

BRONZE SOLENOID VALVES

Dependable • Packless

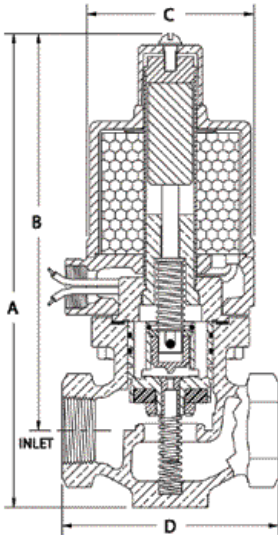


TYPE "LR" FULL PORT - NORMALLY OPEN 1/2" TO 3" PIPE SIZE

NO DIFFERENTIAL PRESSURE REQUIRED TO OPEN

OPERATION:

Valve closes when energized and opens when de-energized. When the coil is energized the plunger presses the poppet, closing the pilot orifice, and opens a bleed passageway to permit pressure to build above the piston and seal it. Upon de-energizing the coil, the pilot orifice is opened, relieving the pressure above the piston allowing it to leave its seat. The bottom spring allows the valve to operate at zero pressure drop.



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
- *Poppet - 303 Stainless Steel
- *Stem - 303 Stainless Steel
- *Bonnet Tube - 304 Stainless Steel
- *Springs - Inconel and 302 Stainless Steel
- *Body Seal - Non Asbestos Gasket
- *Orifice Seal - Glass Filled Teflon
- *AC Shading Coil - Copper
- *Stem Pin - 304 Stainless Steel
- Coil - Encapsulated Class H, 18" leads

**FOR OPTIONS & ACCESSORIES
SEE PAGES 26 & 27**

**FOR STEAM APPLICATIONS
SEE BULLETIN 3006-SR
Page 13**

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



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.

** 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)

Pipe Size Inches	Max Diff. PSI	Type No.	Watts AC	Amps Hold 120-60	Amps Inrush 120-60	Watts DC	Ship Wt. Lbs.	Dimension In Inches				
								A	B	C	D	D(Flanged) 150#
1/2	110	14LR42	25	0.5	1.5	18	18	8-1/8	7	2-7/8	3-1/4	4-3/4
	200	14LR32						9-1/8	8	3-1/2	3-1/4	N/A
	300	29LR52						9-1/8	8	4	3-1/4	
3/4	50	14LR23	25	0.5	1.6	18	9	8-1/4	7-1/8	2-7/8	3-1/2	5-1/2
	110	14LR43						9-1/4	8-1/8	3-1/2	3-1/2	N/A
	200	29LR33						9-1/4	8-1/8	4	3-1/2	
	300	129LR53						9-1/4	8-1/8	4	3-1/2	
	500	E129LR63						9-1/4	8-1/8	4	3-1/2	
1	50	16LR24	25	0.5	1.8	18	11	9-1/8	7-3/4	3-1/4	4-1/8	5
	110	16LR44						10	8-5/8	3-1/2	4-1/8	N/A
	200	31LR34						10	8-5/8	4	4-1/8	
	300	131LR54						10	8-5/8	4	4-1/8	
1-1/4	50	17LR25	25	0.5	1.9	18	13	9-3/4	8-1/8	3-1/2	4-1/2	7
	90	17LR45						10-3/4	9-1/8	3-5/8	4-1/2	N/A
	200	32LR35						10-3/4	9-1/8	3-5/8	4-1/2	
	300	132LR55						10-3/4	9-1/8	3-5/8	4-1/2	
	500	†† 140LR65						10-3/4	9-1/8	3-5/8	4-1/2	
1-1/2	50	35LR26	45	1.0	3.8	23	21	11-3/8	9-3/8	4	4-7/8	7-3/4
	115	35LR46						11-5/8	9-3/4	4-1/2	4-7/8	N/A
	200	41LR36						11-5/8	9-3/4	4-1/2	4-7/8	
2	50	36LR27	45	1.0	4.2	23	31	12-3/8	10-1/8	5-3/8	6	8
	100	36LR47						12-5/8	10-3/8	5-3/8	6	N/A
	200	42LR37						12-5/8	10-3/8	5-3/8	6	
	300	42LR57						12-5/8	10-3/8	5-3/8	6	
2-1/2	50	43LR28	60	1.7	8.0	35	45	13-1/2	10-3/4	5-7/8	7-1/4	11
	125	43LR48						13-1/2	10-3/4	5-7/8	7-1/4	N/A
	200	43LR38						13-1/2	10-3/4	5-7/8	7-1/4	
	300	143LR58						13-1/2	10-3/4	5-7/8	7-1/4	
3	50	44LR29	60	1.7	8.8	35	57	14-3/8	11-1/8	6-5/8	8-3/8	9-1/2
	100	44LR49						14-3/8	11-1/8	6-5/8	8-3/8	N/A
	200	44LR39						14-3/8	11-1/8	6-5/8	8-3/8	
300	144LR59	14-3/8	11-1/8	6-5/8	8-3/8							

†† Not available for DC operation

MAGNATROL VALVE CORPORATION