Magnatrol VALVE CORP.

STAINLESS STEEL SOLENOID VALVES

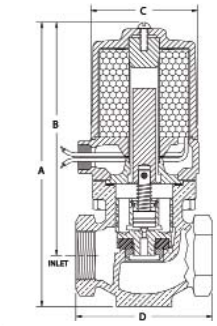
Dependable • Packless

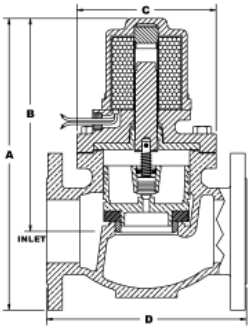
TYPE "K" FULL PORT - NORMALLY CLOSED
1/2" TO 3" PIPE SIZE

NO DIFFERENTIAL PRESSURE REQUIRED TO OPEN

MAX. FLUID TEMP.
400° F
MAX. STATIC PRESSURE
300 PSI
Except valves listed for 500 PSI

OPERATION:
Valve opens when energized and closes when de-energized. When the coil is energized the pilot valve opens, relieving the pressure above the piston, which is then lifted from its seat by the plunger. Upon de-energizing the coil, a spring closes the pilot valve and opens a bleed passageway to permit pressure to build above the piston and seat it.





CONSTRUCTION:
(*Wetted parts - No Copper Bearing Alloys in contact with fluid)

*Valve Body - 304 Stainless Steel Globe Pattern - NPT ends
(For Flanged Ends see Options page 26)
*Piston - 303 Stainless Steel
Coil Enclosure - Malleable or Cast Iron,1/2 " NPS conduit conn.
*Plunger - 430 Stainless Steel
*Pilot Valve - 303 Stainless Steel
*Bonnet Tube - 304 Stainless Steel
*Spring - Inconel
*Body Seal - Non Asbestos Gasket
*Orifice Seal - Glass Filled Teflon
*AC Shading Coil - Silver
*Stem Pin - Inconel
Coil - Encapsulated Class H, 18" leads

FOR STEAM APPLICATIONS SEE BULLETIN 3006-W Page 24

APPLICATION:
To control the flow of Corrosive Fluids, Deionized Water, Condensate, Ammonias, Vegetable Oils, Fuel Oils, Cryogenics, Flammable Liquids.** Cryogenic fluids include liquid oxygen (-297°F), liquid argon (-303°F) and liquid nitrogen (-320°F). Valve operates from zero to maximum differential pressure indicated in table. Valve must be mounted in horizontal pipe with solenoid enclosure vertical and on top.

FOR OPTIONS & ACCESSORIES SEE PAGES 26 & 27

Pipe Size Inches	Max. Diff. PSI	Type No.	Watts AC	Amps Hold 120-60	Amps Inrush 120-60	Watts DC	Ship Wt. Lbs.	Dimensions In Inches					
								A	B	C	D NPT	D (Flanged) 150#	D (Flanged) 300#
1/2	110 200	14K42 14K32	25	0.4	1.2	18	7	7	5-7/8	2-7/8	3-1/4	6	6-1/2
	300 500	29K52 E29K62	45	0.8	2.4	23	10 15	8	6-7/8	3-1/2 4			
3/4	110	14K43	25	0.4	1.3	18	8	7-1/8	6	2-7/8	3-1/2	6	6-1/2
	200	29K33	45	0.8	2.6	23	11	8-1/8	7	3-1/2			
	300 500	129K53 E129K63	65	1.2	3.9	33	16			4			
1	110	16K44	25	0.4	1.5	18	10	8	6-5/8	3-1/4	4-1/8	6-1/2	7-1/2
	200	31K34	45	0.8	2.8	23	13	8-7/8	7-1/2	3-1/2			
	300 500	131K54 E131K64	65	1.2	4.2	33	18			4			
1-1/2	115	35K46	45	0.8	3.2	23	17	10	8-1/8	4	4-7/8	6-1/2	7-1/2
	200	41K36	60	1.2	6.7	35	21	11	9-1/8	4-1/2			
	300 500	141K56 141K66	85	2.0	10.0	45							
2	100	36K47	45	0.8	3.5	23	27	11	8-3/4	5-3/8	6	8	9
	200 300	42K37 42K57	60	1.2	7.4	35	32	12	9-3/4				
	500	142K67	85	2.0	11.0	45							
3	100 200	44K49F1 44K39F1	60	1.2	8.8	35	68	13-3/4	10-1/2	6-5/8	N/A	9-1/2	N/A
	300	144K59F3	85	2.0	13.0	45	81					N/A	12-1/2

Shipping Weights above apply to Threaded Ends Only (except 3" which are Flanged Only)
For Flanged Ends contact factory for complete weight and dimensions
3" STAINLESS STEEL VALVES ARE SUPPLIED WITH FLANGED ENDS ONLY

**** CLEANING**
- Cryogenic valves are degreased & cleaned to keep them free of moisture.
- Oxygen valves are also "black light" tested.

Strainers are recommended for use with solenoid valves
(See page 19)

When you order please supply the following:
- Pipe Size
- Valve Type
- Voltage (AC or DC)
- Hertz
- Fluid
- Fluid Temperature
- Max. Diff. Pressure
- Optional Features

(See pages 26 & 27)

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