Page 377

For additional information call: 610-275-4453 or Fax: 610-279-6299 Please call for current prices.

DUFF CO. PUMPS

<u>L *F*</u> Fully sea voir.

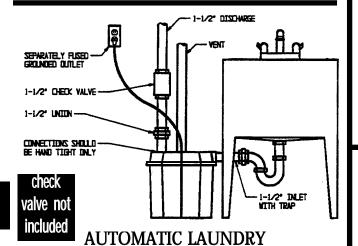
LAUNDRY TRAY PUMPS LAUNDRY TRAY

PUMP

Fully sealed, two gallon cast aluminum reservoir.



| Model | Max PSI | HP | Wgt. | Fig. No. | Price |
|-------|---------|-------------|------|-------------|-------|
| LTS-1 | 8 | 1/3 | 30 | 9115 | |
| LTP-1 | 8 | 1/4 | 30 | 47184 | |
| L111A | swite | ch assembly | only | 9122 | |
| | | | | • | |

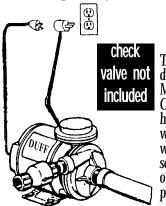


TRAY/SINK/SHOWER PUMP

1/3 hp, 1-1/4" discharge for full flow, high output performance. Over 30 gpm at 10'. Corrosion-proof receiver is attractive and light in weight, with over 5-gallons capacity. safety features include double-insulated construction, automatic thermal overload protection and complete factory pre-wiring. Sealed, submersible pump and switch design eliminates the possibility of moisture damage. Unit can be even installed below floor level. Diameter 13-1/4", height 14-3/4" shipping wt. 27 lbs.

| FIG. NO. | PRICE |
|----------|---------|
| COMPLE | TE UNIT |
| 9125 | |
| | |



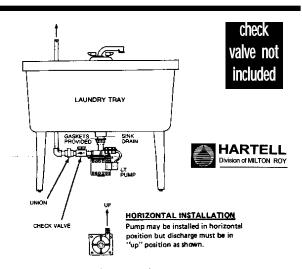


MODEL LP3A AUTOMATIC LAUNDRY TRAY PUMP

The control is a 15 Ampere heavy duty Microswitch manufactured by Minneapolis Honeywell Regulator Co. The diaphragm is made of heavy gauge neoprene, reinforced with nylon. A three way switch with Automatic off and manual settings. Also included is eight feet of three conductor electric cord and plug.

| FIG. NO. | PRICE |
|----------|-------|
| 9132 | |
| | |
| SWITCH | ONLY |





<u>MODEL LTA-1</u> AUTOMATIC LAUNDRY TRAY PUMP

Completely self-contained unit that is easy to connect directly to laundry tray tubs. Light weight and compact, this model eliminates reservoirs, traps, extra fittings and costly labor. (Automatic model LTA-1 includes a pressure-activated switch that turns pump on when water enters tub.)

ABS plastific design features high impact & corrosion resistance, thus assuring long life. 1/8 hp motor, 1550 rpm. Inlet: 1 1/2" NPSM: Outlet: 1" NPT. Integral junction box.

| FIG. NO. | PRICE |
|----------|-------|
| 42878 | |

For additional information call: 610-275-4453 or Fax: 610-279-6299.

GRUNDFOS STAINLESS STEEL SEWAGE PUMPS

Technical Data

PERFORMANCE RANGE:

- Flow: 0 170 U.S. GPM
- Head: 0 47.5 feet of water
- Horsepower: 4/10 11/2 HP

SOLIDS HANDLING:

· 2" spherical solids

MOTOR TYPE:

- · AC Induction
- · Permanent split capacitor
- · Oil filled
- Class F insulation
- · Manufactured by Grundfos

MOTOR DUTY:

 Continuous, not to exceed 8 hours per 24 hour period

THERMAL PROTECTION:

Automatic reset

STARTS PER HOUR:

- Maximum 20 starts per hour
- Evenly distributed once every 3 minutes

MOTOR BEARING SYSTEM:

2-ball bearing races

TEMPERATURE LIMITS: Fluid temperature

- Continuous operation when fully submerged
 - 104°F (40° C)
- Intermittent operation (approx. 3-4 minutes)
 140°F (60°C)

DISCHARGE SIZE: 2" female NPT

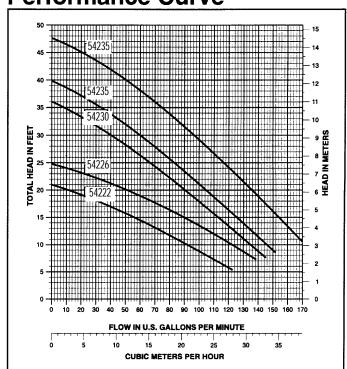
IMPELLER DESIGN:

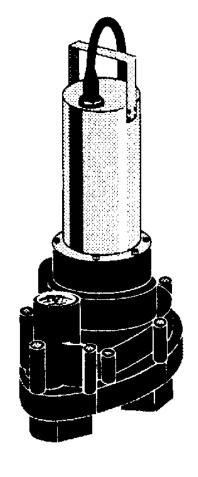
Vortex
 APPROVALS: Listed 99K4













| Figure No. | HP | Service Factor | PH | Voltage | Max Watts | MaxRun Amps | Locked RotorAmp | Nom Speed (rpm) | Price |
|---------------|-------|-------------------|----|---------|--------------|----------------|--------------------|-----------------------|-------|
| 54222 | 4/10 | 1.4 | 1 | 115 | 935 | 8.7 | 18 | 1625 | |
| 54226 | 1/2 | 1.6 | 1 | 115 | 1155 | 11.2 | 24 | 1635 | |
| 54231 | 3/4 | 1.5 | 1 | 230 | 2155 | 9.7 | 23 | 3335 | |
| 54234 | 1 | 1.4 | 1 | 230 | 2290 | 10.3 | 23 | 3315 | |
| 54236 | 1 1/2 | 1.3 | 1 | 230 | 2890 | 13.1 | 30 | 3350 | |

PACKAGED RESIDENTIAL SEWAGE SYSTEM



SEWAGE PUMP

| 2" | solids, | 115V, | 1/2" | II |
|----|---------|-------|------|----|
| | | | | |

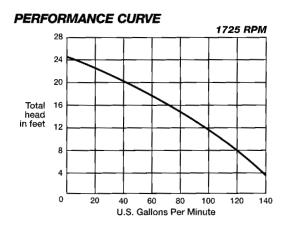
| FIG. NO. | PRICE |
|---------------|----------|
| 9129 | |
| used in #9130 | assembly |

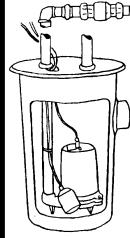
1/2 hp 2" solids-handling 2" discharge

Features:

Heavy cast iron cosntruction with 2-vane semi-open *HYTREL impeller
Oil filled, thermally protected motor
Permanently lubricated bearings
All stainless steel fasteners
Stainless steel rotor shaft
10' UL approved power cord with quick disconnect design - standard (consult factory for longer cord lengths)

Mercury-free float with series plug on automatic models





SEWAGE EJECTOR COMPLETELY PRE-ASSEMBLED

- *2" Solid handling
- *2" Discharge vent
- *3" or 4" inlet
- *Capacity 37 gallons
- *For residential and light commercial installations (up to 60 fixture units).

Features:

Durable polyethylene basin with reinforcing ribs for structural strength; 20" x 30"

'Torque stops' molded into the base provide added pump stability and assure proper clearance for the float switch.

Molded inlet hub has no bolts or gaskets - sized for 4" flexible couplings

25% more capacity than 18"x30"basins - provided more gallons per pump cycle and longer pump and switch life

2" discharge of schedule 80 PVC pipe (steel pipe nipple optional)

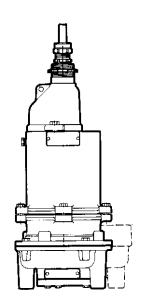
2" threaded vent flange

Reinforced polyethylene over (steel cover optional)

COMPLETE UNIT

| FIG. NO. | PRICE |
|-------------|----------------|
| 9130 | |
| <u>20 x</u> | 30 PIT AND LID |
| 25111 | |

GRINDER SEWAGE PUMP



ADVANTAGES BY DESIGN

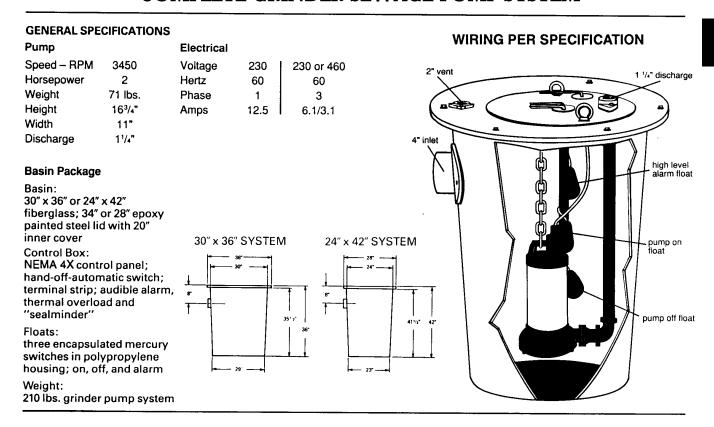
IDEAL FOR USE IN PRESSURE SEWER SYSTEMS.

 Recessed impeller provides steep non-overloading operating curve.

DURABLE MOTOR WILL DELIVER MANY YEARS OF RELIABLE SERVICE.

- Oil-filled motor for maximum heat dissipation and constant bearing lubrication.
- Recessed impeller reduces radial bearing loads, increases bearing life.
- High torque capacitor starts single phase or three phase motors for assured starting under heavy load.
- Optional seal leak probe warns of seal leak condition, helps prevent costly motor damage.
- Single phase motors have on-winding current and temperature sensitive overload.

COMPLETE GRINDER SEWAGE PUMP SYSTEM



EFFLUENT PUMPS 11/2" DISCHARGE



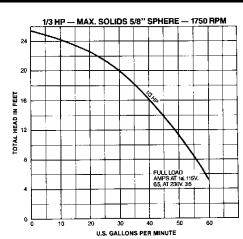


| Total | Head (feet) | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
|-------|-------------|----|----|----|----|----|----|----|----|----|----|----|
| | 1/4 HP | 44 | 41 | 36 | 33 | 29 | 26 | 23 | 18 | 12 | 6 | 0 |
| GPM | 1/3 HP | 47 | 45 | 43 | 40 | 37 | 34 | 30 | 26 | 22 | 16 | 10 |

| SIZE | FIG. NO. | PRICE |
|--------|----------|-------|
| 1/4 HP | 24898 | |
| 1/3 HP | 24899 | |



DESCRIPTION



- Available in automatic or manual.
- Completely submersible.
- Non-clog bronze impeller.
- No suction screens to clean.
- Oil-filled, double ball bearing motor with built-in overload protection.
- Reliable diaphragm switch with piggyback plug-in.
- Rugged cast iron construction. Completely field serviceable.
- 1 1/2" NPΓ discharge.

| DESCRIPTION | FIG. NO. | PRICE |
|-------------------|----------|-------|
| Automatic OSP33A1 | 7897 | |
| Manual OSP33M1 | 7892 | |

SEWAGE EJECTOR PUMPS

PRICE

2" DISCHARGE

| Total | Head (feet) | 4 | 8 | 12 | 16 | 20 | 24 | 28 |
|-------|-------------|-----|-----|----|----|----|----|----|
| GPM | 4/10 HP | 120 | 108 | 90 | 68 | 42 | 20 | 0 |

FIG. NO.

| Automatic SP40 Manual SP40N | | • | 000 016 | | | | |
|--------------------------------|-----|-----|------------|----|----|----|----|
| Total Head (feet) | 8 | 12 | 16 | 20 | 24 | 28 | 29 |
| GPM 1/2 HP | 150 | 120 | 95 | 70 | 40 | 7 | 0 |

| DESCRIPTION | FIG. NO. | PRICE |
|-----------------|----------|-------|
| Automatic SP50A | 8030 | |
| Manual SP50M | 8053 | |



switches has an adjustable pumping range and is available in various cord lengths, all with piggy back plug unless noted. Each pump switch is UL Listed and CSA Certified.

SUPER SINGLE

JUNIOR SUPER SINGLE



Mercury-activated Controls pumps up to 1/2HP at 120V and 1HP at 230V Not sensitive to rotation Recommended for use in non-turbulent applications Not designed to be directly wired to relays or motor contractors.

Pumping range: 5.5 to 17 inches

Available for pump up or pump down application.

| MODEL | FIG. NO. | PRICE |
|-------|----------|-------|
| JSD | 10883 | |
| JSU | 43320 | |



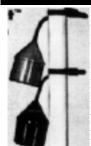
Mercury-activated Controls pumps up to 1/2HP at 120V and 2HP at 230V Not sensitive to rotation or turbulence

Suitable for use with intrinsically safe circuits Pumping range: 5.5 to 15 inches

Available for pump up or pump down application.

| MODEL | FIG. NO. | PRICE |
|---------------|----------|-------|
| SSD less plug | 10875 | |
| 120/230v | | |
| SSD 120v | 10874 | |
| SSD 230v | 10878 | |
| SSU 120v | 45343 | |

DOUBLE FLOAT



Mercury-activated Controls pumps up to 1 HP at 120V and 2HP at

Not sensitive turbulence Pumping range: 1 to 48 inches (wider ranges available)

Available for pump up or pump down application.

| MODEL | FIG. NO. | PRICE |
|--------------------|----------|-------|
| DFD 120V | 10884 | |
| DFU 120V | 41239 | |
| DFD 230V | 25278 | |
| DFU 230V | 41240 | |
| DFU 230V less plug | 58134 | |
| DFD 230V less plug | 50365 | |
| | | |

DUPLEX ALTERNATING PUMP CON-TROL SYSTEM



RHOMBUS TYPE 122 - Control panel is designed to alternately control two single-phase pumps in residential and commercial water and sewage systems. The alternating action equalizes pump wear. In addition to the alternating pump control, this system provides override control should either pump fail. If an alarm condition occurs, an alarm switch activates the audio/visual alarm

system. Common applications include lift stations, pump chambers, sump pump basins and irrigation systems. One control for either indoor or outdoor use.

| FIG. NO. | PRICE |
|----------|-------|
| 41559 | |

TANK ALERT

PUMP ALARM SYSTEM - Designed to visually and audibly warn of threatening high or low liquid level conditions in lift pump chambers, sump pump basins, holding tanks, sewage plus irrigation and other water systems. The standard alarm system includes a Tank Alert I and a sensor float control switch.



FIG. NO. PRICE 10871

Designed for indoor use Features horn and warning light Switching mechanism operates on low voltage and is designed to reduce the possibility of shock Includes optional auxiliary dry contacts for remote alarm hookup UL Listed and CSA Certified

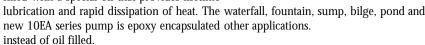
DUFF SELLS **SOLUTIONS!** LET US HELP YOU! 610-275-4453 SOLUTIONS

For additional information call: 610-275-4453 or Fax: 610-279-6299 Please call for current prices.

PROBLEMS

Small Submersible Pumps

Designed to operate when the pump is totally submerged in fluid, Little Giant Small Submersibles are hermetically sealed and filled with a special oil that provides lifetime





Except where noted, all units feature:

- * Cast aluminum housing with protect Listed. tive epoxy coating.
- * 1/4" MNPT discharge
- * 6' power cord with 3 prong molded plug
- * Buna-N seal

Model P-AAA

ing can be set on all five sides. Screen flush UL Listed. with pump side allows more complete pick up of fluid. Impedance protected. UL listed. Model 2E-N

Model 1-AA

Polypropylene front and impeller, with poly-tected. UL Listed. ethylene screen. 3' power cord with 3 prong molded plug.

Model 1-EA

Compact pump with epoxy encapsulated Thermally protected. UL Listed. motor; case is constructed of cast aluminum and polyester. Volute, impeller and screen Model NK-1 Impedance protected. UL Listed.

Model PCPK-N (Pool Cover Pump)

For standing water removal from pool cover. Model NK-2 Also ideal for use as a submersible pump in

LITTLE GIANT PUMPS











Model 1-MA

Side intake and vertical discharge. Polypropylene front, impeller and screen. UL

Model 1

Polypropylene front and impeller, with polyethylene screen. UL Listed.

Model 1-A

Corrosion-resistant, glass filled nylon hous- Same as Model 1 above, with smaller motor.

Smooth, hooded intake with polypropylene screen. Vertical discharge. Thermally pro-

Model 4E-34N

Polypropylene screen. 3/4" FNPT intake and 1/2" MNPT discharge., Viton seal.

and polypropylene. Perfect for fresh water Designed for use in mild acids, alkalies and circulation/aeration in aquariums. hard water applications. Has glass-filled corrosion-resistant nylon housing. Viton seal. Thermally protected.

Same as above, with larger motor.

| | | Gallor ,115 1' | ns Per Ho VAÇ 60 3 | our @) Hz 5' | Shut Off | PSI | Fig. No. |
|--------------|---------|----------------------|--------------------------|---------------------|-------------|------|-------------|
| | P-AAA | 120 | 70 | - | 4.6' | 2.0 | 11498 |
| au | 1-AA | 170 | 140 | 100 | 7.0' | 3.0 | 11500 |
| Submersible | 1-A | 170 | 140 | 100 | 7.0' | 3.0 | 11502 |
| ers | 1 | 205 | 168 | 120 | 7.4' | 3.2 | 11503 |
| Ĭ, | NK-1 | 210 | 180 | 150 | 10.2 | 4.4 | 11514 |
| db . | 2E-N | 300 | 255 | 205 | 11.8' | 5.1 | 11505 |
| II S | NK-2 | 325 | 300 | 270 | 12.3' | 5.3 | 11515 |
| Small : | 4E-34N | 710 | 690 | 670 | 23.1 | 10.0 | 11512 |
| Sr | 4E-34NR | 810 | 790 | 745 | 24.5 | 10.6 | 11513 |
| | PCPK-N | 325 | 300 | 270 | 12.3 | 5.3 | 11516 |
| | 1-EA-42 | 170 | 100 | - | 7.0' | 3.0 | 47008 |
| se | 1-42 | 205 | 120 | - | 7.4' | 3.2 | 11507 |
| rpc | 2E-38N | 300 | 205 | 70 | 11.8' | 5.1 | 11508 |
| Pu | 3E-12N | 500 | 337 | 210 | 17.3 | 6.5 | 11509 |
| Б | 3E-12NR | 670 | 575 | 460 | 22.6 | 9.8 | 11510 |
| Dual Purpose | 3E-12R | 525 | 490 | 450 | 25.9 | 11.2 | 38160 |
| _ | 3E-34N | 670 | 575 | 460 | 20.3 | 8.8 | 11511 |

Dual Purpose Pumps

Little Giant dual purpose pumps may be used either totally submerged or in an open air closed line system application. Pumps are filled with a special oil that provides lifetime lubrication and rapid dissipation of heat. The new 1-EA 42 pump epoxy encapsulated instead of oil filled.

FEATURES

Except where noted, all units feature:

- * Cast aluminum housing with protective epoxy coating.
- Threaded intake and discharge ports
- * Nylon pumping head and impeller
- * 6' power cord with 3 prong molded plug
- Thermal overload protection
- Buna-N Seal

Model 1-EA-42

Compact, submersible or in-line pump with epoxy-encapsulated motor; outer case is constructed or durable die cast aluminum and polyester. Volute and impeller are nylon. Impedance protected. Has both 1/2" MNPT and 1/4" FNPT intake ports and 1/4" MNPT discharge port. UL Listed.

Model 1-42A

Has both 1/2" MNPT and 1/4" FNPT intake ports, and 1/4" MNPT discharge port. UL Listed.

Model 1-42

Same as above with larger motor. UL Listed.

Model 2E-38N

3/8" FNPT intake and 1/4" MNPT discharge ports. Viton seal and stainless steel backplate. Used in Hot Tub and spa applications. 10' power cord.

Model 3E-12N

3/4" FNPT intake and 1/2" MNPT discharge ports. Nylon screen. Viton seal. UL Listed.

Model 3E-12NR

Same as Model 3E-12N, with heavy duty motor. UL Listed.

Model 3E-112R

Same as model 3E-12N, with high pressure impeller. UL Listed.

GIANT CHEMICAL TRAN

Magnetic Driven Pumps

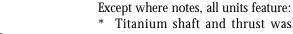
Model 1-AA-MD



Employing a completely "seal-less" engineer- 1/2" OD smooth discharge and intake ports. ing concept, Little Giant Magnet Driven 316 stainless steel, corrosion-resistant shaft Centrifugal Pumps are specifically designed and Rulon-J thrust washers. Open shadedto handle acids, alkalies, solvents and other pole motor has sleeve bearings. Impedance sophisticated fluid chemistry with efficiency protected. 3' lead wires with no plug. and trouble-free reliability.

FEATURES

Model 1-MD



1/2" OD smooth discharge and intake ports. Open fan-cooled motor has sleeve bearings. Titanium shaft and thrust washers for Thermally protected. 6' power cord with 3 prong molded plug.

excellent wear and corrosion resistance.

Model 2-MD

High quality, permanent, uncoated ceramic (barium ferrite) driven magnet.

> threaded FNPT intake ports. Pen fan-cooled motor has sleeve bearings. Thermally protected. 6' power cord with 3 prong molded plug.

Glass-filled polypropylene pumping head 1/2" threaded MNPT discharge, and 1/2" and impeller.

FLUID SYSTEM DESIGN PARAMETERS

Specific gravity: Up to 1.1 * Viscosity: Up to 100 SSU (20CPS)

Model 3-MDX

* Nitrile O-ring.

Far (24 Deg C)

Ambient Air Temperatures: up to 77 Deg 5/6" OD smooth discharge and intake ports. Open fan-cooled motor has sleeve bearings. Thermally protected. 6' power cord with 3 prong molded plug.



NOTE; CONSULT FACTORY FOR APPLICATIONS WITH HIGHER AMBI-ENT TEMPERATURE. SPECIFIC GRAVITIES AND VISCOSITIES.

Same features as Model 3-MD with larger



FLUID/MATERIALS IN CONTACT

Model 5-MD

Model 4-MD

Poly propylene, Titanium, Barium Ferrite and motor. Nitrile.

> 1/2" threaded FNPT intake ports. Open fancooled PSC motor has sleeve bearings. Thermally protected. 6' power cord with 3 prong molded plug.

| | | | | | | | | MD | Serie | es Sj | pecif | icati | ons | | | | | | | | | |
|----------|-------|--------------|--------------|----------|--------------|-------|-------|------|-------------------|-------------|---------------------|------------|------------|------------|------------|------------|------------|-----|------|-------|--------|---------------------|
| Model | Fig | Intake | Disc. | | | Motor | | | Motor | Max | Shutt | | | Gallo | ns Per | Hour | | | Dime | nsion | s (ln) | Wt. |
| | | Size | Size | Hertz | RPM | HP | Watte | Amps | Туре | PSI | Off Head (Ft) | 1' | 3 | 6' | 9' | 15' | 18' | 24' | нт. | WD. | LG. | Pack- ed Lbs. |
| 1-AA-MD* | 11544 | 1/2" OD | 1/2" OD | 60 | 3250 | 1/200 | 16 | .27 | OPEN | 2.35 | 5.4 | 160 | 100 | - | - | | - | | 3.7 | 2.4 | 4.4 | 1.5 |
| 1-MD* | 11546 | 1/2" OD | 1/2" OD | 60 | 2450 | 1/70 | 60 | .79 | OPEN FC | 4.6 | 10.6 | 180 | 165 | 90 | 20 | • | - | - | 5.0 | 4.0 | 8.3 | 4.0 |
| 2-MD | 11548 | 1/2" FNPT | 1/2" MNPT | 60 50 | 3100 2600 | 1/30 | 100 | 1.5 | OPEN FC | 6.3 | 14.6 | 510 470 | 485 420 | 410 350 | 330 | | - | | 4.3 | 4.0 | 8.5 | 4.0 |
| 3-MDX | 11551 | 5/8" OD | 5/8" OD | 60 50 | 3150 2850 | 1/30 | 100 | 1.7 | OPEN FC | 6.6 | 15.2 | 445 415 | 415 385 | 360 290 | 295 180 | - | | - | 4.3 | 4.0 | 8.3 | 4.0 |
| 3-MI | 11552 | 1/2" FNPT | 1/2" MNPT | 60 | 3300 | 1/20 | 105 | 1.4 | OPEN FC | 7.1 | 16.3 | 590 | 545 | 490 | 390 | 150 | - | | 4.3 | 4.0 | 8.5 | 7.0 |
| 4-MD* | 11554 | 1/2" FNPT | 1/2" MNP | 60 | 3250 | 1/12 | 213 | 2.4 | OPEN FC | 10.2 | 23.7 | 690 | 660 | 600 | 545 | 390 | 280 | - | 4.3 | 4.0 | 8.9 | 7.5 |
| 5-MD | 11556 | 1/2" FNPT | 1/2" MNP | 60 50 | 3250 2800 | 1/8 | 200 | 2.1 | OPEN FC PSC | 15.0 9.7 | 34.6 22.4 | 905 945 | 875 905 | 800 | 750 715 | 635 530 | 575 440 | 440 | 5.6 | 5.4 | 8.3 | 8.6 |

COLD WATER CONDNSATE PUMPS

An inexpensive, trouble-free solution to condensate removal where gravity drainage is Vertical type pump unit. Leakproof, rustimpossible or impractical, Little Giant proof, high-impact polystyrene tank. ABS Automatic Condensate units are designed to Motor & Tank cover, volute and impeller. fit most mechanical refrigeration and air conditioning units. Also for use in the disposal of OD barbed discharge. 6' power cord with 3 waste water of Drinking Fountains, prong molded plug. Thermal overload pro-Humidifiers, Ice Makers, Beverage Machines tection. and other applications.

Model 1-ABS

Designed for in-pan mounting, submersible pump has cast aluminum housing with protective epoxy coating, smooth intake and 1/4" MNPT discharge. Float operated switch is waterproof and engages pump in 1.06" of water, and disengages pump in .5" of water. Pump has 6' power cord, with 3 prong molded plug.

Model TKT

Nylon, corrosion-proof tank for use with Model 1-ABS pump unit. Kit consists of tank, check valve, and 20' of 1/4" tubing.

Model 2EC-SPT

Shallow pan tank unit for use where minimum height is a requirement. Pump has 1/4" MNPT discharge. Float operated switch engages pump in 2.25" of water, and disengages in 1.5" of water. Pump has 6" power cord with 3 prong molded plug.

Model 34C-SPT

Larger of the shallow pan tank units has greater pumping capacity. Pump has 1/2" MNPT discharge, 6' power cord with 3 prong molded plug. Pump engages in 4.45" of water, and disengages in 3.45" of water. Unit includes 3/8" check valve.

Suitable for High Efficiency Applications

For Condensate and waste water removal tasks, Little Giant verticalpump Automatic Condensate Units are an efficient, low cost answer. Designed to fit most larger mechanical refrigeration and air conditioning units, these pump units also serve as excellent waste water disposal systems where increased volume is needed.



FEATURES

Except where noted, all units feature: Stainless steel shaft. Snap action Switch. 3/8"

Model VCM-15UL

Pump engages in 2.40" of water, and disengages in 1.25" of water. Check valve. UL

Model VCM-15ULS

Same as above, but includes safety switch, and check valve. UL Listed.

Model VCM-20UL

Same as Model VCM-15UL above, with greater pumping capacity. Check Valve. UL

Model VCM-20ULS

Same as Model VCM-20UL, with safety switch, and check valve. UL Listed.

Model VCC-20ULS

Low-profile, compact size for limited space installations. Pump engages in 1" of water, and disengages in .45 of water. Includes safety switch and check valve.

Model VCL-14ULS

Pump engages in 3.56" of water, and disengages in 2.6" of water. Includes safety switch.

Model VCL-24UL

Same as above with larger motor. No safety switch. Thermally protected. UL Listed.

Model VCL-24ULS

Same as Model VCL-24UL above, with safety switch. UL Listed.

Model VCL-45S

Heavy duty pumping unit. Pump engages in 3.56" of water, and disengages in 2.6" of water. Will pump 75 GPH at 40' Head. 3' power cord, without plug. 3/8" OD copper tube discharge. Includes safety switch.

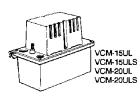
Coil Cleaning Kit Model GKPK-SC

A fast inexpensive and effective system for "boiling out" coils, the Little Giant Coil Cleaning Kit is ideal for use with steam converters, burnouts, shell and tube head exchangers, water heaters and oil supply lines to fuel oil heaters. Used with coil cleaning acids. Kit includes 5 gallon polyethylene tank with cover and baffle, and Little Giant Model 2-MD-SC (Special Version #582523) magnetdriven pump with mounting bracket. Also includes 18" of 1/2" Tygon tubing, 10'.

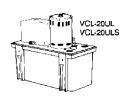
| | Gallons per | hour @ 115 | VAC 60 HZ | SHUT OFF | PSI | FIG. NO. |
|-------------|-------------|------------|-----------|----------|------|----------|
| | 1' | 5' | 9' | | | |
| 1-ABS | 205 | 145 | - | 10' | 4.3 | 11517 |
| VCC-20ULS | 70* | 55* | - | 20' | 8.6 | 43186 |
| VCM-15UL(S) | 50* | 30* | - | 15' | 6.5 | 30238 |
| VCM-20UL(S) | 701* | 55* | - | 20' | 8.6 | 38162 |
| VCL-14UL(S) | 170 | 125 | - | 14' | 6.1 | 16965 |
| VCL24-UL(S) | 250 | 210 | 105 | 24' | 10.4 | 30244 |
| VCL-45S | 440 | 415 | 330 | 45' | 10.5 | 30245 |
| GKPK-SC | 310 | 285 | 225 | 14.6' | 6.5 | 18146 |

*GPH RATES SHOWN ARE WITH CHECK VALVES.











For additional information call: 610-275-4453 or Fax: 610-279-6299. Please call for current prices.

LOOKING FOR REPAIR PARTS FOR YOUR PUMPS? CALL DUFF!

WE CAN SUPPLY YOU WITH PARTS FOR ANY BRAND PUMP!

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ZDELLER [D. Liberty Pumps...













BARNES PUMPS

THRUSH



TACO AURORA

BARNES PUMPS

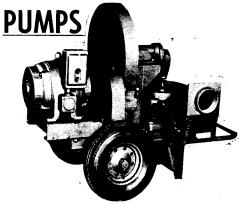
mud 'n sludge

PERFORMANCE

DIAPHRAGM

| MODEL | HEIGHT OF PUMP ABOVE WATER | | | | | | | | | |
|-------|----------------------------|------|------|------|------|--|--|--|--|--|
| NO. | 5′ | 10′ | 15′ | 20′ | 25′ | | | | | |
| 20ADG | 3760 | 3720 | 3600 | 3480 | 3420 | | | | | |
| 30ADG | 4380 | 4080 | 3960 | 3840 | 3780 | | | | | |
| 30ADD | 4380 | 4080 | 3960 | 3840 | 3780 | | | | | |
| 4CDG | 8000 | 8000 | 6000 | 4000 | 2000 | | | | | |
| 2CDE | 3000 | 2500 | 2000 | 1500 | 1250 | | | | | |
| 3CDE | 6000 | 5500 | 4500 | 3500 | 3000 | | | | | |
| 4CDE | 8000 | 8000 | 6000 | 4000 | 2000 | | | | | |
| 20CDE | 1680 | 1560 | 1320 | 1140 | 900 | | | | | |

U.S. GALLONS PER HOUR



NOTE: Above Performance Based on 10' Static Discharge Head.

FOR EXACT MODEL SPECIFICATIONS & PRICES **CALL DUFF** 610-275-4453



- 2", 3" and 4" sizes with capacities to 8,000 GPH to handle slurry, sludge and residue.
- Lightweight, compact, minimum overall dimensions. Economical — low original cost, easy maintenance.
- Flexible coupled engine for easy replacement. * Simple construction — enclosed gear reduction, hardened, heat-treated and ground shaft, heavy-
- duty bearings on pump shaft and plunger crank. Easy diaphragm replacement without disturbing suction or discharge lines.
- Free-opening flap valves-large rubber-faced swingtype valves offer easy passage of foreign materials.

For additional information call: 610-275-4453 or Fax: 610-279-6299 Please call for current prices.

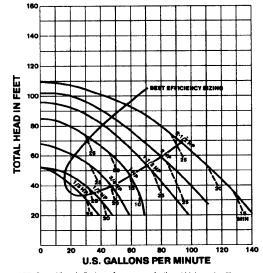
GENERAL PURPOSE CENTRIFUGAL PUMPS



J Series pump and other Sta-Rite centrifugal pumps can be ordered with 50 cycle motors and with other design characteristics. Call Duff for complete information on Sta-Rite centrifugal pumps for specific applications.. on other equipment... or for any specific installation requirements.

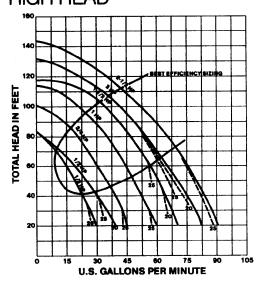
- *1/3 to 2 1/2 HP in either high head or medium head models, with heavy duty motors, easy service design, four position discharge and air volume control tapping.
- *Easy Serviceability All models include replaceable wear ring and feature back pull-out design.
- *Medium Head Models deliver up to 110' of head with capacities to 140 GPM.
- *High Head Models deliver up to 140' of head with capacities to 90 GPM.
- *J Series Feature Lexan Impellers Abrasion-resistant for normal applications, with working temperatures to 140 Deg. F.
- *JB Series Feature Brass Impellers for temperature applications up to 225 deg F. (JB Pumps als equipped with high temperature shaft seals.

MEDIUM HEAD



NOTE: Dotted lines indicate performance reduction at high suction lift

HIGH HEAD



MEDIUM HEAD

STA-RITE

HIGH HEAD

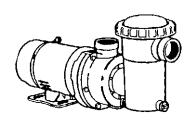
| HP | Lexan | Brass | Motor | Phase | Suct. | Disch. | Price | HP | Lexan | Brass | Motor | Phase | Suct. | Disch. | Price |
|------|----------|----------|---------|-------|-------|--------|-------|-------|----------|----------|---------|-------|-------|--------|-------|
| | Impeller | Impeller | Voltage | | | | | | Impeller | Impeller | Voltage | | | | |
| 1/3 | 10060 | 10552 | 115/230 | 1 | 1 | 1" | | 1/3 | 9799 | 9869 | 115/230 | 1 | 1 | 1" | |
| 1/2 | 10121 | 10575 | 115/230 | 1 | 1/4" | 1" | | 1/2 | 9814 | 9877 | 115/230 | 1 | 1/4" | 1" | |
| 1/2 | 10434 | 10581 | 230/460 | 3 | 1 | 1" | | 1/2 | 9819 | 9881 | 230/460 | 3 | 1 | 1" | |
| 3/4 | 10440 | 10587 | 115/230 | 1 | 1/4" | 1" | | 3/4 | 9822 | 9898 | 115/230 | 1 | 1/4" | 1" | |
| 3/4 | 10446 | 10593 | 230/460 | 3 | 1 | 1" | | 3/4 | 9828 | 9907 | 230/460 | 3 | 1 | 1" | |
| 1 | 10456 | 10596 | 115/230 | 1 | 1/4" | 1" | | 1 | 9832 | 9913 | 115/230 | 1 | 1/4" | 1" | |
| 1 | 10468 | 10599 | 230/460 | 3 | 1 | 1" | | 1 | 9836 | 9921 | 230/460 | 3 | 1 | 1" | |
| 11/2 | 10476 | 10603 | 115/230 | 1 | 1/4" | 1" | | 1 1/2 | 9845 | 9925 | 115/230 | 1 | 1/4" | 1" | |
| 11/2 | 10484 | 10611 | 230/460 | 3 | 1 | 1" | | 1 1/2 | 9847 | 9930 | 230/460 | 3 | 1 | 1" | |
| 2 | 10492 | 10615 | 115/230 | 1 | 1/4" | 1 | | 2 | 9853 | 49020 | 115/230 | 1 | 1/4" | 1 | |
| 2 | 10504 | 10618 | 230/460 | 3 | 1 | 1/4" | | 2 | 9856 | 49021 | 230/460 | 3 | 1 | 1/4" | |
| | | | | | | | | 21/2 | 9858 | 10036 | 115/230 | 1 | 1/4" | 1 | |
| | | | | | | | | 21/2 | 9864 | 10052 | 230/460 | 3 | 1 | 1/4" | |
| | | | | | | | | | | | | | | | |

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Please call for current prices.

PUMPS DUFF CO.



EASY RING-LOK BASKET STRAINER

JACUZZI PUMPS

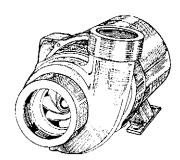
POOL, SPA & CHEMICAL TRANSFER

This self-priming centrifugal pump is suitable for use with saltwater, chemical transfer, and other applications that deal with corrosive substances.

Pumps available 1/2 HP through 3 HP. 115/230 Single Phase 208-230/460 Three Phase

MAGNUM Plus





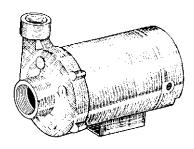
POOL, SPA & CHEMICAL TRANSFER

This flooded suction centrifugal pump is suitable for use with saltwater, chemical transfer and other applications that deal with corrosive substances.

1-1/2" MPT fits to accept a standard Jaccuzzi union or male pipe thread.

Pumps available 3/4 HP through 2 HP. 115 volts.



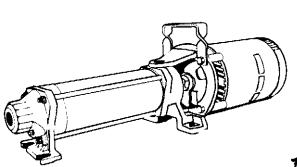


END SUCTION CENTRIFUGAL PUMP

For general industrial use, transfer, circulation or booster service. Available in ratings from 1/3 HP to 50 HP with capacities through 650 GPM and heads to 300 feet.

Heavy duty cast iron construction mechanical shaft seal handles. Water temperature up to 212°F.

All voltages available.



HIGH PRESSURE BOOSTER PUMP

This multi-purpose pump is ideal for boosting water pressure around the home, industry or farm and is constructed with field-proven SandHandler hydraulics. Available in a variety of sizes for many applications 1/3-3HP and 5, 10, 18 and 25 GPM performance ranges.

Making a Difference.

JACUZZI.

BERKLEY PUMPS

CENTRIFUGAL PUMPS

Berkeley provides a complete line of motor driven centrifugal pumps, water-cooled and air-cooled engine driven pumps, belt and coupling drives, and Tracto-Rain pumps for use with tractor power take-offs. Capacities up to 3700 GPM. These centrifugal pumps are also available in modified designs with special materials, or can be custom designed and manufactured to meet specific application requirements. The reliability of Berkeley centrifugals has been proved in thousands of installations.



VERTICAL AND SUBMERSIBLE TURBINES

The Berkeley deepwell turbine line includes the 3450 RPM Cavalier, vertical turbine fire pumps listed by Underwriters Laboratories (with 500 to 2500 GPM capacities) and enclosed line oillubricated, or open line waterlubricated shaft types. Submersible Turbines for 6 inch and larger wells are also available. Dependable Berkeley turbines meet the most rigid requirements for agricultural, commercial, industrial and municipal applications.





DEEPWELL TURBINES For 4 to 24 Inch Wells Capacities from 25 to 12,000 gallons per minute, at pumping levels to 1000 feet deep. Waterlubricated open line and oil-lubricated enclosed line shafts. Motor, pulley and gear drives, and combination drives also



NON-CLOG PUMPS

Available for wet pit installation in conventional and submersible types. For dry pit applications available for motor, engine, belt or coupling drive. Suction and discharge from 21/2" to 6", Motors to 15 HP.



PTO PUMPS

Trailer mounted pumping units powered by tractor takeoff. Pump may be tailored to application by choice of 5 step-up drive sizes. Capacities 300 to 2200 GPM with pressures up to 100 psi. Designed specifically for sprinkler and flood irrigation applications. In 3" through 6" sizes.



available.

2-STAGE CENTRIFUGAL

Higher pressures for fire, industrial, farm and general application. Motor, belt, or engine drive. Capacities 30 to 400 GPM with heads up to 650 feet, 1 to 40 HP. Maximum case pressures from 250 to 350 psi.



GRUNDFOS SERIES C CENTRIFUGAL PUMP

Boiler Feed Water and Condensate Return * Dearation * Jockey Pumps for Fire Protection * Water Treatment: RO, DI and Filtration * Car Wash Systems * Electronic Manufacturing * Parts Washers * Lumber and Mining * Petrochemical: Refinery and Offshore

Available 1/2 HP through 40 HP Available 5-400 gpm



TEFC AVAILABLE!

ALL VOLTAGES AVAILABLE!

GRUNDFOS VERSAFLO UPS, TP, LM & LP SERIES INLINE CIRCULATOR



HVAC * Cooling Towers * Food Processing - Cooling * Agriculture *
Greenhouse & Hydroponics * Liquid Transfer * Commercial Industrial * Boiler Condensate * HVAC Hot and Chilled Water * Hot
water Recirculation * Industrial Applications

Available 1/2 HP through 20 HP Available 25-380 gpm



TEFC AVAILABLE!

ALL VOLTAGES AVAILABLE!

GRUNDFOS SERIES HS CENTRIFUGAL PUMP



Water Circulation * Booster Service * Liquid Transfer * Air Conditioning * Water Supply * Filter Systems * Water Fountains * Cooling Machinery * Light Irrigation

OPEN DRIP PROOF & TEFC
MOTORS AVAILABLE!

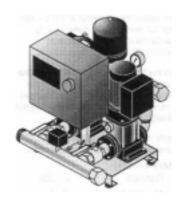
Available 1/2 HP through 7-1/2 HP Available 10-180 gpm

ALL VOLTAGES AVAILABLE!



Leaders in Pump Technology

BOOSTERPAQ For Booster Applications High-pressure booster systems





BOOSTER PUMPS

BoosterpaQ Features/Benefits

- Grundfos MGE, integrated variable frequency drive motors Provide much better system efficiency and pressure regulation than
 constant speed systems which use pressure control valves. MGE
 motors do not require a separate VFD package and are very quiet and
 compact.
- PFU2000/9 controller It is extremely simple to set the BoosterpaQ operating pressure. Simply adjust the potentiometer mounted on the PFU2000/9 until the pressure gauge reads the required pressure and your system is ready to maintain constant pressure over a wide range of flow demands. The inlet pressure switch provides low suction pressure and dry run protection. System status is easy to interpret (2 LEDs on the front panel), and an output alarm relay will trigger your alarm when the system needs attention.
- Control Panel The control panel is CUL Listed. The enclosure standard is NEMA 3R, options available.
- Grundfos vertical centrifugal pumps Grundfos multi-stage centrifugal pumps, models CRU (304 stainless and cast iron wetted parts) and CRNG (316 stainless wetted parts), provide a very small foot print package while offering high boosting pressures.
- Two system configurations offered as standard All models feature stainless steel base frame and control panel mount and a diaphragm tank. In addition, you select from either of the following standard system configurations:

Grundfos CRU model pumps with 304 stainless steel materials for piping, manifolds, and valves or:

Grundfos CRNG model pumps with all 316 stainless steel materials for piping, manifolds, and valves.

Outdoor protective housing - Available as an option.

COMPACT MULT-STAGE

CENTRIFUGAL PUMPS FOR MACHINE TOOL COOLANTS, EDM, INDUSTRIAL PARTS WASHERS AND BOILER CONDENSATE APPLICATIONS



SPK/CRK/CHK

| Models | HP Range | Discharge | Flow Range (GPM) |
|--------|------------------------------------|-----------|---------------------|
| CHK2 | 1/2, 3/4, 1, 1-1/2, 2 | 3/4" | 1.2-16 |
| CHK4 | 3/4, 1, 1-1/2, 2, | 3/4" | 3-40 |
| SPK1 | 1/6, 1/4, 1/3, 1/2, 3/4, 1, 1-1/2 | 1-1/4"* | 1-8 |
| SPK2 | 1/6, 1/4, 1/3, 1/2, 3/4, 1, 1-1/2 | 1-1/4"* | 3-13 |
| SPK4 | 1/6, 1/4, 1/3, 1/2, 3/4, 1, 1-1/2 | 1-1/4"* | 9-26 |
| SPK8 | 1/3, 1/2, 3/4, 1, 1-1/2 | 1-1/4" | 20-50 |
| CRK2 | 1/2, 3/4, 1, 1-1/2, 2, 3, 5 | 1-1/4" | 1.2-20 |
| CRK4 | 1/2, 3/4, 1-1/2, 2, 3, 5 | 1-1/4" | 3-40 |
| CRK8 | 3/4, 1, 1-1/2, 3, 5, 7-1/2, 10, 15 | 2" | 5.3-65 |
| CRK16 | 2, 5, 7-1/2, 10, 15, 20, 25 | 2" | 8.5-115 |
| | | | |

Materials of Construction

| Description | Material |
|--|----------------------------------|
| Shaft | 431 Stainless Steel (SPK/CHK) |
| | 316 Stainless Steel (CRK) |
| Impeller, Chambers, Suction | |
| Interconnector, Priming Screw, | |
| Strainer and Straps | 304 Stainless Steel |
| Motor Stool, Coupling | Cast Iron* |
| · - | (304 S.S. optional some models) |
| Seal Faces (CRK) | Carbon/Tungsten Carbide |
| Seal Faces (SPK, CHK) | Carbon/Ceramic |
| Intermediate Bearing | Ceramic |
| Bearing Rings | Tungsten Carbide |
| Impeller Seal Ring, | - |
| Neck Ring (CHK) | Ryton®/Teflon® |
| O-Ring | FPM |
| Ryton® is a registered trademark of Phillips Petro Teflon® is a registered trademark of Dupont. | oleum. |

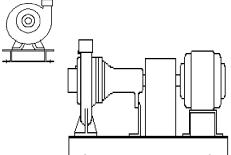
* 3/4" for SPK Mini

Model Range

For additional information call: 610-275-4453 or Fax: 610-279-6299.

Please call for current prices.

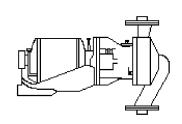
BELL & GOSSETT ITT CENTRIFUGAL PUMPS



B&G Series 1510 Pumps to 2500 GPM, 400 ft. Head, 100 HP

Single stage, vertical split-case design. Can be used for open or closed systems. Seal options: standard mechanical, flushed single or double and packing.

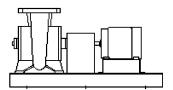




B&G Series 80 In-Line Pumps to 2500 GPM, 375 ft. Head, 60 HP

Compact vertical design saves space. Vertical or horizontal mounting in pipe saves installation time. Seal options: standard mechanical, flushed single or double and packing.

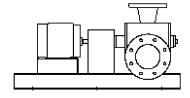




B&G Series VSC Pumps to 4000 GPM, 400 ft. Head, 200 HP

Single stage, double suction pump, saves up to 50% of floor space. Cuts piping requirements. Easily servicedwithout distrubing volute or motor. Seal options: standard mechancial, flushed single or double and packing.





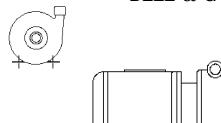
B&G Series VSCS PUMPS to 8000 GPM, 300 ft. Head, 2500 HP

Single stage, double suction pump same as VSC series except eith side suction and top discharge.



CALL DUFF NOW FOR YOUR PRICING AND AVAILABILITY! 610-275-4453

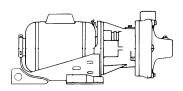
BELL & GOSSETT ITT CENTRIFUGAL PUMPS



B&G Series 1535 Pumps to 2300 GPM, 400 ft. Head, 50 HP

Uni-built close-coupled pump ruggedly constructed. Heavy duty motor has extra large shaft and oversized ball bearings and is available as open, enclosed or explosion-proof units. Serviceabboe without breaking pipe connections. Seal options: standard mechanical, flushed single or doulbe and packing.

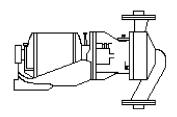




B&G Series 1522 Pumps to 140 GPM, 110 ft. Head, 2 HP

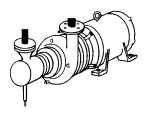
Ideal pump for cooling lower circulation and other refrigeration applications. Also extensively used as water pressure booster and industrial pumping duties. Amazingly quiet. Both pump and motor have bronze sleeve bearings. Time proven mechanical seal ends leakage troubles.





B&G Series 60 In-Line Pumps to 140 GPM, 56 ft. Head, 2 HP

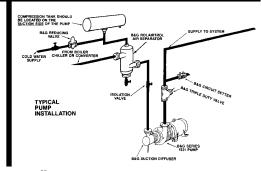
Compact space saving design with many exclusive B&G features. Quality sleeve bearing construction assures quiet trouble-free operation. Vertical split case construction design provides easy servicing. Inline mounting simplifies installation.



B&G Series 1531 Pumps to 2300 GPM, 400 ft. Head, 50 HP

Uni-built close coupled pump ruggedly constructed. Heavy duty motor has extra large shaft and oversize ball bearings and is available as open, enclosed or explosion proof units. Serviceable without breaking pipe connections. Seal options: standard mechanical, flushed single or double and packing.



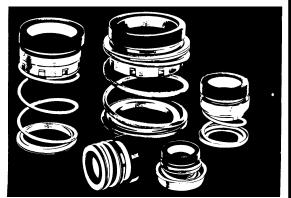


Page 394

For additional information call: 610-275-4453 or Fax: 610-279-6299. Please call for current prices.

PUMPS DUFF CO.

U S SEALS



COMPLETE STOCK!

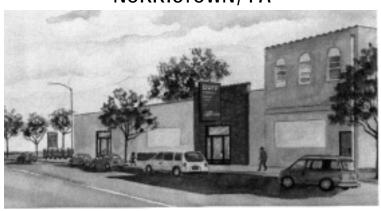
CALL WITH YOUR

REQUIREMENTS!

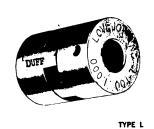
WE CAN MATCH ANY SAMPLE!

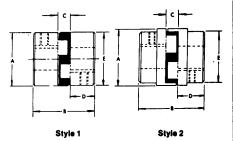
COME VISIT US!

YOU ARE ALWAYS WELCOME AT DUFF COMPANY! 201 EAST LAFAYETTE STREET NORRISTOWN, PA



LOVEJOY COUPLINGS





Must have shaft size of driver and driven! SEE
HEATING
SECTION
FOR
WOODS
AND B&G
COUPLINGS

| | ВС | RE | | DIMEN | SION IN | INCHES | | Complete (| Coupling | Spider | |
|---------|------|--------|--------------------|-----------------------|---------------------------------|------------------------|----------------|------------|----------|----------|-------|
| Style # | Min | Max | Outside Dia (A) | Overall Length (B) | Distance btwn flanges (C) | Lngth thru bore (D) | Hub Dia (E) | Fig. No. | Price | Fig. No. | Price |
| 1 | 1/8 | 3/8 | 5/8 | 13/16 | 9/32 | 17/64 | 5/8 | 10779 | | 10788 | |
| 1 | 1/4 | 5/8 | 15/64 | 1 23/32 | 15/32 | 5/8 | 1 5/64 | 10783 | | 10790 | |
| 1 | 1/4 | 3/4 | 1 23/64 | 2 | 1/2 | 3/4 | 1 23/64 | 10786 | | 10793 | |
| 1 | 1/4 | 7/8 | $1 \ 3/4$ | 2 1/8 | 1/2 | 13/16 | 1 3/4 | 10752 | | 10797 | |
| 1 | 1/4 | 1 | 2 7/64 | 2 1/8 | 1/2 | 13/16 | 27/64 | 47660 | | 39908 | |
| 1 | 7/16 | 1 1/8 | 2 7/64 | 2 1/2 | 1/2 | 1 | 2 7/64 | 10756 | | 10799 | |
| 1 | 1/2 | 1 3/16 | 2 17/32 | 2 7/8 | 3/4 | 1 1/16 | 2 17/32 | 10762 | | 10802 | |
| 1 | 1/2 | 1 3/8 | 2 17/32 | 31/2 | 3/4 | 1 3/8 | 2 17/32 | 10763 | | 10807 | |
| 1 | 5/8 | 1 5/8 | 35/16 | 4 1/4 | 7/8 | 1 11/16 | 35/16 | 10769 | | 10809 | |
| 1 | 5/8 | 1 7/8 | $3\ 3/4$ | 4 1/2 | 1 | 1 3/4 | $3 \ 3/4$ | 10772 | | 10813 | |
| 2 | 3/4 | 2 1/8 | 4 1/2 | 5 1/4 | 1 | 2 1/8 | 4 | 10775 | | 10816 | |
| 2 | 3/4 | 2 5/8 | 5 | 6 | 1 | 2 1/2 | 4 1/4 | 10778 | | 10819 | |

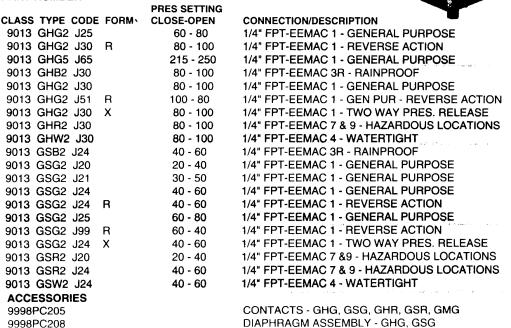
For additional information call: 610-275-4453 or Fax: 610-279-6299 Please call for current prices.

PUMPTROL

PUMPTROL® COMMERCIAL/LIGHT INDUSTRIAL PRESSURE SWITCHES - TYPES G

Reference Page #CP8-16 - Square D Mini Catalogue INDIVIDUALLY BOXED

PART NUMBER



FLOAT SWITCHES - TYPE D - OPEN TANK OR SUMP - CLASS 9035

Reference Page #CP8-23 - Square D Mini Catalogue

INDIVIDUALLY BOXED

PRICE UPON REQUEST

FLOAT SWITCHES - TYPES D & G - OPEN TANK OR SUMP - CLASS 9036

Reference Page #CP8-24 - Square D Mini Catalogue

INDIVIDUALLY BOXED

PART NUMBER

CONNECTION/DESCRIPTION

| | | | | CONTRACTOR CONTRACTOR |
|-------|--------|------|------|---|
| CLASS | TYPE (| CODE | FORM | |
| 9036 | DG2 | | | EEMAC 1 - CONTACTS CLOSE ON LIQUID RISE |
| 9036 | DG2 | | R | EEMAC 1 - CONTACTS OPEN ON LIQUID RISE |
| 9036 | GG2 | | | EEMAC 1 - CONTACTS CLOSE ON LIQUID RISE . |
| 9036 | GG2 | | R | EEMAC 1 - CONTACTS OPEN ON LIQUID RISE |
| 9036 | DW31 | | | EEMAC 4 - CONTACTS CLOSE ON LIQUID RISE |
| 9036 | GW1 | | | EEMAC 4 - CONTACTS CLOSE ON LIQUID RISE |
| 9036 | DR31 | | | EEMAC 7 & 9 - CONTACTS CLOSE ON LIQUID RISE |
| 9036 | GR1 | | | EEMAC 7 & 9 - CONTACTS CLOSE ON LIQUID RISE |

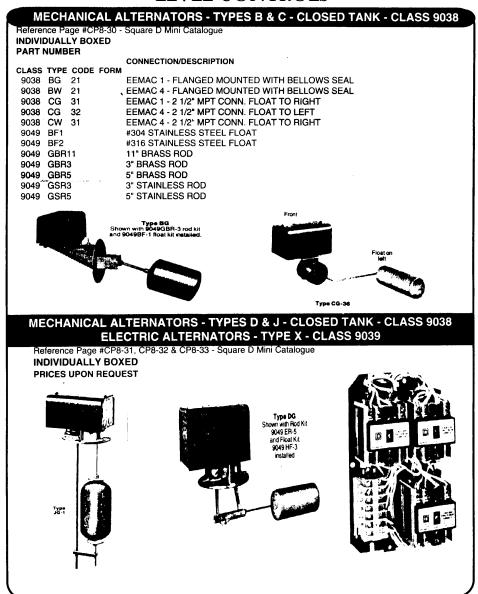


| 9049 A6C | 7" CENTER HOLE #304 S.S. FLOAT, 5' BRASS TUBING |
|-----------|---|
| 9049 A6CA | 7" CENTER HOLE #304 S.S. FLOAT, 5' ALUM TUBING |
| 9049 A6CS | 7" CENTER HOLE #316 S.S. FLOAT, 5' S.S. TUBING |
| 9049 A6 | 7" TAPPED AT TOP #304 S.S. FLOAT, 5' BRASS TUBING |
| 9049 A6A | 7" TAPPED AT TOP #304 S.S FLOAT, 5' ALUM TUBING |
| 9049 T1A | 2 1/2' ALUM TUBING AND CONNECTOR |
| 9049 T1 | 2 1/2' BRASS TUBING AND CONNECTOR |
| 9049 T1S | 2 1/2" S.S. TUBING AND CONNECTOR |





LEVEL CONTROLS



FLOATLESS LIQUID LEVEL CONTROL SYSTEMS



Provides automatic low level cut-off protection for submersible pumps and deep well turbines. Liquid level submersible pump control system consists of a standard enclosed type LH induction relay which operates from two type E1-S insulated electrodes suspended at desired levels. Properly installed, these components provide reliable automatic low level cut-off protection for submersible pumps and deep well turbines. Premits efficient operation at full capacity and eliminates danger of pumping air or sand.

TYPE LH RELAY - The HL Relay is rated 1 H.P. Single Phase, 110 or 220 volts and normally furnished in a Nema 1 Metal Enclosure. For control of a larger motor it can be used in conjunction with a magnetic starter that has overload protection.

TYPE DH RELAY - The DH Relay is a two way control system for pump up or pump down. Rated at H.P. Single Phase, 115 or 230 volts A

| | PART NO. | MODEL # | LINE VOLTAGE | SECONDARY DESCRIPTION/OPERATION COIL VOLT |
|----|----------|-------------------|-----------------|---|
| - | LH-115 | 1500-C-L1-S8-NI-X | 110/120V | 360V AC PUMP DOWN-SUBMERSIBLE |
| | LH-230 | 1500-C-L2-S8-NI-X | 208/240V | 360V AC PUMP DOWN-SUBMERSIBLE . |
| ٠. | RH-115 | 1500-D-L1-S8-NI-X | 110/120V | 360V AC PUMP UP - OPEN SYSTEM |
| | RH-230 | 1500-D-L2-S8-NI-X | 208/240V | 360V AC PUMP UP - OPEN SYSTEM |
| | DH-115 | 1500-G-L1-S8-NI-X | 110/120V | 360V AC PUMP UP/DOWN-SUBMERSIBLE & OPEN |
| | DH-230 | 1500-G-L2-S8-NI-X | 208/240V | 360V AC PUMP UP/DOWN-SUBMERSIBLE & OPEN |
| | | | | |

FLOAT SWITCHES

FLOAT SWITCHES - TYPES D, E - CLOSED TANK - CLASS 9037

Reference Page #CP8-26 - Square D Mini Catalogue

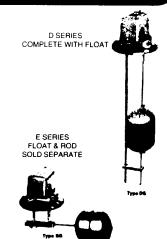
INDIVIDUALLY BOXED

PART NUMBER

9049 ER7

| CLASS | TYPE | CONNECTION/DESCRIPTION |
|-------|------|---|
| 9037 | DG1 | EEMAC 1 - CONTACTS CLOSE ON LIQUID RISE |
| 9037 | DG2 | EEMAC 1 - CONTACTS CLOSE ON LIQUID RISE |
| 9037 | DW1 | EEMAC 4 - CONTACTS CLOSE ON LIQUID RISE |
| 9037 | DW2 | EÈMAC 4 - CONTACTS CLOSE ON LIQUID RISE |
| 9037 | DR1 | EEMAC 7 & 9 - CONTACTS CLOSE ON LIQUID RISE |
| 9037 | DR2 | EEMAC 7 & 9 - CONTACTS CLOSE ON LIQUID RISE |
| 9037 | EG8 | EEMAC 1 - CONTACTS CLOSE ON LIQUID RISE |
| 9037 | EW8 | EEMAC 4 - CONTACTS CLOSE ON LIQUID RISE |
| 9037 | ER8 | EEMAC 7 & 9 - CONTACTS CLOSE ON LIQUID RISE |
| 9049 | EF1 | #304 S.S. FLOAT |
| 9049 | EF2 | #316 S.S. FLOAT |
| 9049 | FB3 | 3 1/4" STAINLESS STEEL BOD |

7 1/4" STAINLESS STEEL ROD



FLOAT SWITCHES - TYPES G - CLOSED TANK - CLASS 9037

Reference Page #CP8-27 - Square D Mini Catalogue

PART NUMBER - INDIVIDUALLY BOXED

| CLASS | TYPE | CONNECTION/DESCRIPTION |
|-------|------|--|
| 9037 | GG21 | EEMAC 1 - CONTACTS OPEN ON LIQUID RISE |
| 9037 | GG22 | EEMAC 1 - CONTACTS OPEN ON LIQUID RISE |
| 9037 | GW21 | EEMAC 4 - CONTACTS OPEN ON LIQUID RISE |
| 9037 | GR21 | EEMAC 7&9-CONTACTS OPEN ON LIQUID RISE |
| 9049 | GBR3 | 3" BRASS ROD |
| 9049 | GBR5 | 5" BRASS ROD |
| 9049 | GF1 | 4" DIAMETER BALL FLOAT #304 S.S. |
| 9049 | GF2 | #316 STAINLESS STEEL FLOAT |
| 9049 | GSR3 | 3" STAINLESS STEEL ROD |
| 9049 | GSB5 | 5" STAINLESS STEEL BOD |



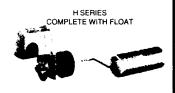
FLOAT SWITCHES - TYPES H - CLOSED TANK - CLASS 9037

Reference Page #CP8-28 - Square D Mini Catalogue

PART NUMBER - INDIVIDUALLY BOXED

CONNECTION/DESCRIPTION TYPE CODE FORM

| CLASS | TABE CODE | FORM | |
|-------|-----------|------|--|
| 9037 | HG33 | | EEMAC 1 - CONTACTS CLOSE ON LIQUID RISE |
| 9037 | HG33 | R | EEMAC 1 - CONTACTS OPEN ON LIQUID RISE |
| 9037 | HG31 | | EEMAC 1 - CONTACTS CLOSE ON LIQUID RISE |
| 9037 | HG31 | R | EEMAC 1 - CONTACTS OPEN ON LIQUID RISE |
| 9037 | HG34 | | EEMAC 1 - CONTACTS CLOSE ON LIQUID RISE |
| 9037 | HG37 | | EEMAC 1 - CONTACTS CLOSE ON LIQUID RISE |
| 9037 | HR33 | | EEMAC 7 & 9 - CONTACTS CLOSE ON LIQUIID RISE |
| 9037 | HW33 | | EEMAC 4 - CONTACTS CLOSE ON LIQUID RISE |
| 9049 | HF3 | | #304 STAINLESS STEEL FLOAT |



MECHANICAL ALTERNATORS - TYPES A - OPEN TANK - CLASS 9038

Reference Page #CP8-29 - Square D Mini Catalogue

PART NUMBER - INDIVIDUALLY BOXED

CONNECTION/DESCRIPTION

#316 STAINLESS STEEL FLOAT

CLASS TYPE CODE FORM
9038 AG1 EEMAC 1 - FLOAT OPERATED ALTERNATOR
9038 AW1 EEMAC 4 - FLOAT OPERATED ALTERNATOR
9038 AG1N5 EEMAC 1 - FLOAT OPERATED ALTERNATOR

WITH HIGH WATER ALARM CIRCUIT

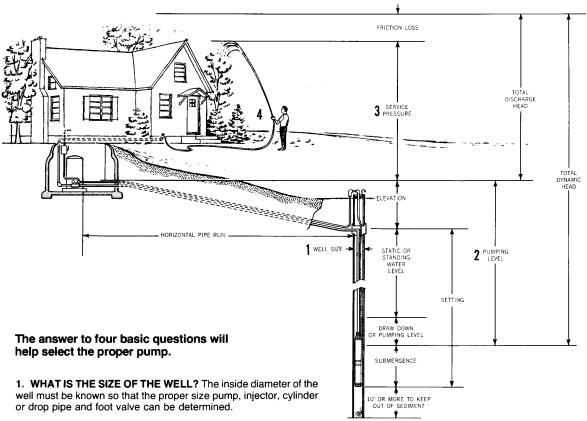
9049 UMS1 UNIVERSAL MOUNTING BRACKET

9049 A15 COMPENSATING SPRING



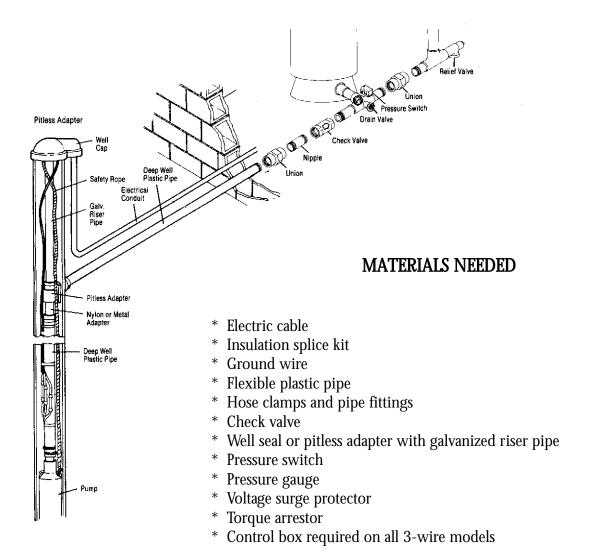
9049 HF4

HOW TO SELECT THE CORRECT SUBMERSIBLE PUMPING EQUIPMENT



- 2. WHAT IS THE PUMPING LEVEL? The vertical distance in feet from the pump to the water level while the pump is operating. If the pump is installed away from the well and is on higher ground, this elevation must also be included. Most wells draw down while being pumped so this must not be confused with the standing water level.
- 3. WHAT SHOULD BE THE AVERAGE DISCHARGE PRES-SURE? Usual average discharge pressure is 30 lbs.—halfway between the 20 lb. to 40 lb. switch setting of most water systems. When the tank is installed away from the pump at a higher level, or when house or yard fixtures are above the pump and tank, a greater pressure is needed and a larger pump must be used.
- **4. WHAT CAPACITY IS REQUIRED?** The discharge capacity of the pump in gallons per hour that is needed for satisfactory service. The pump should have enough capacity so that it does not need to work more than the equivalent in intermittent service of 2 hours per day. See table of water requirements at right.

BASIC SUBMERSIBLE PUMP INSTALLATION



CONTACT US FOR A COMPLETE CATALOG ON GRUNDFOS, REDJACKET OR JACUZZI!

GRUNDFOS PUMP SELECTION GUIDE

STANDARD SETTINGS

| MODEL | MIN. WELL SIZE | FLOW RANGE (GPM) | MAX WORKING HEAD (FEET) | MAX. WORKING HEAD (PSI) |
|-------|-------------------|------------------------|----------------------------------|-------------------------------|
| 5S | 4" | 1.2-7 | 870 | 377 |
| 7S | 4" | 3-10 | 680 | 2794 |
| 10S | 4" | 5-14 | 950 | 411 |
| 16S | 4" | 10-20 | 990 | 429 |
| 25S | 4" | 18-32 | 630 | 273 |
| 40S | 4" | 24-55 | 755 | 327 |
| 60S | 4" | 40-75 | 505 | 219 |
| 75S | 4" | 45-95 | 460 | 199 |



FEATURES

Smooth safety hook prevents frayed safety line.

Built-in, jam free checkvalve designed for failsafe operation.

Snapguard cable guard is designed for installation and removal. Hold tight and provides maximum protection to motor leads.

Precision Form impellers are fabricated from stainless steel to provide long

pump life, maximum hydraulic efficiency and top pump performance.

Exclusive prime inducer provides maximum pump protection from dry-run damage during low water situations.

Pump inlet is totally screen to prevent damage from debris.

All Grundfos submersibles are performance tested at the factory to verify specified performance.

DEEP SETTINGS

| MODEL | MIN. WELL SIZE | FLOW RANGE (GPM) | MAX. WORKING HEAD (FEET) | MAX. WORKING HEAD (PSI) |
|----------|----------------------|------------------------|-----------------------------------|-------------------------------|
| 5S-DS | 4" | 1.2-7 | 1330 | 576 |
| 10S-DS | 4" & 5" | 5-14 | 1550 | 671 |
| 16S-DS | 6" | 10-20 | 1980 | 857 |
| 25S-DS | 6" | 18-32 | 1255 | 543 |
| 40S-DS | 6" | 24-55 | 1655 | 716 |
| 80S-DS | 6" & 8" | 48-110 | 1745 | 755 |
| 135S-DS | 6" & 8" | 75-200 | 1910 | 827 |
| 225S-DS | 8" | 150-290 | 1220 | 528 |
| 375S-DS | 8" | 230-500 | 1080 | 467 |
| 600S-DS | 10" | 350-500 | 590 | 255 |
| 1000S-DS | 10" | 600-1300 | 860 | 372 |



GRUNDFOS SUBMERSIBLE PUMPING SYSTEMS 4-INCH AND LARGER WELLS

| 5 GP 5503-9 1/3 1 115 3 5503-9 230 3 5505-13 1/2 1 115 3 | 2-WIRE 3-W FIG. PRICE FIG. NO. NO. M 39346 39380 39347 39381 39348 39382 39349 39383 | PRICE | TYPE 7S03-8 | НР | PH | VOIT | FIG. NO. | PRICE FIG | | |
|---|---|-------|-----------------------|-------|----|------------|-------------|------------|----|--|
| 5 GP 5503-9 1/3 1 115 3 5503-9 230 3 5505-13 1/2 1 115 3 | NO. NO. NO. M 89346 39380 89347 39381 89348 39382 | | | | | | | | | |
| 5S03-9 1/3 1 115 3 5S03-9 230 3 5S05-13 1/2 1 115 3 | 39346 39380 39347 39381 39348 39382 | | 7\$03-8 | | | γ | | | • | |
| 5S03-9 230 3 5S05-13 1/2 1 115 3 | 39347 39381 39348 39382 | | 7S03-8 | | | 7 G I | PM | | | |
| 5S03-9 230 3 5S05-13 1/2 1 115 3 | 39347 39381 39348 39382 | | 7500 0 | 1/3 | 1 | 115 | 39354 | 393 | 72 | |
| 5S05-13 1/2 1 115 3 | 39348 39382 | | 7S03-8 | 1/3 | 1 | 230 | 39355 | 393 | | |
| | 39349 39383 | | 7S05-11 | 1/2 | 1 | 115 | 39356 | 393 | | |
| 5S05-13 230 3 | 70010 00000 | | 7S05-11 | 1, ~ | • | 230 | 39357 | 393 | | |
| 5S07-18 3/4 1 230 3 | 39350 39384 | | 7S07-15 | 3/4 | 1 | 230 | 39358 | 393 | | |
| 5S10-22 1 1 230 3 | 39351 39385 | | 7S10-19 | 1 | 1 | 230 | 39359 | 393 | | |
| | 39352 39386 | | 7S15-26 | 1 1/2 | 1 | 230 | 39360 | 393 | | |
| 5S15-26 3 230 | 39387 | | 7S15-26 | | 3 | 230 | | 393 | 99 | |
| 5S15-26 3 460 | 39388 | | 7S15-26 | | 3 | 460 | | 394 | 00 | |
| | 39353 39389 | | | | | 16 G | PM | | | |
| 5\$15-31 3 230 | 39390 | | 16S05-5 | 1/2 | 1 | 115 | 39368 | 394 | 16 | |
| 5\$15-31 3 460 | 39391 | | 16S05-5 | 1/2 | 1 | 230 | 39369 | 394 | | |
| 1 0 G I | P M | | 16S07-8 | 3/4 | 1 | 230 | 39370 | 394 | | |
| | 39361 39401 | | 16S10-10 | 1 | 1 | 230 | 39371 | 394 | | |
| 1 | 39362 39402 | | 16S15-14 | 1 1/2 | 1 | 230 | 39372 | 394 | | |
| 1 | 39363 39403 | | 16S15-14 | | 3 | 230 | | 394 | | |
| | 19834 49223 | | 16S15-14 | | 3 | 460 | | 394 | | |
| | 39365 39405 | | 16S20-18 | 2 | 1 | 230 | | 394 | 23 | |
| | 39366 39406 | | 16S20-18 | | 3 | 230 | | 394 | 24 | |
| 10S15-21 1 1/2 1 230 3 | 39367 39407 | | 16S20-18 | | 3 | 460 | | 394 | 25 | |
| 10S15-21 3 230 | 39408 | | 16S30-24 | 3 | 1 | 230 | | 394 | 26 | |
| 10S15-21 3 460 | 39409 | | 16S30-24 | | 3 | 230 | | 394 | 27 | |
| 10S20-27 2 1 230 | 39410 | | 16S30-24 | | 3 | 460 | | 394 | | |
| 10S20-27 3 230 | 39411 | | 16S50-38 | 5 | 1 | 230 | | 394 | | |
| 10S20-27 3 460 | 39412 | | 16S50-38 | | 3 | 230 | | 394 | | |
| 10S30-34 3 1 230 | 39413 | | 16S50-38 | | 3 | 460 | | 394 | 31 | |
| 10\$30-34 3 230 | 39414 | | | | 4 | 40 G | PM | | | |
| 10\$30-34 3 460 | 39415 | | 40S10-3 | 1 | 1 | 230 | 27143 | 271 | 44 | |
| 25 GP | 'M | | 40S15-5 | 1 1/2 | 1 | 230 | | | | |
| 25\$05-3 1/2 1 115 3 | 39373 39432 | | 40S15-5 | | 3 | 230 | | 271 | 47 | |
| 25\$05-3 230 3 | 39374 39433 | | 40S15-5 | | 3 | 460 | | 271 | | |
| 25\$07-5 3/4 1 230 3 | 39375 39434 | | 40S20-7 | 2 | 1 | 230 | | 271 | 49 | |
| | 39376 39436 | | 40S20-7 | | 3 | 230 | | 271 | | |
| | 39377 39436 | | 40S20-7 | | 3 | 460 | | 271 | | |
| 25\$15-9 3 230 | 39437 | | 40S30-9 | 3 | 1 | 230 | | 271 | | |
| 25\$15-9 3 460 | 39438 | | 40S30-9 | | 3 | 230 | | 271 | | |
| 25\$20-11 2 1 230 | 39439 | | 40S30-9 | | 3 | 460 | | 271 | | |
| 25S20-11 3 230 | 39440 | | 40S50-12 | 5 | 1 | 230 | | 271 | | |
| 25S20-11 3 460 | 39441 | | 40S50-12 | | 3 | 230 | | 271 | | |
| 25S30-15 3 1 230 | 39442 | | 40S50-12 | | 3 | 460 | | 271 | | |
| 25\$30-15 3 230 | 39443 | | 40S50-15 | 5 | 1 | 230 | | 271 | | |
| 25\$30-15 3 460 | 39444 | | 40S50-15 | | 3 | 230 460 | | 271 271 | | |
| 25S50-26 5 1 230 25S50-26 3 230 | 39445 | | 40S50-15 40S75-21 | 7 1/2 | 3 | 230 | | 271 271 | | |
| 25S50-26 3 230 25S50-26 3 460 | 39446 39447 | | 40S75-21 40S75-21 | 1 1/2 | 3 | 460 | | 271 271 | | |
| 3 400 | 39447 | | 40375-21 | 7 1/9 | | 230 | | 271 | | |
| | | | 40275-25 | | 3 | 460 | | 271 | | |
| | | | 40273-23 40S100-30 | III | 3 | 460 | | 271 | | |
| | | | | | | | | | | |

GRUNDFOS SUBMERSIBLE PUMPING SYSTEMS 4-INCH AND LARGER WELLS,

| | | | | 2-W | /IRE | 3-W | TRE | | | | | 2-W | /IRE | 3-W | IRE |
|------------|--------|----|------|-------------|-------|-------------|-------|-----------|-------|----|-------|-------|-------|-------|-------|
| TYPE | HP | PH | VOIT | FIG. NO. | PRICE | FIG. NO. | PRICE | TYPE | HP | PH | VOLT | FIG. | PRICE | FIG. | PRICE |
| | | | 60 G | P M | | NO. | | | | | 7 F C | NO. | | NO. | |
| 60S20-4 | 2 | 1 | 230 | | | 39470 | | | | | 75 G | P IVI | | | |
| 60S20-4 | | 3 | 230 | | | 39471 | | 75S20-3 | 2 | 1 | 230 | | | 39485 | |
| 60S20-4 | | 3 | 460 | | | 39472 | | 75S20-3 | | 3 | 230 | | | 39486 | |
| 60S30-5 | 3 | 1 | 230 | | | 39473 | | 75S20-3 | | 3 | 460 | | | 39487 | |
| 60S30-5 | | 3 | 230 | | | 39474 | | 75S30-5 | 3 | 1 | 230 | | ; | 39488 | |
| 60S30-5 | | 3 | 460 | | | 39475 | | 75S30-5 | | 3 | 230 | | ; | 39489 | |
| 60S50-7 | 5 | 1 | 230 | | | 39476 | | 75S30-5 | | 3 | 460 | | ; | 39490 | |
| 60S50-7 | | 3 | 230 | | | 39477 | | 75S50-8 | 5 | 1 | 230 | | ; | 39491 | |
| 60S50-7 | | 3 | 460 | | | 39478 | | 75S50-8 | | 3 | 230 | | ; | 39492 | |
| 60S50-9 | 5 | 1 | 230 | | | 39479 | | 75S50-8 | | 3 | 460 | | ; | 39493 | |
| 60S50-9 | 3 | 3 | 230 | | | 39480 | | 75S75-12 | 7 1/2 | 3 | 230 | | ; | 39494 | |
| 60S50-9 | | 3 | 460 | | | 39481 | | 75S75-12 | | 3 | 460 | | ; | 39495 | |
| | 7 1 /9 | 3 | | | | | | 75S100-16 | 10 | 3 | 460 | | ; | 39496 | |
| 60S75-13 | 1 1/2 | - | 230 | | | 39482 | | | | | | | | | |
| 60S75-13 | | 3 | 460 | | | 39483 | | | | | | | | | |
| 60\$100-18 | 10 | 3 | 460 | | | 39484 | | | | | | | | | |
| | | | | | | | | | | | | | | | |

Redi-Flo...the industry's choice for environmental applications



Environmental Engineers Specify the Pump they've Relied on for Years...GRUNDFOS

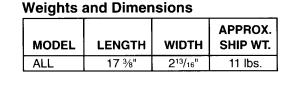
Typical Applications Include Well Purging and Water Table Depression

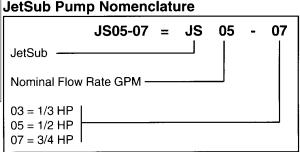
FOR MORE INFORMATION VISIT OUR ENVIRONMENTAL SECTION!

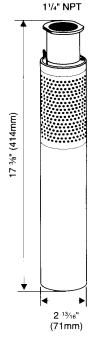
3" JET SUB

| FIG. NO. | MDL | MTR HP | SF | AMPS | PRICE |
|-------------|---------|-----------|------|------|-------|
| 47837 | JS05-03 | 1/3 | 1.75 | 7 | |
| 47839 | JS05-05 | 1/2 | 1.6 | 9 | |
| 47840 | JS05-07 | 3/4 | 1.5 | 11 | |
| 47841 | JS07-03 | 1/3 | 1.75 | 7 | |
| 47842 | JS07-05 | 1/2 | 1.6 | 9 | |
| 47843 | JS07-07 | 3/4 | 1.5 | 11 | |
| 47844 | JS10-03 | 1/3 | 1.75 | 7 | |
| 47845 | JS10-05 | 1/2 | 1.6 | 9 | |
| 47846 | JS10-07 | 3/4 | 1.5 | 11 | |
| 47847 | JS16-05 | 1/2 | 1.6 | 9 | |
| 47848 | JS16-07 | 3/4 | 1.5 | 11 | |

^{*} Measurement taken with RMS instrument







CALL DUFF FIRST FOR ALL YOUR PUMP NEEDS 610-275-4453

3" SUBMERSIBLE PUMP

Submersible Pumps vs. Jet Pumps

Submersible and jet pumps are both used in domestic groundwater systems. When high flow rates and pressure settings are required at high operating efficiencies, submersible pumps are generally preferred. Submersible pumps have the advantage of performing well both in shallow well applications as well as at depths to 2,000 feet. An extensive range of submersible pump models is also available allowing a precise match to exact system requirements.

Convertible jet pumps are sometimes an economical alternative to submersibles, especially in shallow well installations of 25 feet or less. The pumps are less expensive, installation is simplified, and they are easily converted for deep well installations down to 100 feet (Figure 8-H).

In "weak" well applications where the pump lowers the water level in the well faster than the well can replenish itself, a deep well jet pump with a tail pipe is particularly effective when flow requirements are relatively small. By adding 35 feet of tail pipe below the jet assembly with the foot valve attached to the bottom, it will not be possible to pull the well down and allow air to enter the system. Pump delivery remains at 100% of the rated capacity down to the level of the jet assembly. If the water level falls below that point, flow decreases in proportion to the drawdown as shown in Figure 8-I. When pump delivery equals well inflow, the water level remains constant until the pump shuts off. At 33.9 feet of drawdown the pump will no longer deliver water but the foot valve will remain fully submerged.

GRUNDFOS JETSUB SELECTION CHART JetSub Selection Charts (Ratings are in GALLONS PER HOUR—GPH)

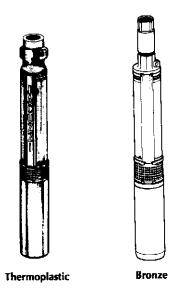
SELECTION CHARTS

PUMP OUTLET 1 1/4"

(Ratings are in GALLONS PER HOUR-GPH)

| ` | | | | | , | | | | | | | | |
|-----------------------|-----|--------------|--|-------|------|--|--|----------|--------------|--------------|----------|--|--|
| | DI | EPTH | TO PUI | MPING | WAT | ER LE | VEL (L | IFT) IN | FEET | | | | |
| PUMP MODEL | | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 |
| JS05-03 | 30 | 480 | 432 | 384 | 330 | 264 | 198 | 120 | 1.00 | | 200 | 220 | 240 |
| | 40 | 480 | 372 | 312 | 246 | 168 | 90 | - 20 | | | | | |
| • | 50 | 354 | 300 | 240 | 156 | 90 | - 33 | | | | | | |
| | 60 | 282 | 22 | 156 | 90 | - 50 | ! | | | | | <u> </u> | |
| | | | | | | | | | | | | | |
| PUMP MODEL | PSI | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 |
| JS05-05 | 30 | | 480 | 438 | 396 | 360 | 324 | 276 | 234 | 198 | .156 | 102 | |
| | 40 | 474 | 420 | 384 | 342 | 288 | 258 | 222 | 180 | 138 | 96 | 66 | |
| | 50 | 408 | 384 | 324 | 288 | 258 | 210 | 174 | 138 | 96 | 54 | | |
| | 60 | 384 | 336 | 288 | 258 | 210 | 174 | 156 | 96 | 48 | | | |
| PUMP MODEL | PSI | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 |
| JS05-07 | 30 | | | | | | 456 | 402 | 372 | 336 | 300 | 276 | 234 |
| | 40 | | | | | 432 | 396 | 354 | 324 | 282 | 252 | 228 | 204 |
| | 50 | | | 480 | 432 | 390 | 354 | 324 | 282 | 252 | 222 | 210 | 174 |
| | 60 | | 474 | 426 | 384 | 366 | 324 | 282 | 252 | 222 | 204 | 168 | 150 |
| PUMP MODEL | PSI | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 |
| JS07-03 | 30 | | 70 | 438 | 354 | 240 | 120 | 170 | 100 | 100 | 200 | 220 | 240 |
| 0007-00 | 40 | - | 420 | 324 | 198 | 240 | 1 | | | | - | | - |
| | 50 | - | 300 | 180 | 130 | L | - | | | - | | - | - |
| | 60 | 300 | 168 | IDV . | | | - | | - | - | - | - | - |
| | - | | | | | 45 - | 45- | 40- | 45. | | | | <u>.</u> |
| PUMP MODEL | PSI | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 |
| JS07-05 | 30 | | | ļ | 456 | 432 | 378 | 336 | 282 | 2222 | 144 | | ļ |
| | 40 | | | 450 | 408 | 372 | 330 | 270 | 210 | 102 | | | |
| | 50 | | 438 | 402 | 372 | 312 | 258 | 210 | 102 | | | | |
| | 60 | 444 | 408 | 372 | 312 | 258 | 210 | | | | | | |
| PUMP MODEL | PSI | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 |
| JS07-07 | 30 | | | | | | | 462 | 438 | 402 | 378 | 342 | 306 |
| | 40 | | | | | | 462 | 438 | 396 | 366 | 330 | 306 | 258 |
| | 50 | | | | | 456 | 432 | 396 | 360 | 324 | 282 | 252 | 210 |
| | 60 | 1 | | | 450 | 432 | 396 | 366 | 330 | 282 | 252 | 210 | 156 |
| PUMP MODEL | PSI | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 |
| JS 10-03 | 30 | 678 | 582 | 438 | | 1 | | | | | 1 | | |
| | 40 | 558 | 420 | | | | | | | | <u> </u> | | t |
| | 50 | 360 | 7-2-3 | | | | | <u> </u> | | | | - | |
| | 60 | | | | | | | | <u> </u> | | | ļ | |
| DUMP MODEL | | | 10 | | | 100 | 100 | 440 | 400 | 400 | 200 | 000 | 0.40 |
| PUMP MODEL JS10-05 | PSI | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 |
| JS 10-05 | 30 | | | 666 | 606 | 540 | 414 | 336 | | | _ | | ļ |
| | 40 | 714 | 660 | 588 | 516 | 420 | 306 | ļ | | | | | <u> </u> |
| | 50 | 648 | 582 | 516 | 414 | 276 | | | L | ļ | ļ | | |
| | 60 | 582 | 510 | 414 | 276 | | | | | | | | |
| PUMP MODEL | PSI | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 |
| JS 10-07 | 30 | | | | | 720 | 642 | 594 | 534 | 462 | 414 | 312 | |
| | 40 | I | I | | 696 | 642 | 570 | 522 | 456 | 396 | 306 | 210 | |
| | 50 | Ī | Ī | 690 | 636 | 582 | 516 | 450 | 360 | 288 | 186 | | |
| | 60 | | 684 | 624 | 576 | 522 | 438 | 366 | 294 | 180 | | | |
| PUMP MODEL | PSI | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 |
| JS 16-05 | 30 | 1056 | 936 | 780 | 648 | 450 | | . +0 | .50 | | + | | + |
| · | 40 | 894 | 768 | 606 | 372 | | + | | | - | - | | 1 |
| | 50 | 726 | 546 | 342 | U/ E | - | - | - | | | <u> </u> | | |
| | 60 | 546 | 318 | UP42 | - | - | - | | | | - | - | - |
| B | - | | - | - | - | 45.5 | 45.5 | | 45. | 45. | | | . |
| PUMP MODEL | | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 |
| JS 16-07 | 30 | 1158 | 1086 | 1014 | 912 | 810 | 714 | 588 | 456 | 300 | | | <u> </u> |
| | 40 | 1074 | 990 | 900 | 804 | 672 | 558 | 420 | 252 | <u> </u> | | | |
| | 50 | 966 | 858 | 792 | 660 | 540 | 384 | 210 | | | | | ļ |
| | 60 | 858 | 768 | 648 | 534 | 378 | | 1 | 1 | 1 | 1 | 1 | 1 |

JACUZZI SUBMERSIBLE PUMPS

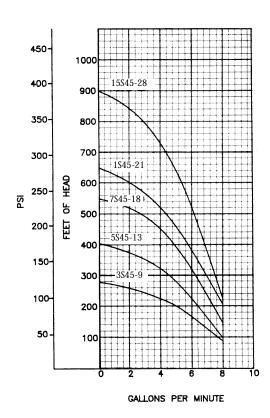


SandHandler™ 4" Submersible Pumps

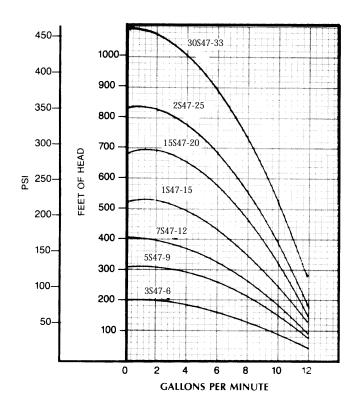
- Available in bronze and stainless steel or thermoplastic and stainless steel.
- Ceramic shaft sleeve and rubber discharge bearing reduces sand wear.
- Thermoplastic impellers and stages for maximum efficiency.
- Bronze model includes seperate external check valve.
- Thermoplastic model includes built-in check valve.
- Available in 5 to 25 gpm models.

JACUZZI

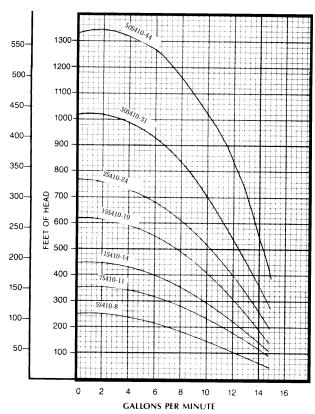
JACUZZI SANDHANDLER 5 GPM

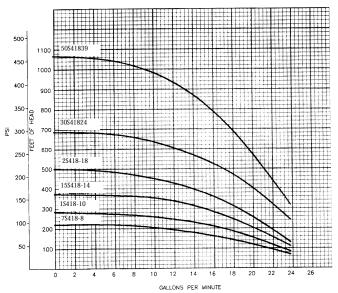


JACUZZI SANDHANDLER 7 GPM

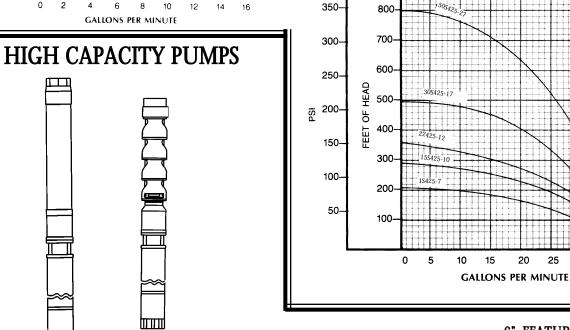


JACUZZI SANDHANDLER 18 GPM JACUZZI SANDHANDLER 10 GPM





JACUZZI SANDHANDLER 25 GPM





25

30

35

*Cast iron discharge head and motor bracket

*3 performance ranges - 45, 60 & 90 GPM

*High flow impellers and stages are glass filled noryl for maximum efficiency

4" FEATURES

*Ceramic shaft sleeve and rubber discharge bearing reduces sand wear

*Floating eye and hub seals for improved performance and efficiency.

*Stainless steel hex pump shaft, shell and shaft coupling.

*High capacity upthrust assembly for protection during start-up and operation

*Powered by Franklin's corrosion resistant 4" submersible motors 2" discharge

For additional information call: 610-275-4453 or Fax: 610-279-6299 Please call for current prices.

Designed for farm, irrigation, industry, municipal and commercial use. The 6" submersible turbine is available in 6 different performances from 90 GPM to 500 GPM ranging from 7 1/2 to 60 HP.







If you are a home owner needing a submersible pump, there are several things you expect:

- Performance that delivers the water you want at the pressure you need.
- A quality, non-corrosive, durable product.
- Environmentally conscious, lead-free construction.
- Economical pricing.

With the Jacuzzi Hurricane submersible pump that's what you get!



The HURRIGANE Submersible Pump by JACUZZI

PUMPS DUFF CO

HYDROSERVANT I REGULATING VALVES



Nothing burns out a pump motor quicker than heat from frequent starts and stops. Momentary power required to start a motor generates high heat that can build up and cause deterioration of motor windings.

Red Jacket's HydroServant I regulating valves eliminates this rapid-cycling condition. It allows the pump to run under water demand conditions as slow as a half gallon per minute. The HydroServant I creates a delay between starts, even when faucets are quickly opened and closed. That's the reason behind its popularity as it minimizes starting and stopping of the pump, to assure even water pressure. HydroServant I assures far less cycling during a typical day than other regulating devises, but will allow the pump to run as long as there is a demand for water. the pump cuts off when pressure reaches a predetermined level, keeping constant pressure in the system when there is no water demand.

FOR CAPACITIES UP TO 20 GPM

Provides constant water pressure Ends pressure variations Eliminates rapid-cycling Compact, space saving design Economical tank package alternative

ALSO IDEAL FOR THE FOLLOWING APPLICATIONS

Booster pump on low demand and volume water systems Restricted storage areas such as trailer or mobile home water systems Condominium water systems

Summer resort homes

FIG. NO. PRICE 10945

HYDROSERVANT II Regulating valves

FOR CAPACITIES FROM 30 TO 300 GPM

Regulates pressure in larger capacity systems Maintains constant pressure output Cost less than pressure tank systems of equivalent size or larger

Eliminates rapid-cycling

ALSO IDEAL FOR THE FOLLOWING APPLICATIONS

Sprinkler irrigation installations Small community water systems Industrial/Commercial plant water systems Cooling tower installations



The HydroServant II features a pressurized air chamber with a sensitive pressure switch which activates the pump to maintain both pressure and volume. The pump operates as long as there is a demand on the system, even at levels as low a 30 GPM, and shuts off only when demand is withdrawn. The HydroServant II drastically reduces rapid-cycling, m which is a major cause of motor winding burn-out.

Conventional hydro-pneumatic tank systems in high-capacity applications can be replaced by a HydroServant II installation.





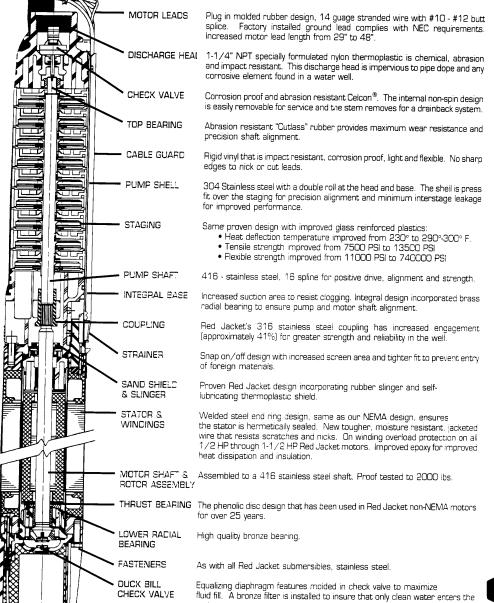


| FIG. NO. | PRICE |
|----------|-------|
| 61440 | |

REDJACKET®

DUFF CO. PUMPS

GRIZZLY BY RED JACKET



Reinforced Noryl for strength.

CAPACITOR

HOUSING

The Red Jacket 2-wire and 3-wire GRIZZLY is the most advanced pump on the market today. At Red Jacket, we believe the best way to build top quality products is to manufacture them ourselves. Red Jacket is one of the few remaining American companies that designs and manufactures its own motors. This ability allows us to perfectly match our pumps and motors to give maximum performance.

Our 208/230 volt motor is the only standard dual rated motor in the industry. When voltage supplies are not a consistent 230 volts, as in some rural applications, our motor will continue to operate efficiently, unlike the motors of our competitors.

The continuous duty capacitor on our 2-wire motors provides quiet operation and lower operating costs.

All Red Jacket submersible pumps are American made at our modern manufacturing facility in Davenport, Iowa.

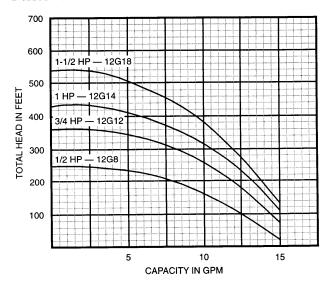


| GPM | HP | VOLTAGE | 2-WIRE FIG. NO. | PRICE | 3-WIRE FIG. NO. | PRICE |
|--------|-------|---------|--------------------|-------|--------------------|-------|
| 6 GPM | 1/2 | 230 | 73018 | | 73039 | |
| 6 GPM | 3/4 | 230 | 73019 | | 73040 | |
| 6 GPM | 1 | 230 | 73020 | | 73035 | |
| 8 GPM | 1/2 | 230 | 73022 | | 73042 | |
| 8 GPM | 3/4 | 230 | 73023 | | 73043 | |
| 8 GPM | 1 | 230 | 73024 | | 73044 | |
| 12 GPM | 1/2 | 115 | 73026 | | 73046 | |
| 12 GPM | 1/2 | 230 | 73027 | | 73048 | |
| 12 GPM | 3/4 | 230 | 73028 | | 73049 | |
| 12 GPM | 1 | 230 | 73029 | | 73050 | |
| 20 GPM | 1 | 230 | 72023 | | 73056 | |
| 20 GPM | 1 1/2 | 230 | 72024 | | 73058 | |
| 25 GPM | 1 | 230 | 73036 | | 73059 | |
| 25 GPM | 1 1/2 | 230 | 73037 | | 73060 | |

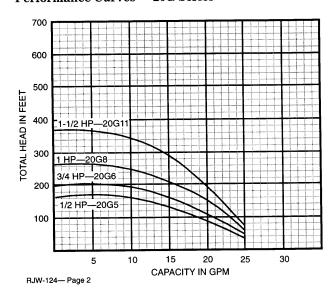
For additional information call: 610-275-4453 or Fax: 610-279-6299. Please call for current prices.

RED JACKET GRIZZLY SUBMERSIBLE PUMPS

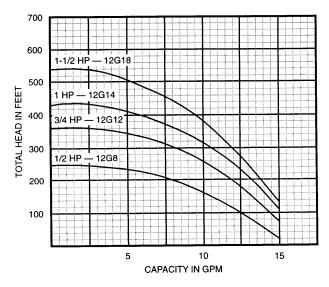
Performance Curves — 12G Series



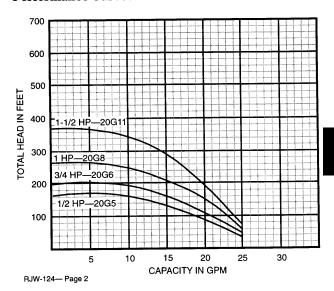
Performance Curves — 20G Series



Performance Curves — 12G Series



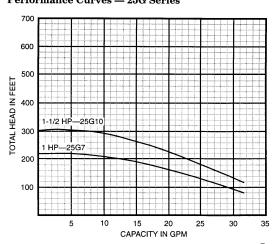
Performance Curves — 20G Series



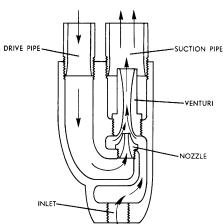
RED JACKET CONTROL BOXES

| HP | VOLTAGE | FIG. NO. | PRICE |
|-------|---------|----------|-------|
| 1/2 | 115 | 9906 | |
| 1/2 | 230 | 9902 | |
| 3/4 | 230 | 9911 | |
| 1 | 230 | 9916 | |
| 1 1/2 | 230 | 9916 | |
| 2 | 230 | 9947 | |
| 3 | 230 | 9953 | |
| 5 | 230 | 9961 | |

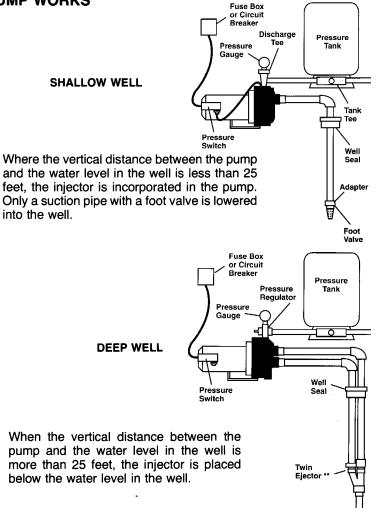
Performance Curves — 25G Series



HOW A JET PUMP WORKS



A jet pump pumps water with water. In deep well jet pumps a small amount of the water delivered by the pump is returned through the pressure pipe to the nozzle of the injector. The nozzle converts this high pressure to velocity. In the Venturi, this velocity is reduced and a partial vacuum is created, causing water in the well to enter the injector. This additional water is carried along with the water circulated by the pump-moved up the suction pipe to the impeller. This extra water picked up by the jet in the well is discharged by the pump with a portion of it recirculating through the injector to enable the jet to function. In the shallow well jet, the operation of the injector is the same except that the injector is located at the entrance to the impeller rather than down the well. In a shallow well jet pump, passages in the pump case casting serve the functions of the pressure and suction pipes used with deep well jet pumps.





Leaders in I amp Teenhology

JACUZZI



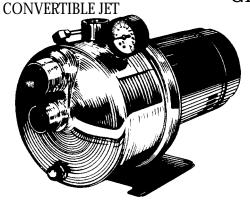


For additional information call: 610-275-4453 or Fax: 610-279-6299.

Please call for current prices.

DUFF CO.

GRUNDFOS JET PUMPS



Materials of Construction

| DESCRIPTION | MATERIAL |
|--------------------|-------------------------|
| Motor Stool | E-Coated Aluminum |
| Shaft Seal | Carbon/Ceramic/EPDM |
| O-Rings & Gaskets | EPDM |
| Base Plate | AISI 304 SS |
| Pump Housing (Cap) | AISI 304 SS |
| Impeller | AISI 304/316 SS |
| Tubing | Polyethylene |
| Seal Plate | AISI 304 SS |
| Ejector/Guide Vane | AISI 304 SS/EPDM/Noryl® |

EPDM - Ethylene Propylene Rubber Noryl® is a registered trademark of General Electric Company

| | PUMP TYPE | HP | MOTOR S.F. | PH | VOLTS | NEMA FRAME SIZE | DISC SIZE NPT | SUC SIZE NPT | FIG. NO. | PRICE |
|---|-----------|-----|---------------|----|---------|--------------------|------------------|-----------------|----------|-------|
| Ī | JP5 | 1/2 | 1.6 | 1 | 115/230 | 56J | 1" | 1 1/4" | 38799 | |
| | JP7 | 3/4 | 1.5 | 1 | 115/230 | 56J | 1" | 1 1/4" | 38800 | |
| | JP10 | 1 | 1.4 | 1 | 115/230 | 56J | 1" | 1 1/4" | 41841 | |

PARALLEL PIPE EJECTOR/FOOT VALVE



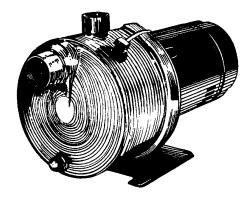
| CONTROL | T7ATT | 717 |
|---------|----------------|-----|
| CONTROL | $V \Delta I V$ | и н |
| | VAL | v L |



| SIZE | FIG. | PRICE |
|------|-------|-------|
| | NO. | |
| 1" | 40695 | |

| HECTOR | FORUSE WITH | HP | NOM. DEPTH | MINWELL DIA | PRESSURE CONNECT | SUCTION CONNECT | FIG. NO. | PRICE |
|--------|----------------|-----|---------------|----------------|---------------------|--------------------|----------|-------|
| 5050 | JS-5 | 1/2 | 50' | 4" | 1" | 1 1/4" | 40691 | |
| 5100 | JS-5 | 1/2 | 100' | 4" | 1" | 1 1/4" | 40692 | |
| 7050 | JS-7 | 3/4 | 50' | 4" | 1" | 1 1/4" | 40693 | |
| 7100 | JS-7 | 3/4 | 100' | 4" | 1" | 1 1/4" | 40694 | |
| 10050 | JS-10 | 1 | 50' | 4" | 1" | 1 1/4" | 44368 | |
| 10100 | JS-10 | 1 | 100' | 4" | 1" | 1 1/4" | 44369 | |

SHALLOW WELL JET PUMPS



Materials of Construction

| DESCRIPTION | MATERIAL |
|--------------------|-------------------------|
| Motor Stool | E-Coated Aluminum |
| Shaft Seal | Carbon/Ceramic/EPDM |
| O-Rings & Gaskets | EPDM |
| Base Plate | AISI 304 SS |
| Pump Housing (Cap) | AISI 304 SS |
| Impeller | AISI 304/316 SS |
| Tubing | Polyethylene |
| Seal Plate | AISI 304 SS |
| Ejector/Guide Vane | AISI 304 SS/EPDM/Noryl® |

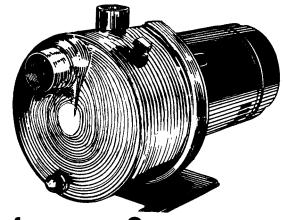
NOTES: EPDM - Ethylene Propylene Rubber
Noryl® is a registered trademark of General Electric Company

| PUMP TYPE | HP | MOTOR S.F. | PH | VOLTS | NEMA FRAME SIZE | DISC SIZE NPT | SUC SIZE NPT | FIG. NO. | PRICE |
|-----------|-----|---------------|----|---------|--------------------|------------------|-----------------|----------|-------|
| JP-5 | 1/2 | 1.6 | 1 | 115/230 | 56J | 1" | 1 1/4" | 53593 | |
| JP-7 | 3/4 | 1.5 | 1 | 115/230 | 56J | 1" | 1 1/4" | 53594 | |
| JP-10 | 1 | 1.4 | 1 | 115/230 | 56J | 1" | 1 1/4" | 53595 | |

For additional information call: 610-275-4453 or Fax: 610-279-6299

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GRUNDFOS JET STAR BOOSTER PUMP



Technical Data

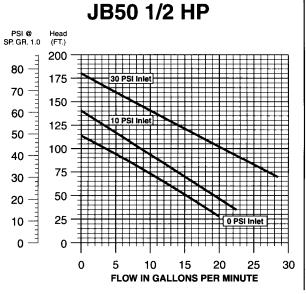
FLOW RANGE: 1 - 40 GPM

MOTORS: ODP (Open Drip Proof)

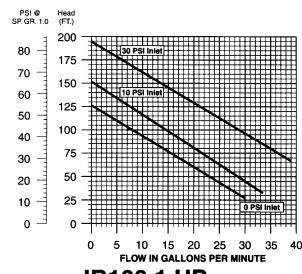
MAX. FLUID TEMPERATURE: 95°F

MAX. WORKING PRESSURE: 85 psig

Performance Curves

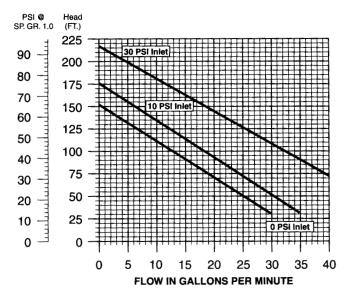


JB70 3/4 HP



JB100 1 HP





GRUNDFOS JETPAQ A COMPLETE PUMP SYSTEM



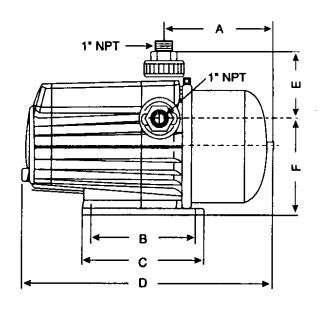
SUBMITTAL DATA

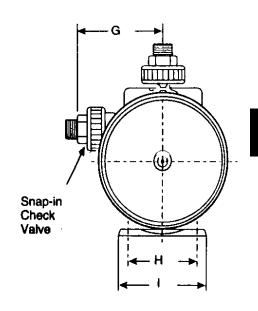
50/60 HERTZ

The JetPaq is a complete pumping system with pump, tank, and pressure switch integrated into one compact unit. The pump uses a Micro Frequency Converter to continually adjust speed to meet your pre-set pressure setting.

ELECTRICAL DATA AND DIMENSIONS

| FIG. NO. | Model | AMP | PH | Volts | A | В | С | D | E | F | G | Н | Ι | PRICE |
|-------------|-------|------|----|-------|-----|-----|-----|----|-----|-----|-----|-----|-----|-------|
| 58560 | JQ2 | 9.0 | 1 | 115 | 7.8 | 7.5 | 8.8 | 18 | 4.7 | 6.6 | 5.6 | 4.5 | 5.7 | |
| 58561 | JQ2 | 5.5 | 1 | 230 | 7.8 | 7.5 | 8.8 | 18 | 4.7 | 6.6 | 5.6 | 4.5 | 5.7 | |
| 58562 | JQ4 | 13.0 | 1 | 115 | 7.8 | 7.5 | 8.8 | 18 | 4.7 | 6.6 | 5.6 | 4.5 | 5.7 | |
| 58563 | JQ4 | 8.0 | 1 | 230 | 7.8 | 7.5 | 8.8 | 18 | 4.7 | 6.6 | 5.6 | 4.5 | 5.7 | |





*DO AWAY WITH YOUR STORAGE TANK

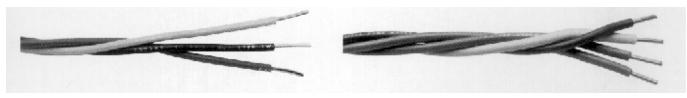
*TO REPRESSURIZE YOUR SYSTEM

*OR FOR GENERAL BOOSTER APPLICATION

USE THE JETPAQ!

SUBMERSIBLE PUMP CABLE

600 VOLT - TWISTED - PVC INSULATION - WITH GROUND



| AWG SIZE | FIG. NO. | SHIP WT. | PRICE |
|----------|----------|----------|-------|
| 12/2 | 49731 | 107 | |
| 12/3 | 49735 | 140 | |
| 10/2 | 49732 | 150 | |
| 10/3 | 49736 | 200 | |
| 8/2 | 49733 | 254 | |
| 8/3 | 49739 | 338 | |
| 6/3 | 49729 | 450 | |
| 4/3 | n/a | 627 | |

FOR LARGER SIZES, PLEASE CALL US! 610-275-4453

600 VOLT - FLAT PARALLEL - PVC INSULATION - WITH GROUND



| AWG SIZE | FIG. NO. | SHIP WT. | PRICE |
|----------|----------|----------|-------|
| 12/2 | 49741 | 113 | |
| 12/3 | 49742 | 132 | |

Application: For use within the well casing supplying current to the submersible pump. Maximum conductor operating temperatures of 60° C in circuits not exceeding 600 volts.

UNDERGROUND FEEDER CABLE TYPE UF-B WITH GROUND PVC CONDUCTORS, NYLON JACKET

APPLICATIONS

Kalas Type UF-B underground feeder and branch circuit cable is UL Listed and meets the requirements of UL83, UL493 and Federal specification JC-30B. It is suitable for installation and use as defined by Article 339 of the National Electrical code at voltages up to 600 volts at a conductors temperature of 60°F. It may be installed in exposed and concealed locations, in dry, moist damp or corrosive environments, in outside and inside walls of masonry and tile, and direct buried. It may also be exposed to the direct rays of the sun.



| AWG SIZE | FIG. NO. | SHIP WT. | PRICE |
|----------|----------|----------|-------|
| 12/2 | 53433 | 97 | |
| 12/3 | 53434 | 152 | |

TYPE RED WIRE NUTS

100 to a box. Red 18-10 AWG.



| FIG. NO. | PRICE |
|----------|-------|
| 44593 | |

STA-KON

STA-KON ONLY. Packed 10 to a box.



| FIG. NO. | PRICE |
|----------|-------|
| 20174 | |

ELECTRICAL TAPE

3/4" X 60"



HEAT SHRINK SPLICE KIT.



| SIZE | FIG. NO. | PRICE |
|------|----------|-------|
| 2 | 10827 | |
| 3 | 10829 | |
| 4 | 47006 | |

| FIG. NO. | PRICE |
|----------|-------|
| 15332 | |

WIRE SELECTION CHART FOR SUBMERSIBLE MOTORS

- 1. Select wire size for which maximim length equals or exceeds that required. Note that warranty is voided by use of smaller size or longer length than those recommended. Wire sizes comply with table 310-16, colum 2 of National Electrical Code (1975 Edition). Allowable ampacity of insulated copper conductors (which vocers type RHW, RUH and THWN conductors).
- 2. Voltage at service entrance will be rated voltage i.e. 225, 200, 230, 460, 575. (This is the 60 Hertz voltage assumed to be available at the service entrance.)
- Voltage at the motor shall be at least 95% of service entrance voltage with the motor running under normal operating conditions.
- 4. Cable lengths are based on one continuous wire size run from the service entrance to the motor terminals rather than breaking down into different sizes for supply and drop cable. The portion of the total cable length which is between the service entrance and single phase motor control box should not exceed 25% of the total maximum allowable, to insure proper control of box operation.

2 & 3 Wire Single Phase Franklin Motors

| MOTOR | | | | MAX | IMUM | FEE | T OF | COP | PER (| CABLE | , SIZE | |
|-------|---|--|--|---|---|---|---|------------------------------------|-----------------------------|--------------|--------------|------|
| Volts | HP | 14 | 12 | 10 | 8 | 6 | 4 | 2 | 0 | 00 | 000 | 0000 |
| 115 | 1/3 1/2 | 130 100 | 210 160 | 340 250 | 540 390 | 840 620 | 1300 960 | 1960 1460 | 2910 2160 | | | |
| 230 | 1/3 1/2 3/4 1 1-1/2 2 3 5 7-1/2 | 550 400 300 250 190 150 120 0 | 880 650 480 400 310 250 190 110 | 1390 1020 760 630 480 390 300 180 120 | 1200 990 770 620 470 280 200 160 | 1540 1200 970 750 450 310 250 | 1870 1530 1190 710 490 390 | 2360 1850 1110 750 600 | 2890 1740 1140 930 | 1410 1160 | 1720 1430 | 1760 |

Three Phase Franklin Motors

| MOTOR | | MAXIMUM FEET OF COPPER CABLE, SIZE | | | | | | | | | | |
|---|--|--|---|--|---|---|---|--|---|---|--|--|
| Voits | НP | 14 | 12 | 10 | 8 | 6 | 4 | 2 | 0 | 00 | 000 | 0000 |
| 200V 60Hz | 1-1/2 2 3 5 7-1/2 10 15 20 25 | 310 240 180 110 0 0 0 | 500 390 290 170 0 0 0 | 790 610 470 280 200 150 0 | 1260 970 740 440 310 230 160 0 | 1960 1520 1160 690 490 370 250 190 | 3050 2360 1810 1080 770 570 390 300 240 | 3610 2760 1660 1180 880 600 460 370 | 5420 4130 2490 1770 1330 910 700 570 | 3050 2170 1640 1110 860 700 | 3670 2600 1970 1340 1050 840 | 4440 3150 2390 1630 1270 1030 |
| 230V 60Hz and 220V 50Hz | 1-1/2 2 3 5 7-1/2 10 15 20 25 30 | 420 320 240 140 0 0 0 0 | 670 510 390 230 160 0 0 | 1060 810 620 370 260 190 0 0 | 1670 1280 990 590 420 310 210 160 0 | 2610 2010 1540 920 650 490 330 250 0 | 4050 3130 2400 1430 1020 760 520 400 320 260 | 6160 4770 3660 2190 1560 1170 800 610 500 410 | 9170 7170 5470 3290 2340 1760 1200 930 750 620 | 8780 6690 4030 2870 2160 1470 1140 920 760 | 8020 4850 3440 2610 1780 1380 1120 930 | 9680 5870 4160 3160 2150 1680 1360 1130 |
| 460V 60Hz and 380V- 460V 50Hz (Divide lengths by 1.4 for 380V 60Hz) | 1-1/2 2 3 5 7-1/2 10 15 20 25 30 40 50 60 75 100 | 1700 1300 1000 590 420 310 0 0 0 0 | 2710 2070 1600 950 680 500 0 0 0 0 | 4270 3270 2520 1500 1070 790 540 410 0 0 0 0 | 6730 5150 3970 2360 1690 1250 850 650 530 430 0 0 | 8050 6200 3700 2640 1960 1340 1030 830 680 500 410 0 | 5750 4100 3050 2090 1610 1300 1070 790 640 540 440 0 | 6260 4680 3200 2470 1990 1640 1210 980 830 680 500 | 7050 4810 3730 3010 2490 1830 1480 1250 1030 760 | 5900 4580 3700 3060 2250 1810 1540 1260 940 | 7110 5530 4470 3700 2710 2190 1850 1520 1130 | 5430 4500 3290 2650 2240 1850 1380 |
| 575V 60Hz | 1-1/2 2 3 5 7-1/2 10 15 20 25 30 40 50 60 75 | 2620 2030 1580 920 660 490 330 0 0 0 0 | 4180 3250 2530 1480 1060 780 530 410 0 0 0 0 | 6580 5110 3980 2330 1680 1240 850 650 520 430 0 0 | 8060 6270 3680 2650 1950 1340 1030 830 680 500 410 0 | 5750 4150 3060 2090 1610 1300 1070 790 640 540 0 | 4770 3260 2520 2030 1670 1240 1000 850 690 0 | 3860 3110 2560 1900 1540 1300 1060 790 | 5830 4710 3880 2860 2310 1960 1600 1190 | 4770 3510 2840 2400 1970 1460 | 5780 4230 3420 2890 2380 1770 | 7030 5140 4140 3500 2890 2150 |

PRESSURE SWITCHES AND CONTROL SYSTEMS

PRESSURE SWITCHES

These electric control pressure switches are dependable and sure-acting for all water systems. Easy to install and easy to service, each switch has a removable cover that exposes the entire mechanism and the electrical leads. The contacts are of fine silver, double break type that permit a more efficient flow of current.

FSG-2

| FSG-2 | FIG. NO. | PRICE |
|----------|----------|-------|
| 20/40 | 8229 | |
| 30/50 | 8254 | |
| 30/50 G5 | 8267 | |
| 30/50 P | 50216 | |
| 40/60 | 45486 | |
| 30/50 M4 | 8286 | |



| GSG-2 | FIG. NO. | PRICE |
|-------|----------|-------|
| 20/40 | 8307 | |
| 30/50 | 8317 | |
| 40/60 | 8327 | |
| 50/70 | 8347 | |
| 60/80 | 8361 | |

FIG. NO.

25322

PRICE

GHG-2

80/100



ELECTRODES

| Fig. No. | Probes | Unit Wt | PRICE |
|----------|-----------|---------|-------|
| 27964 | Stainless | 1 oz. | |
| | Steel | | |
| 10673 | Brass | 1 oz. | |
| | | | |

FLOATLESS LIQUID LEVEL CONTROL SYSTEMS

Provides automatic low level cutoff protection for submersible pumps and deep well turbines. Liquid level submersible pump control system consists of a standard enclosed type LH induction relay which operates from two type E1-S insulated electrodes suspended at desired levels. Properly installed, these components provide reliable automatic low level cutoff protection for submersible pumps and deep well turbines. Permits efficient operation at full capacity and eliminated danger of pumping air or sand.

Type LH Relay - the LH relay is rated 1 hp, single phase, 110 or 220 volts and normally furnished in a NEMA 1 metal enclosure. For control of a larger motor, it can also be supplied in a common enclosure with an auxiliary relay without overload protection or with a magnet starter that has overload protection.

Wiring diagrams and complete installation instruction are included with each control. Type E1-S Electrodes - Made of brass or stainless steel, these 2" long electrodes are assembled in molded plastic insulating shields and suspended at desired levels in well by means of suspension wire.

| | | RELAYS | | |
|----------|-----------|-------------|----------|-------|
| Fig. NO. | Operation | Application | Unit Wt. | Price |
| | Pump Down | Submersible | 4 LBS | |
| | Pump Up | Open Sys | 4 LBS | |



SUSPENSION WIRE

Designed to provide maximum strength and insulation, the wire is single conductor 18 gauge, 41 strand copper with 4/64" vinyl insulation.

| FIG. NO. | PRICE |
|----------|-------|
| 28163 | |

610-275-4453

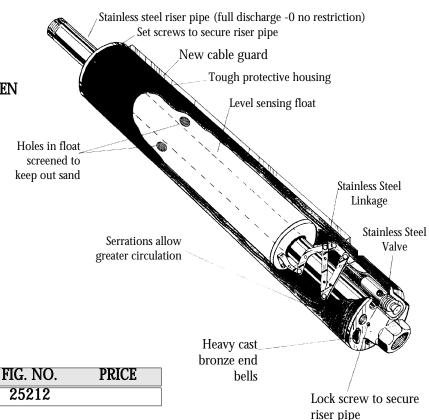
DUFF CO. PUMPS

SUBGARD II LIQUID LEVEL CONTROL

A GREAT PROVEN IDEA NOW EVEN GREATER!

The new Subgard II Ranger offers you more protection for your submersible pump than ever before possible. Greater circulation range. A greater range of applications including use in "sandy" well without the risk of jamming.

- Level sensing float
- * Completely mechanical
- Assures maximum water yield of the well at all times
- * Strongly and simply constructed
- * Prevents overpumping and pump burnout
- * No costly interruptions in service
- * Warranted for three full years
- * Available in sizes ranging from 1" through 4"riser pipes





EJECTOR SCREEN

Protects jet pumps against plugged nozzles clogged ventruis.

Installs easily in discharge side of ejector.

| SIZE | FIG. NO. | PRICE |
|-------|----------|-------|
| Brass | 10655 | |
| SS | 35863 | |



DESCR

10

30

LIGHTENING SURGE ARRESTOR

Specify one Θ or three Θ . When lightening or voltage surge of 500 volts or more reaches the lightening arrestor, the metal oxide within the plastic casing begins conducting the surge to

the ground, relieving the elec trical pressure to the motor. Regular operation is resumed as soon as the surge is passed to the ground.



COYOTE PROTECTS PUMPS AND MOTORS from RUNNING DRY

FIG. NO.

8049

10940

PRICE

All above ground, no plumbing, no probes. Works on both 2 and 3 wire motors Covers a wide horsepower range Restarts automatically with adjustable timer Operates alone or with pressure switches, float switches, or tank pump-up controls. Contacts to activate alarm available as an option 3 Phase also available CALL FOR SPECS!

| DESCR | FIG. NO. | PRICE |
|-------------------|----------|-------|
| 1/3 to 1 HP, 115V | 30070 | |
| 1/3 to 2 HP, 230V | 30071 | |

| TECHNICAL SPECIFICATIONS | | | | | | |
|--------------------------|----------------------------|----------------------------|--|--|--|--|
| Nominal Voltage | 115V | 230V | | | | |
| Operating Range | 90V-130V | 180V-260V | | | | |
| Horsepower Rating | 1/3-1 | 1/3-2 | | | | |
| Trip delay | 1.5 seconds | 1.5 seconds | | | | |
| Reset delay | adjustable 15 min5 hrs. | adjustable 15 min5 hrs. | | | | |
| Operating temperature | -20 to 75°C | -20 to 75°C | | | | |
| Trip % of normal load | adjustable 80 - 86% | adjustable 80 - 86% | | | | |

Model 115 V 1/3 - 1 HP



Model 230 V 1/3 - 2 HP



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MOTOR CONTROLS & ACCESSORIES

Franklin Submersible Motor Controls

PumpTec Features:

- For single phase motors 1/3 1 1/2HP, 115/230V, 2 or 3 wire.
- Protects against low-yield wells, drop in water level and low voltage.
- Manual or Auto Reset (2 min. 90 min.)

PumpTec Plus Features:

- For single phase motors 1/2 5HP, 230V, 2 or 3 wire
- Protects against low-yield wells, high or low voltage,drop in water level, rapid cycling, water logged tank.
- Manual or Auto Reset (1 min. 4 hrs.)
- Run and Fault indicator lights.

QD PumpTec Features:

- For Franklin 3-Wire single phase submersible motors 1/3-1HP, 230V.
- Protects against low-yield wells, drop in water level, broken shaft or coupling, clogged well screen, air or gas locked pump, and low voltage.
- Auto or manual reset
- Surge resistant.
- Moisture and insect resistant.
- Solid state electronic circuitry.
- Mounts in exsisting Franklin Control Box.

| FIG. NO. | MODEL NO. | WT. | PRICE |
|----------|---------------|-----|-------|
| 42781 | Pump Tec | 3 | |
| 48773 | Pump Tec Plus | 6 | |



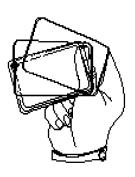


Pump Tec Plus





DUFF IS HAPPY TO ACCEPT VISA AND MASTERCARD!



DUFF CO. 4" FRANKLIN SUBMERSIBLE PUMP MOTORS

| HP | PH | VOLTS | MAX THRUST | FIG. NO. | PRICE |
|---------------|--------------------|----------|---------------------------------------|----------|-------|
| | | . 5215 | (LBS) | | |
| TWO WIRE (Co | ntrol Box Not Requ | ired) | · · · · · · · · · · · · · · · · · · · | | |
| 1/3 | 1 | 115 | 650 | 6410 | |
| | 1 | 230 | 650 | 6421 | |
| 1/2 | 1 | 115 | 650 | 6418 | |
| | 1 | 230 | 650 | 6425 | |
| 3/4 | 1 | 230 | 650 | 6450 | |
| 1 | 1 | 230 | 650 | 6445 | |
| 1 1/2 | 1 | 230 | 650 | 6454 | |
| THREE WIRE (C | ontrol Box Not Req | uired) | | | |
| 1/3 | 1 | 115 | 300 | 6460 | |
| 1/3 | 1 | 230 | 300 | 6469 | |
| 1/2 | 1 | 115 | 300 | 6464 | |
| 17 & | 1 | 230 | 300 | 6471 | |
| 3/4 | 1 | 230 | 300 | 6476 | |
| 1 | 1 | 230 | 650 | 6480 | |
| 1 1/2 | 1 | 230 | 650 | 6486 | |
| 1 1/ 2 | 3 | 200 | 650 | 44285 | |
| | 3 | 230 | 650 | 30059 | |
| | 3 | 460 | 650 | 30060 | |
| | | 230 | 650 | 6489 | |
| 2 | 3 | 200 | 650 | 42801 | |
| ~ | 3 | 230 | 650 | 6520 | |
| | 3 | 460 | 650 | 6526 | |
| 3*** | 1 | 230 | 1500 | 6497 | |
| | 3 | 200 | 1500 | 38928 | |
| | 3 | 230 | 1500 | 6529 | |
| | 3 | 460 | 1500 | 6534 | |
| 5*** | 1 | 230 | 1500 | 6503 | |
| | 3 | 200 | 1500 | 38916 | |
| | 3 | 230 | 1500 | 6538 | |
| | 3 | 460 | 1500 | 6543 | |
| 7 1/2 | 3 | 200 | 1500 | 47908 | |
| | 3 | 230 | 1500 | 41212 | |
| | 3 | 460 | 1500 | 41213 | |
| 10 | 3 | 460 | 1500 | 41214 | |
| | | <u> </u> | | | |

6" FRANKLIN SUBMERSIBLE PUMP MOTORS

| HP | PH | VOLTS | MAX THRUST (LBS) | FIG. NO. | PRICE |
|-------|----|-------|---------------------|----------|-------|
| 5 | 1 | 230 | 1500 | | |
| | 3 | 230 | 1500 | | |
| | 3 | 460 | 1500 | | |
| 7 1/2 | 1 | 230 | 1500 | 6513 | |
| | 3 | 200 | 1500 | 49132 | |
| | 3 | 230 | 1500 | 6547 | |
| | 3 | 460 | 3500 | 6551 | |
| 10 | 1 | 230 | 3500 | 30057 | |
| | 3 | 200 | 3500 | 49133 | |
| | 3 | 230 | 3500 | 6555 | |
| | 3 | 460 | 3500 | 6559 | |
| 15 | 1 | 230 | 3500 | 49134 | |
| | 3 | 200 | 3500 | 49135 | |
| | 3 | 230 | 3500 | 6564 | |
| | 3 | 460 | 3500 | 6569 | |
| 20 | 3 | 200 | 3500 | 21116 | |
| | 3 | 230 | 3500 | 6572 | |
| | 3 | 460 | 3500 | 6578 | |
| 25 | 3 | 200 | 3500 | 49136 | |
| | 3 | 230 | 3500 | 6584 | |
| | 3 | 460 | 3500 | 6586 | |
| 30 | 3 | 200 | 3500 | 49137 | |
| | 3 | 230 | 3500 | 44286 | |
| | 3 | 460 | 3500 | 44287 | |
| 40 | 3 | 460 | 3500 | 47400 | |
| 50 | 3 | 460 | 3500 | 47401 | |
| 60 | 3 | 460 | 3500 | 47402 | |

8" & 10" SUBMERSIBLE PUMP MOTORS

| 8 INCH | | | | | |
|---------|---|-----|--------|-------|--|
| 40 | 3 | 460 | 10,000 | 47400 | |
| 50 | 3 | 460 | 10,000 | 47401 | |
| 60 | 3 | 460 | 10,000 | 47402 | |
| 75 | 3 | 460 | 10,000 | 47406 | |
| 100 | 3 | 460 | 10,000 | 27392 | |
| 125 | 3 | 460 | 10,000 | 47407 | |
| 150 | 3 | 460 | 10,000 | 47408 | |
| 175 | 3 | 460 | 10,000 | 67141 | |
| 200 | 3 | 460 | 10,000 | 67142 | |
| 10 INCH | | | | , | |
| 175 | 3 | 460 | 10,000 | 47435 | |
| 200 | 3 | 460 | 10,000 | 47409 | |
| 250 | 3 | 460 | 10,000 | 47410 | |

For additional information call: 610-275-4453 or Fax: 610-279-6299 Please call for current prices.



4" Dia. Motors

6" Dia. Motors

| HP | VOLTS | STARTER SIZE | FURNAS AMB. COMP. | FIG. NO. | PRICE |
|-----|-------|-----------------|-------------------------|----------|-------|
| 1 | 200 | 00 | K43 | 25591 | |
| 1/2 | 230 | 00 | K41 | 21083 | |
| | 460 | 00 | K29 | 66100 | |
| | 575 | 00 | K27 | | |
| | 200 | 0 | K50 | 20510 | |
| 2 | 230 | 0 | K49 | 25592 | |
| | 460 | 00 | K33 | 74361 | |
| | 575 | 00 | K29 | 66100 | |
| | 200 | 0 | K54 | | |
| 3 | 230 | 0 | K52 | 25593 | |
| | 460 | 0 | K37 | | |
| | 575 | 0 | K33 | 74361 | |
| | 200 | 1 | K61 | 25598 | |
| 5 | 230 | 1 | K61 | 25598 | |
| | 460 | 0 | K49 | 25592 | |
| | 575 | 0 | K42 | 25590 | |
| | 200 | 1 | K68 | 29722 | |
| 7 | 230 | 1 | K67 | 25601 | |
| 1/2 | 460 | 1 | K55 | 25596 | |
| | 575 | 1 | K52 | 25593 | |
| | 460 | 1 | K58 | 76390 | |
| | 575 | 1 | K55 | 25596 | |

| 575 | 1 | K52 | 25593 | | | | |
|---------------------------|-------------------------------------|-------------|-----------------|--|--|--|--|
| 460 | 1 | K58 | 76390 | | | | |
| 575 | 1 | K55 | 25596 | | | | |
| Magne | etic Starte | rs | | | | | |
| Non-rev | versing wit | h reset bim | etal type ther- | | | | |
| mal ove | mal overload relay; NEMA1 General | | | | | | |
| Purpose | Purpose Enclosures; 600 volts AC | | | | | | |
| Maximu | Maximum; 3-phase; 3-pole; 3-bimetal | | | | | | |
| overload | ds. | | | | | | |
| CALL FOR SIZING & PRICES. | | | | | | | |
| | | | | | | | |

| HP | VOLTS | STARTER | FURNAS | FIG. NO. | PRICE |
|-------|-------|---------|---------------|----------|-------|
| | | SIZE | AMB. | | |
| | | | COMP. | | |
| 5 | 200 | 1 | K61 | 25598 | |
| | 230 | 1 | K61 | 25598 | |
| | 460 | 0 | K49 | 25592 | |
| | 575 | 0 | K42 | 25590 | |
| 7 1/2 | 200 | 1 | K68 | 29722 | |
| | 230 | 1 | K67 | 25601 | |
| | 460 | 1 | K55 | 25596 | |
| | 575 | 1 | K52 | 25593 | |
| 10 | 200 | 1 3/4 | K72 | 10606 | |
| | 230 | 1 3/4 | K70 | 10601 | |
| | 460 | 1 | K58 | 76390 | |
| | 575 | 1 | K55 | 25596 | |
| 15 | 200 | 2 1/2 | K76 | 17465 | |
| | 230 | 2 | K75 | 10717 | |
| | 460 | 1 3/4 | K64 | 25600 | |
| | 575 | 1 3/4 | K61 | 25598 | |
| 20 | 200 | 3 | K78 | 10651 | |
| | 230 | 2 1/2 | K77 | 10628 | |
| | 460 | 2 | K69 | 25602 | |
| | 575 | 2 | K64 | 25600 | |
| 25 | 200 | 3 | K86 | 10692 | |
| | 230 | 3 | K83 | 69320 | |
| | 460 | 2 | K72 | 10606 | |
| | 575 | 2 | K69 | 25602 | |
| 30 | 200 | 31/2 | K88 | 74629 | |
| | 230 | 3 | K72 | 10606 | |
| | 460 | 2 1/2 | K69 | 25602 | |
| | 575 | 2 1/2 | K88 | 74629 | |
| 40 | 460 | 3 | K87 | 10672 | |
| | 575 | 3 | K74 | 10680 | |
| 50 | 460 | 3 | K72 | 10606 | |
| | 575 | 3 | K77 | 10628 | |

CONTROL BOXES HP VOLTS FIG. NO. MODEL# PRICE FRANKLIN For 4-Inch Motors 1/3 115 6590 F280 10 201 230 6597 F280 10 301 1/2 115 6592 F280 10 401 230 6602 F280 10 501

| 1/3 | 115 | 6590 | F280 10 201 | |
|-------|-----|------|-------------|--|
| | 230 | 6597 | F280 10 301 | |
| 1/2 | 115 | 6592 | F280 10 401 | |
| | 230 | 6602 | F280 10 501 | |
| 3/4 | 230 | 6605 | F280 10 701 | |
| 1 | 230 | 6606 | F280 10 801 | |
| 1 1/2 | 230 | 6610 | 82.F 001 | |
| 2 | 230 | 6614 | 82F. 002 | |
| 3 | 230 | 6618 | 82.F 004 | |
| | | | | |

| FRANKLIN | For | 6-Inch | Moto | rs |
|----------|-----|--------|------|----|
| W 4 /A | | | ^^^ | _ |

| 7 1/2 | 230 | 6623 | 82.F 008 | |
|-------|-----|-------|----------|--|
| 10 | 230 | 30328 | 82.F 010 | |
| | | | | |

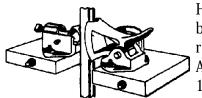
DELUXE CONTROL BOX WITH MAG CONTACT

FRANKLIN

| НР | VOLTS | MDIORDIA (Indes) | FIG NO | MODELNO | PRICE |
|-------|-------|---------------------|--------|----------|-------|
| 2 | 230 | 4 | 43572 | 82.F 003 | |
| 3 | 230 | 4 | 43573 | 82.F 005 | |
| 5 | 230 | 4 &6 | 41215 | 82.F 007 | |
| 7 1/2 | 230 | 6 | 43574 | 82.F 007 | |
| 10 | 230 | 6 | 43575 | 82.F 011 | |
| 15 | 230 | 6 | 52627 | 82.F012 | |
| | | | | | |

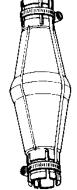
PUMP ACCESSORIES

PIPE HOLDER



Holds pipe while it is being lowered or raised in well. Adjusts for 1", 1 1/4", 1 1/2", 2"

| FIG. NO. | PRICE |
|----------|-------|
| 10583 | |



Precision molded from virgin rubber to provide the finest method available for protecting submersible pumps from starting torque damage. Deluxe torque arrestor is fieldadjustable to hold pump centered in well, insuring a snug fit in all well casings from 4" - 8" ID. Two piece design installs quickly, eliminates flashing problems, and has a longer life. After easy casing adjustment,

the unit is securely fastened to 1" or 1 1/4" drop pipe with the two stainless steel clamps provided.

TORQUE ARRESTOR TA-48

SPECIAL FEATURE

(Adjustable 4" to 8")

| FIG. NO. | PRICE |
|----------|-------|
| 10801 | |

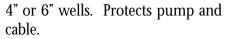
AIR FLOAT

Slips into any 1 1/4" opening

| SIZE | FIG. NO. | PRICE |
|------|----------|-------|
| 16 | 25164 | |
| 20 | 25331 | |
| 24 | 25332 | |



CABLE GUARD



This cable guard will keep the power cable from abrading against the casing or natural side of the well. A minimum of three to five

should be used; one at the pump and one between 25' and 30' above the pump. Furnished in 6" size, although cut tabs permit this unique fitting to be used in 4" and 5" wells. This guard is made of polyethylene and will float. Therefore cable ties, retaining clamps or tape should be used over or under the cable guard.

| DESCRIPTION | FIG. NO. | PRICE |
|----------------------|----------|-------|
| WG-6 Snap-in | 10804 | |
| WG-100 Self Clamping | 43465 | |

SCHRADER AIR VALVE



| SIZE | FIG. NO. | PRICE |
|------------|----------------|-------|
| 1/8 1/4 | 10607 10608 | |

SAFETY ROPE



1800 LBS **Bursting Strength** 1000 ft rolls For submersible pumps

| DESCR | FIG. NO. | PRICE |
|-----------|----------|-------|
| FULL COIL | 41255 | |
| PER FT | 10815 | |

RUBBER BLEEDER



For submersible pump. 1" rubber inserts hand-tite in 1" tee.

| FIG. NO. | PRICE |
|----------|-------|
| 20010 | |

NO ORDER IS TOO

PITLESS ADAPTERS

PITLESS ADAPTERS

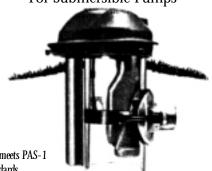
Eliminates pit, seals out surface water, easy to service, no digging, easy to install, red brass.

| SIZE | FIG. NO. | PRICE |
|------------|----------|-------|
| 1" Simmons | 18121 | |
| 1 1/4 | 10627 | |
| 2 | 10637 | |
| 1 x 1 1/4 | 10649 | |



SNAPPY PITLESS ADAPTERS

For Submersible Pumps



RASS PITLESS Tested and meets PAS-1 standards.



IMPORTED BRASS PITLESS ADAPTER

* Red brass unit precision cast and machined to exacting

Harvard specifications

- * One unit fits 5" to 7" well casing
- * Two neoprene gaskets furnished to

protect against outside contamination

- * Designed to support up to 900 lbs. of pipe filled with water plus pump
- * For 1" drop pipe

SIZE

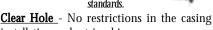
* Individually packaged

Tested and meets PAS-1 standards
Brass Pitless adapters packaged with two rubber gaskets and lubricant.

| FIG. NO. | PRICE |
|----------|-------|
| 47964 | |

HEAVY DUTY PVC DROP COUPLING Machined from extruded PVC stock.

PRICE



installation and retrieval is easy.

<u>Easily Set</u> - Installation is fast. Self-locating, self aligning.

<u>Corrosion Proof</u> - All parts are lead free galvanized cast iron and ductile iron. No dissimilar metals to cause electrolytic or galvanic corrosion. exterior clamping band is all stainless steel.

<u>Protected Potable Seal</u> - Safe and second to none. Potable Oring seal is inside casing fitting, located between accurately machined sealing surfaces beyond the inside wall to the well casing, and is safe from damaging contact with well tools, drop pipe, etc.

Snappy adapters available in combination with ventilated or watertight caps.



Bulldog Brass Pitless Adapte



Bulldog Casing Fitting & Clamp



| FIG. NO. | WELL CASING | DROP PIPE | PRICE |
|----------|-------------|-----------|-------|
| | ID | SIZE | |
| | (INCHES) | (INCHES) | |
| 10741 | 4 | 1 | |
| 10744 | 4 | 1 1/4 | |
| 63300 | 4 | 1 | |
| (3 pack) | | | |

4 X 1 BULLDOG PITLESS Same as Snappy except all brass.

| | 113 | | |
|----------|-----|-------|--|
| FIG. NO. | | PRICE | |
| 45140 | | | |
| | | | |

1 1/4" 29838 H E A V Y D U T Y

| SIZE | FIG. NO. | PRICE |
|------|----------|-------|
| 1" | 49377 | |

FIG. NO.

25320

SCH 80 PVC THREADED PIPE 20'

| SIZE | FIG. NO. | PRICE |
|--------|----------|-------|
| 1" | 25117 | |
| 1 1/4" | 25186 | |

DOMESTIC PITLESS KIT

DQ SERIES FULL PITLESS KITS consist of the double kwikonect discharge body and spool with o-rings . **Cap must be ordered separately.**

| FIG. NO. | PRICE |
|----------|-------|
| 46929 | |



MAASS MODEL J PITLESSES ARE SANITARY AND EASY TO SERVICE

Recommend to your customers the Maass Model J pitlesses — units create easy well service for you because they are manufactured only of RUST-PROOF materials and designed to eliminate all obstructions in well casing. Pump is easy to pull because of non-rusting components. Water contacts only 304 stainless steel and bronze to COM-PLETELY ELIMINATE ANY RUST and/or ELECTROLYSIS. The Maass pitless connection is sealed by using a bronze 8 degree non-locking taper wedge with O-ring forced against 304 non-magnetic stainless steel flanged nipple pressed into steel housing and welded on outer side. Model J Pitless Adapter is non-pressure lifting and is designed for deep wells, higher working pressures, and where plastic pipe is used and high water levels. No lock necessary. Stock only two 1-inch outlet size Maass Model J pitlesses to fit all well casing sizes. Pitless steel housing is permanently installed by welding onto well casing.

MODEL JJ

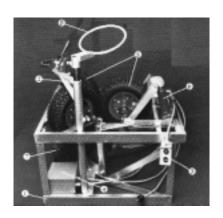
| | WATED |
|------------------|-------------------|
| pressurized to 1 | meet state codes. |
| suction pumps. | Lateral can be |
| MODEL JJ mode | els below are for |

| WELL CASING SIZE | MODEL | WATER OUTLET & DROP PIPE SIZE | | |
|------------------------|-------|-------------------------------|--|--|
| 4″-5″ | JJ | 1" outlet 2" lateral | | |
| 6"-7"-8" | IJ | 1" outlet 2" lateral | | |
| 4"-5" | JJ | 11⁄4" outlet 2" lateral | | |
| 6"-7"-8" | וו | 11/4" outlet 2" lateral | | |

WELD-ON UNITS

| WELL CASING SIZE | MODEL | WATER OUTLET & DROP PIPE SIZE | APPROXIMATE WEIGHT |
|------------------------|-------|--|-----------------------|
| 4"-5" | J | ו" | 6# |
| 4"-5" | J | 11/4" | 7# |
| 4"-5" | J | I 1⁄2″ | 8.5# |
| 5" | J | 2" | 12# |
| 6"-7"-8" | J | 1" | 6# |
| 6"-7"-8" | J | 11/4" | 7# |
| 6"-7"-8" | J | 11/2" | 8.5# |
| 6"-7"-8" | J | 2" | 12# |
| 6"-7"-8" | J | 21/2" | 18# |
| 8"-10"-12" | J | 3" | 32# |
| 10"-12" | J | 4" | 50# |

UP-Z-DAZY PUMP PULLER



| DESCRIPTION | | PRICE |
|---|-------|-------|
| | NO. | |
| Model 30XL aluminum heavy duty (legs incl) | 22378 | |
| Model 20XL aluminum (legs incl) | 22377 | |
| Model 10XL aluminum (monitoring model) | 40688 | |
| Model 2010 cable with attachment (fits all model | 22379 | |
| 10-20-30 machines) | | |
| Wheel kit (fits all model 10-20-30- machines) | 22380 | |
| Overhead guide | 22381 | |
| Vise complete with vise arm | 22382 | |
| Leg kit (fits model 30XL-20XL; extends to 7 inches) | 37881 | |

For additional information call: 610-275-4453 or Fax: 610-279-6299 Prices are a guide only. Please call for current prices.

WHY A PITLESS UNIT?

The standard above ground "Wall House" or "Well Pit" left much to be desired as solutions to sanitation, convenience and freeze protection.

Monitor (A Division of Baker Manufacturing) developed the first solution to eliminate the "well house and well pit" - with the Pitless Adapter and Pitless System.



The Pitless system allows the water to be directed to the service underground below the frost line, thus preventing any form of surface contamination.

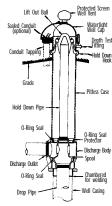


STANDARD



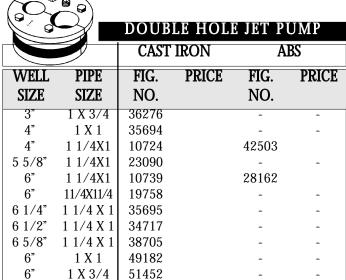


INDUSTRIAL PITLESS ADAPTER UNITS



Page 427

WELL SEALS AND CAPS





| | | SINGI | E HOLE | JET PUM | IP . |
|--------------|--------------|----------------|--------|-------------|-------|
| | - | CAST | IRON | A | BS |
| WELL SIZE | PIPE SIZE | FIG. NO. | PRICE | FIG. NO. | PRICE |
| 3" 4" | 1 | 36275 10718 | | - 28160 | - |
| 4" | 1 1/4 | 10720 | | - | - |
| 4" 5" | 2 | 25894 35693 | | - | _ |
| 5 5/8" | 1 | 10730 | | - | - |
| 5 5/8" 6" | 1 1/4 | 27370 10734 | | - 28161 | - |
| 6" | 1 1/4 | 10737 | | 35697 | |
| 6" 6 1/4" | 2 | 22181 25201 | | _ | - |
| 8" | 1 | 25504 | | - | - |

WELL CAPS

PREMIUM WATERTIGHT **CAP**

A truly watertight cap. The top of the cap can be removed without effecting the seal, conduit or wiring. Painted green and oven

dried.

| | ID Casing Size | Max Case OD | Conduit Tap Size | Vent Tap Size | FIG. NO. |
|---|----------------------|----------------|---------------------|------------------|-------------|
| ĺ | 4" | 4.545 | 1 1/2 | 1 | 30005 |
| | 6" | 6.69 | 1 1/2 | 1 1/4 | 25296 |



TURTLE WATERTIGHT CAP

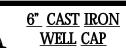
A two piece cast iron cap that features an O-ring seal on the well. Top of the cap removes for easy well servicing. Standard series cap attaches to steel well casing with three square head bolts. Series cap for PVC casing

attaches by solvent welding. Vermin resistant. Painted gree and oven dried.

3

25446

| DESCR | FIG. NO. | PRICE |
|-----------|----------|-------|
| Plastic | 52570 | |
| Cast Iron | 63299 | |



1/4" grounding lug on ring meets national electric code

requiring grounding of submersible pump.

| Nom Well Size | Casing OD | FIG. NO. | PRICE |
|---------------------|--------------|-------------|-------|
| 6&6 | 1/4 | 6-5/8 | 48536 |

ALUMINUM/ABS WELL CAP (low profile)

Constructed of injection-molded ABS

plastic and aluminum. Cap base can be solvent welded directly to PVC well casing. 6-1/4" PVC.

| FIG. NO. | PRICE |
|----------|-------|
| 47616 | |



ALUMINUM WELL CAP

1/2" padlock locator holes to maintain well security.

| FIG. NO. | PRICE |
|----------|-------|
| 23803 | |

MULTI-SIZE SUBMERSIBLE WELL



CAP One size fits 5-5/8", 6", 6

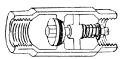
1/4", heavy cast iron construction, Bright red for easy site location. Quick installation. Individually packaged.

| FIG. NO. | PRICE |
|----------|-------|
| 10753 | |

FOOT AND CHECK VALVES

BRASS FOOT VALVE

BRASS CHECK VALVE



3

4

| > | | | شور کے | ومدود | |
|-------------|----------|-------|--------|----------|-------|
| SIZE | FIG. NO. | PRICE | SIZE | FIG. NO. | PRICE |
| 1/2 | 10474 | | 1/2 | 10441 | |
| 3/4 | 10479 | | 3/4 | 10448 | |
| 1 | 10482 | | 1 | 10453 | |
| 1 1/4 | 10485 | | 1 1/4 | 10455 | |
| 1 1/2 | 10487 | | 1 1/2 | 10459 | |
| 2 | 10491 | | 2 | 10461 | |
| 2 1/2 | 10496 | | 2 1/2 | 10464 | |

CONTROLLER CHECK VALVE



Eliminates the Tank Tee With two and four tappings: One for two 1/4" switch and gauge and two 1/8" snifter

valve and 18" drain plug.

| TWO HOLE FO | OUR HOLE |
|-------------|----------|
|-------------|----------|

| SIZE | FIG. NO. | PRICE | FIG. NO. | PRICE |
|-------|-------------|-------|-------------|-------|
| 1 | 10527 | | 10514 | |
| 1 1/4 | 10532 | | 10517 | |
| 1 1/2 | | | 10524 | |
| 2 | | | 10525 | |

BRADY FOOT AND LINE

10500

10505





1) "Nose Cone diffuser 1) Nose Cone - diffuser - 2) Clappet - 2) Clappet - 3) Sealing ring - 4) Valves seat - 5) Strainer (With strainer removed, any Brady Foot becomes a Line Check, which will operate in vertical horizontal or inverted position.

MADE OF ABS **PLASTIC**

| FOOT | CHECK |
|--------|--------|
| VALVES | VALVES |

| SIZE | FIG. NO. | | IG. IO. | PRICE |
|-------|-------------|-----|------------|-------|
| 3/4 | 37652 | 370 | 653 | |
| 1 | 10677 | 100 | 699 | |
| 1 1/4 | 10681 | 10′ | 710 | |
| 1 1/2 | 10685 | 10' | 715 | |

GALVANIZED FOOT VALVES

10467

10472



3

4

| SIZE | FIG. NO. | PRICE |
|---|-------------|-------|
| 1 1/4 1 1/2 2 2 1/2 3 4 5 | | |
| 6 | 10604 | |

GALVANIZED DRIVE **COUPLING**



| PIPE SIZE | FIG. NO. | PRICE |
|-----------|----------|-------|
| | | |
| 1 1/4 | 18972 | |
| 1 1/2 | 18973 | |
| 2 | 18974 | |



4-FOR-1 FOOT **VALVE**

For jet pump, versatile; fits 3/4" through 1-1/4", Corrosion proof

MADE OF ABS PLASTIC

| FIG. NO. | PRICE |
|----------|-------|
| 23173 | |

PUMP BYPASS RELIEF VALVE. Recommended for unloading operating on oil, chemical, non-corrosive substances and water lines Used for pump bypass relief, open tank discharg-

ing and pump closing relief. CAU-TION: SHOULD NOT BE USED AS EMERGENCY OR SAFETY RELIEF VALVE.

Found in the following applications: Water pump bypass, Irrigation, Sprinkler system on golf courses Fountains, Fire protection systems ADJUSTABLE 25-100 LB



PRICE

DRIVE CAP



| FIG. | P |
|-------|---|
| NO. | S |
| 18975 | 1 |

| FIG. NO. | PIPE SIZE | PRICE |
|-------------|--------------|-------|
| 18975 | 1 1/4 | |
| 18976 | 1 1/2 | |
| 18977 | 2 | |

PRESSURE RELIEF VALVE



For pumps, tanks, etc. Set at 75 lbs.

| S | IZE | FIG. NO. | PRICE |
|---|-----|-------------|-------|
| 1 | /2 | 10617 | |
| 3 | 3/4 | 10620 | |

| SIZE | FIG. NO. | PRICE |
|-------|----------|-------|
| 1/2 | 47308 | |
| 3/4 | 47310 | |
| 1 | 47312 | |
| 1 1/4 | 47314 | |
| 1 1/2 | 47316 | |
| 2 | 47318 | |
| 2 1/2 | 47320 | |
| 3 | 47322 | |

For additional information call: 610-275-4453 or Fax: 610-279-6299 Please call for current prices.

FLOMATIC ENVIRO CHECK UNLEADED VALVES

MODEL 80E ENVIRO-CHECK

Lead free bronze body

Threaded female x female connection
Non-spin acetal poppet
Stainless steel spring

| SIZE | FIG. NO. | PRICE |
|---|--|-------|
| 1/2 3/4 1 1 1/4 1 1/2 2 2 1/2 3 4 | 8538 65317 65208 65318 65319 65209 9133 9134 65320 | |

UNLEADED ENVIRO-CHECK FLOMATIC VALVES

The first lead-free bronze check valve, developed by Flomatic Corporation in order to protect potable water from lead contamination.

| Nominal Chemistry | | |
|--|------|--|
| Copper (Cu) | 88% | |
| Tin (Sn) | 3.5% | |
| Lead (Pb) | 0% | |
| Zinc (Zn) | 7% | |
| Nickel (Ni) | .5% | |
| Bismugh | 1% | |
| *Lead free bronze alloy (Federally #1) less than 0.1% lead | | |



MODEL 80BE ENVIRO-CHECK

Same as 80E with two drilled and tapped holes 1/8" inlet side and 1/4" outlet side

| SIZE | FIG. NO. | PRICE |
|-------|----------|-------|
| 1 | 65210 | |
| 1 1/4 | 9139 | |
| 1 1/2 | 39056 | |
| 2 | 39057 | |



MODEL 80XBE ENVIRO-CHECK

Same as 80E

With two 1/4" tapped holes on outlet side for pressure switch and gauge

| SIZE | FIG. NO. | PRICE |
|------|----------|-------|
| 1 | 65325 | |



MODEL 80CE ENVIRO-CHECK

Same as 80E

Control center for submersible pump installations with four tappings, one 1/8" inlet side, two 1/4" outlet side and one

1/8" outlet side with brass plug.

| SIZE | FIG. NO. | PRICE |
|--------------------------|--------------------------------|-------|
| 1 1 1/4 1 1/2 2 | 65321 9163 9145 65322 | |



MODEL 80ME ENVIRO-CHECK

Submersible pump check valve Lead free bronze (FEDRALLOY #1) body.

| SIZE | FIG. NO. | PRICE |
|------|----------|-------|
| 1 | 65324 | |



MODEL 100E Bronze In-Line Check Valve

Easy wrenching hex bronze body construction. High strength acetal poppet, stainless steel spring, Buna-N seal. 1".

| SIZE | FIG. NO. | PRICE |
|------|----------|-------|
| 1" | 33004 | |



MODEL 60s BRONZE FOOT

Cast bronze body
Threaded female connection
Features a NITRILE (Buna-N) seal
Acetal/bronze poppet, stainless spring and
screen

| SIZE | FIG. NO. | PRICE |
|-------|----------|-------|
| 1 /0 | 0.410 | |
| 1/2 | 8413 | |
| 3/4 | 8435 | |
| 1 | 65311 | |
| 1 1/4 | 65312 | |
| 1 1/2 | 65313 | |
| 2 | 65314 | |
| 2 1/2 | 8509 | |
| 3 | 8522 | |
| 4 | 8529 | |
| | | |



MODEL 50 BALL CHECK

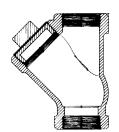
Cast iron body threaded female x female connection. Corrosion resistant Phenolic

"sinking ball. Temp Max. 180 ^O F Pressure Max. 150 PSI.

| SIZE | FIG. NO. | PRICE |
|-------|----------|-------|
| 1 | D172039 | |
| 1 1/4 | D172040 | |
| 1 1/2 | D172041 | |
| 2 | D172042 | |
| 2 1/2 | D172043 | |
| 3 | D172044 | |
| 4* | D172045 | |

^{*}Flanged

Also available with "floating ball" for flood control or air vent (Model 50F)

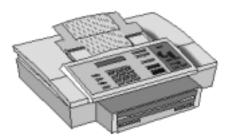


MODEL 208 BALL CHECK

Cast iron uni-body with cleanout port threaded female x female connection. Features NTIRILE (Buna-N) "sinking ball". Temp Max. 180 ^O F Pressure Max. 150 PSI.

| SIZE | FIG. NO. | PRICE |
|-------|----------|-------|
| 1 1/4 | D172141 | |
| 2 | D172142 | |

FAX YOUR ORDER! 610-279-6299



CHECK VALVES MODES 208T/208S PVC BALL CHECK

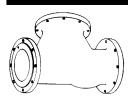


Corrosion resistant

PVC body threaded female x female connection NITRILE (Buna-N) self-cleaning ball. EZ access port with nitrile seal. Temp. Max 180oF Pressure Max. 150 PSI.

| SIZE | FIG. NO. | PRICE |
|-------|----------|-------|
| 1 | D172131T | |
| 1 1/4 | D172132T | |
| 1 1/2 | D172133T | |
| 2 | D172134T | |

Also available with socket weld (slip). (Model 208S).



MODEL 408 BALL CHECK

Cast iron body and access port. Flanged connection ANSI 125 NITRILE (Buna-N) covered metal ball (sinking type), stainless fasteners

"Standard of the wastewater industry". Temp Max. 180° F Pressure Max. 150 PSI.

| SIZE | FIG. NO. | PRICE |
|------|----------|-------|
| 3 | D172144 | |
| 4 | D172145 | |
| 5 | D172143 | |
| 6 | D172146 | |
| 8 | D172147 | |
| 10 | D172148 | |
| 12 | D172149 | |
| 14 | D172150 | |

Also available with "floating ball" for "anti-flooding" (Model 408F)



INSERT FITTINGS & VALVES STAINLESS STEEL WELL STAINLESS STEEL

STAINLESS STEEL ÍNSÉRT FTTTINGS

ALL MACHINED FROM 316 ALLOY STAINLESS STEEL PIPE

MALE ADAPTER 50487 1/2

3/4 MASS-3 1 48688 1 1/4 MASS-5 11/2MASS-6 2 MASS-8

EXTRA LONG MALE ADAPTER

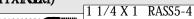


REDUCING MALE ADAPTER (MPTXINSERT)



1 1/4 X 1 62983

EXTRA LONG REDUCING MALE ADAPTER



COUPLING



CSS4 1 1/4 CSS5

HEX BUSHING (MPTXFPT)



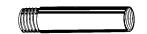
1 1/4 X 1 6960

SCREEN



| SIZE | ri u . NU. | PRICE |
|------------|-----------------------|-------|
| 1 1/4"X5' | SSS0105 | |
| 1 1/4"X10' | SSS0110 | |
| 2"X5' | SSS0205 | |
| 2"X10' | SSS0210 | |
| 4"X5' | SSS0405 | |
| 4"X10' | SSS0410 | |
| 5"X5' | SSS0505 | |
| 5"X10' | SSS0510 | |
| 6"X5' | SSS0605 | |
| 6"X10' | SSS0610 | |
| 8"X5' | SSS0805 | |
| 8"X10' | SSS0810 | |
| OTTATE | DIO NO | DDIGE |

STAINLESS STEEL CASING TYPE 304 STAINLESS STEEL



| SIZE | FIG. NO. | PRICE |
|------------|----------|-------|
| 1 1/4"X5' | SSC0105 | |
| 1 1/4"X10' | SSC0110 | |
| 2"X5' | SSC0205 | |
| 2"X10' | SSC0210 | |
| 4"X5' | SSC0405 | |
| 4"X10' | SSC0410 | |
| 5"X5' | SSC0505 | |
| 5"X10' | SSC0510 | |
| 6"X5' | SSC0605 | |
| 6"X10' | SSC0610 | |
| 8"X5' | SSC0805 | |
| 8"X10' | SSC0810 | |
| | 1 411 | |

Stainless points, threaded plugs, threaded caps and slip caps also available!

STAINLESS STEEL BAILERS

| FIG. NO. | PRICE |
|----------|-------------------------------|
| SSB0121 | |
| SSB0139 | |
| SSB0220 | |
| 22B0236 | |
| | SSB0121 SSB0139 SSB0220 |

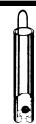
STAINLESS STEEL CHECK

VALVE

304 Stainless Steel Body

304 Stainless Steel

Viton "O" Ring Seal



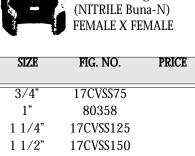
STAINLESS STEEL VALVES



MODEL100MSS **ENVIRO-CHECK**

303 Stainless Steel on piece body construction High strength acetal poppet (optional Tefzel poppet for corrosive liquid available. Stainless Steel spring, Buna-N seal. MALE X FEMALE.

| SIZE | FIG. NO. | PRICE |
|--------------|-----------|-------|
| 1/2"Mx1/2"F | 47564 | |
| 3/4"Mx 3/4"F | 17-4218SS | |
| 1"Mx1"F | 17-4220SS | |
| 1 1/4"x1"F | 17-4221SS | |
| 11/4Mx11/4F | 17-4242SS | |
| 11/2Mx11/2F | 17-4232SS | |



Poppet

2" 17CVSS200 3" 17CVSS300 4" 17CVSS400



STAINLESS STEEL FOOT VALVE

Stainless Steel Body and Poppet Stainless Steel Screen Viton "O" Ring Seal

| SIZE | FIG. NO. | PRICE |
|--------|-----------|-------|
| 1/2" | 17FVSS50 | |
| 3/4" | 17FVSS75 | |
| 1" | 17FVSS100 | |
| 1 1/4" | 17FVSS125 | |
| 1 1/2" | 17FVSS150 | |
| 2" | 17FVSS200 | |
| 3" | 17FVSS300 | |
| 4" | 17FVSS400 | |

Page 432 For additional information call: 610-275-4453 or Fax: 610-279-6299.

MALE ADAPTER





| | STEEL | | BRA | ASS |
|-------|-------|-------|-------|-------|
| SIZE | FIG. | PRICE | FIG. | PRICE |
| 1/2 | 10887 | | 11203 | |
| 3/4 | 10892 | | 11205 | |
| 1 | 10897 | | 11208 | |
| 1 1/4 | 10906 | | 11210 | |
| 1 1/2 | 10917 | | 11212 | |
| 2 | 10923 | | 11214 | |
| 2 1/2 | 18301 | | - | - |
| 3 | 20023 | | - | - |
| 4 | 20024 | | - | - |
| 6 | 20025 | | - | - |

COUPLING





| | STEEL | | BR | ASS |
|-------|-------------|-------|-------------|-------|
| SIZE | FIG. NO. | PRICE | FIG. NO. | PRICE |
| 1/2 | 11136 | | 11216 | |
| 3/4 | 11139 | | 11217 | |
| 1 | 11140 | | 11218 | |
| 1 1/4 | 11142 | | 11220 | |
| 1 1/2 | 11144 | | 11221 | |
| 2 | 11146 | | 11222 | |

VENTURI MALE ADAPTER



| | | S | LEEL | BR | ASS |
|-----------|------|-----|-------|----------|-------|
| SIZE | FIG. | NO. | PRICE | FIG. NO. | PRICE |
| | | | | | |
| 1 X 8 | 111 | 75 | | 19644 | |
| 1 1/4 X 8 | 111 | 176 | | 19645 | |

FOR INSERT FITTINGS POLY PLEASE SEE PAGES 0 - 6 1

METAL INSERT FITTINGS



| SIZE | FIG. NO. | PRICE |
|---------------------------|----------|-------|
| 3/4 | AVAII | ABLE |
| 1X3/4 1 1/4 | В | Y |
| 1 1/4 1 1/4X1 1 1/2 | SPECIAL | ORDER |

Brass

ONE PIECE ELL



11/2

| SIZE | FIG. NO. | PRICE |
|-------|----------|-------|
| 3/4 | 23524 | |
| 1 | 23525 | |
| 1 1/4 | 22462 | |

FEMALE ADAPTER

23526



| | SIT | ŒL | BRA | ASS |
|-------|-------------|-------|-------------|-------|
| SIZE | FIG. NO. | PRICE | FIG. NO. | PRICE |
| 1/2 | 11181 | | 11224 | |
| 3/4 | 11183 | | 11225 | |
| 1 | 11185 | | 11227 | |
| 1 1/4 | 11187 | | 11229 | |
| 1 1/2 | 11189 | | 11231 | |
| 2 | 11190 | | 11232 | |

EXTRA LONG COUPLING



| | | STEEL | B | RASS |
|------|-------|-------|-------|-------|
| SIZE | FIG. | PRICE | FIG. | PRICE |
| | NO. | | NO. | |
| 1 | 35845 | | 33203 | |

EXTRALONG ADAPTER



| Size | Fig. No. | Price |
|-------|----------|-------|
| | BRASS | |
| 1 | 11246 | |
| 1 1/4 | 11247 | |

| | STEEL | |
|-------|-------|--|
| 1 | 11241 | |
| 1 1/4 | 11243 | |

CAST ROPE ADAPTER





| SIZE | FIG. NO. | PRICE |
|------|----------|-------|
| 1 | 18149 | |

REDUCING ADAPTER



| SIZE | FIG. NO. | PRICE |
|-----------|----------|-------|
| 1 X 3/4 | 47415 | - |
| 1 1/4 X 1 | 11251 | |

WELL SEAL ELLS



| Insert X Insert | | | |
|-----------------|---------------|-------|--|
| SIZE | FIG. NO. | PRICE | |
| 1 | 11194 | | |
| 1 1/4 | 11196 | | |
| | Insert X Male | | |

| SIZE | FIG. NO. | PRICE |
|-------|----------|-------|
| 1 | 34097 | |
| 1 1/4 | 11197 | |

WE'RE WAITING FOR YOUR CALL! 6 1 0 - 2 7 5 - 4 4 5 3

PUMP ACCESSORIES

BRADY



NON-REPAIRABLE

| FIG. NO. | TANK CAP | TANK Conn | PUMP CONN | PRICE |
|----------|----------|--------------|--------------|-------|
| 10758 | 45 | 1/4 MPT | 1/4 M | |
| | | | COMP | |
| 10770 | 80 | 1/4 MPT | 1/8 FIP | |
| 10761 | 120 | 3/8 MPT | 1/4 M | |
| | | | COMP | |
| 10764 | 120 | 3/8 MPT | 1/8 FIT | |

PIPE WRAP TAPE



General purpose vinyl plastic tape **3M TEMFLEX.** 2" wide x 100'.

| Temperature range = | $-10^{\circ}\text{C}/+80^{\circ}\text{C}$ |
|---------------------|---|
|---------------------|---|

FIG. NO.

82344

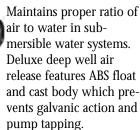
TYPE ALL PLASTIC DEEP WELL AIR RELEASE

Maintains proper ratio of air to water in submersible water systems. All polyethylene construction, including float, will not cor-



rode - includes gauge port and 0-40 lb. limited bleed adjustment

| <u>Def</u> | <u>P</u> | <u>WEL</u> | <u>[</u> |
|------------|----------|------------|----------|
| <u>AIR</u> | RI | ELEAS | Έ |



DESCR

10 MIL

| FIG. NO. | PRICE |
|----------|-------|
| 10776 | |

AIR VOLUME CONTROL TYPE



Type "L"
Preserves correct proportion of water and air in shallow well reciprocating pump systems. Includes tubing and fittings.

PRICE

| FIG. NO. | PRICE |
|----------|-------|
| 10782 | |

FIG. NO. PRICE 32856

JACUZZI JET CHARGER

This automatic jet charger is an effective devise for maintaining the proper air charge in a pressure tank. It is suitable for use with deep and shallow well jet pumps, and on centrifugal and booster installations. Series 225A automatic jet charger is designed for maximum working pressure of 75 psig and is not recommended for

tanks larger than 120 gallons.

| FIG. NO. | PRICE |
|----------|-------|
| 10798 | |

BACK CONNECTION PRESSURE GAUGE



| SIZE | FIG. NO. | PRICE |
|------|----------|-------|
| 1/8 | 10614 | |

PUMP PRESSURE GAUGE



- *All brass and bronze movement
- *Eliminates sticking and hanging up
- *Easier to read **2" Dial 1/4" x 100 lb.**

| FIG. NO. | PRICE |
|----------|-------|
| 10610 | |



For additional information call: 610-275-4453 or Fax: 610-279-6299.

Please call for current prices.

TANK CROSSES

LONG TANK CROSS-CAST



| FIG. NO. | LENGTH | OUTSIDE | INSIDE | TOP | FRONT | P[RICE |
|----------|--------|---------|--------|------|-------|--------|
| 10548 | 10" | 1X1X1 | 3/4" | 1/4" | 1/2" | |

LONG TANK CROSS-FABRICATED



| FIG. NO. | LENGTH | OUTSIDE | INSIDE | TOP | FRONT | PRICE |
|----------------|------------|-------------------------|--------|--------------|--------------|-------|
| 25884 10561 | 13" 16" | 1X1X1 11/4X11/4X11/4 | 3/4" | 1/4" 1/4" | 1/2" 1/2" | |

WELL-X-TROL TANKS ARE AVAILABLE IN SIZES UP TO 528 GALLONS IN VOLUME

CALL FOR ASME RATED TANKS

SHORT TANK CROSS



| FIG. NO. | SIZE | PRICE |
|------------------|-----------|-------|
| (Brass) 10577 | 1X3/4X3/4 | |
| (Brass) 33936 | 1 1/4X1X1 | |

PUMP OR TANK PROBLEM?

CALL DUFF!

WE HAVE THE SOLUTION!

610-275-4453

SELECTION TABLE - WELL-X-TROL

| DELECTION TABLE - WELL-X-TROL | | | | | |
|--|--------------------------|---|----------------------------|--|--|
| | | PRESSURE SWITCH | | | |
| OLD-STYLE PRES- SURE TANK SIZE (volume in gallons) | WELL-X-TROL MODEL NO. | WELL-X-TROL PRE- CHARGE PUMP CUT- IN PRESSURE | PUMP CUT-OUT PRES- SURE | | |
| 6 | WX-101 | 20 PSI | 40 PSI | | |
| 12 | WX-102 | 20 PSI | 40 PSI | | |
| 20 | WX-103 | 30 PSI | 50 PSI | | |
| 30 | WX-200 | 30 PSI | 50 PSI | | |
| 30 | WX-201 | 30 PSI | 50 PSI | | |
| 42 | WX-202 | 30 PSI | 50 PSI | | |
| 82 | WX-203 | 30 PSI | 50 PSI | | |
| 120 | WX-250 | 30 PSI | 50 PSI | | |
| 225 | WX-302 | 25 PSI | 50PSI | | |

For additional information call: 610-275-4453 or Fax: 610-279-6299 Please call for current prices.

PUMP STAND

For vertical mounting of pump on Well-X-Trol models W X 2 0 1 , /WX201,-IN, E\WX-202, WX-202-IN and WX203

| FIG. NO. | PRICE |
|----------|-------|
| 10833 | |

Vertical mounting of pump on Well-X-Trol models WX-250, WX-251 and WX-252.

| FIG. NO. | PRICE |
|----------|-------|
| 44484 | |

IN-LINE MODELS

RESIDENTIAL WELL-X-TROL TANKS



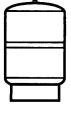
AMTROL.

| MODEL | DIMEN | NSIONS | TOTAL | I | DRAWDOW | N | SHIP | FIG. NO | PRICE |
|--------|--------|------------|--------|--------|----------------|--------|------------|---------|-------|
| NO. | DIA | HEIGHT | VOLUME | 20/40 | 30/50 | 40/60 | WT (VOL | | |
| | (INS) | (INS) | (GALS) | (GALS) | (GALS) | (GALS) | LBS (CUFI) | | |
| WX-101 | 8 | 12 5/8 | 2.0 | .8 | .6 | .5 | 5 (0.6) | 7764 | |
| WX-102 | 11 | 15 | 4.4 | 1.6 | 1.4 | 1.2 | 9 (1.2) | 7768 | |
| WX-103 | 11 | $24 \ 3/4$ | 8.6 | 3.1 | 2.7 | 2.2 | 15 (2.0) | 7771 | |
| WX-104 | 15 3/8 | 17 3/8 | 10.3 | 3.8 | 3.2 | 2.8 | 20 (2.6) | 7774 | |
| wX-200 | 15 3/8 | 22 | 14.0 | 5.2 | 4.3 | 3.8 | 25 (3.3) | 7780 | |

Precharge Pressure for WX-101 & WX-102 is 20 PSIG and Sys. Conn. is 3/4" NPTM.

Precharge Pressure for WX-103 is 30 PSIG and Sys. conn. is 3/4" NPTM.
Precharge Pressure for WX-104 and EX-200 is 30 PSIG and Sys.Conn. is 1" NPTM.
Maximum Working Pressure is 100 PSIG and Maximum Working Temperature is 200°F.

STAND MODELS



| | MODEL | DIMEN | NSIONS | TOTAL | | DRAWDOW. | N | SHIP | FIG. NO | PRICE |
|--------|----------|--------|------------|--------|--------|----------|--------|------------|---------|-------|
| | NO. | DIA | HEIGHT | VOLUME | 20/40 | 30/50 | 40/60 | WT (VOL | | |
| | | (INS) | (INS) | (GALS) | (GALS) | (GALS) | (GALS) | LBS (CUFT) | | |
| | WX-104-S | 15 3/8 | 19 1/4 | 10.3 | 3.8 | 3.2 | 2.8 | 25 (3.0) | 7777 | |
| | WX-201 | 15 3/8 | 237/8 | 14.0 | 5.1 | 4.3 | 3.7 | 27 (3.8) | 7781 | |
| | WX-202 | 15 3/8 | 315/8 | 20.0 | 7.3 | 6.2 | 5.4 | 35 (4.9) | 7784 | |
| | WX-203 | 15 3/8 | $46 \ 3/8$ | 32.0 | - | 9.9 | 8.6 | 43 (7.0) | 7786 | |
| | WX-205 | 22 | 29 1/2 | 34.0 | 12.4 | 10.5 | 9.1 | 61 (9.5) | 43262 | |
| AMTROL | WX-250 | 22 | 35 5/8 | 44.0 | 16.3 | 13.6 | 11.9 | 69 (11.0) | 7789 | |
| | WX-251 | 22 | $46\ 3/4$ | 62.0 | 22.9 | 19.2 | 16.7 | 92 (13.9) | 46830 | |
| | WX-302 | 26 | $47\ 3/16$ | 86.0 | 31.8 | 26.7 | 23.2 | 123 (18.9) | 29811 | |
| | WX-350 | 26 | 617/8 | 119.0 | 44.0 | 36.9 | 32.1 | 166 (24.5) | 30032 | |

UNDERGROUND MODELS



| MODEL | DIME | NSIONS | TOTAL | DRAWDOWN | | | SHIP | FIG. NO | PRICE |
|-----------|-------|--------|--------|----------|--------|--------|------------|---------|-------|
| NO. | DIA | HEIGHT | VOLUME | 20/40 | 30/50 | 40/60 | WT (VOL | | |
| | (INS) | (INS) | (GALS) | (GALS) | (GALS) | (GALS) | LBS (CUFT) | | |
| WX1250UG | 22 | 33 3/8 | 44.0 | 16.3 | 13.6 | 11.9 | 63 (11.0) | 59993 | |
| WX-251-UG | 22 | 44 1/2 | 62.0 | 22.9 | 19.2 | 16.7 | 83 (13.9) | 76587 | |

Precharge Pressure for Models 200-UG and 202-UG is 30 PSIG ans Sys. conn. is 1" NPTF Coupling Precharge Pressure for Models 250-UG and 251-UG is 38 PSIG; Sys. Conn is $1\,1/4$ " NPTF Coupling Maxmimum Working Pressure is 100 PSIG and Maximum Working Temperature is 200^{0} F.

AMTROL™

PUMP STAND MODELS



| | MODEL | DIMEN | ISIONS | TOTAL | Γ | DRAWDOW | N | SHIP | FIG. NO | PRICE |
|---|-----------|--------|--------|--------|--------|---------|--------|------------|---------|-------|
| | NO. | DIA | HEIGHT | VOLUME | 20/40 | 30/50 | 40/60 | WT (VOL | | |
| | | (INS) | (INS) | (GALS) | (GALS) | (GALS) | (GALS) | LBS (CUFT) | | |
| = | WX-200-PS | 17 1/4 | 15 5/8 | 14.0 | 5.2 | 4.3 | 3.8 | 29 (4.0) | 41013 | |

Precharge Pressure is 30 PSIG ans Sys. conn. is 1" NPTF Coupling. Maxmimum Working Pressure is 100 PSIG and Maximum Working Temperature is 200°F.

AMTROL

OFFSET CONNECTOR MODELS

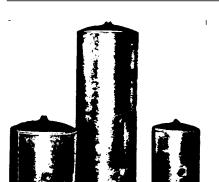


| MODEL | DIMEN | NSIONS | TOTAL | TAL DRAWDOWN | | SHIP | FIG. NO | PRICE | |
|-----------|--------|--------|--------|--------------|--------|--------|------------|-------|--|
| NO. | DIA | HEIGHT | VOLUME | 20/40 | 30/50 | 40/60 | WT (VOL | | |
| | (INS) | (INS) | (GALS) | (GALS) | (GALS) | (GALS) | LBS (CUFT) | | |
| WX-201-OC | 15 3/8 | 24 5/8 | 14.0 | 5.1 | 4.3 | 3.8 | 25 (3.8) | 19812 | |
| | | | | | | | | | |

AMTROL™

DUFF CO.

GALVANIZED PUMP TANKS



RETENTION TANKS

| | <u>75#</u> | | <u>150</u> | <u>0#</u> | | | |
|-------------|------------------------------|----------------------|---------------------|-------------|-------|----------|-------|
| FIG. NO. | Capacity (actual gallons) | Diameter (inside) | Length (overall) | Weight Lbs. | PRICE | FIG. NO. | PRICE |
| 25514 | 30 | 16 | 38 | 56 | | | |
| 7854 | 42T | 16 | 50 | 67 | | 7869 | |
| 7858 | 42S | 20 | 35 | 75 | | 35044 | |
| 7861 | 80 | 20 | 63 | 115 | | 45438 | |
| 7864 | 120 | 24 | 63 | 195 | | | |
| 23340 | 220 | 30 | 73 | 290 | | | |
| 42884 | 310 | 36 | 74 | 390 | | | |
| 42885 | 530 | 36 | 124 | 535 | | | |



STRUCTURAL Fiberglass Retention Tanks

Safe for the environment (No lead or other metals) Resists chemical attack and corrosion

Seamless, uniform inner shell made of NSF listed polyethylene

No tank coatings needed

Same high strength steel, with about half the weight Easy to handle and install

75 psig operating pressure

1 1/4" NPT connection on top and bottom (custom openings also offered.

Five year warranty from date of manufacture.

| FIG. NO. | Capacity (gallon/litre) | Height (inches) | Diameter (inches) | PRICE |
|-------------|----------------------------|--------------------|----------------------|-------|
| 47942 | 80 | 67 | 21 | |
| 47943 | 120 | 73 | 24 | |
| | | | | |

GLASS LINED RETENTION TANKS

| 50798 | RT42T | |
|-------|--------|-------------|
| 50799 | RT80T | |
| 50800 | FT120T | |
| | 50799 | 50799 RT80T |

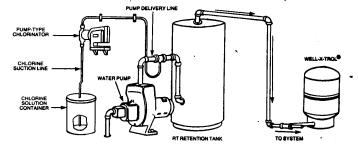
Epoxy Coated Retention tanks

Baked on finish

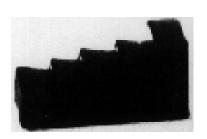
Epoxy coat inside

Oven baked outside

Typical installation w/Chemical Feed Pump



| FIG. NO. | Capacity (gallon) | Size (D" X H") | Approx. weight, Lbs. | PRICE |
|-------------|----------------------|-------------------|-------------------------|-------|
| 50799 | 80 | 20x64 | 84 | |
| 50800 | 120 | 24x66 | 139 | |
| | | | | |



TANK LEGS

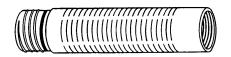
Elevates tank above floor Leveled on uneven floors

| FIG. NO. | PRICE |
|----------|-------|
| 10574 | |

DUFF DIFFERS!

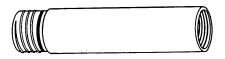
For additional information call: 610-275-4453 or Fax: 610-279-6299 Please call for current prices.

STANDARD SCH 40 PVC WELL SCREENS WITH MALE X FEMALE FLUSH THREAD



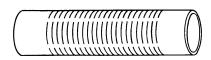
| SIZE | .010 SLOT | PRICE | .020 SLOT | PRICE |
|-----------|--------------|-------|--------------|-------|
| 2"x2 1/2' | 48672 | | 48679 | |
| 2"x5' | 48673 | | 48680 | |
| 2"x10' | 48674 | | 17811 | |
| 2"x20' | 48675 | | 48681 | |
| 4"x2 1/2" | 48676 | | 48685 | |
| 4"x5' | 48677 | | 43652 | |
| 4"X10' | 17810 | | 21261 | |
| 4"X20' | 48678 | | 48682 | |

STANDARD SCH 40 PVC CASING WITH MALE X FEMALE FLUSH THREAD (NON-SLOTTED)



| SIZE | FIG. NO. | PRICE |
|-----------|----------|-------|
| 2"x2 1/2' | 30196 | |
| 2"x5' | 30327 | |
| 2"x10' | 48669 | |
| 2"x20' | 48670 | |
| 4"x2 1/2' | 21266 | |
| 4"x5' | 21264 | |
| 4"X10' | 21267 | |
| 4"X20' | 48671 | |

STANDARD SCH 40 PVC WELL SCREEN PLAIN ENDS (NON-THREADED)



| SIZE | .016 SLOT | PRICE | .010 SLOT | PRICE | .020 SLOT | PRICE |
|------|--------------|-------|--------------|-------|--------------|-------|
| 2x10 | 52584 | | - | - | - | - |
| 4x10 | - | - | 51609 | | 51610 | |

PVC FLUSH JOINT PLUGS

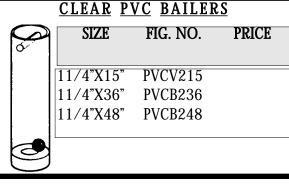


PVC FLUSH JOINT CAPS



| SIZE | FIG. | PRICE | SIZE | FIG. | PRICE |
|------|-------|-------|------|-------|-------|
| | NO. | | | NO. | |
| 2" | 30197 | | 2" | 30195 | |
| 4" | 21262 | | 4" | 21263 | |
| | | | | | |

PURE GOLD BENTONITE





| | DESCR | FIG. NO. | PRICE |
|---|-----------------|----------|-------|
| | 5 Gallon Pail | 48683 | |
| 1 | 3/8 tablets | | |
| | 50 LB bag chips | 48684 | |
| | 50 LB bag one | | |
| | step grout | 25041 | |
| | 1 0 | | |
| | | | |

MONITORING WELL MANHOLE

12 X 12 flush Mount Monitoring Well Manhole. The 8" EWP Manhole is intended to be used as an access port for monitoring well installed in a driveway. It is designed to help protect the well from

way. It is designed to help protect the well from any unauthorized access.

The Cover has the works "monitoring well" cast into it in large letters. Two bolts hold the cover tightly to the rim making it accessible only with a wrench. A Guna-N gasket prevents surface water or product from entering the contaminating the well. Inside diameter will accommodate with a contaminating the well.

modate up to a 4" well plug.

| SIZE | FIG. NO. | PRICE |
|-------|----------|-------|
| 12X12 | 53406 | |
| 8X12 | 48686 | |
| | | |

