

SERIES 100 IRON VALVES

SUPREME DURABILITY AND SUPERIOR HYDRAULIC PERFORMANCE



MANUAL IRON THREADED VALVE



PRESSURE REDUCING ELECTRIC IRON FLANGED VALVE





BASIC IRON GROOVED VALVE



PRODUCT ADVANTAGES

- Unique design allows a straight flow pattern with lowest friction loss in the industry.
- Superb hydraulic performance with low operating pressure.
- Direct sealing diaphragm for positive opening and closing.
- Simple inline installation with minimal parts provides low maintenance requirements.
- Protective polyester coating for resistance to corrosive elements and UV protection.

APPLICATIONS

NOW AVAILABLE Valve Tubing Sleeve for Series 75, 90, & 100

- High pressure applications
- Drip and sprinkler irrigation systems
- Center pivot control
- Permanent systems

SPECIFICATIONS

- Optional Functions: Manual, Electric, Pressure Reducing, Pressure Sustaining, Hydraulic Remote Control, Quick Relief, Flow Control, Surge Anticipating, Float Control and more
- Maximum Water Temperature: 176° F
- Connections: Threaded ANSI NPT Female Grooved ANSI/AWWA C-606 Flanged ANSI CL-125

MATERIALS

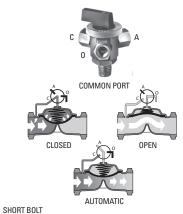
- Body and Bonnet: Cast Iron (ASTM A 125 CLB)
- Spring: Stainless Steel (AISI 302)
- Nuts, Bolts, Washers: Stainless Steel (BS 5216)
- Diaphragm: Natural Rubber

AVAILABLE MODELS & SIZES																
MATERIAL/CONNECTION	1"	1 ½″	2"	2" AN	323	323 AN	3"	3" AN	4"	4" AN	6"	6" AN	868	8"	10"	12"
IRON FLANGED	-]	-	-	-	-	-	Х	-	Х	Χ	Х	Χ	Χ	Χ	Х	Х
IRON THREADED	Х	Χ	Χ	Χ	Х	-	Χ	Χ	-	-	-	-	-	-	-	-
IRON GROOVED	-	-	Χ		X	-	Х	Χ	X	-	Х	-	-		-	-

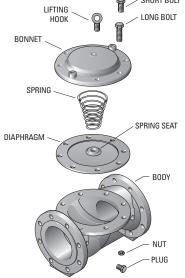
IRON VALVES

MANUAL VALVE OPERATION WITH A 3-WAY SELECTOR

- CLOSED (C): Upstream pressure or pressure from an external source is applied to the control chamber. Initiated by the spring, the diaphragm is pressed down to close the valve drip-tight.
- OPEN (0): Relieving the water or air pressure to the atmosphere from the control chamber causes the valve to open.
- AUTOMATIC (A): The automatic port of the 3-Way selector is connected to a solenoid, hydraulic relay or pilot which controls the valve. The common port of the 3-Way selector connects the control chamber to either A, O or C, depending on the direction the selector is pointed.



		FLOW RATE VS. PRESSURE LOSS					
		3" ANGLE — 323 — 4" — 6" — 10" — 12' — 11'— 1 1/2"— 2" — 3" — 4" ANGLE — 868 — 8" — 12'					
	8						
	7						
_	6						
HEADLOSS (PSI)	5						
SS	4						
DIC	3						
Ę							
_	2						
	2						
	1						
		2 3 4 5 6 7 8 9 100 2 3 4 5 6 7 8 9 1,000 2 3 4 5 6					
	FLOW (GPM)						



		_
22	DC	- 1

SIZE/CONNECTION	LENGTH	HEIGHT	WEIGHT *		
1" THREADED	4 3/4"	2"	2.2 LBS.		
1 1/2" THREADED	6 11/16"	3 11/16"	4.9 LBS.		
2" THREADED	7 7/16"	7 7/16" 4 9/16"			
323 THREADED	8 7/8"	5"	9.9 LBS.		
3" THREADED	8 7/8"	5"	24.0 LBS.		
2" GROOVED	7 1/2"	4"	5.7 LBS.		
323 GROOVED	7 15/16	4 3/4"	6.6 LBS.		
3" GROOVED	11 1/4" 4 7/8"		24.3 LBS.		
4" GROOVED	12 1/2"	5 1/4"	26.4 LBS.		
6" GROOVED	15 7/16"	9 7/8"	68.3 LBS.		
3" FLANGED	11 1/4" 7 3/4"		37.5 LBS.		
4" FLANGED	12"	9 1/16"	48.5 LBS.		
6" FLANGED	15 3/8"	12 3/8"	101 LBS.		
868 FLANGED	15 3/16"	13 3/4"	110 LBS.		
8" FLANGED	18 1/8"	15 3/4"	176 LBS.		
10" FLANGED	21 1/16"	17 1/2"	258 LBS.		
12" FLANGED	22 7/8"	19 1/2"	344 LBS.		

IRON VALVES DIMENSIONS & WEIGHT

IRON FLANGED VALVE SHOWN

HYDRAULIC SPECIFICATIONS							
SIZE	MAX. RECOMMENDED FLOW RATE (GPM)	FLOW FACTOR (Cv)	OPERATING PRESSURE RANGE (psi) *				
1"	44	20	17 - 230				
1 1/2"	110	75	17 - 230				
2"	176	110	21 - 230				
323	176	110	21 - 230				
3"	396	200	17 - 230				
4"	440	260	17 - 230				
6"	1,540	700	21 - 230				
868	1,540	780	21 - 230				
8"	2,112	930	10 - 230				
10"	4,268	1,460	10 - 230				
12"	6,160	2,220	10 - 230				

^{*} WEIGHT FOR BASIC VALVE * HIGH PRESSURE DIAPHRAGM - LOW PRESSURE DIAPHRAGMS AVAILABLE FOR ALL SIZES MINIMUM FLOW RATE FOR ALL SIZES; <1



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