



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)

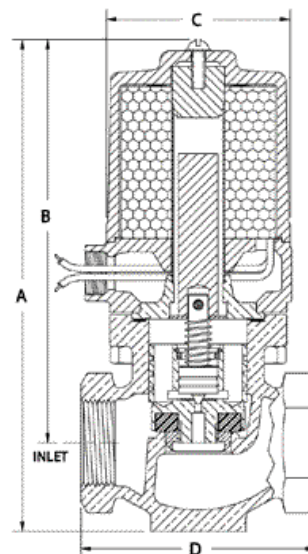
- *Valve Body - Cast Bronze, Globe Pattern - NPT ends
- *Piston - Bronze
- Coil Enclosure - Malleable or Cast Iron, 1/2" NPT conduit conn.
- *Plunger - 430 Stainless Steel
- *Pilot Valve - 303 Stainless Steel
- *Bonnet Tube - 304 Stainless Steel
- *Spring - Inconel
- *Body Seal - Non Asbestos Gasket
- *Orifice Seal - Glass Filled Teflon
- *AC Shading Coil - Copper
- *Stem Pin - Inconel
- Coil - Encapsulated Class H, 18" leads

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

**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.	Dimension In Inches				D(Flanged) 150#								
								A	B	C	D									
1/2	110	14L42	25	0.4	1.2	18	8	7	5-7/8	2-7/8	3-1/4	4-3/4								
	200	14L32										N/A								
	300	29L52										45	0.8	2.4	23	11	8	6-7/8	3-1/2	3-1/4
3/4	50	14L23	25	0.4	1.3	18	9	7-1/8	6	2-7/8	3-1/2	5-1/2								
	110	14L43										N/A								
	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	17	8-1/8	7	4	3-1/2
	500	E129L63										65	1.2	3.9	33	17	8-1/8	7	4	3-1/2
1	50	16L24	25	0.4	1.5	18	11	8	6-5/8	3-1/4	4-1/8	5								
	110	16L44										N/A								
	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	19	8-7/8	7-1/2	4	4-1/8
	500	E131L64										65	1.2	4.2	33	19	8-7/8	7-1/2	4	4-1/8
1-1/4	50	17L25	25	0.4	1.6	18	12	8-3/8	6-3/4	3-1/2	4-1/2	7								
	90	17L45										N/A								
	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	20	10-3/8	8-3/4	4-1/2	4-1/2
	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	35L26	45	0.8	3.2	23	20	10	8-1/8	4	4-7/8	7-3/4								
	115	35L46										N/A								
	200	41L36										60	1.2	6.7	35	24	11	9-1/8	4-1/2	4-7/8
	300	141L56										85	2.0	10.0	45	24	11	9-1/8	4-1/2	4-7/8
2	50	36L27	45	0.8	3.5	23	31	11	8-3/4	5-3/8	6	8								
	100	36L47										N/A								
	200	42L37										60	1.2	7.4	35	36	12	9-3/4	5-3/8	6
	300	42L57										85	2.0	11.0	45	36	12	9-3/4	5-3/8	6
	500	142L67										85	2.0	11.0	45	36	12	9-3/4	5-3/8	6
2-1/2	50	43L28	60	1.2	8.0	35	43	12-7/8	10-1/8	5-7/8	7-1/4	11								
	125	43L48										N/A								
	200	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	43	12-7/8	10-1/8	5-7/8	7-1/4
3	50	44L29	60	1.2	8.8	35	56	13-3/4	10-1/2	6-5/8	8-3/8	9-1/2								
	100	44L49										N/A								
	200	44L39										85	2.0	13.0	45	56	13-3/4	10-1/2	6-5/8	8-3/8
	300	144L59										85	2.0	13.0	45	56	13-3/4	10-1/2	6-5/8	8-3/8

†† 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 26 & 27)