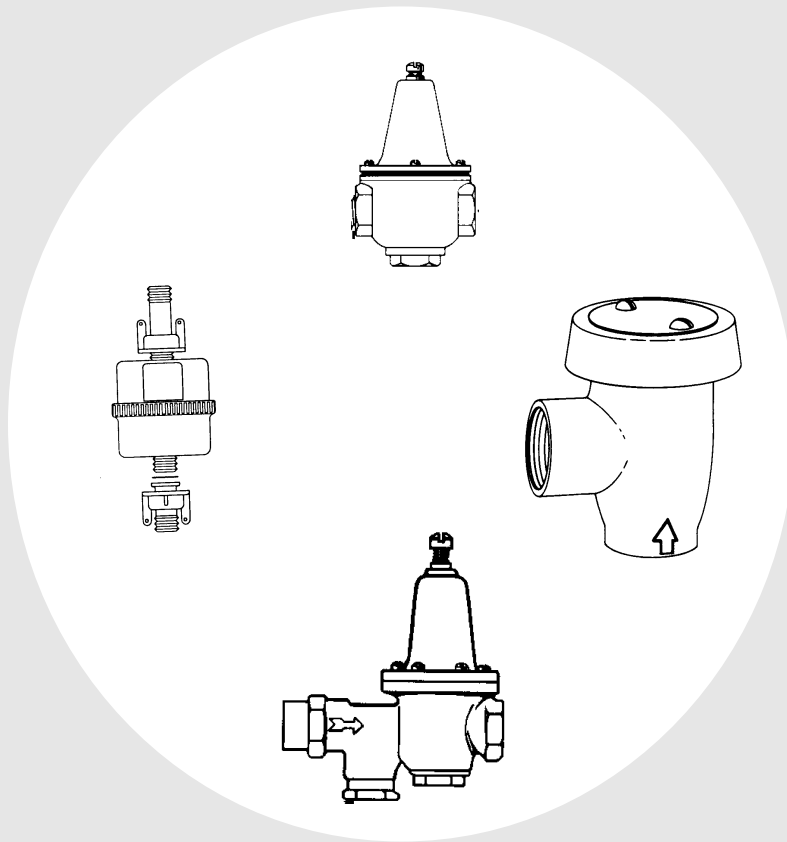
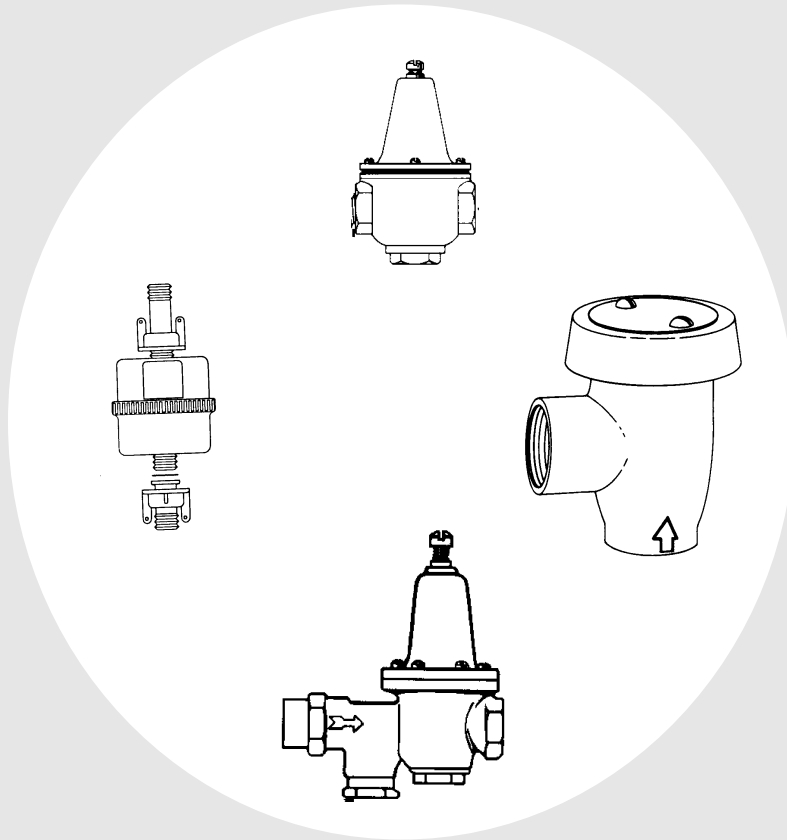


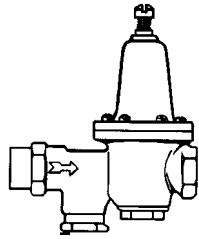
WATER REGULATORS, BACKFLOW PREVENTERS AND METERS



WATER REGULATORS, BACKFLOW PREVENTERS AND METERS



WATTS WATER PRESSURE REDUCING VALVE



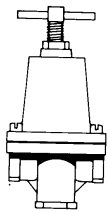
WATTS U5B- Standard capacity water pressure reducing valve with integral strainer. For residential, commercial and industrial applications. Furnished with NPT union inlet and NPT female outlet, for sizes 1/2" through 2". Suitable for initial pressure unless otherwise specified. Max. temp. 160oF. Bronze body construction, Stainless Steel integral strainer, renewable stainless steel seat, high temperature resistant diaphragm. Built-in thermal expansion by-pass equalizing feature to relieve thermal expansion in closed systems.

AVAILABLE - low pressure range - U5BLP 10-35. Set 30 LB 1/2 to 1".

AVAILABLE - high pressure range - U5B HP Range 75-100. Set 90#.

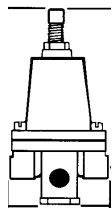
AVAILABLE - low pressure range - U5BLP 10-35. Set 30 LB 1/2 to 1".

SIZE	FIG. NO.	PRICE
1/2	3584	
3/4	4109	
1	3595	
1 1/4	3651	
1 1/2	3655	
2	3661	



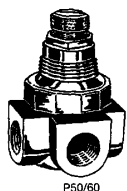
No. 26A WATTS 26A water pressure regulators for water, No. 2 fuel oil and other liquids. Brass body regulators readily meet requirements for beverage dispensing equipment, paint spraying, drinking fountains and many other services. Initial pressures up to 300 lbs. Female inlet and outlet connections. Max temp 140oF.

SIZE	SET	FIG. NO.	PRICE
1/8	1-25	3699	
1/4	1-25	76759	
1/4	3-50	3705	
1/4	10-125	76760	
3/8	1-25	76761	
3/8	3-50	3709	
3/8	10-125	76763	
1/2	1-25	76765	
1/2	3-50	3712	
1/2	10-125	76764	



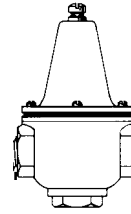
WATTS SS-263AP - Same as above but with stainless steel body and spring cage. Max. temp 120oF. Initial pressure 400 PSI

SIZE	FIG. NO.	PRICE
3/8	29941	
1/2	29942	



WATTS P50, P60 (1/4") - Suitable to be used with deionized operated equipment. NSF approved grade acetal plastic body. Max supply pressure - 300 PSI. Operating temperature range - 0-150oF. Reduced pressure ranges available: 0-25/0-60/0-125. 1/4 lb.

FIG. NO.	PRICE
45053	



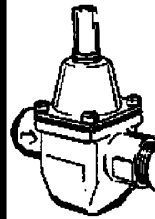
WATTS 223 (1/2" to 2 1/2") N223B (2 1/2", 3") - Super capacity water pressure reducing valves with and without separate strainers. Series 223 and N223B are one of the most experience proven designs available. For commercial, institutional or industrial applications. Initial pressures up to 300 lbs. Reduced pressure range

25-75 lbs. Set for 50 lbs. delivery pressure unless otherwise specified. NPT female inlet and outlet. Max. temperature 160oF. Bronze body.

AVAILABLE - low pressure range 1--35 lbs. Set for 30 lbs unless otherwise specified.

AVAILABLE - high pressure range 1/2", 3/4", 1" 50-145; 1 1/4" 50-120; 1 1/2"-2 1/2" , 50-95 lbs.

SIZE	FIG. NO.	PRICE
1/2	33112	
3/4	33113	
1	33114	
1 1/4	33115	
1 1/2	33116	
2	33117	
2 1/2	33120	



WATTS 123LP - Super sensitive low pressure regulators for water, No. 2 fuel oil and other liquids. Especially engineered for precision regulation and features an extra large diaphragm to assure close control of reduced pressure. Forged, brass body. NPT female inlet and outlet. Initial pressures up to 300 lbs. Max. Temp 120oF. High performance low pressure water regulator. Size 1/2" reduced pressure range 10-30 lbs.

SIZE	FIG. NO.	PRICE
1/2"	21990	
3/4"	28384	

PILOT OPERATED CONTROL VALVES

For waterworks, commercial, irrigation, fire protection systems and controls.

Watts ACV manufactures automatic control valves to solve a wide variety of fluid control problems. Pacesetting features include our exclusive, positive-closure QUAD-RING SEAT SEAL, a non-edged seat, and a high-protection, FDA Approved, FUSED epoxy finish. In-line maintenance is minimal. Sizes range from 1/4" - 16" globe pattern and 1/4" - 12" angle pattern. End connections in threaded, grooved and flanged. Main valve materials are available in cast iron, ductile iron, steel, aluminum, bronze and aluminum bronze. Pilot operated, diaphragm actuated, the valve is capable of numerous functional combinations within these categories:



CLAY AND MUESCO VALVE ALSO AVAILABLE!

DUFF CO. REGULATORS-BACKFLOWPREVENTERS-METERS

FOUR BASIC TYPES OF BACKFLOW PREVENTERS

	TYPE & PURPOSE	DESCRIPTION	INSTALLED AT	EXAMPLES
1	REDUCED PRESSURE ZONE BACKFLOW PREVENTER For high hazard cross connections and continuous pressure application.	Two independent check valves with intermediate relief valve. Supplied with shut-off valves and ball type test cocks.	All cross-connections subject to backpressure or back siphonage where there is a high potential health contamination. continuous pressure.	Main supply lines Commercial boilers Hospital Equip Lab equipment Waste digesters Car washes
	REDUCED PRESSURE DETECTOR ASSY High hazard.	RPZ valve backflow preventers with a water meter and RPZ in by pass line.	Fire protection system supply main. Detects leaks and unauthorized use of water.	Fire Sprinkler Lines
2	DOUBLE CHECK VALVE ASSEMBLY For low hazard cross connections and continuous pressure applications.	Two independent check valves. Checks are replaceable for repair & testing.	All cross-connections subject to backpressure or back siphonage where there is a low potential health contamination. Continuous pressure.	Main supply lines Food cookers Tanks & vats Lawn sprinklers Fire sprinkler lines Commercial pools
	DOUBLE CHECK DETECTOR ASSY Low hazard	Double check valve backflow preventers with a water meter and double check in by pass line.	Fire protection system supply main. Detects leaks and unauthorized use of water.	Fire sprinkler lines
	DUAL CHECK VALVE BACKFLOW PREVENTER For low hazard cross-connections. Continuous pressure applications.	Two independent check valves. Checks are replaceable for repair & testing.	Cross connections where there is a low potential health hazard and moderate flow requirements.	Res supply lines (at the meter) Residential fire sprinkler systems
3	SPECIALTY BACKFLOW PREVENTERS with INTERMEDIATE ATMOSPHERIC VENT For low hazard cross-connections in small pipe sizes. Continuous pressure app.	Two independent check valves with intermediate vacuum breaker and relief vent.	Cross connections subject to backpressure or backsiphonage where there is low health hazard. Continuous pressure. Pressure outlet to prevent backflow of carbon dioxide gas and carbonated water into the water supply system to beverage machines.	Boilers (small) Cooling towers (small) Dairy equipment Post-mix carbonated beverage machine
	LABORATORY FAUCET DUAL CHECK VALVE WITH INTERMEDIATE VACUUM BREAKER In small pipe sizes for low hazard.	Two independent check valves with intermediate vacuum breaker and relief vent.	Cross connection subject to backpressure or back siphonage where there is a health hazard.	Lab faucets and pipe lines Barber shop and Beauty parlor sinks
	ATMOSPHERIC VACUUM BREAKERS For high hazard cross-connections not subject to continuous pressure - 6" above flood rim.	Single float and disc with large atmospheric port	Cross connection not subject to backpressure or continuous pressure. Install at least 6" above fixture rim. Protection against back siphonage only.	Process tanks dishwashers Soap dispensers Washing machines Lawn sprinklers
4	PRESSURE VACUUM BREAKERS For high hazard cross-connections. Continuous pressure applications - 12" above flood rim.	Spring loaded single float and disc with independent 1st check. Supplied with shutoff valves and ball type test cocks.	Valve is designed for installation in a continuous pressure, potable water supply system 12" above the overflow level of the system being supplied. Protection against backsiphonage only.	Lab equipment Cooling towers Comm laundry Mach Swimming pools Chemical planting tanks Lawn sprinklers
	ANTI-SIPHON, ANTI-SPILL VACUUM BREAKER 1" above flood rim factory installed 6" above flood rim field installed	Anti spill vacuum breaker with modular check & float assembly of thermo plastic. Housing bronze body.	Indoor point of use.	Chemical Dispenser Commercial dishwasher Sterilizers
	HOSE CONNECTION VACUUM BREAKERS For res. and industrial hose supply outlets not subject to continuous pressure.	Single check with atmospheric vacuum breakers vent.	Install directly on hose bibbs, service sinks and wall hydrants. Not for continuous pressure.	Hose bibbs Service sinks Hydrants

	USC APPROVALS		AVAILABLE PRODUCT SIZES (INCHES)
	SERIES	SIZE (INCHES)	
1	009	1/4-3	1/4-3
	909	3/4-10	3/4-10
	909RPDA	2 1/2 - 10	2 1/2-10
	993	-	4
	993RPDA	1/2-3	4
2	007	2 1/2 - 10	1/2-3
	709	-	2 1/2-10
	773	2-3	4
	007DCDA	3-10	2-3
	709DCDA	-	3-10
	773DCDA	-	4
3	7	-	1/2-1 1/4
	7B	-	3/4
	A7	-	5/8-3/4
	L7	-	3/4-1
	07S	-	1
	7C	-	3/8
4	9DM3/M2, 911	-	1/2-3-4
	98D	-	3/8FCT
	NLF9	-	1/4, 3/8 NPTM
	N9-CD	-	3/8
	N9	-	3/4
	288A/289	3/4-3	1/4, 3/8
	N388	-	1/4-3
	188A	-	1/4-3/8
	800MQT	1/2, 3/4	3/4-2
	800M4QT	1/2 - 2	1/2,3/4
	008QT	-	1/2-2
	SBC, 8, NF8, HB-1	-	3/8, 1/2, 3/4, 1
	FHB	-	3/8,1/2, 3/4 HT
	TWS	-	1/2, 3/4
	07F	-	3/4, 1
			4-10

REDUCED PRESSURE DETECTOR ASSEMBLIES
REDUCED PRESSURE ZONE BACKFLOW PREVENTERS



DOUBLE CHECK VALVE ASSEMBLIES



DOUBLE CHECK DETECTOR ASSEMBLIES
Series 709DCDA



DUAL CHECK VALVE BACKFLOW PREVENTERS



SPECIALTY BACKFLOW PREVENTERS
with INTERMEDIATE ATMOSPHERIC VENT



ATMOSPHERIC VACUUM BREAKERS



PRESSURE VACUUM BREAKERS



HOSE CONNECTION VACUUM BREAKERS



DUFF CO. REGULATORS-BACKFLOWPREVENTERS-METERS

HOSE CONNECTORS


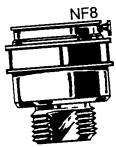
 WATTS 8 A- Hose connection vacuum breakers for back-siphonage protection. For potable hoses attached to hose thread faucets. Prevent the flow of contaminated water back into the portable water supply. Furnished with with feature that allows sill cock to be drained - this feature is NON-REMOVABLE.

FIG. NO.	PRICE
8678	

WITHOUT DRAINAGE FEATURE

WATTS 8 - Same as 8A except has no non-removable drainage feature.

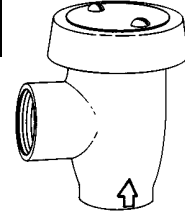
FIG. NO.	PRICE
8675	



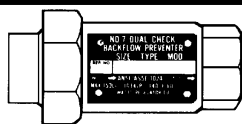
WATTS NF8 - Especially made for wall and yard hydrants. Permits manual draining for freezing conditions.

FIG. NO.	PRICE
8683	

ANTI-SIPHON VACUUM BREAKERS

 WATTS 288A ANTI-SIPHON VACUUM BREAKERS for hot or cold water. For health hazard cross connections not subject to continuous pressure - install 6" above highest downstream point of water. Designed to prevent back-siphonage of contaminated water into a potable water supply. Max temperature 160oF at 125 lbs. working pressure. NOT A BACKFLOW PREVENTER.

SIZE	WEIGHT	FIG. NO.	PRICE
1/4"	3/8	8670	
3/8"	3/8	8660	
1/2"	1/2	8661	
3/4"	1 1/8	8662	
1"	1 3/4	8663	
1 1/4"	2 1/8	8664	
1 1/2"	3 5/8	8665	
2"	5 1/4	8669	
2 1/2"	16	8667	
3	17 1/8	8668	



SIZE	FIG. NO.	PRICE
1/2"	48538	
3/4"	8717	
1"	8720	

WATTS 7 - Dual check backflow preventer for water supply service or individual outlets. For non-health hazard continuous pressure applications - Residential system containment. For installation immediately downstream from residential water meters. Horizontal or vertical installation with union end.

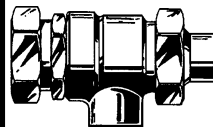
WATTS BACKFLOW PREVENTERS



WATTS NFL9 - Laboratory faucet vacuum breaker. Has 3/8" male inlet connections. Fits standard laboratory faucet pipe outlet or gooseneck. Outlet fits standard lab hose nipple or aspirator.

Polished chrome finish. Max pressure 125 psi.

FIG. NO.	PRICE
8686	

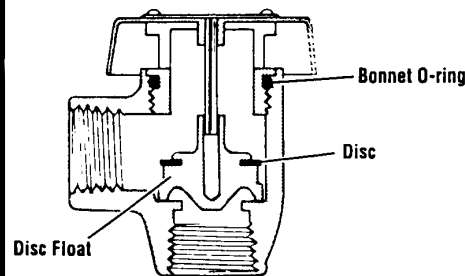


WATTS 9D - Backflow preventer with intermediate atmospheric vent.

For use on hot or cold water and can be used under continuous pressure. For laboratory/dairy equipment, processing tanks, sterilizers, and low hazard applications. For boiler feed lines to prevent backflow when supply pressure falls below system pressure. Female union inlet and outlet connections. May be installed either horizontally or vertically.

SIZE	FIG. NO.	PRICE
1/2	8711	
3/4	8714	

SERIES 288A REPAIR KITS



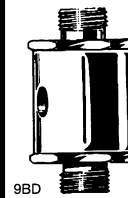
SIZE	FIG. NO.	PRICE
1/4-3/8	76675	
1/2	70901	
3/4-1	70902	



WATTS N9 - Backflow preventer with atmospheric vent for exposed serviceable installations for in-line continuous pressure applications.

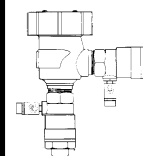
Double check design providing dependable protection against both back-siphonage and backflow. All brass construction.

SIZE	FIG. NO.	PRICE
1/4"	8700	
3/8"	8701	



WATTS 9BD - Backflow preventer for vending machine water supply lines. Prevent backflow of carbon dioxide gas and carbonated water into the water supply system. Stainless steel body and internal parts comply with FDA food additive regulations. 3/8" flare.

FIG. NO.	PRICE
8708	

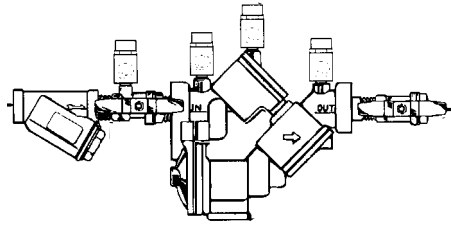


WATTS 800M4QT- Anti-siphon pressure vacuum breaker. For health hazard cross connections, continuous pressure applications - install 12" above highest downstream point of water. This valve is designed to prevent back-siphonage of contaminated water into a potable water supply. It is ideal for continuous systems or other continuous pressure piping systems. Working temp 33oF to 140oF - Max pressure 150 psi. Replaceable plastic seat, bronze body and accessory construction, easy in-line maintenance, serves as both anti-siphon and check valve, ball valve test cocks for trouble - free operation.

Working temp 33oF to 140oF - Max pressure 150 psi. Replaceable plastic seat, bronze body and accessory construction, easy in-line maintenance, serves as both anti-siphon and check valve, ball valve test cocks for trouble - free operation.

SIZE	FIG. NO.	PRICE
1/2"	8652	
3/4"	8653	
1"	8654	
1 1/4"	8655	
1 1/2"	8656	
2"	8657	

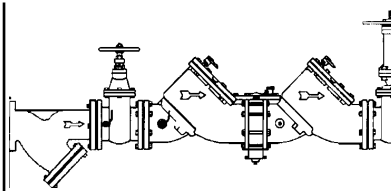
WATTS BACKFLOW PREVENTERS



WATTS 909 provides protection in cross-connection control and containment for cold and hot water installations. Furnished with NPT connections

and quarter-turn full port resilient seated bronze ball valve. 175 PSI, 140oF. Bronze body construction, modular design, replaceable seats, ball valve test cocks, easily serviced with no special tools, captured spring assemblies. WITH BRONZE STRAINER.

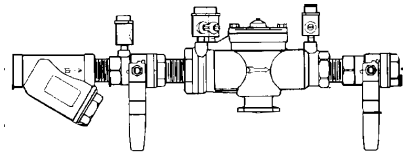
SIZE	LENGTH	WGHT W/ STRAINER	FIG. NO.	PRICE
3/4"	21 1/4	15 5/8	8643	
1	22 1/4	17 1/2	8644	
1 1/4"	25 5/8	42 3/4	8645	
1 1/2"	27 3/16	44	8646	
2	30 3/4	473/8	8647	



WATTS 909 SIZES 2 1/2" TO 10" Air in/water out principal provides high capacity relief valve discharge.

during the emergency conditions of combined back-siphonage and back pressure with both checks fouled. Epoxy coated cast iron check valve body with bronze seats. 175 psi to 140oF. Removable bronze seats, stainless steel internal parts, easily serviced with no special tools, captured spring assemblies.

SIZE	LENGTH	WGHT W/ STRAINER	FIG. NO.	PRICE
2 1/2	41 1/4	195	22778	
3	42 1/4	225	22777	
4	55 1/8	455	29948	
6	65 1/2	718	29949	

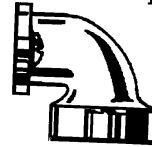


WATTS 009 Protection of the potable water supply. for high hazard cross-connections. For containment at the service line entrance. Two in-

line, independent check valves with an intermediate relief valve. Modular construction, replaceable seats, captured springs, no special tools required for servicing, top access, single cover. WITH BRONZE STRAINER.

SIZE	LENGTH	WGHT W/ STRAINER	FIG. NO.	PRICE
1/2	13	5 1/2	61590	
3/4	19 1/4	15	50517	
1	22 1/2	15 1/4	51054	
1 1/4	26 5/8	31	61591	
1 1/2	28 5/8	35	61592	
2	31 1/2	43	50518	

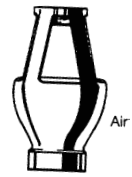
WATTS 909 90° ELBOW



Used with series 909 air gap for connections to 1/2" - 3" backflow preventers on vertical installations.

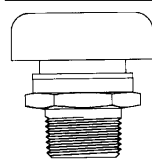
SIZE	FIG. NO.	PRICE
3/4" - 1"	29944	
1 1/4" - 2"	29945	

WATTS 909 AIR GAP



Used with series 909 and 009 series backflow preventers on horizontal installations. Can be easily mounted to body.

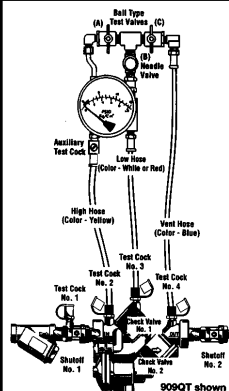
SIZE	FIG. NO.	PRICE
3/4" - 1"	29943	
1 1/4" - 3"	24414	
4" - 6"	29946	



WATTS N36 - Vacuum relief valve for water service. Automatically vents a system if vacuum occurs. Opens at less than 1/2" vacuum. Automatic venting of a closed system to atmosphere when a vacuum is created, thereby, permitting air to enter and prevent vacuum conditions which could siphon the water from the system and burn out a heater or collapse a tank. Also suitable for steam service. Max pressure 15 psi.

SIZE	WEIGHT	FIG. NO.	PRICE
1/2"	3/8 lb	45181	
3/4"	3/4 lb	45182	

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



WATTS BACKFLOW PREVENTER TEST KIT

For testing all reduced pressure zone backflow preventers. Accurate testing of "zone" and relief valve opening differential fouled check valves or similar problems that visual inspections cannot locate. 175 psi. 210oF.

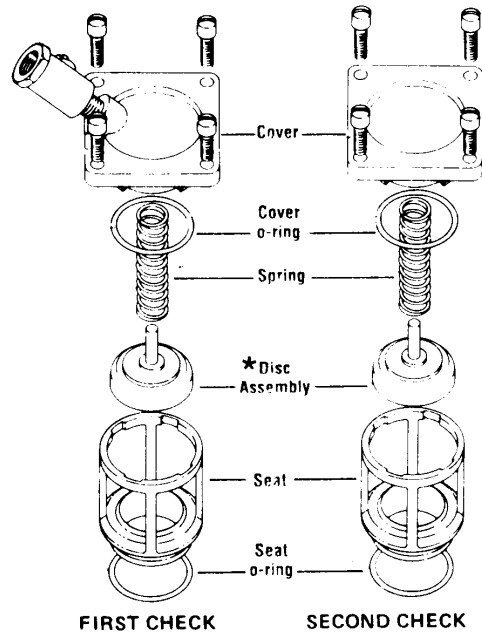
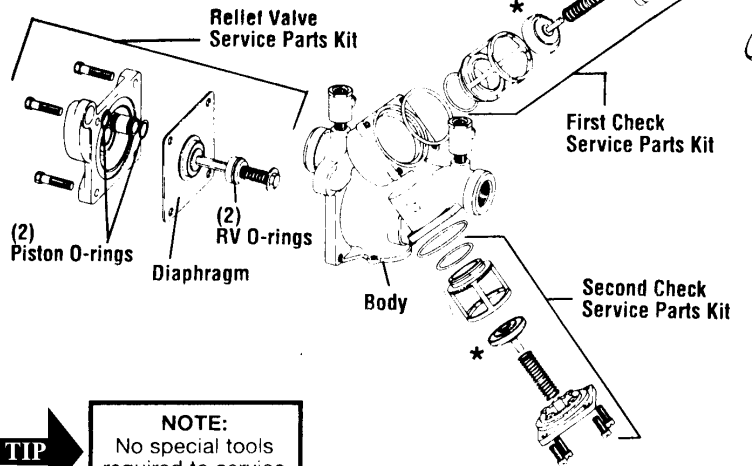
FIG. NO.	PRICE
8650	

DUFF CO. REGULATORS-BACKFLOWPREVENTERS-METERS

SERIES 909 CHECK VALVES KIT

KIT CONSISTS OF: DISC ASSEMBLY, SPRING, SEAT, SEAT O-RING, COVER O-RING AND LUBRICANT.

WATTS 909 REPAIR KITS



DUFF TIP → **NOTE:**
No special tools required to service Series 909.

*Note: Rubber seat disc can be replaced. However, disc holder and disc retainer are permanently bonded to prevent failure.

FIRST CHECK KITS

OEM #	KIT #	SIZE	FIG. NO.	PRICE
887120	RK 909 CK1	3/4" - 1"	60473	
887133	RK 909 CK1	1 1/4" - 2"	60474	
887122	RK 909 CK1SS	3/4" - 1"	60475	
887135	RK 909 CK1SS	1 1/4" - 2"	60476	

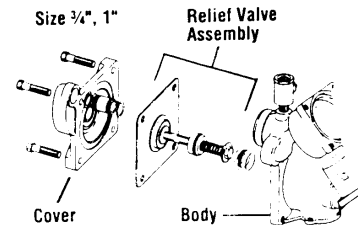
SECOND CHECK KITS

OEM #	KIT #	SIZE	FIG. NO.	PRICE
887121	RK 909 CK2	3/4" - 1"	60477	
887134	RK 909 CK2	1 1/4" - 2"	60478	
887123	RK 909 CK2SS	3/4" - 1"	60479	
887136	RK 909 CK2SS	1 1/4" - 2"	60480	

WHEN ORDERING, PLEASE SPECIFY FIGURE NUMBER AND VALVE SIZE!

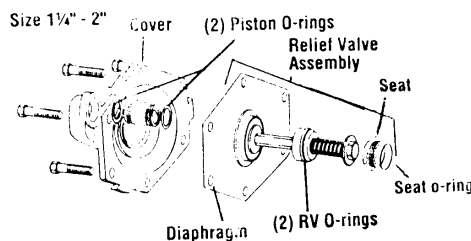
SERIES 909 RELIEF VALVE KITS

KIT CONSISTS OF: RELIEF VALVE ASSEMBLY, SEAT, SEAT O-RING, 2 PISTON O-RINGS AND LUBRICANT.



OEM #	KIT #	SIZE	FIG. NO.	PRICE
887126	RK 909 VT	3/4" - 1"	60481	
887138	RK 909 VT	1 1/4" - 2"	60482	

WHEN ORDERING, PLEASE SPECIFY FIGURE NUMBER AND VALVE SIZE!



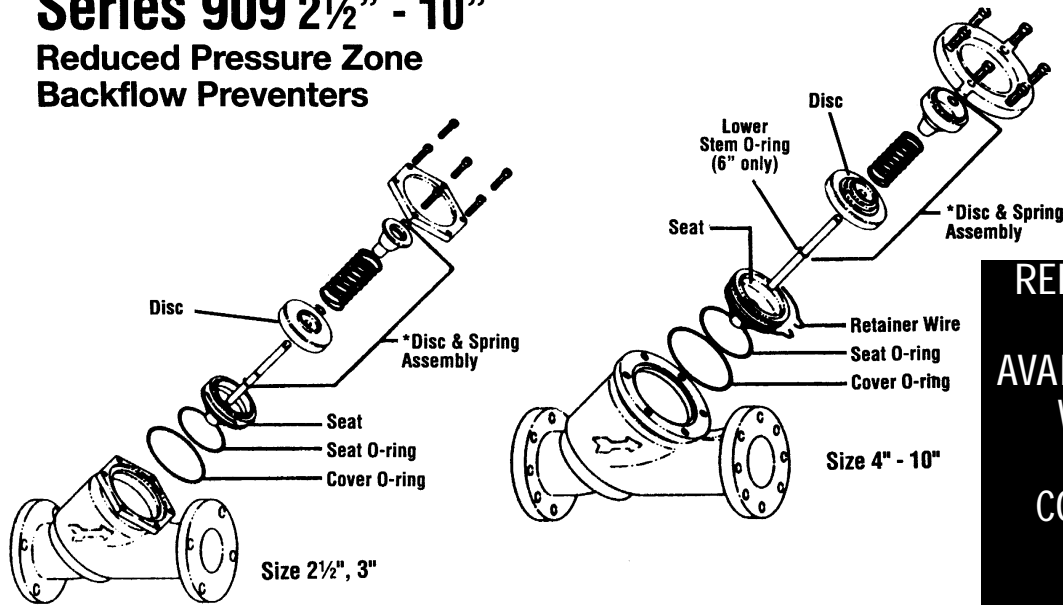
RUBBER GOODS (ONLY) KITS

OEM #	KIT #	SIZE	FIG. NO.	PRICE
887130	WRK909RT	3/4" - 1"	8648	
887144	WRK909RT	1 1/4" - 2"	8649	

ALL KITS READY FOR IMMEDIATE SHIPMENT!

REDUCED PRESSURE ZONE BACKFLOW PREVENTERS

Series 909 2 1/2" - 10"
Reduced Pressure Zone
Backflow Preventers



REBUILD KITS
ALSO
AVAILABLE FOR:
WILKINS
ZURN
COMBRACO
FEBCO
HERSEY

CHECK VALVE KITS

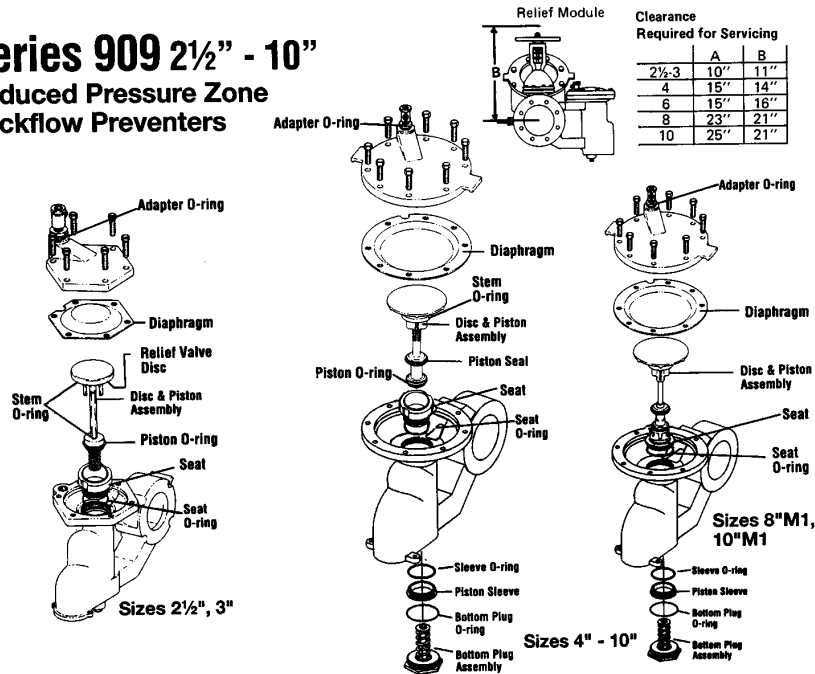
When ordering please specify FIG. NO. and VALVE SIZE

FIG. NO.	KIT NO.	SIZE	PRICE	FIG. NO.	KIT NO.	SIZE	PRICE
FIRST CHECK KITS:				FIRST CHECK RUBBER PARTS KITS:			
85637	RK909CK1	2 1/2"-3"		85646	RK909RC1	2 1/2"-3"	
64683	RK909CK1	4"		85647	RK909RC1	4"	
85638	RK909CK1	6"		85648	RK909RC1	6"	
85639	RK909CK1	8"		85649	RK909RC1	8"	
85640	RK909CK1	10"		85650	RK909RC1	10"	
SECOND CHECK KITS: Kit consists of disc & spring assembly, cover o-ring and lubricant				SECOND CHECK RUBBER PARTS KITS: Kit consists of lower check stem o-ring (6" only), check disc, cover o-ring and lubricant.			
64685	RK909CK2	2 1/2"-3"		85651	RK909RC2	2 1/2"-3"	
85641	RK909CK2	4"		85652	RK909RC2	4"	
85642	RK909CK2	6"		85653	RK909RC2	6"	
85643	RK909CK2	8"		85654	RK909RC2	8"	
85644	RK909CK2	10"		85655	RK909RC2	10"	
SEAL KITS Kit consists of seat, set o-ring, cover o-ring, retainer wires and lubricant				COVER KITS FOR CHECKS Kit contains of cover, cover o-ring and lubricant			
64688	RK909CKS	2 1/2"-3"		85668	RK909C	2 1/2"-3"	
85656	RK909CKS	4"		85669	RK909C	4"	
85657	RK909CKS	6"		85671	RK909C	6"	
85658	RK909CKS	8"		85672	RK909C	8"	
85659	RK909CKS	10"		85673	RK909C	10"	

DUFF CO. REGULATORS-BACKFLOWPREVENTERS-METERS

REDUCED PRESSURE ZONE BACKFLOW PREVENTERS

Series 909 2½" - 10" Reduced Pressure Zone Backflow Preventers



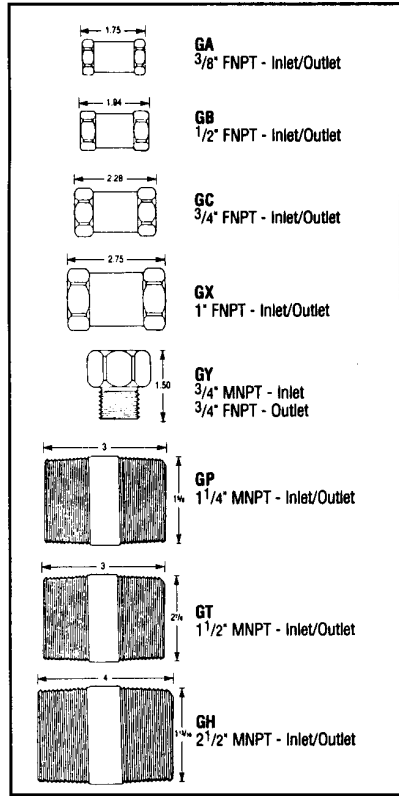
RELIEF VALVE KITS

When ordering please specify FIG. NO. and VALVE SIZE

FIG. NO.	KIT NO.	SIZE	PRICE
RELIEF VALVE RUBBER PARTS Kit consists of sleeve o-ring, piston o-ring, stem o-ring, RV disc assembly, diaphragm, piston seal, bottom plug o-ring, adapter o-ring and lubricant.			
85660	RK909RV	2 1/2" - 3"	
85661	RK909RV	4" - 6"	
85662	RK909RV	8" - 10"	
85663	RK909M1RV	4" - 10"	
RELIEF VALVE TOTAL Kit consists of diaphragm, disc & piston assembly, seat, seat o-ring, adapter o-ring and lubricant (sizes 4" -10" M1 includes bottom plug & spring assembly).			
64689	RK909VT	2 1/2" - 3"	
85665	RK909VT	4" - 6"	
85666	RK909VT	8" - 10"	
85667	RK909M1VT	4" - 10"	
TOTAL RUBBER PARTS KITS Kit consists of lower check stem o-ring (6" only), check disc, cover o-ring, sleeve o--ring, piston o-ring, RV disc assembly, diaphragm, piston seal and lubricant.			
85704	RK909RT	2 1/2" - 3"	
63072	RK909RT	4"	
85705	RK909RT	6"	
85706	RK909RT	8"	
85708	RK909M1RT	8"	
85707	RK909RT	10"	
85709	RK909M1RT	10"	

REGULATORS-BACKFLOWPREVENTERS-METERS DUFF CO.

DOLE FLOW REGULATORS (CHROME PLATED BRASS)



Flow Rate in GPM	GA	GB	GC	GY	GX	GP	GT	GH
0.06	✓							
0.13	✓							
0.19	✓							
0.25	✓							
0.35	✓							
0.50	✓							
0.60	✓							
0.75	✓							
1.00	✓							
1.50		✓						
1.60		✓						
1.75		✓						
2.00		✓						
2.60		✓						
3.00		✓						
3.50		✓						
4.00		✓						
4.50		✓						
5.00		✓						
5.50		✓						
6.25		✓						
7.00		✓						
8.20		✓						
8.30		✓						
9.00		✓						
10.00		✓						
11.50		✓						
12.00		✓						
13.50		✓						
15.00		✓						
20.00		✓						
25.00		✓						
30.00		✓						
35.00		✓						
40.00		✓						
45.00		✓						
50.00		✓						
55.00		✓						
60.00		✓						
65.00		✓						
70.00		✓						
75.00		✓						
80.00		✓						
85.00		✓						
90.00		✓						

FIG. NO.	MODEL NO.	SIZE	FLOW GALLONS	PRICE	FIG. NO.	MODEL NO.	SIZE	FLOW GALLONS	PRICE
8734	GA006	3/8"	1/16		30940	GY4.50	3/4"	4 1/2	
8737	GA013	3/8"	1/8		30941	GY5	3/4"	5	
30957	GA019	3/8"	1/5		40146	GY5.50	3/4"	5 1/2	
8740	GA025	3/8"	1/4		30942	GY6	3/4"	6	
30903	GA035	3/8"	1/3		30943	GY7	3/4"	7	
8743	GA050	3/8"	1/2		30944	GY8	3/4"	8	
51954	GA060	3/8"	2/3		30945	GY9	3/4"	9	
8744	GA0.75	3/8"	3/4		30946	GY10	3/4"	10	
8745	GA1.1	3/8"	1		30947	GY11.50	3/4"	11 1/2	
30919	GB1.1	1/2"	1		30948	GX1	1"	1	
8747	GB1.50	1/2"	1 1/2		30949	GX1.50	1"	1 1/2	
8750	GB2	1/2"	2		30950	GX2	1"	2	
8753	GB2.50	1/2"	2 1/2		8770	TX2.50	1"	2 1/2	
8755	GB3	1/2"	3		8773	GX3	1"	3	
8757	GB3.50	1/2"	3 1/2		8776	GX3.50	1"	3 1/2	
8760	GB4	1/2"	4		8778	GX4.1	1"	4	
30920	GB4.50	1/2"	4 1/2		8780	GX4.50	1"	4 1/2	
30921	GB5	1/2"	5		8783	GX5.0	1"	5	
30922	GB5.50	1/2"	5 1/2		30951	TX5.50	1"	5 1/2	
30923	GB6.0	1/2"	6		8784	GX6	1"	6	
30924	GC1	3/4"	1		8786	GX7	1"	7	
30925	GC1.50	3/4"	1 1/2		8788	GX8	1"	8	
30926	GC2	3/4"	2		8790	GX9	1"	9	
30927	GC2.50	3/4"	2 1/2		8793	GX10	1"	10	
30928	GC3	3/4"	3		8795	GX12	1"	12	
30929	GC3.50	3/4"	3 1/2		30952	GX13.50	1"	13 1/2	
30930	GC4.1	3/4"	4		8798	GX15	1"	15	
30931	GC4.50	3/4"	4 1/2		8801	GX20	1"	20	
32543	GC5.0	3/4"	5		8803	GX25	1"	25	
30923	GC5.50	3/4"	5 1/2		8806	GX30	1"	30	
8764	GC6	3/4"	6		40147	GH30	2 1/2"	30	
8765	GC7	3/4"	7		8807	GH35	2 1/2"	35	
8766	GC8	3/4"	8		8809	GX40	2 1/2"	40	
8767	GC9	3/4"	9		8812	GH45	2 1/2"	45	
8768	GC10	3/4"	10		8818	GH50	2 1/2"	50	
30933	GC11.5	3/4"	11 1/2		8819	GH55	2 1/2"	55	
8769	GY1	3/4"	1		8821	GH60	2 1/2"	60	
30934	GY1.50	3/4"	1/2		30953	GH65	2 1/2"	65	
30935	GY2	3/4"	2		8823	GH70	2 1/2"	70	
30936	GY2.50	3/4"	2 1/2		30954	GH75	2 1/2"	75	
30937	GY3	3/4"	3		8826	GH80	2 1/2"	80	
30938	GY3.50	3/4"	3 1/2		30955	GH85	2 1/2"	85	
30939	GY4	3/4"	4		8828	GH90	2 1/2"	90	

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

DUFF CO. REGULATORS-BACKFLOWPREVENTERS-METERS

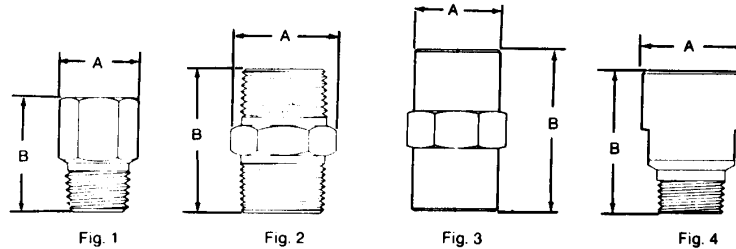
DUFF FLOW REGULATORS - ASSEMBLED TO YOUR SPECIFICATIONS

Duff offers a wide range of flow controls that are ideal for use in private homes and buildings.

Water flow rate can be equalized throughout the home or building by installing a Flo-et at the inlet to each appliance. And, water usage can be reduced substantially by controlling the volume of water used in sinks, showers and drinking fountains.

Flo-et flow controls can be incorporated into in-line housings for specific contact time with point-of-use water filters.

Residential and light commercial flo-et flow controls are available in flow rates form 1/4 to 20 gpm. For temperatures less than 140°.

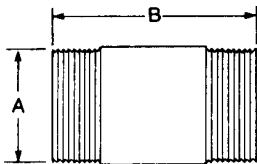


Order No.	Description	Available Flow Rates	Pipe Size	A In. (mm)	B In. (mm)	Flow Direction	Housing Material	Figure
56161	#77-19 3/8" B Flo-Control	.25 - 3.5 gpm	3/8"	3/4" Hex (19.1mm)	1-1/4" (31.8mm)	F—M, M—F	Brass	1
	#80-23 3/8" P Flo-Control	.25 - 4.0 gpm	3/8"	13/16" Hex (20.8mm)	1-1/2" (38.1mm)	F—F	Nickel-Chrome, Plated Brass	3
	Hydro Saver 1/2" NPT	2.5 - 3.0 gpm	1/2"	1" Dia. (25.4mm)	1-1/2" (38.1mm)	F—M	Polished Nickel Chrome Plated Brass	4
	#70-CN3 1/2" B Flo-Control	.25 - 4.0 gpm	1/2"	1" Hex (25.4mm)	1-1/4" (31.8mm)	F—M, M—F	Brass	1
39025	#76-1A 1/2" PVC Flo-Control	.25 - 3.5 gpm	1/2"	1-1/2" Dia. (38.1mm)	1-3/4" (44.5mm)	F—M, M—F	Type 1, Grade P.V.C.	4
*	#83-46A 1/2" P Flo-Control	.25 - 4.0 gpm	1/2"	1" Hex (25.4mm)	1-7/8" (47.6mm)	F—F	Nickel-Chrome, Plated Brass	3
*	#83-46B 1/2" P Flo-Control	5.0 - 10.0 gpm	1/2"	1" Hex (25.4mm)	1-7/8" (47.6mm)	F—F	Nickel-Chrome, Plated Brass	3
53503	#70-CN25 3/4" B Flo-Control	.25 - 10.0 gpm	3/4"	1-3/32" Hex (27.8mm)	1-3/4" (44.5mm)	M—M	Brass	2
54039	#78-111 3/4" P Flo-Control	.25 - 10.0 gpm	3/4"	1-1/4" Hex (31.8mm)	2" (50.8mm)	F—F	Nickel-Chrome, Plated Brass	3
	#77-4 1" B Flo-Control	5.0 - 20.0 gpm	1"	1-3/8" Hex (34.9mm)	2-1/4" (57.2mm)	M—M	Brass	2
*	#78-109 1" P Flo-Control	5.0 - 20.0 gpm	1"	1-1/2" Hex (38.1mm)	2-3/4" (69.9mm)	F—F	Nickel-Chrome, Plated Brass	3

*Specify flo rate

Duff commercial/Industrial Flo-ets provide flow control in a variety of applications, including multi-story buildings, water treatment equipment, cooling towers, and agricultural irrigation systems.

These highly efficient flow controls are available in flow rates from 1/4 gpm to 28 gpm. The body of the Commercial/Industrial Flo-et is a steel nipple with sizes from 3/4 inch to 6 inches in diameter.



ORDER NUMBER	A		B		APPROX. WEIGHT		STATE FLOW WHEN ORDERING		NO. OF FLO-ETS EACH
	N.P.T. U.S. INCHES	CENTI-METERS	U.S. INCHES	CENTI-METERS	U.S. LBS.	KILOGRAM	U.S. GALLONS PER/MIN.	LITERS PER/MIN.	
53503	3/4"	1.90	1-3/4"	4.4	3 oz.	.08 Kg	0.25-10	.95-38	1
	1"	2.54	2-1/4"	5.7	6 oz.	.17 Kg	5-20	17-76	1
65027	2"	5.08	4"	10.2	1.5 lbs.	.68 Kg	15-30	57-114	3
55649	3"	7.62	4-1/2"	11.4	2.75 lbs.	1.25 Kg	30-70	114-265	7
55111	4"	10.16	5"	12.7	4.75 lbs.	2.15 Kg	60-120	227-454	12
66527	5"	12.70	5"	12.7	6 lbs.	2.72 Kg	70-190	265-719	19
73882	6"	15.24	5-1/2"	14.0	8.75 lbs.	3.97 Kg	140-280	530-1060	28

*On 3/4" N.P.T. and 1" N.P.T. body material is brass.

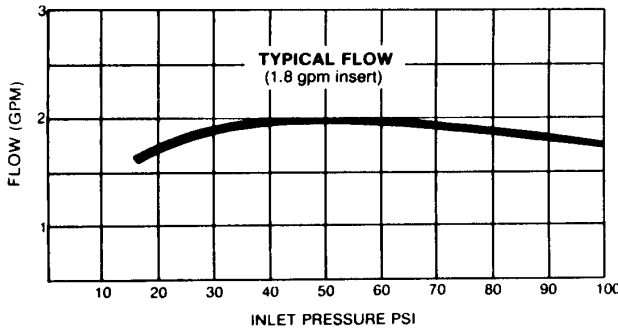
DUFF FLOW REGULATORS

Flo-et flow controls offer many advantages over conventional valve-type flow controls.

Initially, flo-et controls cost less to install. And, because they require no maintenance or adjustments, they maximize cost saving over the life of your equipment.

Flo-et flow controls are completely tamper-proof, yet authorized persons can easily alter them for increases or decreases in flow rate.

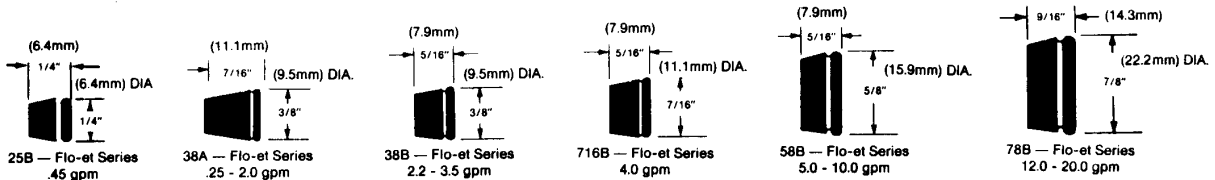
Duff offers a wide range of customized Flo-et inserts to meet your exact application needs. Both Flo-et inserts and retainers are ideal for incorporation into custom-designed housings. This provides additional cost savings by eliminating the need to purchase the brass housing. Because of our unique design, Duff can offer you the option to purchase only the Flo-et insert or the insert and the retainer.



	ABRASION RESISTANCE	SUNLIGHT	OXIDATION RESISTANCE	SOLVENT RESISTANCE	ALKALINE RESISTANCE	SOLVENT RESISTANCE	AMMONIUM HYDROXIDE	SOLVENT RESISTANCE	ACID RESISTANCE	ALKALI RESISTANCE	ACID RESISTANCE	CONCENTRATED WATER SWEEP RESISTANCE
Fair		●										
Good	●		●		●					●		
Excellent				●					●			●

Normal Operating Temperature Range 40° F to 140° F (5° C to 60° C)
Normal Operating Pressure Range 20 to 120 psi
(1.4 - 8.4 Kg per Sq. Cm.)

CHEMICAL RESISTANCE CHART (58B & 78B Series Inserts)

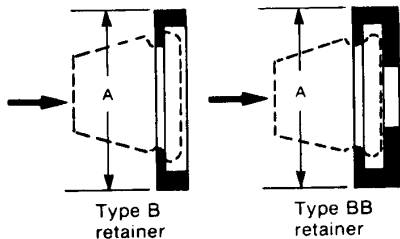


Order No.	Description
	#25B4-52 0.45 gpm
	#38A3-47 0.25 gpm
	#38A3-57 0.30 gpm
52289	#38A4-47 0.40 gpm
49208	#38A4-57 0.50 gpm
	#38A5-46 0.60 gpm
	#38A5-47 0.70 gpm
72560	#38A5-57 0.80 gpm
	#38A6-47 0.90 gpm
49886	#38A6-57 1.0 gpm
50657	#38A7-47 1.2 gpm

Order No.	Description
	#38A7-52 1.4 gpm
	#38A8-47 1.6 gpm
	#38A8-52 1.8 gpm
49887	#38A8-57 2.0 gpm
	#38B9-52 2.2 gpm
49888	#38B9-57 2.5 gpm
	#38B10-52 2.6 gpm
49889	#38B10-57 3.0 gpm
	#38B10-623 3.5 gpm

Order No.	Description
49890	#716B11-623 4.0 gpm
49891	#58B13-535 5.0 gpm
49892	#58B14-568 6.0 gpm
49893	#58B15-568 7.0 gpm
49894	#58B16-568 8.0 gpm
	#58B16-602 9.0 gpm
49895	#58B17-602 10 gpm
49896	#78B20-58 12 gpm
49897	#78B21-62 15 gpm
	#78B23-62 17 gpm
49898	#78B24-74 20 gpm

Note: Special flow rates can be designed upon request.



Type B retainer is intended for a press fit into an adapter that provides back-up support for the Flo-et insert. The BB type can be used in an adapter that does not provide back-up support.

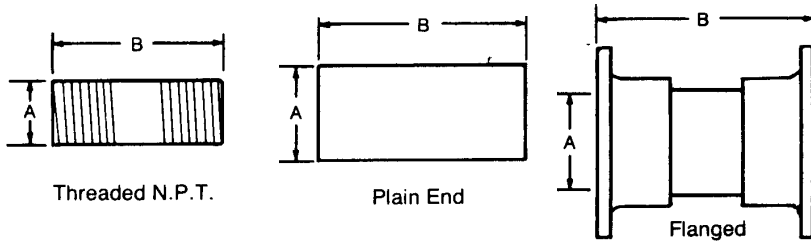
Order No.	Description	"A" Dimension		For Insert Series No.
		Inches	Millimeters	
	#25R-1BB Retainer	.301 - .303	7.6 - 7.7	25B
	#38R-1B Retainer	.463 - .465	11.7 - 11.8	38A & 38B
70974	#38R-1BB Retainer	.463 - .465	11.7 - 11.8	38A & 38B
49875	#38R-2B Retainer	.525 - .527	13.3 - 13.4	38A & 38B
49881	#38R-4BB Retainer	.787 - .789	20.0 - 20.1	38A & 38B
49878	#716R-1B Retainer	.525 - .527	13.3 - 13.4	716B
49882	#716R-2BB Retainer	.787 - .789	20.0 - 20.1	716B
49883	#58R-2BB Retainer	.787 - .789	20.0 - 20.1	58B
49885	#58R-4BB Retainer	.995 - .997	25.2 - 25.3	58B
50658	#78R-2BB Retainer	.995 - .997	25.2 - 25.3	78B

DUFF CO. REGULATORS-BACKFLOWPREVENTERS-METERS

DUFF FLOW REGULATORS

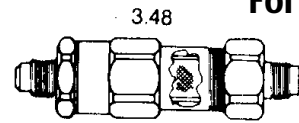
PVC FLOW REGULATORS

Duff PVC flow controls are designed for applications where constant flow rates are required and variable pressures are encountered. They are ideal for use in environments where metal housings are not recommended, such as high purity, deionized water applications. Flow capacities are available from 1/4 gpm to 540 gpm. Specify exact GPM flow rate.



FRS-Series Flow Regulators

For Food Service



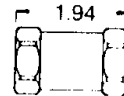
0.06 to 1.0 GPM

- 1/8" Flare - Inlet & Outlet
- Serviceable 100 x 90 Mesh Monel Screen
- Brass Housing
- 5.5 oz. Net Weight

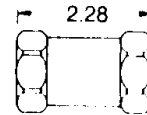
SS-G Series Stainless Steel Flow Regulators



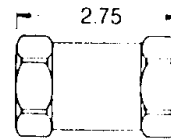
- 3/8" FNPT - Inlet/Outlet
- 0.06 to 1.0 GPM
- 3 oz. Net Weight



- 1/2" FNPT - Inlet/Outlet
- 1.0 to 6.0 GPM
- 3 1/2" oz. Net Weight



- 3/4" FNPT - Inlet/Outlet
- 1.0 to 11.5 GPM
- 8 oz. Net Weight



- 1" FNPT - Inlet/Outlet
- 1.0 to 30 GPM
- 12 oz. Net Weight

T H R E A D E D

FLOW RATE GPM (1)	NO. OF INSERTS	PIPE SIZE "A"	MODEL NO.	LENGTH "B" (INCHES)	APPRX WEIGHT LBS.	FIG. NO.	PRICE
.25-3.5	1	1/2	T-050-1	2	.05	53801	
.25-10	1	3/4	T-075-1	2	.06	65707	
5-20	1	1	T-100-1	3	.12	47566	
10-20	2	1-1/4	T-125-2	3	.18	83723	
20-40	4	1-1/2	T-150-4	3	.25	61035	
35-70	7	2	T-200-7	3	.31	53585	
45-90	9	2-1/2	T-250-9	4	.56	83731	
70-140	14	3	T-300-14	4	.68	52813	
120-250	25	4	T-400-25	4	1.00	52782	
270-540	54	6	T-600-54	4	2.50	83732	

P L A I N E N D

FLOW RATE GPM (1)	NO. OF INSERTS	PIPE SIZE "A"	MODEL NO.	LENGTH "B" (INCHES)	APPRX WEIGHT LBS.	FIG. NO.	PRICE
.25-3.5	1	1/2	P-050-1	5	.09	63261	
.25-10	1	3/4	P-075-1	5	.12	83720	
5-20	1	1	P-100-1	5	.18	83728	
10-20	2	1-1/4	P-125-2	5	.27	57017	
20-40	4	1-1/2	P-150-4	5	.36	57019	
35-70	7	2	P-200-7	5	.47	65862	
45-90	9	2-1/2	P-250-9	5	.80	83733	
70-140	14	3	P-300-14	5	1.00	62133	
120-250	25	4	P-400-25	5	1.47	83734	
270-540	54	6	P-600-54	8	3.90	83735	

F L A N G E D

FLOW RATE GPM (1)	NO. OF INSERTS	PIPE SIZE "A"	MODEL NO.	LENGTH "B" (INCHES)	APPRX WEIGHT LBS.	FIG. NO.	PRICE
35-70	7	2	F-200-7	6	2.43	56081	
45-90	9	2-1/2	F-250-9	6	3.80	83736	
70-140	14	3	F-300-14	6	4.76	83737	
120-250	25	4	F-400-25	6	7.55	52971	
270-540	54	6	F-600-54	6 1/2	12.60	83738	



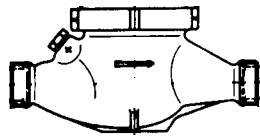
DUFF SELLS

SOLUTIONS!

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610-275-4453

WATER METERS

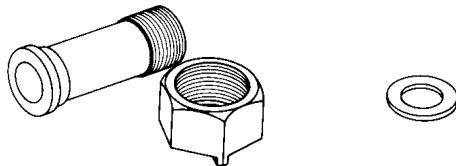


MULTI-JOB COLD WATER METERS measure unheated water below 100°F. They can be used to

detect waste or leaks, to allocate cost accounting charges and to set standards of water consumption. Center sweep register, superior accuracy, magnetic drive.

WITH COUPLINGS		
SIZE	FIG. NO.	PRICE
5/8X1/2	47606	
5/8X3/4	47607	
1	47608	
1 1/2	47609	
2	47610	

METER COUPLINGS, NUTS AND WASHERS



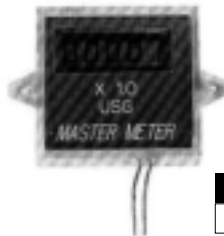
COUPLING & NUT			WASHER		
SIZE	FIG. NO.	PRICE	SIZE	FIG. NO.	PRICE
1/2	7157		1/2	36273	
3/4	7158		3/4	43678	
1	7159		1	43679	
1 1/2	7160		1 1/2	43680	
2	7161		2	43681	

CONTACT HEAD METER (LESS TOTALIZER)



SIZE	FIG. NO.	PRICE
3/4"	43369	
1"	44949	
1/2"	44950	
2"	44951	
3"	44952	

REMOTE TOTALIZER (BATTERY OPERATED)



ALSO AVAILABLE WITH RESET BUTTON

FIG. NO.	PRICE
7168	



You must order meter AND totalizer for remote applications!

FLANGED WATER METER



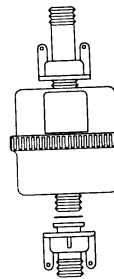
Center sweep register, superior accuracy, magnetic drive.

SIZE	FIG. NO.	PRICE
2"	45186	
3"	44426	
4"	44427	

Brass Flange & Gasket Sets (pair) 1/2" - 2" use Meter Flanges

SIZE	FIG. NO.	PRICE
1 1/2"	53771	
2"	50702	

***For 3"&4" Meter, use Brass or Black Iron Companion Flanges - See pages 70 or 59**



POLYMER Suitable for D.I. use. Polymer & thermoplastic for potable cold water. 120° F WP to 150 psi. Tamper proof, non-corrosive, low cost.

DESCR	FIG. NO.	PRICE
1/2" 125-20 Horizontal or vertical installation	GPM	23541
3/4" 25-20 max flo 20		30094

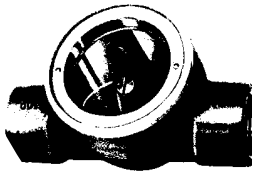


HOT AND WARM WATER METERS are designed for measurement at temperatures from 100 to 450°F. Ideal for boiler feed, factory hot water installations, condensate return and similar application.

SIZE	FIG. NO.	PRICE
3/4"	7162	

DUFF CO. REGULATORS-BACKFLOWPREVENTERS-METERS

FLO-METERS

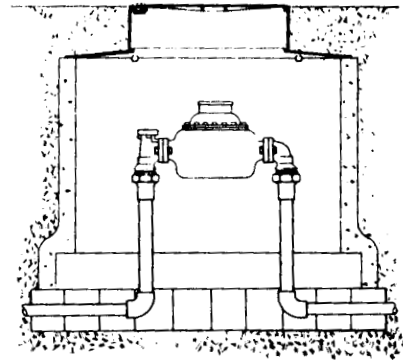


Midwest **sight flow indicators.** Inexpensive protection for expensive equipment. Manufactured of quality materials and safety-tested to assure you of long, dependable service at an economical price.

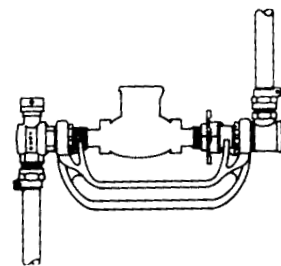
Sight flow indicators are standard construction. Indicators of other metals, pressures and temperatures are available. All standard production sight flow indicators have the following specifications:

Bonze body, 304 stainless spinner shaft, lightweight plastic spinner for indicating low flow, operating pressure 125 psi, operating temperature 200oF, glass windows, hydrostatically tested to double recommended rating, window available in tempered glass!

SIZE	GLASS THICKNESS	LENGTH	HEIGHT	WIDTH	FIG. NO.	PRICE
1/2	1/4"	3 13/16"	2 1/8"	1 3/4"	16376	
3/4	1/4"	3 13/16"	2 1/8"	1 3/4"	16378	
1	1/4"	4 1/16"	2 5/8"	2 7/8"	16380	
1 1/4	1/4"	4 1/16"	2 5/8"	2 7/8"	16382	
1 1/2	3/8"	5 11/32"	3 3/4"	3 1/4"	16385	
2	3/8"	5 11/32"	3 3/4"	3 1/4"	16388	

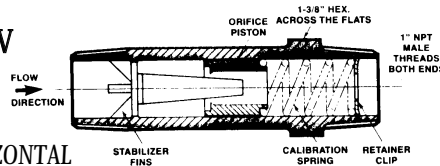


METER BOX & LID



METER SETTER

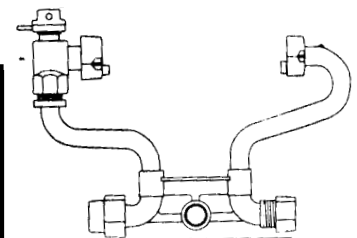
E-Z VIEW RATE-OF-FLOW METERS



VERTICAL OR HORIZONTAL

Media (Piston Type)	Flow Range	MODEL NUMBER				
		3/4" or 1" Nominal Brass Sweat Fgts	1" Nominal PVC ² Sweat Fitting	1" ³ Male NPT Poly	3/4" Male NPT Fgts	1/2" Female NPT Fgts
Oil (Standard Piston) .876 Sp. Gr.	0.5-4 GPM	-	628-104	621-104	625-104	624-104
	1.0-7 GPM	-	628-107	621-107	625-107	624-107
	1.0-10 GPM	-	628-110	621-110	625-110	624-110
	1.0-16 GPM	-	628-116	621-116	625-116	624-116
	3.0-18 GPM	-	628-118	621-118	625-118	-
	4.0-28 GPM	-	628-128	621-128	625-128	-
Water (Standard Piston) 1.0 Sp. Gr.	.05-4 GPM	620-004	628-004	621-004	625-004	624-004
	1.0-7 GPM	620-007	628-007	621-007	625-007	624-007
	1.0-10 GPM	620-010	628-010	621-010	625-010	624-010
	1.0-16 GPM	620-016	628-106	621-016	625-106	624-016
	4.0-18 GPM	620-018	628-108	621-018	625-018	-
	4.0-28 GPM	620-028	628-028	621-028	625-028	-
Water (Ribbed Piston) 1.0 Sp. Gr.	1.5-7 GPM	620-307	628-307	621-307	625-307	624-307
	3.0-10 GPM	620-310	621-310	621-310	625-310	624-310
	3.0-17 GPM	620-316	628-316	621-316	625-316	624-316
	4.0-24 GPM	620-324	628-324	621-324	625-324	-
Hex	-	1.5"	1.5"	1.125	1.5"	1.5"
Length In (MM)	-	7.8"	8.5"	5.3"	8.3"	7.8"
		198 MM	216 MM	135 MM	211MM	198 MM
Weight	-	13 oz.	5 oz.	3 oz.	1 lb.	1 lb.

1 Fits 3/4" Nominal (7/8" OD) or 1" nominal 1-1/8" OD) Type M Copper Tubing
 2 (1.315 OD and 0.935 ID) for use with Schedule 40, 80 & 120 PVC Pipe Fittings
 3 DO NOT use pipe dope. Use teflon tape only.



METER YOKE

CALL DUFF COMPANY WITH THE NAME OF YOUR WATER COMPANY - WE WILL QUOTE YOU ON EXACT SPECIFICATIONS THAT ARE REQUIRED!

FLO-METERS

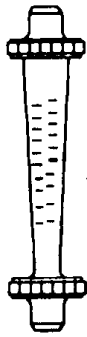


FIG. NO.	FLOW RATE	PIPE SIZE	PRICE
61513	.025 to .250	3/8" MPT	
61514	.025 to .250	1/2" MPT	
47779	.1 to 1	3/8" MPT	
61516	.1 to 1	1/2" MPT	
61519	.2 to 2	3/8" MPT	
61520	.2 to 2	1/2" MPT	
61521	.5 to 5	3/8" MPT	
47780	.5 to 5	1/2" MPT	
47781	1 to 10	3/4" MPT	
61522	3 to 30 gph	3/8" MPT	
61523	3 to 30 gph	1/2" MPT	
61524	5 to 60 gph	3/8" MPT	
61525	5 to 60 gph	1/2" MPT	

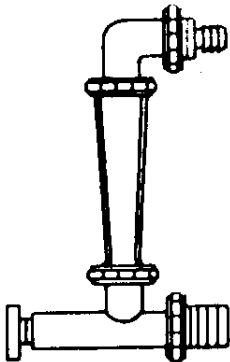
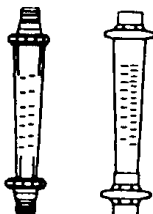


FIG. NO.	FLOW RATE	PIPE SIZE	PRICE
61526	.025 to .250	3/8" MPT	
61527	.025 to .250	1/2" MPT	
61528	.025 to .250	1/2" ID Barb	
61529	.1 to 1	3/8" MPT	
61530	.1 to 1	1/2" MPT	
61531	.1 to 1	1/2" ID Barb	
61532	.2 to 2	3/8" MPT	
61533	.2 to 2	1/2" MPT	
61534	.2 to 2	1/2" ID Barb	
61535	.5 to 5	3/8" MPT	
61536	.5 to 5	1/2" MPT	
61537	.5 to 5	1/2" ID Barb	
61538	1 to 10	1/2" MPT	
61540	1 to 10	3/4" MPT	
61541	1 to 10	1/2" ID Barb	
61542	1 to 10	5/8" ID Barb	

61546-61553



61554-61556

61557 to 61562

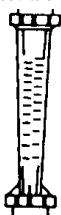
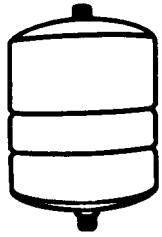


FIG. NO.	FLOW RATE	PIPE SIZE	PRICE
61546	.1 to 1	3/8" FPT	
61547	.1 to 1	1/2" MPT	
61548	.2 to 2	3/8" FPT	
61549	.2 to 2	1/2" MPT	
61550	.5 to 5	3/8" FPT	
61551	.5 to 5	1/2" MPT	
61552	.5 to 5	3/4" MPT	
61553	1 to 10	3/4" MPT	
61554	1 to 10	1" FPT	
71217	2 to 20	1" FPT	
83074	3 to 30	1" FPT	
61556	4 to 40	1" FPT	
61557	2 to 20	2" FPT	
61558	6 to 60	2" FPT	
61559	10 to 80	2" FPT	
61560	5 to 100	2" FPT	
61561	15 to 130	2" FPT	
61562	20 to 230 SCFM	2" FPT	

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

DUFF CO. REGULATORS-BACKFLOWPREVENTERS-METERS

SHOCK SUPPRESSORS

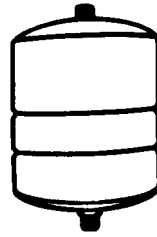


DIATROL SHOCK SUPPRESSOR

Max working pressure=100 PSIG.
 Max shock pressure=150 PSIG.
 Max operating temperature=200°F.
 Precharge pressure=22 PSIG.
 Large size to 48" diameter available!
 Compressible air volume is held within a light weight, deep drawn steel vessel. This air

chamber, carefully calculated, is separated from system water by a heavy-duty, sealed-in, butyl diaphragm that prevents loss of air and water logging. The air pressure can be measured and field adjusted through the vessel air valve. Water never contacts steel, and the polypropylene lined water reservoir provides a 100% corrosive-free surge chamber.

FIG. NO.	RATED FLOW	CONN NPT	HEIGHT	DIA	VOLUME CU. FT.	PRICE
48971	9.5	3/4	8 1/2	9 1/8	.092	
57113	104.6	1 1/4	11 7/8	6 1/8	.145	



THERM-X-TROL Thermal Expansion Tank

Steel shell Polypropylene liner

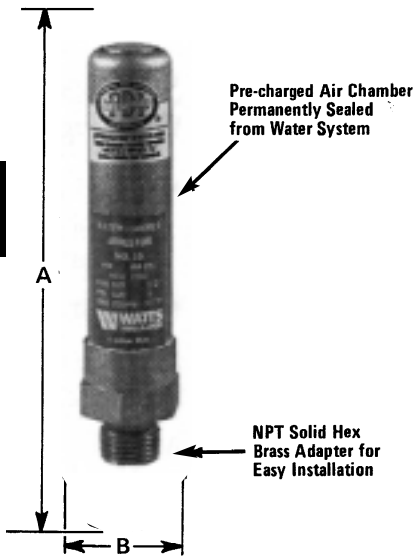
Butyl diaphragm

Max operating pressure=200°F Standard factory precharge 40 PSIG

For use with potable water heaters only. Therm-X-Trols are pressurized, diaphragm-type expansion tanks designed to accept the expansion of water created when a storage tank is heated, keeping the system pressure below the relief valve setting.

FIG. NO.	MAX PSIG	TANK VOL	SYS CONN	DIA	PRICE
43561	150	2.0	3/4"	8	
38696	150	4.4	3/4"	11	
49699	150	10.3	1	15 3/8	

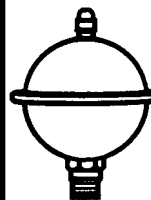
OTHER TANK VOLUMES AVAILABLE



WATER HAMMER

The noise from banging pipes is caused by shocks of high speed water flowing in the piping system when a fixture is suddenly closed. Sudden stoppage of the water (a non-compressible liquid) flowing at a given pressure and velocity causes a surge or spike of water and is called water hammer. When this occurs a pressure wave travels back through the piping until it finds a point of relief. Dishwashers, clothes washers, fast closing positive shut off valves incorporated in the system, all contribute to creating water shock which is not only annoying but damaging to pipes and appliances. The Watts No. 15 Series incorporates a permanent pre-charged sealed air chamber to absorb the shock. The sealed chamber prevents the loss of air to the water and insures long and trouble free life. All potential leak points are permanently sealed.

NPT CONN	AIR PRE-LOAD PSI	DIMENSIONS		FIXTURE UNITS	FIG. NO.	PRICE
		A	B			
1/2"	60	5 1/2"	1 7/16"	1-11	55131	
3/4"	60	7 1/2"	1 7/8"	12-32	51666	
1"	60	8 1/8"	2 3/16"	33-60	55135	



MINI-TROL shock suppressor.

Max working pressure=150 PSIG. Max shock pressure=200 PSIG. Max operating temp=200°F. Max velocity=10 FPS Total Volume=10 cu. inc. Precharge pressure=22 PSIG.

FIG. NO.	HGHT	WIDTH	SYS CONN	PRICE
8799	4 1/2	3 3/8	1/2NPT	



MINI CHAMBER Designed for single fixture use

Copper cylinder
 Spun-closed seamless chamber (1.4" cu. vol.)
 Max operating temperature=250°F.
 Arrestor length 4 1/4" not including fitting
 Permanently sealed 60 PSI pressure charge.

An acetal piston with three EPDM O-rings separates a 60 psi pre-pressurized, captured air cushion from system water in a seamless type L copper chamber. The mini chamber arrestor is available with various system connections in individually packaged film-wrapped cards or bulk packed in cartons.

SIZE	FIG. NO.	PRICE
3/8"	85245	
1/2"	85246	

