CAST IRON FLANGED BALL VALVES

Teflon coated solid ball. Blow-out proof stainless steel stem. Adjustable length/removable handles to fit into areas of limited space. Face to face and flanged dimensions conform to ANSI standard B and match cast iron gate valves. 100% full opening. 125 psi WSP/200 psi WOG. American also makes this series of flanged ball valves in Ductile Iron and Stainless Steel. All American valves can be actuated. Call for help.

			Dimensions	
Order No.	Model No.	Size	Face to Face	Flange Dia.
4000020	4000	2	7"	6"
4000025	4000	2-1/2	7-1/2"	7"
4000030	4000	3	8"	7-1/2"
4000040	4000	4	9"	9"
4000060	4000	6	10-1/2"	11"

BRONZE SQUARE HEAD GAS COCK VALVES WITH CHECK

Test pressure 100 psi. Max line pressure 12 psi.

Order No.	Model No.	Size	Min. Capacity
85CBK-4	85CBK	1/4	216 cfh
85CBK-6	85CBK	3/8	216cfh
85CBK-8	85CBK	1/2	260 cfh
85CBK-12	85CBK	3/4	698 cfh
85CBK010	85CBK	1	1192 cfh
85CBK012	85CBK	1-1/4	1768 cfh
85CBK015	85CBK	1-1/2	3097 cfh
85CBK020	85CBK	2	5346 cfh

BRAY

Lug Style

Wafer Style

BUTTERFLY VALVES-LUG

Standard 10-position Handle, Cast Iron Body, 416SS Shaft.

Order No.	Model No.	Size	Disc Type	Stem	Seat
LBFV020	310200-BFA12119	2"	NDI	416SS	EPDM
LBFV025	310250-BFA12119	2.5"	NDI	416SS	EPDM
LBFV030	310300-BFA12119	3"	NDI	416SS	EPDM
LBFV040	310400-BFA12119	4"	NDI	416SS	EPDM
LBFV050	310500-BFA12119	5"	NDI	416SS	EPDM
LBFV060	310600-BFA12119	6"	NDI	416SS	EPDM
LBFV080	310800-BFA12119	8"	NDI	416SS	EPDM
LBFV100	310000-BFA12119	10"	NDI	416SS	EPDM

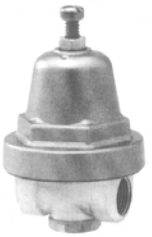
SPECIFICATIONS FOR BRAY SERIES 31 BUTTERFLY VALVES

SEATING TORQUE (in./lbs.)		SEATING TORQUE (in./lbs.)		Cv RATING (Full Open)		Cv RATING (Full Open)	
Size	Full-Rated (ΔP 100 PSI)	Size	Full-Rated (ΔP 100 PSI)	Size	Cv Rating	Size	Cv Rating
2"	130	10"	2520	2"	144	10"	5,430
2 1/2"	205	12"	3870	2 1/2"	282	12"	8,077
3"	275	14"	5700	3"	461	14"	10,538
4"	425	16"	7700	4"	841	16"	13,966
5"	670	18"	9850	5"	1,376	18"	17,214
6"	871	20"	12900	6"	1,850	20"	22,339
8"	1650			8"	3,316		

Bray offers an assortment of pneumatic and electric actuators that can be ordered mounted on their quality valves. Call a Federal associate for details.

5

CASH VALVE, TYCO



A31S PRESSURE REGULATING VALVES

SMALL PRESSURE REGULATORS FOR WATER, AIR, LIGHT OIL

Reduces up to 300 psi down to lower outlet pressure within close limits. Maximum temperature 180°F (82°C).
Applications: Drinking fountains, bubblers, water coolers, humidifiers, beverage dispensers, spray paint rigs, air tools, etc.
For water, air, light oil. Three-way valve body includes port for gauge connection.

Order No.	Size	Pressure Setting	Oper. Press Range
A31S30-4	1/4"	15 psi	2-30
A31S50-4	1/4"	25 psi	10-50
A31S90-4	1/4"	45 psi	30-90
Special Order	1/4"	100 psi	80-120
A31S30-6	3/8"	15 psi	2-30
A31S50-6	3/8"	25 psi	10-50
A31S90-6	3/8"	45 psi	30-90
A31S120-6	3/8"	100 psi	80-120

A-41 PRESSURE REDUCING BOILER FEED VALVES

The A-41 is designed for larger boliers requiring increased capacity.

Order No.	Pipe Size NPT	Maximum Inlet Pressure (psi)	Outlet Pressure Range (psi)	Description
A41-12	3/4" female threaded	200	0-20 (factory set at 12)	Designed for water service. Iron body, stainless steel strainer with brass and stainless steel seat.

B STEAM PRESSURE REGULATING VALVES

Automatically maintains, within close limits, the desired reduced pressure in the service line regardless of pressure changes in the supply line. Applications include: Unit heaters, pressing irons, steam cookers, sterilizers,etc. Iron body valves for initial pressures up to 150 psi steam.

SPECIFICATIONS

Max. delivery pressure: 125 psi

Order No.	Size[1]	Pressure Setting	Oper. Press Range
BIBS2-50-8	1/2"	25 psi	2-50 psi
BIBS40-125-8	1/2"	75 psi	40-125 psi
BIBS2-50-12	3/4"	25 psi	2-50 psi
BIBS40-125-12	3/4"	75 psi	40-125 psi
BIBS2-50010	1"	25 psi	2-50 psi
BIBS40-125010	1"	75 psi	40-125 psi
BIBS2-50012	1-1/4"	25 psi	2-50 psi
BIBS2-50015	1-1/2"	25 psi	2-50 psi
BIBS40-125020	2"	75 psi	40-125 psi

[1] Threaded connections

Note: Other pressure ranges may be available by changing springs.

ACCESSORIES

Order No.	Description	Fits Valve Sizes
111	SPRING 10-50# RANGE	1/2"
1580	BRONZE DIAPHRAGM	1/2"
1582	BRONZE DIAPHRAGM	3/4"
1583	DIAPHRAGM GASKET	3/4"
1163	SPRING 20-60# RANGE	1" through 1-1/2"
8816	SPRING 90-150# RANGE	1" through 1-1/2"
3135	SPRING 10-60# RANGE	2"

5

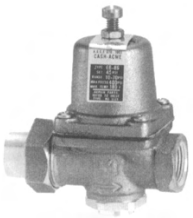
MC SMALL BYPASS VALVE

FOR WATER, AIR, OIL AND OTHER FLUIDS

Small economical for pressure of a less critical nature. "Pop" type valve with no diaphragm. Bronze body, stainless steel ball seat. Metal-to-metal seat does not close off drip tight. Male inlet, female side outlet.

Order No.	Spring #	Size	Pressure Setting	Oper. Press Range
MC2090-8	6900	1/2"	50 #	20 - 90 psi
MC50100-12	2697	3/4"	80 #	50 - 100 psi
MC100250-12	9302	3/4"	150 #	100 - 250 psi
MC020010	4764	1"	10 #	0 - 20 psi
MC10111010	1840	1"	75 #	10 - 111 psi

CASH-ACME



EB-45U DOMESTIC WATER PRESSURE REGULATOR

Bronze body and bottom plug, brass piston, stainless steel body seat and seat spring, inbuilt monel strainer screen, EP rubber seat disc, O-ring and reinforced diaphragm, and a standard threaded union inlet

SPECIFICATIONS

Max. inlet pressure: 400 psi

Max. temperature: 180°F

Order No.	Size	Standard Adj. Press. Setting
EB45U-8	1/2"	10-70 @ 45 psi
EB45U-12	3/4"	10-70 @ 45 psi
EB45U010	1"	10-70 @ 45 psi
EB45U012	1-1/4"	10-70 @ 45 psi
EB45U015	1-1/2"	10-70 @ 45 psi
EB45U020	2"	10-70 @ 45 psi

F-30

F30, F82, F95 ASME RELIEF VALVES

FOR HOT WATER BOILERS

ASME listed and rated for emergency hot water discharge by the National Board of Boiler and Pressure Vessel Inspectors. Bronze body and inside working parts, silicone seat, stainless steel spring. "Pop" type action provides maximum safety. F-30 set at 30 psi only. Designed for use on hot water space heating boilers, water supply heaters & storage tanks. Not to be used on steam.

Order No.	Size	Pressure Setting	ASME Relief Cap. BTU/hr. (000)
F3030-12	3/4"	30 psi	510
F8230-12	3/4"	30 psi	717
F8250-12	3/4"	50 psi	1,048
F8275-12	3/4"	75 psi	1,462
F82100-12	3/4"	100 psi	1,875
F82125-12	3/4"	125 psi	2,289
F82150-12	3/4"	150 psi	2,703
F9530-12	3/4" x 1"	30 psi	952
F9550-12	3/4" x 1"	50 psi	1,391
F9575-12	3/4" x 1"	75 psi	1,940
F8230010	1"	30 psi	1,025
F8250010	1"	50 psi	1,498
F8275010	1"	75 psi	2,090
F82100010	1"	100 psi	2,680
F82125010	1"	125 psi	3,271
F82150010	1"	150 psi	3,862
F9530010	1" x 1-1/4"	30 psi	1,337
F9550010	1" x 1-1/4"	50 psi	1,954
F8230012	1-1/4"	30 psi	1,704
F82100012	1-1/4"	100 psi	4,454
F82125012	1-1/4"	125 psi	5,437
F9530012	1-1/4" x 1-1/2"	30 psi	2,090
F8230015	1-1/2"	30 psi	2,085
F82125015	1-1/2"	125 psi	6,653
F9530015	1-1/2" x 2"	30 psi	3,010
F8230020	2"	30 psi	3,902
F82125020	2"	125 psi	12,450
F9530020	2" x 2-1/2"	30 psi	5,351

Type NCLX

NC STANDARD CAPACITY T&P RELIEF VALVES

FOR PROTECTION OF HOT WATER HEATERS AND STORAGE TANKS

Incorporates an innovative "White Coat" thermal element, an inert covering that provides effective isolation from mineral deposits (liming) and galvanic corrosion. Cast bronze body with male inlet and female outlet, brass and stainless steel internal parts, silicone seat disc and stainless steel spring. Test lever standard. Temperature relief setting is 210ºF (99ºC).

SPECIFICATIONS

Temp. relief setting: 210°F **ASME rating:** 500,000 BTU/hr

AGA rating: 105,000 BTU/hr

Order No.	Model No.	Size	Pressure Setting	Element Ext. Length
NCLX1150-12	NCLX-1	3/4"	150PSI	1-7/16"
NCLX5125-12	NCLX-5	3/4"	125PSI	3"

Type FV

FV COMMERCIAL T&P RELIEF VALVES

FOR USE ON COMMERCIAL AND DOMESTIC HOT WATER HEATING DEVICES

Design AGA certified per ANSI Z21.22 Relief Valves and Automatic Gas Shutoff Devices. Bronze body, stainless steel spring, furnished with test lever. Standard factory setting is 125 or 150 psi. Temperature relief is 210ºF (99ºC). All FV Series valves through 1-1/4" have coated thermal elements. Protects against corrosion and mineral build-up. The coating also isolates the copper from galvanic action within the heater. The 1-1/2" FVX-4 and the 2" FVMX-3 have stainless steel elements. Male or female inlet connections; female outlet connections.

Order No.	Model No.	Series	Size	Pressure Setting
FVX3C125-12	FVX-3C	4	3/4"	125 #
FVX3C150-12	FVX-3C	4	3/4"	150 #
FVX5C150-12	FVX-5C	4	3/4"	150 #
FVMX3C125-12	FVMX-3C	4	3/4"	125 #
FVMX3C150-12	FVMX-3C	4	3/4"	150 #
FVMX5C125-12	FVMX-5C	4	3/4"	125 #
FVMX5C150-12	FVMX-5C	4	3/4"	150 #
FVMX8C150-12	FVMX-8C	4	3/4"	150 #
FVX5C125010	FVX-5C	4	1"	125 #
FVX5C150010	FVX-5C	4	1"	150 #
FVMX3C125010	FVMX-3C	4	1"	125 #
FVMX3C150010	FVMX-3C	4	1"	150 #
FVMX5C125010	FVMX-5C	4	1"	125 #
FVMX5C150010	FVMX-5C	4	1"	150 #
FVX5L125010	FVX-5L	15	1"	125#
FVX5L150010	FVX-5L	15	1"	150 #
FVMX4L125012	FVMX-4L	15	1-1/4"	125 #
FVX4125015	FVX-4	3	1-1/2"	125 #

5

						ASME Relief Rating @ Pressure Setting Below (BTU/hr)				
Model No.	Series	Inlet[1]	Drain	Element Ext. Length	CGA & AGA Rating (BTU/hr)	75 psi	100 psi	125 psi	150 psi	Ship. Wt.
FVX-3C	4	3/4"F	3/4"F	2-7/8"	185,000	1,034,000	1,327,000	1,619,000	1,912,000	1-1/4#
FVX-5C	4	3/4"F	3/4"F	4-9/16"	205,000	1,034,000	1,327,000	1,619,000	1,912,000	1-1/4#
FVX-8C	4	3/4"F	3/4"F	7-3/4"	205,000	1,034,000	1,327,000	1,619,000	1,912,000	1-1/4#
FVMX-3C	4	3/4"M	3/4"F	2-11/16"	185,000	1,034,000	1,327,000	1,619,000	1,912,000	1-1/4#
FVMX-5C	4	3/4"M	3/4"F	4-3/8"	205,000	1,034,000	1,327,000	1,619,000	1,912,000	1-1/4#
FVMX-8C	4	3/4"M	3/4"F	7-9/16"	205,000	1,034,000	1,327,000	1,619,000	1,912,000	1-1/4#
FVX-3C	4	1"F	1"F	3"	500,000	1,165,000	1,495,000	1,825,000	2,155,000	1-1/2#
FVX-5C	4	1"F	1"F	4-3/4"	500,000	1,165,000	1,495,000	1,825,000	2,155,000	1-1/2#
FVMX-3C	4	1"M	1"F	3-1/16"	500,000	1,165,000	1,495,000	1,825,000	2,155,000	1-1/2#
FVMX-5C	4	1"M	1"F	4-3/4"	500,000	1,165,000	1,495,000	1,825,000	2,155,000	1-1/2#
FVX-5L	15	1"F	1"F	4-13/16"	750,000	1,670,000	2,515,000	3,070,000	3,625,000	2-1/2#
FVMX-4L	15	1-1/4"M	1"F	3-31/32"	750,000	1,670,000	2,515,000	3,070,000	3,625,000	2-1/2#
FVX-4[2]		1-1/2"F	1-1/2"F	4-1/8"	1,200,000	3,273,000	4,199,000	5,125,000	6,050,000	4-1/4#

[1] "F" is female; "M" is male

[2] Denotes valves that are not CGA certified

FWC MINIATURE RELIEF VALVES

Small, low-cost relief valves suitable for static over-pressure protection. Calibrated adjusting screw for occasional changes in pressure setting without the use of a pressure gauge . Bronze bodies with male inlet and female outlet, silicone seat and stainless steel spring. 125 psi. FWC valve standard factory pressure setting, 125 psi.

Order No.	Model No.	Description	Size
FWC-12	FWC	Adjustable pressure relief 25-175#	3/4"

VB-222 FREEZE PROOF SELF-DRAINING HOSE BIBB TYPE BACKFLOW PREVENTORS

Designed to prevent dangerous back-siphonage and backflow into a potable water supply system. For use around homes, schools, commercial buildings, laboratories, or any application involving a moveable hose attached to threaded faucets

Order No.	Size
VB222-12	3/4"

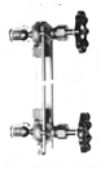
VR-801 VACUUM RELIEF VALVE

Prevents internal vacuum conditions that could drain a system by siphonage, burn out heaters or collapse storage tanks - especially copper. Opens quickly in emergency situations. Opens on less than 1" mercury vacuum. Bronze body with a male inlet, integral body seat and silicone seat disc. Maximum water pressure 200 psi; Maximum steam pressure 15 psi; Maximum temperature 250°F (121°C). Capacity 13 SCFM. It is AGA design certified per ANSI Z21.22 Relief Valves and Automatic Gas Shutoff Devices.

SPECIFICATIONS

Max. Water pressure: 200 psi
Max. temperature: 250°F
Capacity: 13 scfm
Vent hole: slotted

Order No.	Size	Ship Wt.
VR801-8	1/2"	1/2lb



BRASS WATER GAUGES

Gauge sets with checks, alum wheel less gauge glass and rods. Service rated at 200 psi @ 400°F--400 psi @ 100°F

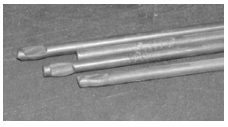
Order No.	Model No.	Pipe Size	Glass O.D.
20202	20-202-00	3/8"	5/8"
20250	20-250-00	1/2"	5/8"
20253	20-253-00	3/4"	3/4"

24 SERIES BRONZE CHAIN LEVER WATER GAUGES

For use on large boilers where columns are located beyond the reach from the floor. Valve stems require only a quarter-turn to open or close and are operated by lever arms linked together by means of chains. Less glass and rods.

Order No.	Model No.	Pipe Size	Glass O.D.
24651	24-651-03	1/2	5/8

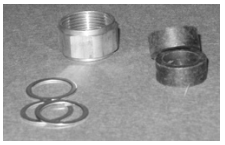
5



ACCESSORIES FOR WATER GAUGES

3/16" OD coppered guard rods

Order No.	Model No.	Length
CGLSGARD-3120	98-316	12"
CGLSGARD-3200	98-316	20"
CGLSGARD-3380	98-316	38"



SPARE PARTS FOR WATER GAUGES

Order No.	Model No.	Description
C1407	C-1407-06	3/4" GLASS NUT
C1408	C-1408-06	5/8" GLASS NUT
D1600	D-1600-00	5/8" EPDM GAGE GLASS GASKET
D1606	D-1606-00	3/4" EPDM GAGE GLASS GASKET
D1611	D-1611-00	STEM PACKING
D1871	D-1871-00	5/8" TEFLON GAGE GLASS GASKET
D2787	D-2787-00	5/8" TEFLON GAGE GLASS GASKET F/24-651
E1818	E-1818-00	3/4" BRASS FRICTION WASHER
E1819	E-1819-00	5/8" BRASS FRICTION WASHER
E2312	E-1818-00	5/8 BRS TOP WASHER F/24-651
E2314	E-1819-00	5/8 BRS STOP WASHER F/24-651
956-12	0956750	3/4" CONICAL GASKET (11/16" I.D.)

13 SERIES LOW PRESSURE STEAM HEATING BOILER SAFETY VALVES

For low pressure steam heating boilers. 15 psi pressure setting. Flat seat and teflon faced disc for positive seal and non-sticking. Capacity certified by the national board @ 15 psi in accordance with ASME Boiler and Pressure Vessel Code

Order No.	Model No.	Inlet Size	Outlet Size	Pressure Setting	Capacity[1] lbs/hr
LOW PRESSURE-15 PSI					
13211	13-211-B15	3/4"	3/4"	15 psi	475
13202	13-202-B15	1"	1"	15 psi	643
13213	13-213-B15	1-1/4"	1-1/2"	15 psi	1200
13214	13-214-B15	1-1/2"	2"	15 psi	1900

26-300 SERIES COMPRESSION GAUGE (TRI) COCKS

SOFT METAL SEAT--STUFFING BOX--250 LBS.

For checking level in water column or draining expansion tanks. Polished brass. Aluminum hand wheel.

Order No.	Model No.	Size
26304	26-304-28	1/2
26307	26-307-28	3/4

50 SERIES MANUAL MAIN BURNER CONTROL BALL VALVES

BRONZE CONSTRUCTION

CSA (formerly AGA and CGA) certified. Rated pressures of 1/2 and 5 psig. Valve has 2 pilot tappings on either side of valve.

Order No.	Model No.	Size	Capacity[1]	Pilot Size
50GB301	50-GB3-01	1/2"	693 cfh	1/8"
50GB401A	50-GB4-01A	3/4"	1258 cfh	1/8"
50GB501A	50-GB5-01A	1"	3144 cfh	1/8"
50GB6A1A	50-GB6-A1A	1-1/4"	6441 cfh	1/4"
50GB7A1A	50-GB7-A1A	1-1/2"	7745 cfh	1/4"
50GB8A1A	50-GB8-A1A	2"	14,741 cfh	1/4"

[1] Based on using 1,000 BTU cu/ft gas, 0.64 sp. gr. @ a pressure drop of 1.0" W.C.

The pilot for the 1/2" is single tapped. The 3/4" thru 2" are dual tapped.

61-100 SERIES BALL-CONE® CHECK VALVES

BRONZE THREAD ENDS, SPRING LOADED

400 psi WOG, Cold Non-shock 125 psi saturated steam on-off service.

Order No.	Model No.	Size
61101	61-101-01	1/4
61102	61-102-01	3/8
61103	61-103-01	1/2
61104	61-104-01	3/4
61105	61-105-01	1
61106	61-106-01	1-1/4
61107	61-107-01	1-1/2
61108	61-108-01	2

5

62-100 SERIES BALL-CONE® CHECK VALVES

316 STAINLESS STEEL THREAD ENDS, SPRING LOADED

400 psi WOG, Cold Non-shock 125 psi saturated steam on-off service.

Order No.	Model No.	Size
62103	62-103-01	1/2
62104	62-104-01	3/4

COMPRESSION BALL VALVE BIBB FAUCET

Rough brass finish, angle body, MPT inlet, MHT outlet

Order No.	Model No.	Size
35301 [1]	35-301-03	1/2"
35302	35-302-03	3/4"

[1]Available with sweat/thread inlet connection.

DFT INC.

316 STAINLESS STEEL CHECK VALVES

Spring loaded, all stainless steel construction. Ideal for steam boiler feed pump applications and other severe services. Metal to metal machined seating surfaces provide max. pressure of 750 psi CWP, 500 psi SWP. Excellent "universal" check valve because it can replace carbon steel, bronze, or SS valves.

Order No.	Model No.	Size
SCV-8	SCV 8317	1/2
SCV-12	SCV 8368	3/4
SCV010	SCV 8369	1
SCV012	SCV 8371	1 1/4
SCV015	SCV 8373	1 1/2
SCV020	SCV 8374	2
SCV030	SCV 8311	3

EVERLASTING VALVE CO.

BOILER BLOWDOWN VALVES

4000A Series lever operated valves feature straight-through flow, leak proof seal disc with self-lapping action, self-wiping action of disc (cannot hang up on boiler scale). Class 250 psi iron body and disc and threaded connections. Max blow-off press ASME code 200 psi. Series 4000A valves are quick-opening valves to allow drip-tight close off. A slow-opening valve is required down stream of quick-opening valve to do actual blow-down.

Order No.	Model No.	Size
4000A010	4000-A	1
4000A012	4000-A	1-1/4
4000A015	4000-A	1-1/2

Order No.	Model No.	Size
4000A020	4000-A	2
4000A025	4000-A	2-1/2

REPLACEMENT PARTS
Repair set B for 4000-A

Order No.	Model No.	Size
015BRSET	B	1-1/2

Order No.	Model No.	Size
020BRSET	B	2
025BRSET	B	2-1/2

FLOMATIC

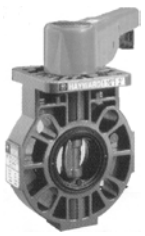
CHECK VALVES

Unleaded alloy body, FPT connectins, non-spin acetal poppet, Buna-N seal, stainless steel spring. Non-lead bronze. Max temp 180°F, pressure 400 psi (water). Ideal for potable water lines.

Order No.	Model No.	Size
80E-8	4029E	1/2"
80E-12	4030E	3/4"
80E010	4031E	1"
80E012	4032E	1-1/4"
80E015	4033E	1-1/2"
80E020	4034E	2"

5

HAYWARD



PVC BUTTERFLY VALVES

These valves have no metal in contact with the process media. Rated at 150 psi.

Order No.	Size	Description
PVCWBFV030	3"	PY110300EL PVC WAFER BVF, EPDM liner & seals, PVC disc
PVCWBFV040	4"	PY110400EL PVC WAFER BVF, EPDM liner & seals, PVC disc
PVCWBFV060	6"	PY110600EL PVC WAFER BVF, EPDM liner & seals, PVC disc
PVCWBFV080	8"	PY110800EL PVC WAFER BVF, EPDM liner & seals, PVC disc

Please visit the Tech Tips on pages 370-381 for chemical resistance tables for Hayward valves.

DOUBLE UNION PLASTIC BALL CHECK

Prevents reversal of flow in piping systems. Line pressure unseats the solid plastic ball to open the valve. When inlet flow ceases, the back pressure seats the ball on a special square cut elastomer seat, thus stopping back flow. Can be installed either horizontally or vertically. Sizes 1/2" thru 2" furnished with both socket and threaded end connections A PVC double union ball check valve is easily converted to a foot valve by replacing one end connection with a foot valve screen.

Order No.	Size	End Connection[1]
PVC		
TC10025T	1/4	T
TC10037T	3/8	T
TC10050ST	1/2	S/T
TC10075ST	3/4	S/T
TC10100ST	1	S/T
TC10125ST	1-1/4	S/T
TC10150ST	1-1/2	S/T
TC10200ST	2	S/T
TC1300S	3	S
TC1300T	3	T
TC1400S	4	S
CPVC		
TC20050ST	1/2	S/T
TC20075ST	3/4	S/T
TC20100ST	1	S/T
TC20125ST	1-1/4	S/T
TC20150ST	1-1/2	S/T
TC20200ST	2	S/T

[1] S=socket; T=threaded

Order No.	Size
PVC FOOT VALVE SCREEN	
FV10050SA	1/2
FV10075SA	3/4
FV10100SA	1
FV10150SA	1-1/2
FV10200SA	2

DOUBLE UNION PLASTIC BALL

Fully serviceable, internals can be inspected and serviced; fine pitch threaded seal retainer to adjust for seat wear; reversible teflon seats; full port design. Press rating 225 psi @ 70°F non-shock.

Order No.	Size	End Connection[1]
PVC		
TB1050ST	1/2	S/T
TB1075ST	3/4	S/T
TB1100ST	1	S/T
TB1125ST	1-1/4	S/T
TB1150ST	1-1/2	S/T
TB1200ST	2	S/T
TB1300S	3	S
TB1300T	3	T
TB1400S	4	S
TB1400T	4	T

Order No.	Size	End Connection[1]
CPVC		
TB2050ST	1/2	S/T
TB2075ST	3/4	S/T
TB2100ST	1	S/T
TB2125ST	1-1/4	S/T
TB2150ST	1-1/2	S/T
TB2200ST	2	S/T

[1] S=socket; T=threaded

5

QIC BALL VALVES

QIC ball valves are used in processing piping systems when low cost and compact design are required. QIC valves are available in PVC with EPDM seals and Teflon seats. Press rating 150 psi @ 70°F. Non-shock.

Order No.	Size	End Connection[1]
QV1T050TE	1/2	T
QV1T075TE	3/4	T
QV1T100TE	1	T
QV1T125TE	1-1/4	T
QV1T150TE	1-1/2	T
QV1T200TE	2	T

Order No.	Size	End Connection[1]
QV1T050SE	1/2	S
QV1T075SE	3/4	S
QV1T100SE	1	S
QV1T125SE	1-1/4	S
QV1T150SE	1-1/2	S
QV1T200SE	2	S

SAFE-T-LOC™ BULKHEAD FITTINGS

Permit safe, quick pipe connections to plastic, metal, or plastic lined tanks. Buttress thread is designed to prevent any possible leakage due to poor thread engagement. The hex shaped body end allows for installation on large tanks with only one person. All Safe-T-Loc bulkhead fittings shall be (PVC, CPVC, Natural PPL) with (socket x thread or thread x thread) connections.

Order No.	Size	End Connection[1]	Min. Tank ID		Material
			Rigid	Flexible	
BF10050SXT	1/2	SXT	7.25"	5.56"	PVC
BF10075SXT	3/4	SXT	10.00"	7.75"	PVC
BF10100SXT	1	SXT	11.75"	8.94"	PVC
BF10125SXT	1-1/4	SXT	16.25"	12.19"	PVC
BF10150SXT	1-1/2	SXT	16.25"	12.19"	PVC
BF10200SXT	2	SXT	25.75"	19.38"	PVC
BF10300SXT	3	SXT	42.50"	36.25"	PVC
BF10050TXT	1/2	TXT	7.25"	5.56"	PVC
BF10075TXT	3/4	TXT	10.00"	7.75"	PVC
BF10100TXT	1	TXT	11.75"	8.94"	PVC
BF10125TXT	1-1/4	TXT	16.25"	12.19"	PVC
BF10150TXT	1-1/2	TXT	16.25"	12.19"	PVC
BF10200TXT	2	TXT	25.75"	19.38"	PVC
BF10300TXT	3	TXT	42.50"	36.25"	PVC

[1] S=socket; T=threaded

PVC BASKET STRAINERS

Simplex PVC basket strainer, rated 150 psi, low pressure drop, hand removable cover.

Order No.	Perforation	Size
SB1200ST	1/8"	2
REPLACEMENT BASKET		
BS12001/8	1/8"	2

PLASTIC Y-STRAINERS

Hayward PVC Y-Strainers protect piping system components from damage caused by dirt or debris in the process media. The flow through a Y-Strainer passes through a standard 1/32" perforated screen. Press rating 150 psi @ 70°F non-shock.

Order No.	Size	Connection
YS00050T	1/2	T
YS00075T	3/4	T
YS00100T	1	T
YS00125T	1-1/4	T
YS00150T	1-1/2	T
YS00200T	2	T
YS00100S	1	S

S=Socket; T=Threaded

5

BRASS FULL PORT BALL VALVES

T82M, Lever Handle, 600 PSI WOG (Replacement for gauge cocks), Threaded ends, FXM.

Order No.	Model No.	Size
MBV-2	**100-297**	1/8"
MBV-4	**100-299**	1/4"

KECKLEY

STYLE A CAST IRON 125# FLANGED Y-TYPE STRAINERS

Cast iron; machined to exacting specifications for proper alignment and seal. Screen is piloted on both body and cover. May be installed in downward vertical lines with effectiveness equal to horizontal installations.

Order No.	Size	Working Pressure	Screen
A020	2	125 psi	3/64", SS
A025	2-1/2	125 psi	1/16", SS
A030	3	125 psi	1/16", SS
A040	4	125 psi	1/16", SS
A060	6	125 psi	1/16", SS

SS= Stainless Steel

STYLE B-250 CAST IRON THREADED Y-TYPE STRAINERS

SPECIFICATIONS

Body: ASTM A 126, Class B **Bushing:** Malleable Iron

Order No.	Size	Working Pressure	Screen
B-6	3/8	250 psi	20 Mesh, SS
B-8	1/2	250 psi	20 Mesh, SS
B-12	3/4	250 psi	20 Mesh, SS
B010	1	250 psi	20 Mesh, SS
B012	1-1/4	250 psi	20 Mesh, SS
B015	1-1/2	250 psi	20 Mesh, SS
B020	2	250 psi	20 Mesh, SS
B025	2-1/2	250 psi	1/16", SS
B030	3	250 psi	1/16", SS

SS=Stainless Steel

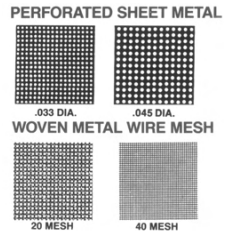
STYLE F-150 CAST BRONZE THREADED Y-TYPE STRAINERS

Features a machined seat in the body and cap for accurate screen alignment when servicing is requried. Both the body and straight thread cap are bronze. Plugs are furnished at extra charge.

Order No.	Size	Working Pressure	Screen
F-4	1/4	150 psi	60 Mesh, SS
F-6	3/8	150 psi	60 Mesh, SS
F-8	1/2	150 psi	60 Mesh, SS
F-12	3/4	150 psi	60 Mesh, SS
F010	1	150 psi	60 Mesh, SS
F012	1-1/4	150 psi	60 Mesh, SS
F015	1-1/2	150 psi	60 Mesh, SS
F020	2	150 psi	60 Mesh, SS

SS=Stainless Steel

5



STAINLESS STEEL STRAINER SCREENS

Order No.	Model No.	Size	Perforations	Fits	Style
ASCRN040NS	**ASCREEN 4032**	4"	PERF. SS	A	New Style
BSCRN-6-8NS	**BSCRN-6-8NS**	3/8" & 1/2"	20 MESH SS	B	New Style
BSCRN-12	**BSCREEN 4003**	3/4"	20 MESH SS	B	Old Style
BSCRN010NS	**BSCREEN 4005**	1"	20 MESH SS	B	New Style
BSCRN015	**BSCREEN 4007**	1-1/2"	20 MESH SS	B	Old Style
BSCRN020NS	**BSCREEN 4008**	2"	20 MESH SS	B	New Style

KUNKLE

STEAM SAFETY RELIEF VALVES

Heavy duty steam safety relief "pop-off" valves are to prevent overpressure of the vessel.

Order No.	Model No.	Inlet Size	Outlet Size	Pressure Setting	Body Style	Capacity (lb/hr[1]
6933ED	**6933ED01-GM0015**	3/4"	1"	15 psi	Bronze	338
6933FE	**6933FE01-GM0015**	1"	1-1/4"	15 psi	Bronze	530
6933GF	**6933GF01-GM0015**	1-1/4"	1-1/2"	15 psi	Bronze	868
6933HG	**6933HG01-GM0015**	1-1/2"	2"	15 psi	Bronze	1,352
9301020	**0930-H01-GC0015**	2"	2"	15 psi	Cast Iron	3,161
9301025	**0930-J01-GC0015**	2-1/2"	2-1/2"	15 psi	Cast Iron	4,497
9301030	**0930-K01-GC0015**	3"	3"	15 psi	Cast Iron	6,942

[1]ASME Setion IV, 15 psi

SERIES 6010 HIGH PRESSURE STEAM SAFETY RELIEF VALVES

Steam safety relief "pop-off" valves are to prevent overpressure of the vessel. National Board capacity certified, high capacity, ideal for use with all types of boilers, pressure vessels and pressure piping systems.

Order No.	Model No.	Inlet Size	Outlet Size	Pressure Setting	Capacity[1] lbs/hr
6010DCM01-AM0100	6010DCM01-AM0100	1/2"	3/4"	100 psi	645
6010DDM01-AM0050	6010DDM01-AM0050	3/4"	3/4"	50 psi	366
6010DDM01-AM0090	6010DDM01-AM0090	3/4"	3/4"	90 psi	587
6010DDM01-AM0100	6010DDM01-AM0100	3/4"	3/4"	100 psi	645
6010DDM01-AM0125	6010DDM01-AM0125	3/4"	3/4"	125 psi	787
6010DDM01-AM0150	6010DDM01-AM0150	3/4"	3/4"	150 psi	928
6010EDM01-AM0125	6010EDM01-AM0125	3/4"	1"	125 psi	1400
6010EDM01-AM0150	6010EDM01-AM0150	3/4"	1"	150 psi	1654
6010EEM01-AM0075	6010EEM01-AM0075	1"	1"	75psi	897
6010EEM01-AM0100	6010EEM01-AM0100	1"	1"	100 psi	1151
6010EEM01-AM0125	6010EEM01-AM0125	1"	1"	125 psi	1402
6010EEM01-AM0150	6010EEM01-AM0150	1"	1"	150 psi	1654
6010FEM01-AM0125	6010FEM01-AM0125	1"	1-1/4"	125 psi	2189
6010FEM01-AM0150	6010FEM01-AM0150	1"	1-1/4"	150 psi	2582
6010FFM01-AM0125	6010FFM01-AM0125	1-1/4"	1-1/4"	125 psi	2189
6010FFM01-AM0150	6010FFM01-AM0150	1-1/4"	1-1/4"	150 psi	2582
6010GFM01-AM0125	6010GFM01-AM0125	1-1/4"	1-1/2"	125 psi	3592
6010GFM01-AM0150	6010GFM01-AM0150	1-1/4"	1-1/2"	150 psi	4236
6010GGM01-AM0125	6010GGM01-AM0125	1-1/2"	1-1/2"	125 psi	3592
6010GGM01-AM0150	6010GGM01-AM0150	1-1/2"	1-1/2"	150 psi	4236
6010HGM01-AM0150	6010HGM01-AM0150	1-1/2"	2"	150 psi	6610
6010HHM01-AM0125	6010HHM01-AM0125	2"	2"	125 psi	5604
6010HHM01-AM0150	6010HHM01-AM0150	2"	2"	150 psi	6610
6010JHM01-AM0150	6010JHM01-AM0150	2"	2-1/2"	150 psi	10853

[1]Capacities above 15 psi are Power Boiler Code - Sec. I, ASME (V) ratings, lb/hr steam at 3% accumulation

Model M67

Model 75

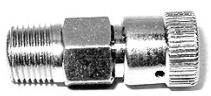
AUTOMATIC AIR VENTS

Air eliminators for hot or chilled water closed systems.

Order No.	Size	PSI	Description
M67	1/8" MPT	50	Brass finish
71	1/4" MPT	150	Brass finish
75	3/4" MPT (X 1/2"FPT)	150	Brass finish

OVERFLOW CONNECTOR

Order No.	Model No.	Use With
7A	7A	71, 75, M67



72 AUTO-VENT

For vertical or horizontal mounting on convectors, baseboard and free-standing radiators. Fast venting valve of the expansion type, rather than float type. All expansion and contraction of the single non-porous, composition disk is confined to four vent ports. Manual venting and tight shut-off are controlled by a valve cap with screwdriver slot adjustment.

Order No.	Size	Description
72	1/8" MPT	For pressures up to 75 PSI

CROSS REFERENCES
BRONZE & IRON VALVES

CRANE	MILWAUKEE
14-1/2P	591A
1701S	115
17TF	595T
212P	592A
362E	572
373 1/2	F-2971
382P	593A
384P	582
431UB	1151
465 1/2	F-2885
475 1/2	F-2891
634E	1184
636E	1186
7-1/2E	F-2894
76E	507
76E	517
7TF	590T
1	502
2	504
29	548-B
36	508
37	509
88	600
134	1509
137	510
351	F-2981
351	F-2981-A
1707	509T
1342	1510T
351	F2981

CRANE	MILWAUKEE
373	F-2974
375	F-2974-FP
424	1174
426	1176
428	148
431	1150
432	901U
437	1140
437	1141
438	105
461	F-2882
467	F-2885-FP
473	F-2890
488	T-2888-M
490	T-2887-M
1310	1502
1334	1169
1342	1510
1700/428	148
14477	F-2885-13M
14493	F-2974-13M
1700S	149
1310	1590T
428-UB	1152
424	1156
432	900
634E	1182
7TF	590T
21E	F2983
39E	F2970
440	1150

NIBCO	MILWAUKEE
F-607-OTS	F-2885-FP
F-617-O	F-2885
F-617-ON	F-2891
F-619	F-2882
F-619-N	F-2890
F-667-O	F-2894
F-669	F-2897
F-718-B	F-2981
F-768-B	F-2983
F-908-W	F-2974-FP
F-910	1800 SERIES 125#
F-910	1800
F-918	F-2971
F-918-B	F-2974
F-960	1800 SERIES 250#
F-968	F-2970-M
S-111	149
S-113	115
S-134	1169
S-211-B	1502
S-413-Y	1590T
S-413-B	1509
S-433-Y	1510T
S-480-Y	1548
T-111	148
T-113	105
T-124	1152
T-124-O	118
S134	1169
T311B	504
T480Y	548B
F918B	F-2974

NIBCO	MILWAUKEE
T-131	1150
T-133	1140
T-134	1151
T-136	1141
T-154-A	1156
T-154-A	1153
T-154-SS	1174
T-174-A	1182
T-174-SS	1184
T-176-SS	1186
T-211-B	502
T-211-Y	502T
T-235-Y	590T
T-256-AP	592A
T-275-B	570
T-275-B	572
T-276-AP	593A
T-311-Y	504
T-335-Y	595T
T-375-B/Y	582
T-413-B	509
T-413-W	511
T-413-Y	509T
T-433-Y	510T
T-453-B	508
T-473-B	507
W-910	1400 SERIES 125#
W-960	1400 SERIES 250#

MILWAUKEE VALVE CROSS REFERENCE

CROSS REFERENCES
BRONZE & IRON VALVES

STOCKHAM	MILWAUKEE
B-104	115
AG-642	F-2885-13
AG-931	F-2974-13
B-100	148
B-103	105
B-104	115
B-105	1152
B-109	149
B-120	1151
B-122	1150
B-124	1169
B-128	1140
B-130	1141
B-132	1174
B-135	1153
B-135	1156
B-144	1182
B-145	1184
B-16	502
B-17	1502
B-216	504
B-222	595T
B-24T	1590T
B-22T	590T
B-320T	509T
B-319	509
B-309	1509

STOCKHAM	MILWAUKEE
B-322T	510T
B-245	518
B-345	508
B-367	517
B-37	570
B-375	507
B-66	572
B-74	593A
F-532	F-2983
F-667	F-2894
F-947	F-2970
G-624	F-2981
G-612	F-2882
G-613	F-2890
G-623	F-2885
G-624	F-2891
G-931	F-2974
G-933	F-2971
B-62	592A
WG-970	1400
B140	1176
B116	900
B147	1186
E29	591A
B37	570
B62	592A
B64	600
B66	572
B320B	511
B310T	1509T
AG642	F-2885-13M
AG931	F-2974-13M

HAMMOND	MILWAUKEE
IB412	572
IB413T	590T
IB415	600
IB418	1502
IB423	1590T
IB434	592A
IB440	502
IB444	593A
IB454T	595T
IB463	504
IB610	901U
IB617	1152
IB629	1151
IB635	149
IB638	1141
IB640	148
IB641	1150
IB645	105
IB646	1140
IB647	115
IB648	1169
IB650	1156
IB651	1174
IB652	1182
IB654	1184
IB656	1186
IB904	509

HAMMOND	MILWAUKEE
IB912	1509
IB940	509T
IB944	508
IB945	1510T
IB946	510T
IB949	507
IR1126	F-2971
IR1144	F-2890
IR1146	F-2891
IR1913	F-2885-13
IR1937	F-2974-13
IR337	T-2888
IR9253	1400
IR9354	1800
IR116	F-2981
313	F-2983-M
322	F-2970-M
IR330	F-2894
IR1124	F-2974
IR1138	F-2882
IR1140	F-2885
IB418	1502
943	548B
IB912	1509

5

CROSS REFERENCES
BRONZE & IRON VALVES

GRINNELL	MILWAUKEE
3000SJ	115
3010	149
3080SJ	1169
3240SJ	1590T
3300SJ	1509
6020A	F-2885
6020A1	F-2891
6060A	F-2882
6100A	F-2894
6200A	F-2981
6300A	F-2974
6300A1	F-2971
3000	105
3010	148
3050	1140
3060	1150
3080	1151
3130	1182
3135	1184
3200	502
3220	504
3240	590T
3255	572
3270	593A
3300	509
3330	510T
3370	507
3070	1141
3080SJ	1169
3120	1186
3245	595T
3280	582
3310	509T
3600/3615	548B
6450A	F2970
3310SJ	1509T
3330SJ	1510T
6250A	F2983

JENKINS	MILWAUKEE
106-A	590T
108-C	595T
2036-C	570
2280-U	1182
2280-UN	1184
47-U	1151
496 2	517
556C	593A
6250A	F2983
6350A	F2970
7326-C	F2882
743C	600
750C	572
762-C	507
T413Y	509T
352	510T
370	1140
990	148
991	149
992	105
993	115
994	502
996	509
997	1509
2032	591A
7204-C	F2894
7624-N	F2974-13M
7651-C	F2885
40-C	T2888M
42-C	T2887M
7651-N	F2885-13M
7024-C	F2974
785-C	F2971
7100-C	F2891
7523-C	F2890
7613-C	F2981

LUNKENHEIMER	MILWAUKEE
1572N4	F2974-13M
1578N4	F2885-13M
16PS	593A
17PS	582
230-70	507
906BS	600
LQ600	592A
123	590T
126	1502
214	595T
323	F2970
407	570
409	572
771	1186
884	F2983
1123	F2981
1428	F2882
1430	F2885
1436	F2894
1578	F2891
1790	F2974
1792	F2971
2127	148
2129	105
2132	149
2133	115
2140	502
2141	501
2144	509 / 509T
2145	1509
2145	1509T
2151	1150
2153	1140
2227	1156
3127	1152
3151	1151
3155	1169
554-Y	517

POWELL	MILWAUKEE
362-O	900
559P	F2974-13M
560Y	508
563Y	507
IB904	509
110	570
120	572
150	590T
151	595T
180	600
241	F2981
256	F2983
355	902
362	900U
375	1153 / 1156
377	1182
500	148
507	105
512	1140
514	1150
559	F2974
576	F2970
596	510T
650	502
1259	F2971
1787	F2882
1793	F2885
1797	F2894
1799	F2890
1816	F2891
1821	149
1822	115
1823	1590T
1825	1509
1893	F2885-13M
2375	1174
2377	1184
2380	1176

WALWORTH	MILWAUKEE
3095SJ	1590T
3245P	592A
3260P	593A
3406SJ	1509
4SJ	115
55SJ	149
8719F	F2882
8720F	F2890
8724FS	F2885-13M
8726F	F2885
8786F	F2894
8906F	F2981
8928-1/2F	F2971
8928F	F2974
8928FS	F2974-13M
8955F	F2983
8970F	F2970
2	1152
4	105
11	1150
14	1140
32	1184
55	148
56	1141
3036	1182
3036	1153
3036	1151
3048	1156
3058	1186
3059	504
3095	590T
3096	595T
3205	572
3406	509
3412	510T
3420	508
3428	507

MILWAUKEE VALVE CROSS REFERENCE

CROSS REFERENCES
CAST STEEL VALVES

CRANE	MILWAUKEE
143-1/2XUF	1565
143XU	1560
147-1/2XUF	1575
147XU	1570
151-1/2XUF	6065
151XU	3060
159-1/2XUF	3075
159XU	3070
171-1/2XUF	6065
171XU	6060
175-1/2XUF	6075
175XU	6070
33-1/2XUF	3055
33XUF	3050
47-1/2XUF	1555
47XUF	1550
76-1/2XUF	6055
76XUF	6050

DSI	MILWAUKEE
133XU	1560
137XU	1570
141XU	3060
149XU	3070
161XU	6060
165XU	6070
23XUF	3050
37XUF	1550
37/12XU	1555
66XUF	6050

STOCKHAM	MILWAUKEE
15-OF	1550
30-OF	3050
60-OF	6050
15-GSF	1560
30-GSF	3060
15-SF	1570
30-SF	3070
60-SF	6070

KITZ	MILWAUKEE
K150-SCJ	1560
K150-SCL	1550
K150-SCO	1570
K300-SCJ	3060
K300-SCL	3050
K300-SCO	3070
K600-SCJ	6060
K600-SCL	6050
K600-SCO	6070
W150-SCJ	1565
W150-SCL	1555
W150-SCO	1575
W300-SCJ	6065
W300-SCL	3055
W300-SCO	3075
W600-SCJ	6065
W600-SCL	6055
W600-SCO	6075

LUNKENHEIMER	MILWAUKEE
1512	1550
1513	1555
1532	1560
1533	1565
1572	1570
1573	1575
3012	3050
3013	3055
3032	3060
3033	6065
3072	3070
3073	3075
6012	6050
6013	6055
6032	6060
6033	6065
6072	6070
6073	6075

NEWCO	MILWAUKEE
11F-CB1	1550
11W-CB1	1555
13F-CB1	3050
13W-CB1	3055
16F-CB1	6050
16W-CB1	6055
21F-CB1	1560
21W-CB1	1565
23F-CB1	3060
23W-CB1	6065
26F-CB1	6060
26W-CB1	6065
31F-CB1	1570
31W-CB1	1575
33F-CB1	3070
33W-CB1	3075
36F-CB1	6070
36W-CB1	6075

PACIFIC	MILWAUKEE
150F	1550
150WE	1555
160F	1560
160WE	1565
180F	1570
180WE	1575
350F	3050
350WE	3055
360F	3060
360WE	6065
380F	3070
380WE	3075
650F	6050
650WE	6055
660F	6060
660WE	6065
680F	6070
680WE	6075

POWELL	MILWAUKEE
1503WE	1555
1531WE	1565
1561WE	1575
3003WE	3055
3031WE	6065
3061WE	3075
6003WE	6055
6031WE	6065
6561WE	6075
1503	1550
1561	1570
3003	3050
3061	3070
6003	6050
6061	6070
15031	1560
30031	3060
60031	6060

WALWORTH	MILWAUKEE
5202F	1550
5202WE	1555
5206F	3050
5206WE	3055
5232F	6050
5232WE	6055
5275F	1560
5275WE	1565
5281F	3060
5281WE	6065
5295F	6060
5295WE	6065
5341F	1570
5341WE	1575
5344F	3070
5344WE	3075
5350F	6070
5350WE	6075

VELAN	MILWAUKEE
B006C-02	1555
B007C-02	1565
B011C-02	1575
B106C-02	3055
B107C-02	6065
B111C-02	3075
B206C-02	6055
B207C-02	6065
B211C-02	6075
F001C-02	1570
F006C-02	1550
F007C-02	1560
F106C-02	3050
F107C-02	3060
F111C-02	3070
F206C-02	6050
F207C-02	6060
F211C-02	6070

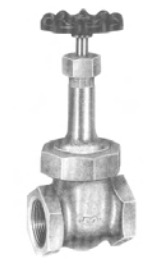
5

CLASS 125# BRONZE GATE VALVES

General service, solid wedge disc, non-rising stem, threaded bonnet, gland packed, 125 WSP, 200 WOG

Order No.	Model No.	Size	Connection
BRGA125NRS-4T	105	1/4	Threaded
BRGA125NRS-6T	105	3/8	Threaded
BRGA125NRS-8T	105	1/2	Threaded
BRGA125NRS-12T	105	3/4	Threaded
BRGA125NRS010T	105	1	Threaded
BRGA125NRS012T	105	1-1/4	Threaded
BRGA125NRS015T	105	1-1/2	Threaded
BRGA125NRS020T	105	2	Threaded
BRGA125NRS025T	105	2-1/2	Threaded

Order No.	Model No.	Size	Connection
BRGA125NRS-8S	115	1/2	Sweat
BRGA125NRS-12S	115	3/4	Sweat
BRGA125NRS010S	115	1	Sweat
BRGA125NRS012S	115	1 1/4	Sweat
BRGA125NRS015S	115	1-1/2	Sweat
BRGA125NRS020S	115	2	Sweat
BRGA125NRS030S	115	3	Sweat



CLASS 150# SERIES GATE VALVES

Industrial service, solid wedge disc, rising stem, union bonnet, gland packed, threaded ends, 150 WSP, 300 WOG

Order No.	Model No.	Size
BRGA150RS-4T	1151	1/4
BRGA150RS-6T	1151	3/8
BRGA150RS-8T	1151	1/2
BRGA150RS-12T	1151	3/4
BRGA150RS010T	1151	1
BRGA150RS012T	1151	1-1/4
BRGA150RS015T	1151	1-1/2
BRGA150RS020T	1151	2
BRGA150RS025T	1151	2-1/2
BRGA150RS030T	1151	3

CLASS 300# BRONZE GATE VALVES

Heavy duty service, solid wedge disc, rising stem, stainless seat, gland packed, union bonnet, 300 WSP, 1000 WOG, threaded ends

Order No.	Model No.	Size
BRGA300RS-4T	1184	1/4
BRGA300RS-8T	1184	1/2
BRGA300RS-12T	1184	3/4
BRGA300RS010T	1184	1
BRGA300RS012T	1184	1-1/4
BRGA300RS015T	1184	1-1/2
BRGA300RS020T	1184	2

5

CLASS 125# BRONZE SWING CHECK VALVES

Horizontal swing, bronze disc, 125 WSP, 200 WOG

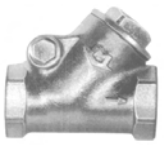
Order No.	Model No.	Size	Connection
BRCK125SWG-4T	509	1/4	Threaded
BRCK125SWG-6T	509	3/8	Threaded
BRCK125SWG-8T	509	1/2	Threaded
BRCK125SWG-12T	509	3/4	Threaded
BRCK125SWG010T	509	1	Threaded
BRCK125SWG012T	509	1-1/4	Threaded
BRCK125SWG015T	509	1-1/2	Threaded
BRCK125SWG020T	509	2	Threaded
BRCK125SWG025T	509	2-1/2	Threaded
BRCK125SWG030T	509	3	Threaded

Order No.	Model No.	Size	Connection
BRCK125SWG-8S	1509	1/2	Sweat
BRCK125SWG-12S	1509	3/4	Sweat
BRCK125SWG010S	1509	1	Sweat
BRCK125SWG012S	1509	1-1/4	Sweat
BRCK125SWG015S	1509	1-1/2	Sweat
BRCK125SWG020S	1509	2	Sweat
BRCK125SWG030S	1509	3	Sweat

CLASS 150# BRONZE SWING CHECK VALVES

Horizontal swing, bronze disc, 150 WSP, 200 WOG, with teflon disc

Order No.	Model No.	Size	Connection
BRCK150SWG-12T	510T	3/4"	THREAD
BRCK150SWG010T	510T	1"	THREAD
BRCK150SWG012T	510T	1-1/4"	THREAD
BRCK150SWG015T	510T	1-1/2"	THREAD



CLASS 300# BRONZE SWING CHECK VALVES

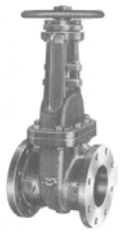
Bronze regrinding disc, Y-pattern, threaded ends, 300 WSP, 600 WOG

Order No.	Model No.	Size	Dimension End to End
BRCK300SWG-8T	507	1/2	2-5/8
BRCK300SWG-12T	507	3/4	3
BRCK300SWG010T	507	1	3-11/16
BRCK300SWG012T	507	1-1/4	4-3/8
BRCK300SWG015T	507	1-1/2	4-5/8
BRCK300SWG020T	507	2	5-7/8

CLASS 125# IBBM FLANGED CHECK VALVES

Horizontal swing, bolted cap, 125 SWP, 200 WOG

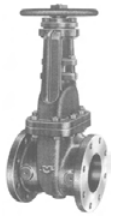
Order No.	Model No.	Size	Dimension End to End
IRCK125SWG025F	2974A	2-1/2	8-1/2
IRCK125SWG030F	2974A	3	9-1/2
IRCK125SWG040F	2974A	4	11-1/2
IRCK125SWG060F	2974A	6	14



CLASS 125# IBBM OS&Y FLANGED GATE VALVES

Solid wedge disc, bolted bonnet, gland packed, 125 WSP, 200 WOG

Order No.	Model No.	Size	Dimension End to End
IRGA125OSY020F	2885A	2	7
IRGA125OSY025F	2885A	2-1/2	7-1/2
IRGA125OSY030F	2885A	3	8
IRGA125OSY040F	2885A	4	9
IRGA125OSY050F	2885A	5	10
IRGA125OSY060F	2885A	6	10-1/2



CLASS 250# IBBM OS&Y FLANGED GATE VALVES

Solid wedge disc, bolted bonnet, gland packed, 250 WSP, 500 WOG

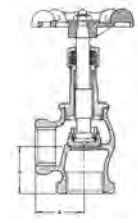
Order No.	Model No.	Size	Dimension End to End
IRGA250OSY025F	2894A	2-1/2	9-1/2
IRGA250OSY030F	2894A	3	11-1/8
IRGA250OSY040F	2894A	4	12
IRGA250OSY060F	2894A	6	15-7/8

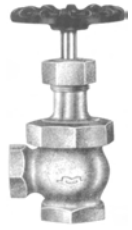
5

CLASS 125# BRONZE ANGLE VALVES

Bronze disc, threaded bonnet, threaded ends, 125 WSP, 200 WOG

Order No.	Model No.	Size	"A" Dimension
BRAN125-6T	504	3/8	3/4

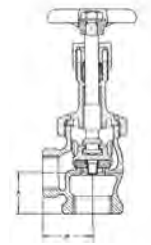




CLASS 150# BRONZE ANGLE VALVES

Heavy duty service, composition steam disc, union bonnet, gland packed, threaded ends, 150 WSP, 300 WOG

Order No.	Model No.	Size	"A" Dimension
BRAN150-12T	595T	3/4	1-7/16
BRAN150010T	595T	1	1-3/4
BRAN150012T	595T	1-1/4	2-1/16
BRAN150015T	595T	1-1/2	2-1/4
BRAN150020T	595T	2	2-3/4



MILWAUKEE VALVE

CLASS 150# SERIES BRONZE GLOBE VALVES

Heavy duty service, Teflon disc, union bonnet, gland packed, threaded ends, 150 WSP, 300 WOG

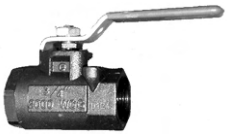
Order No.	Model No.	Size
BRGL150-4T	590T	1/4
BRGL150-6T	590T	3/8
BRGL150-8T	590T	1/2
BRGL150-12T	590T	3/4
BRGL150010T	590T	1
BRGL150012T	590T	1-1/4
BRGL150015T	590T	1-1/2
BRGL150020T	590T	2

CLASS 300# BRONZE GLOBE VALVES

Heavy duty service, Special hardened stainless steel seat ring and disc, union bonnet, gland packed, threaded ends, 300 WSP, 600 WOG

Order No.	Model No.	Size
BRGL300-8T	593A	1/2
BRGL300-12T	593A	3/4
BRGL300010T	593A	1

Order No.	Model No.	Size
BRGL300012T	593A	1-1/4
BRGL300015T	593A	1-1/2
BRGL300020T	593A	2



STEEL BALL VALVES (CARBON AND SS)

1/4" - 1" 2000# WOG; 1-1/4" - 2" 1500# WOG. THREADED ENDS.

						For C.S. or S.S.	
Order No.	Model No.	Size	Order No.	Model No.	Size	CV	Op. Torque (in.-lbs)
CARBON STEEL			STAINLESS STEEL				
C7000-8	6102CS	1/2"	S8000M3-8	8102SS	1/2"	10	40
C7000-12	6103CS	3/4"	S8000M3-12	8103SS	3/4"	25	50
C7000010	6104CS	1"	S8000M3010	8104SS	1"	35	100
C7000012	6105CS	1-1/4"	S8000M3012	8105SS	1-1/4"	50	140
C7000015	6106CS	1-1/2"	S8000M3015	8106SS	1-1/2"	80	190
C7000020	6107CS	2"	S8000M3020	8107SS	2"	105	240

ROBERT MFG.

5

R SERIES FLOAT VALVE REPLACEMENT PARTS

Parts and accessories to repair or upgrade R series float valves.

Order No.	Model No.	Valve No.	Size	Description
104506-3V	104506-3V	R-400	1/2"	VITON CUP
104506-5V	104506-5V	R-400	3/4"	VITON CUP
104506-7	104506-7	R-400	1"	HYCAR CUP
104506-7V	104506-7V	R-400	1"	VITON CUP
R400-53	R400-53	R-400	3/8"	3/8 HW DISC BUNA-N
R400-53V	R400-53V	R-400	3/8"	VITON DISC
R400-54	R400-54	R-400	3/8"	LEATHER CUP
R400-63V	R400-63V	R-400, R-700, R-900	1/2"	VITON DISC
R400-73V	R400-73V	R-400, R-700, R-900	3/4"	VITON DISC
R400-83V	R400-83V	R-400, R-700, R-900	1"	VITON DISC
AD2	R434-11	R-400, R-700, R-900	All	3/8-16SAE X 3/8 MIP PLUG ADAPTR
R435-1	R435-1	R-400	All	1/4-20SAE X 1/8FIP FLT BALL ADAPT
AD11	R435-5	R-400	All	1/4-20SAE X 3/8-16SAE FLT BALL ADAPT
R470	R470	R-400, R-600, R-700, R-900	All	SHORT ARM
R475	R475	RF-400-1, R-610, RF-610	All	SHORT ARM ASSY 1/8 FIP THREAD KI
R480	R480	R-400, R-600, R-700, R-810, R-900	All	THUMB SCREWS

SPEARS

PVC LAB VALVES
WITH ADAPTER KIT

Ideally suited for a variety of laboratory, system monitoring and OEM applications. Available in threaded or socket. Adapter kit provides multiple combinations of tubing and male pipe thread connections. NOT FOR USE WITH COMPRESSED AIR OR GAS.

Order No.	Model No.	Size	C_v [1]	PSI Rating
PVCLV-4	1529-002	1/4"	10	150

[1] With adapters

TASCO VALVES

BRONZE FLOCONTROL GLOBE AND ANGLE VALVES

A combination valve and flow control instrument equipped with a special micrometer dial and pointer which enables the operator to set the valve opening to within one hundredth of a turn of the handwheel. V-port valve disc insures proportional flow throughout the entire lift of the stem. Good for continuous surface boiler blow down.

Order No.	Model No.	Description	Size	Non-Shock Pressure Rating
4445-8	4445	GLOBE VALVE	1/2	150 PSI
4445-12	4445	GLOBE VALVE	3/4	150 PSI
4455-8	4455	ANGLE VALVE	1/2	150PSI

UNITED BRASS

300# "Y" BLOW OFF VALVES
BRONZE BODIES, SEAT & DISC 400-500 BRINNELL STAINLESS STEEL

Order No.	Model No.	Size
L180010	325U	1"
L180012	325U	1-1/4"
L180015	325U	1-1/2"
L180020	325U	2"

See Tech Tip #15 for tips on boiler blowdown.

5

WATTS REGULATOR

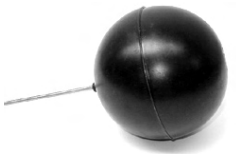
WATTS FLIPPEN SERIES FLOAT VALVES

Select valve, float ball, and stem from the chart below.

Order No.	Model No.	Pipe Size Inlet	Pipe Size Outlet	Capacity @ 50 PSI	Flow Capacity @ 100 PSI	Suggested Float Copper	Suggested Poly. Floats	Stem	Adapter
Heavy Duty Valves	Max. Press.-165psi		Max. temp.- 180F						
FV-6	375	3/8 MIP	Free Flow	14 gpm	21 gpm	CUBALL4	PF5	Stem-4x100	
FV-8	500	1/2 MIP	Free Flow	20 gpm	31 gpm	CUBALL5	PF5	Stem-4x100	
FV-12	750	3/4 MIP	Free Flow	40 gpm	60 gpm	CUBALL5	PF5	Stem-4x100	
FV010	1000	1 FIP	Free Flow	100 gpm	150 gpm	CUBALL 6 , 8	PF 6 , 8	Stem-6x120	AS NEEDED
FV012	1250	1-1/4 FIP	Free Flow	250 gpm	348 gpm	CUBALL8	PF8	Stem-6x120	
FV015	1500	1-1/2 FIP	Free Flow	250 gpm	348 gpm	CUBALL8	PF8	Stem-6x120	
FV020	2000	2 FIP	Free Flow	250 gpm	348 gpm	CUBALL8	PF8	Stem-6x120	

SHUTOFF PRESSURE VARIES WITH BALL SIZE
OTHER BALL SIZES CAN BE USED DEPENDING ON INLET PRESSURES SEE MANFACTURERS CATALOG

WATTS REGULATOR



PF POLYPROPYLENE FLOATS

Non-electrolytic, highly corrosive resistant. Unaffected by salts & caustic fluids. All injection molded Polyethylene construction. Resistent to sunlight deterioration Max. Temp. 104ºF For open tank service only.

Order No.	Dia.	Fem. Spud. Conn	Adapter	Stem Used
PF5	4" x 5"	1/4-20 SAE	as needed	Stem-4x100
PF6	6"	1/4-20 SAE	as needed	Stem-4x100
PF8	8"	3/8	as needed	Stem-6x120

COPPER FLOATS

Copper Float Balls consist of two float halves soldered together using an inside lapping joint & leadfree solder. For open tank service only. Max. Temp. 200ºF

Order No.	DIA.	Fem. Spud. Conn	Adapter	Stem Used
CUBALL-4	4"	1/4-20 SAE	as needed	Stem-4x100
CUBALL-5	5"	1/4-20 SAE	as needed	Stem-4x100
CUBALL-6	6"	1/4-20 SAE	as needed	Stem-4x100
CUBALL-7*	7"	3/8-16 SAE	as needed	Stem-6x120
CUBALL-8*	8"	3/8-16 SAE	as needed	Stem-6x120
R440W/TH-8 *	8"	7/16 THRU HOLE	as needed	3/8 brass rod

ITEMS WITH (*) COME FROM ROBERT MANUFACTURING ONLY.

STEMS

Stems can be used on Copper or Polypropylene balls

Order No.	Dia.	Length
STEM-4X100	1/4"	10"
STEM-6X120	3/8"	12"
R455-12 *	3/8"	12"

ITEMS WITH (*) COME FROM ROBERT MANUFACTURING ONLY.

ACCESSORIES & ADAPTERS

Order No.	Model No.	Size
AD2	AD2	3/8 MIP X 3/8-16FSAE ADAPTER
AD11	AD11	1/4-20MSAE X 3/8-16FSAE ADAPTER
AD14	AD14	3/8-16MSAE X 1/4-20FASE ADAPTER

REFER TO ROBERT MANUFACTURING ACCESSORIES TO ADAPT TO ROBERT VALVES

5

B6000 SERIES BALL VALVES

2 PIECE BRONZE, STANDARD PORT FOR RESIDENTIAL, COMMERCIAL AND INDUSTRIAL USE

B-6000 Threaded Conn.

Rated 600 psi WOG and 150 psi steam. 2 1/2" - 4" 400 psi WOG and 150 psi steam. Soldered version designed to be soft soldered without disassembly, using a low temperature solder (420°F). Other solders, 95/5 tin antimony (460°F) or 96/4 tin silver (430°F) can be used, however, extreme caution must be used to prevent seat damage. Higher temperature solders will damage the seat material. ANSI B16.18 stated that the maximum operating pressure of 50/50 solder sweat connections is 200 psi at 100°F and decreases with higher temperatures.

Order No.	Model No.	Size	Ball Orifice	Order No.	Model No.	Size	Ball Orifice
THREADED ENDS				THREADED ENDS			
B6000-4	B-6000	1/4	3/8	B6000012	B-6000	1-1/4	1
B6000-6	B-6000	3/8	3/8	B6000015	B-6000	1-1/2	1-1/4
B6000-8	B-6000	1/2	1/2	B6000020	B-6000	2	1-1/2
B6000-12	B-6000	3/4	11/16	B6000025	B-6000	2-1/2	2
B6000010	B-6000	1	7/8	B6000030	B-6000	3	2-1/2

B-6001

Order No.	Model No.	Size	Ball Orifice	Order No.	Model No.	Size	Ball Orifice
SOLDER ENDS				SOLDER ENDS			
B6001-6	B-6001	3/8	3/8	B6001015	B-6001	1-1/2	1-1/4
B6001-8	B-6001	1/2	1/2	B6001020	B-6001	2	1-1/2
B6001-12	B-6001	3/4	11/16	B6001025	B-6001	2-1/2	2
B6001010	B-6001	1	7/8	B6001030	B-6001	3	2-1/2
B6001012	B-6001	1-1/4	1				

B6400SS-04 SERIES BALL VALVES

FOR COMMERCIAL AND INDUSTRIAL USE BRONZE BODY, THREADED ENDS, SPECIAL SEALS, 250 PSI STEAM RATING, 600 PSI W.O.G.

Suitable for temperatures to +406°F at 250 psi, includes actuator mounting capability

Order No.	Model No.	Size	Ball Orifice	CV	Operating Torque (in./lb.)
B6400SS-8	B6400-SS-04	1/2	1/2	15	60
B6400SS-12	B6400-SS-04	3/4	11/16	25	90
B6400SS010	B6400-SS-04	1	7/8	40	150
B6400SS012	B6400-SS-04	1-1/4	1	50	200
B6400SS015	B6400-SS-04	1-1/2	1-1/4	75	250
B6400SS020	B6400-SS-04	2	1-1/2	110	320
Special Order	B6400-SS-04	2 1/2"	2"	260	500
Special Order	B6400-SS-04	3"	2 1/2"	400	600
Special Order	B6400-SS-04	4"	3"	450	800

ACCESSORIES FOR B6400SS-04 SERIES BALL VALVES

Order No.	Description	Size
2LLHK	Handle Latch-Lock Lever	1/4,3/8,1/2
4LLHK	Handle Latch-Lock Lever	3/4
6LLHK	Handle Latch-Lock Lever	1
7LLHK	Handle Latch-Lock Lever	1-1/4,1-1/2
9LLHK	Handle Latch-Lock Lever	2

FBV3/FBVS3 SERIES BALL VALVES FULLPORT, IMPORT

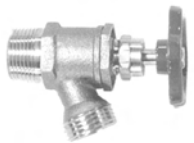
Two piece full port brass ball valves. Approved MSS-SP-110, AGA, CGA, CSA, UL, FM. Sizes 1/4" - 2" rated 600 psi W.O.G. & 150 psi W.S.P. Sizes 2-1/2" & 3" rated 400 psi W.O.G. & 125 psi W.S.P.

Order No.	Model No.	Size
THREADED ENDS		
FBV3-4	FBV-3	1/4
FBV3-6	FBV-3	3/8
FBV3-8	FBV-3	1/2
FBV3-12	FBV-3	3/4
FBV3010	FBV-3	1

Order No.	Model No.	Size
THREADED ENDS		
FBV3012	FBV-3	1-1/4
FBV3015	FBV-3	1-1/2
FBV3020	FBV-3	2
FBV3025	FBV-3	2-1/2
FBV3030	FBV-3	3

Order No.	Model No.	Size
SWEAT ENDS		
FBVS3-8	FBVS-3	1/2
FBVS3-12	FBVS-3	3/4
FBVS3010	FBVS-3	1
FBVS3012	FBVS-3	1-1/4

Order No.	Model No.	Size
SWEAT ENDS		
FBVS3015	FBVS-3	1-1/2
FBVS3020	FBVS-3	2
FBVS3025	FBVS-3	2-1/2
FBVS3030	FBVS-3	3



BOILER DRAIN

Angle pattern, max press 200 psi, max temp 180ºF, dual solder MIP connection. 3/4" outlet hose connection.

Order No.	Model No.	Size
BOILDRN-8	BD1C	1/2
BOILDRN-12	BD2C	3/4

GBV SERIES BALL VALVES

BRONZE BODY, FOR COMBUSTIBLE GAS SERVICE

Tee handle, female connection. Rated 32°F to 125°F. CSA (AGA or CGA) Approved for 1/2, 2 and 5 psi. UL Listed at 5 psi.

Order No.	Size	Pressure
THREADED ENDS		
GBV-8	1/2	1/2 psi
GBV-12	3/4	1/2 psi
GBV010	1	1/2 psi

WAFER CHECK VALVES, 125 PSI

CAST IRON BODY, SPRING LOADED 316SS DISC AND SPRING, BUNA N BODY SEAL

			Machine Bolts	
Order No.	Model No.	Size	No. Needed	Size
WICV125040	625503	4"	8	5/8" X 5-1/2"
WICV125060	625505	6"	8	3/4" X 6-1/2"
WICV125080	625506	8"	8	3/4" X 8-1/2"

009 SERIES REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER

FOR HOT OR COLD WATER

For high hazard cross connections subject to continuous pressure. Designed to prevent backsiphonage of contaminated water into a potable water supply. Stocked in 1/2" through 2" with ¼-turn ball valves standard. 009 Series is available through 3", with other series available through 10".

SPECIFICATIONS
Max. pressure: 175 lbs.

Order No.	Model No.	Size
009QT-8	009QT	1/2
919QT-8	919QT	3/4
919QT010	919QT	1
919QT012	919QT	1-1/4
919QT015	919QT	1-1/2
919QT020	919QT	2

909/919 SERIES AIR GAPS

FOR HOT OR COLD WATER

For installation on 009 series backflow preventors. Provides positive air gap on drain line.

Order No.	Model No.	Size
909AGA	909-AG-A	1/2 009, 3/4 009M2/M3
919AGC	909-AG-C	3/4 009, 1 009/M2, 1-1/4 & 1-1/2 009M2
919AGF	909-AG-F	1-1/4 & 1-1/2 009M1, 2 009M1/M2

5

9BD BACKFLOW PREVENTER

PROTECTS VENDING MACHINE WATER SUPPLY LINES

Provides protection against backflow of carbon dioxide gas and carbonated water into the water supply system to vending machines, thus eliminating the hazardous reaction of carbon dioxide with copper tubing. Stainless steel body. All rubber parts comply with FDA food additive regulations.

Order No.	Size
9BD	3/8"MPT

9D SERIES BACKFLOW PREVENTERS

CONTINUOUS PRESSURE TYPE 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.

Brass body with stainless steel working parts, integral strainer and durable rubber discs. Max press 175 psi, Max backflow temp 250°F. Female union inlet/outlet connections

Order No.	Model No.	Size
9D-8	9D	1/2
9D-12	9D	3/4

288A SERIES ANTI-SIPHON VACUUM BREAKERS
FOR HOT OR COLD WATER

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. Series 288A vacuum breakers are designed to prevent back-siphonage of contaminated water into a potable water supply.

Order No.	Model No.	Size
PLAIN BRASS FINISH		
288A-6	288A	3/8
288A-8	288A	1/2
288A-12	288A	3/4
288A010	288A	1
288A015	288A	1-1/2
288A020	288A	2

SERIES 15 SCREWED COPPER WATER HAMMER ARRESTOR

Controls water pressure shock for commercial and industrial applications

Features:

150# operating pressure, EPDM seals and o-rings, brass piston and cap, install at any angle, pre-charged air chamber.

Order No.	Model No.	Size
WHA-12	15	3/4
WHA010	15	1
WHA012	15	1 1/4
WHA015	15	1-1/2
WHA020	15	2

SERIES 150A WATER SHOCK ARRESTOR

An economical solution for residential applications to end annoying water hammer noises and damaging water shock caused by quick closing fixtures, such as washing machine and dishwasher valves.

Precharged air chamber and sealed-in diaphragm to absorb shock. Available with 3/4" hose type connections for in-line use with home appliances. For use in new or existing plumbing systems; install at any angle.

Order No.	Model No.	Size	Pressure	Temp.
150A	150A	1/2	125	200°F

5

N9 SERIES CONTINUOUS PRESSURE BACKFLOW PREVENTERS
WITH ATMOSPHERIC VENT

Backflow Preventer with Atmospheric Vent for exposed servicable installations. For in-line continuous pressure applications. Double check design providing dependable protection against both back-siphonage and backflow. All brass construction.

Order No.	Model No.	Size	Construction	Max. Pressure	Connections
N9-6	N9	3/8	Brass	125 psi	Female threaded

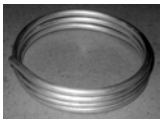
TUBING

POLY TUBING

Order No.	Model No.	Descpription
NATURAL POLY TUBING		
PT100-4	MA-PT14	1/4" O.D. X 100'

Order No.	Model No.	Descpription
NATURAL POLY TUBING		
PT100-6	MA-PT38	3/8" O.D. X 100'

ALUMINUM TUBING



Order No.	Model No.	Descpription
ALUMINUM TUBING, .035" WALL		
AT5-2	MA-AT18-5	1/8" O.D. X 5'
AT5-4	MA-AT14-5	1/4" O.D. X 5'
AT5-6	MA-AT38-5	3/8" O.D. X 5'

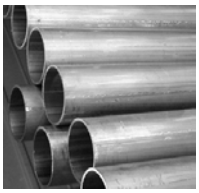
Order No.	Model No.	Descpription
ALUMINUM TUBING, .035" WALL		
AT50-4	MA-AT14	1/4" O.D. X 50'
AT50-6	MA-AT38	3/8" O.D. X 50'

REFRIGERATION SERVICE TUBING

STREAMLINE® SEALED COPPER TUBE, 50' LENGTH

Dehydrated and nitrogen purged, dried thoroughly and packaged in individual cartons. Manufactured in accordance with ASTM B 280 and ANSI B9.1.

			Safe Working Internal Press (PSI)			
Order No.	OD	Wall Thickness	150°F	250°F	350°F	400°F
REFTU-2	1/8"	.030"	2613	2459	2049	1537
REFTU-3	3/16"	.030"	1645	1548	1290	968
REFTU-4	1/4"	.030"	1195	1125	938	703
REFTU-5	5/16"	.032"	1017	957	798	598
REFTU-6	3/8"	.032"	836	787	656	492
REFTU-8	1/2"	.032"	618	581	485	363
REFTU-10	5/8"	.035"	525	494	412	309
REFTU-12	3/4"	.035"	435	409	341	256
REFTU-14	7/8"	.045"	495	466	388	291



COPPER TUBING, TYPE K

20' lengths.

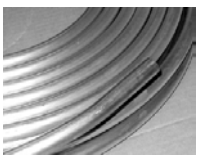
Order No.	NOM	OD	Wall Thickness	Lbs/Ft
KHARD-12	3/4"	7/8"	.065"	.641
KHARD010	1"	1-1/8"	.065"	.839

Order No.	NOM	OD	Wall Thickness	Lbs/Ft
KHARD012	1-1/4"	1-3/8"	.065"	1.04
KHARD015	1-1/2"	1/5/8"	.072"	1.36
KHARD020	2"	2-1/8"	.083"	2.06

COPPER TUBING, TYPE L

20' LENGTHS FOR HARD TUBING, 60' LENGTH FOR SOFT COILS

				Safe Working Internal Press (PSI)			
Order No.	Nominal Size	OD	Wall Thickness	150°F	200°F	300°F	400°F
HARD-20' LENGTHS							
LHARD-4	1/4"	.030	.126	810	720	705	450
LHARD-6	3/8"	.035	.198	675	635	625	395
LHARD-8	1/2"	.040	.285	625	590	580	365
LHARD-12	3/4"	.045	.455	495	470	455	290
LHARD010	1"	.050	.655	440	410	405	260
LHARD012	1-1/4"	.055	.884	385	365	355	230
LHARD015	1-1/2"	.060	1.140	355	340	330	210
LHARD020	2"	.070	1.750	315	300	290	185
LHARD025	2-1/2"	.080	2.480	295	275	265	175
LHARD030	3"	.090	3.330	275	260	255	160
LHARD040	4"	.110	5.380	255	240	235	150



				Safe Working Internal Press (PSI)			
Order No.	Nominal Size	OD	Wall Thickness	150°F	200°F	300°F	400°F
60' COILS-SOFT							
LSOFT-4	1/4"	.030	.126	810	720	705	450
LSOFT-6	3/8"	.035	.198	675	635	625	395
LSOFT-8	1/2"	.040	.285	625	590	580	365

COPPER ACR TUBING

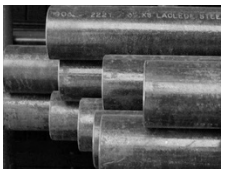
Dehydrated, cleaned and capped (both ends). Hard temper, straight lengths. Coded Blue. 20' lengths.

Order No.	OD	Wall	Lbs/Ft
ACR-6	3/8"	.030	0.126
ACR-8	1/2"	.035	0.198
ACR-10	5/8"	.040	0.285
ACR-14	7/8"	.045	0.455

Order No.	OD	Wall	Lbs/Ft
ACR-1-1/8	1-1/8"	.050	0.655
ACR-1-3/8	1-3/8"	.055	0.884
ACR-1-5/8	1-5/8"	.060	1.14

STEEL PIPE

ASTM A53



Order No.	Size	Length
SCHEDULE 40, PLAIN END–BLACK		
BPIPEPE-4	1/4"	21'
BPIPEPE-6	3/8"	21'
BPIPEPE-8	1/2"	21'
BPIPEPE-12	3/4"	21'
BPIPEPE010	1"	21'
BPIPEPE012	1-1/4"	21'
BPIPEPE015	1-1/2"	21'
BPIPEPE020	2"	21'

Order No.	Size	Length
SCHEDULE 40, PLAIN END–BLACK		
BPIPEPE025	2-1/2"	21'
BPIPEPE030	3"	21'
BPIPEPE035	3-1/2"	21'
BPIPEPE040	4"	21'
BPIPEPE050	5"	Single Random
BPIPEPE060	6"	Single Random
BPIPEPE080	8"	Single Random
BPIPEPE100	10"	Single Random

Order No.	Size	Length
SCHEDULE 40, THREAD & COUPLED–BLACK		
BPIPETC-2	1/8"	21'
BPIPETC-4	1/4"	21'
BPIPETC-6	3/8"	21'
BPIPETC-8	1/2"	21'
BPIPETC-12	3/4"	21'
BPIPETC010	1"	21'
BPIPETC012	1-1/4"	21'

Order No.	Size	Length
SCHEDULE 40, THREAD & COUPLED–BLACK		
BPIPETC015	1-1/2"	21'
BPIPETC020	2"	21'
BPIPETC025	2-1/2"	21'
BPIPETC030	3"	21'
BPIPETC035	3-1/2"	21'
BPIPETC040	4"	21'

Order No.	Size	Length
SCHEDULE 40, THREAD & COUPLED–GALVANIZED		
GPIPETC-2	1/8"	21'
GPIPETC-4	1/4"	21'
GPIPETC-6	3/8"	21'
GPIPETC-8	1/2"	21'
GPIPETC-12	3'4"	21'
GPIPETC010	1"	21'
GPIPETC012	1-1/4"	21'

Order No.	Size	Length
SCHEDULE 40, THREAD & COUPLED–GALVANIZED		
GPIPETC015	1-1/2"	21'
GPIPETC020	2"	21'
GPIPETC025	2-1/2"	21'
GPIPETC030	3"	21'
GPIPETC035	3-1/2"	21'
GPIPETC040	4"	21'

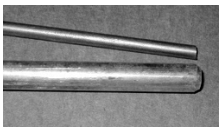
Order No.	Size	Length
SCHEDULE 80, PLAIN END–BLACK (extra heavy)		
XBPIPEPE-8	1/2"	21'
XBPIPEPE-12	3/4"	21'
XBPIPEPE010	1"	21'
XBPIPEPE012	1-1/4"	21'
XBPIPEPE015	1-1/2"	21'

Order No.	Size	Length
SCHEDULE 80, PLAIN END–BLACK (extra heavy)		
XBPIPEPE020	2"	21'
XBPIPEPE025	2-1/2"	21'
XBPIPEPE030	3"	21'
XBPIPEPE040	4"	21'

Order No.	Size	Length
SCHEDULE 80, THREAD & COUPLED–BLACK (extra heavy)		
XBPIPETC-4	1/4"	21'
XBPIPETC-6	3/8"	21'
XBPIPETC-8	1/2"	21'
XBPIPETC-12	3/4"	21'

Order No.	Size	Length
SCHEDULE 80, THREAD & COUPLED–BLACK (extra heavy)		
XBPIPETC010	1"	21'
XBPIPETC012	1-1/4"	21'
XBPIPETC015	1-1/2"	21'
XBPIPETC020	2"	21'

ROD



For use with various float valve or probe type liquid level controls. Rod comes in 10' lengths but can be cut to required length

Order No.	Model No.	Size	Material
BRSROD-3	GR 360	3/16"	Brass
BRSROD-4	GR 360	1/4"	Brass

Order No.	Model No.	Size	Material
303SS-4	303SS	1/4"	Stainless Steel

PVC PIPE

SCHEDULE 40, 80 AND CPVC IN 20' LENGTHS

Order No.	Nominal Size	Avg. OD	Avg. ID	Avg. Wall Thickness	Wt./100'	Maximum Operating Pressure* Socket End PSI @ 73F	Threaded End PSI @ 75F
SCHEDULE 40 PVC WHITE, BELLED END							
SCH40BE-8	1/2"	0.840	0.622	0.109	16.2	600 psi	-
SCH40BE-12	3/4"	1.050	0.824	0.113	21.9	480 psi	-
SCH40BE010	1"	1.315	1.049	0.133	32	450 psi	-
SCH40BE012	1-1/4"	1.660	1.380	0.140	43.1	370 psi	-
SCH40BE015	1-1/2"	1.900	1.610	0.145	51.9	330 psi	-
SCH40BE020	2"	2.375	2.067	0.154	69.3	280 psi	-
SCH40BE025	2-1/2"	2.875	2.469	0.203	113.3	300 psi	-
SCH40BE030	3"	3.500	3.068	0.216	145.5	260 psi	-
SCH40BE040	4"	4.500	4.026	0.237	205	220 psi	-
SCH40BE050	5"	5.563	5.047	0.258	278	190 psi	-
SCH40BE060	6"	6.625	6.065	0.280	316.5	180 psi	-

***See Tech Tip #44, Page 359 for pressure limits of elevated temperatures.**

Order No.	Nominal Size	Avg. OD	Avg. ID	Avg. Wall Thickness	Wt./100'	Maximum Operating Pressure* Socket End PSI @ 73F	Threaded End PSI @ 75F
SCHEDULE 80 PVC GRAY, PLAIN END							
SCH80PE-4	1/4"	0.540	0.302	0.119	10.1	1130 psi	-
SCH80PE-6	3/8"	0.675	0.423	0.126	13.9	920 psi	-
SCH80PE-8	1/2"	0.840	0.546	0.147	19	850 psi	420 psi
SCH80PE-12	3/4"	1.050	0.742	0.154	26	690 psi	340 psi
SCH80PE010	1"	1.315	0.957	0.179	38	630 psi	320 psi
SCH80PE012	1-1/4"	1.660	1.278	0.191	53	520 psi	260 psi
SCH80PE015	1-1/2"	1.900	1.500	0.200	64	470 psi	240 psi
SCH80PE020	2"	2.375	1.939	0.218	89	400 psi	200 psi
SCH80PE025	2-1/2"	2.875	2.323	0.276		420 psi	210 psi
SCH80PE030	3"	3.500	2.900	0.300	182	370 psi	190 psi
SCH80PE040	4"	4.500	3.826	0.337	267	320 psi	NR
SCH80PE060	6"	6.625	5.761	0.432	509	290 psi	

***See Tech Tip #44, Page 359 for pressure limits of elevated temperatures.**

Order No.	Nominal Size	Avg. OD	Avg. ID	Avg. Wall Thickness	Wt./100'	Maximum Operating Pressure* Socket End PSI @ 73F	Threaded End PSI @ 75F
SCHEDULE 80 CPVC GRAY, PLAIN END							
SCH80CPVC-8	1/2"	0.840	0.546	0.147	21	850 psi	420 psi
SCH80CPVC-12	3/4"	1.050	0.742	0.154	29	690 psi	340 psi
SCH80CPVC010	1"	1.315	0.957	0.179	42	630 psi	320 psi
SCH80CPVC012	1-1/4"	1.660	1.278	0.191	59	520 psi	260 psi
SCH80CPVC015	1-1/2"	1.900	1.500	0.200	71	470 psi	240 psi
SCH80CPVC020	2"	2.375	1.939	0.218	99	400 psi	200 psi
SCH80CPVC030	3"	3.500	2.900	0.300	202	370 psi	190 psi

*See Tech Tip #44, Page 359 for pressure limits of elevated temperatures.