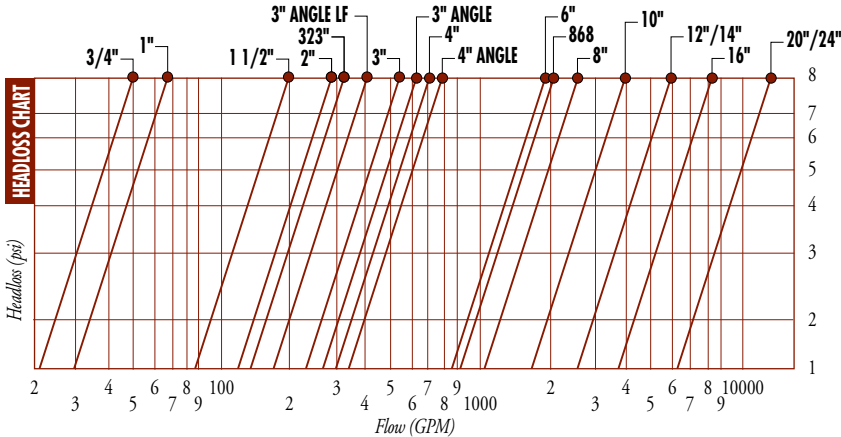




Iron Valves

for Gold Mines

Structural Simplicity and Superior Hydraulic Performance for Gold Mines



Product Advantages

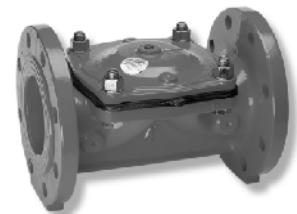
- **Iron** - protective polyester coating is resistant to corrosive elements.
- Unique design allows a straight flow pattern with low friction loss.
- Constructed with minimal parts.
- Equipped with direct sealing diaphragm.
- Hydraulically controlled.



Threaded Valve



Grooved Valve



Flanged Valve

Applications

- Excellent for high pressure applications.
- For leach line and sprinkler irrigation systems.
- For water or solution delivery systems.
- **Functions:** Pressure Reducing, Pressure Sustaining, Pressure Relief, Pressure Relief Quick Reacting, Pressure Relief and Surge Anticipating.
- Reclamation projects.

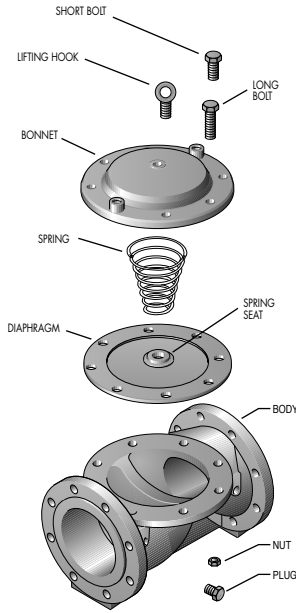
Materials

Nuts, bolts and washers: Stainless steel/BS 5216
Body: Cast iron/ASTM A 125 Cl.B
Bonnet: Same
Spring: Stainless steel AISI 302
Seat: 2"-6", 30% GRP, 8"-24", Brass
Diaphragm Materials: Standard - Natural Rubber (Nylon Reinforced Polyisoprene)
 Special - EPDM (Ethylene Propylene Ploymen)
 Special - Nitril (Butadiene Acrylonitrile)



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Iron Valves Specifications



AVAILABLE MODELS

CONNECTION	Threaded	Flanged	Grooved	Angle Flanged	Angle Threaded
	Cast Iron	Cast & Ductile	Cast Iron	Cast Iron	Cast Iron
AVAILABLE SIZES	3/4"				
	1"				
	1 1/2"	•		•	
	2"	•	•	•	
	2 1/2"	•			
	323	•		•	•
	3"	•	•	•	•
	4"		•	•	•
	6"		•	•	•
	868		•		
	8"		•		
	10"		•		
	12"		•		
	14"		•		
	16"		•		
	20"		•		
24"		•			

VALVE DATA	Threaded						Grooved			Flanged							
	3/4"	1"	1 1/2"	2"	323	3"	3"	4"	6"	3"	4"	6"	868	8"	10"	12"	16"
Length (in.)	4 1/2	4 3/8	5 7/8	7 1/4	8 3/8	12 3/8	11 1/4	12 1/2	15 1/2	11 1/4	11 7/8	15 3/8	15 3/4	18 1/8	21	22 3/4	29 1/2
Height (in.)	2 3/8	2 3/8	3 3/8	4 1/2	4 3/4	5	4 3/4	5 1/2	9 7/8	7 5/8	9 1/8	12 1/4	14	15 1/2	18	19 3/4	32 1/8
Weight (lbs.)	2.1	2.2	4	7	10	24.6	24	27.5	68	38	48	100	110	176	257	344	892

Connections: Flanged - ANSI CL-125 (16" - 24" Class 150)
 Threaded - ANSI (NPT) Female
 Grooved - ANSI/AWWA C-606

NOTE: The pressure rating of the valve depends on the strength of the body, connection standard and diaphragm type. The "component" with the lowest pressure rating determines the maximum operating pressure of the valve.

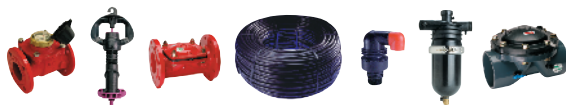
HYDRAULIC SPECIFICATIONS

	1"	1 1/2"	2"	323	3"	4"	6"	868	8"	10"	12"	14"	16"	20"	24"
Maximum Recommended Flow Rate Continuous Valve (18 feet per second)	44	110	180	260	400	700	1,500	1,500	2,100	4,270	6,160	6,160	11,000	12,720	24,210
Nominal Recommended Flow Rate Continuous Valve (8 feet per second)	22	50	80	120	176	330	700	700	960	1,940	2,795	2,795	5,000	7,790	11,180
Maximum Recommended Flow Rate Relief Valve (49 feet per second)	118	300	485	485	1,080	1,915	4,200	4,200	5,770	11,645	16,820	16,820	29,940	46,670	66,925
Minimum Flow	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Flow Factor (Cv)	20	75	110	117	200	260	700	780	930	1,460	2,220	2,220	3,030	5,370	5,370
Operating Pressure Range High Pressure Diaphragm (psi)	17-250	17-250	20-250	20-250	10-250	10-250	10-250	10-250	10-250	10-250	10-250	10-250		10-250	10-250
Operating Pressure Range Low Pressure Diaphragm (psi)	7-145	7-145	10-145	10-145	6-145	6-145	7-145	7-145	3-145	3-145	3-145	3-145	3-145	3-145	3-145

Calculation of Head Loss in a fully open valve: $H \text{ (psi)} = \left(\frac{Q \text{ (GPM)}}{C_v} \right)^2$

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