Magnatrol VALVE CORP.

BRONZE SOLENOID VALVES

Dependable • Packless

TYPE "L" 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

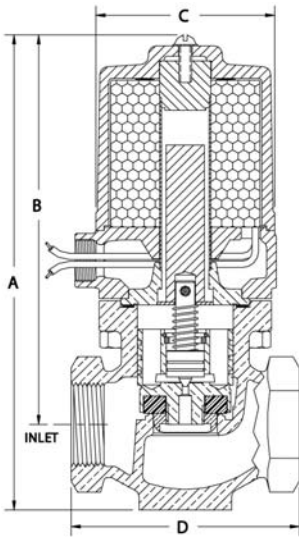
OPERATION:
Valve opens when energized and closes when de-energized. When the coil is energized the pilot valve opens, relieving the pressure above the piston, which is then lifted from its seat by the plunger. Upon de-energizing the coil, a spring closes the pilot valve and opens a bleed passageway to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

CONSTRUCTION: (* Wetted parts)
*Valve Body - Cast Bronze, Globe Pattern - NPT ends
*Piston - Bronze
Coil Enclosure - Malleable or Cast Iron, 1/2" NPT 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 - Copper
*Stem Pin - Inconel
Coil - Encapsulated Class H, 18" leads

FOR OPTIONS & ACCESSORIES SEE PAGES 24 & 25

FOR STEAM APPLICATIONS SEE BULLETIN 3006-S Page 12

APPLICATION:
To control the flow of Hot Liquids, Hot Gases, Cryogenics** and any other fluids not reactive with construction materials and free of sediment. 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.



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
1/2	110 200	14L42 14L32	25	0.4	1.2	18	8	7	5-7/8	2-7/8	3-1/4
	300	29L52	45	0.8	2.4	23	11	8	6-7/8	3-1/2	3-1/4
	500	E29L62	45	0.8	2.4	23	16	8	6-7/8	4	3-1/4
3/4	50 110	14L23 14L43	25	0.4	1.3	18	9	7-1/8	6	2-7/8	3-1/2
	200	29L33	45	0.8	2.6	23	12	8-1/8	7	3-1/2	3-1/2
	300	129L53	65	1.2	3.9	33					
	500	E129L63	65	1.2	3.9	33	17	8-1/8	7	4	3-1/2
1	50 110	16L24 16L44	25	0.4	1.5	18	11	8	6-5/8	3-1/4	4-1/8
	200	31L34	45	0.8	2.8	23	14	8-7/8	7-1/2	3-1/2	4-1/8
	300	131L54	65	1.2	4.2	33					
	500	E131L64	65	1.2	4.2	33	19	8-7/8	7-1/2	4	4-1/8
1-1/4	50 90	17L25 17L45	25	0.4	1.6	18	12	8-3/8	6-3/4	3-1/2	4-1/2
	200	32L35	45	0.8	3.0	23	16	9-3/8	7-3/4	3-5/8	4-1/2
	300	132L55	65	1.2	4.5	33					
	500	†† 140L65	85	2.0	9.2	N/A	20	10-3/8	8-3/4	4-1/2	4-1/2
1-1/2	50 115	35L26 35L46	45	0.8	3.2	23	20	10	8-1/8	4	4-7/8
	200	41L36	60	1.2	6.7	35	24	11	9-1/8	4-1/2	4-7/8
	300 500	141L56 141L66	85	2.0	10.0	45					
2	50 100	36L27 36L47	45	0.8	3.5	23	31	11	8-3/4	5-3/8	6
	200 300	42L37 42L57	60	1.2	7.4	35	36	12	9-3/4	5-3/8	6
	500	142L67	85	2.0	11.0	45					
2-1/2	50 125 200	43L28 43L48 43L38	60	1.2	8.0	35	43	12-7/8	10-1/8	5-7/8	7-1/4
	300	143L58	85	2.0	12.0	45					
3	50 100 200	44L29 44L49 44L39	60	1.2	8.8	35	56	13-3/4	10-1/2	6-5/8	8-3/8
	300	144L59	85	2.0	13.0	45					

†† Not available for DC operation

**** 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 24 & 25)

MAGNATROL VALVE CORPORATION
Magnatrol Valve Corporation • P.O. Box 17 • 67 Fifth Avenue • Hawthorne • New Jersey • 07507
info@magnatrol.com • Phone: 973-427-4341 • Fax: 973-427-7611 • www.magnatrol.com