BRONZE Solenoid Valves

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 (Flanged Ends available)
- Piston* Bronze
- Coil Enclosure Malleable or Cast Iron. 1/2" NPS 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 (Teflon® available)

- Orifice Seal* Glass Filled Teflon®
- AC Shading Coil* Copper
- Stem Pin* 304 Stainless Steel
- Coil Encapsulated Class H, 18" leads

FOR STEAM APPLICATIONS SEE BULLETIN 3020-SR Page 13

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 and cleaned to keep them free of moisture.

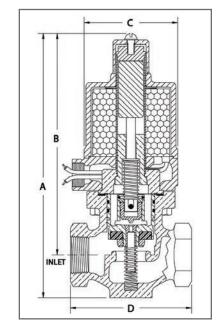
- Oxygen valves are also "black light" tested.

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+	В	С	D	D (Flanged) 150#
1/2	110 200	14LR42 14LR32	25	0.5	1.5	18	8	8-1/8	7	2-7/8	3-1/4	4-3/4
	300 500	29LR52 E29LR62	45 45	1.0	2.7	23 23	11 16	9-1/8 9-1/8	8	3-1/2 4	3-1/4 3-1/4	N/A
3/4	50 110	14LR23 14LR43	25	0.5	1.6	18	9	8-1/4	7-1/8	2-7/8	3-1/2	5-1/2
	200 300	29LR33 129LR53	45 65	1.0 1.5	2.9 4.3	23 33	13	9-1/4	8-1/8	3-1/2	3-1/2	N/A
	500	E129LR63	65	1.5	4.3	33	18	9-1/4	8-1/8	4	3-1/2	
1	50 110	16LR24 16LR44	25	0.5	1.8	18	11	9-1/8	7-3/4	3-1/4	4-1/8	5
	200 300	31LR34 131LR54	45 65	1.0	3.0 4.5	23 33	15	10	8-5/8	3-1/2	4-1/8	N/A
	500	E131LR64	65	1.5	4.5	33	20	10	8-5/8	4	4-1/8	
1-1/4	50 90	17LR25 17LR45	25	0.5	1.9	18	13	9-3/4	8-1/8	3-1/2	4-1/2	7
	200 300	32LR35 132LR55	45 65	1.0 1.5	3.2 4.8	23 33	17	10-3/4	9-1/8	3-5/8	4-1/2	N/A
	500	† 140LR65	85	3.5	9.0	N/A	20	11	9-3/8	4-1/2	4-1/2	1 1771
1-1/2	50 115	35LR26 35LR46	45	1.0	3.8	23	21	11-3/8	9-3/8	4	4-7/8	7-3/4
	200	41LR36	60	1.7	6.5	35						
	300 500	141LR56 141LR66	85	3.5	9.7	45	25	11-5/8	9-3/4	4-1/2	4-7/8	N/A
2	50 100	36LR27 36LR47	45	1.0	4.2	23	31	12-3/8	10-1/8	5-3/8	6	8
	200 300	42LR37 42LR57	60	1.7	7.3	35	36	12-5/8	10-3/8	5-3/8	6	N/A
	500	142LR67	85	3.5	11.0	45						
2-1/2	50	43LR28	60	1.7	8.0	35 45	45	13-1/2	10-3/4	5-7/8	7-1/4	11
	125	43LR48										
	200	43LR38					13-1/2	10-5/4	3-770	/-1/4	N/A	
	300	143LR58	85	3.5	12.0	45						
	50	44LR29					57	14-3/8	11-1/8	6-5/8	8-3/8	9-1/2
3	100 200	44LR49 44LR39	60	1.7	8.8	35						N/A
	300	144LR59	85	3.5	13.0	45						

[†] Not available for DC operation ◆ Shipping weights and Dimension "A" apply to NPT Ends



For Options and Accessories see pages 26 & 27. Strainers are recommended for use with solenoid valves (see page 19).



When ordering please supply:

- Pipe Size
- Fluid
- Valve Type Voltage
- Fluid Temperature - Max. Diff. Pressure
- (AC or DC) Hertz
- Optional Features