

# BRONZE SOLENOID VALVES

Dependable • Packless

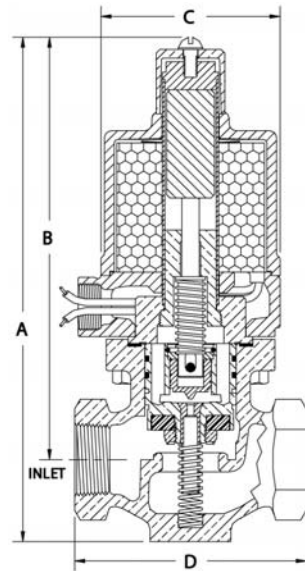


## TYPE "SR" FULL PORT - NORMALLY OPEN 1/2" TO 3" PIPE SIZE

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



MAX. FLUID TEMP.

**400° F**

MAX. STATIC PRESSURE

**200 PSI**

**APPLICATION:**

**TO CONTROL THE FLOW OF STEAM.** Steam must be free of sediment. 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 24 & 25**

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)

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	90	† 14SR22	25	0.5	1.5	18	8	8-1/8	7	2-7/8	3-1/4
	140	† 114SR42	40	0.8	2.4	28					
	180	129SR42	65	1.5	4.2	33	11	9-1/8	8	3-1/2	3-1/4
3/4	50	† 14SR23	25	0.5	1.6	18	9	8-1/4	7-1/8	2-7/8	3-1/2
	110	† 114SR43	40	0.8	2.6	28					
	180	129SR43	65	1.5	4.3	33	13	9-1/4	8-1/8	3-1/2	3-1/2
1	25	† 16SR14	25	0.5	1.8	18					
	50	† 116SR24	40	0.8	2.9	28	11	9-1/8	7-3/4	3-1/4	4-1/8
	90	† 116SR44	40	0.8	2.9	28					
	180	131SR44	65	1.5	4.5	33	15	10	8-5/8	3-1/2	4-1/8
1-1/4	25	† 17SR15	25	0.5	1.9	18					
	50	† 117SR25	40	0.8	3.0	28	13	9-3/4	8-1/8	3-1/2	4-1/2
	140	132SR45	65	1.5	4.8	33	17	10-3/4	9-1/8	3-5/8	4-1/2
	180	†† 140SR45	85	3.5	9.0	N/A	20	11	9-3/8	4-1/2	4-1/2
1-1/2	25	35SR16	45	1.0	3.8	23					
	50	35SR26	45	1.0	3.8	23	21	11-3/8	9-1/2	4	4-7/8
	90	135SR46	65	1.5	5.7	33					
	180	141SR46	85	3.5	9.7	45	25	11-5/8	9-3/4	4-1/2	4-7/8
2	25	36SR17	45	1.0	4.2	23					
	50	36SR27	45	1.0	4.2	23	31	12-3/8	10-1/8	5-3/8	6
	115	42SR47	60	1.7	7.3	35					
2-1/2	180	142SR47	85	3.5	11.0	45	36	12-5/8	10-3/8	5-3/8	6
	25	43SR18	60	1.7	8.0	35					
	50	43SR28	60	1.7	8.0	35	45	13-1/2	10-3/4	5-7/8	7-1/4
3	115	43SR48	85	3.5	12.0	45					
	175	143SR48	85	3.5	12.0	45					
	25	44SR19	60	1.7	8.8	35	57	14-3/8	11-1/8	6-5/8	8-3/8
	50	44SR29	60	1.7	8.8	35					
3	100	44SR49	60	1.7	8.8	35					
	150	144SR49	85	3.5	13.0	45					

† UL Listed Valves - Consult Factory    †† Not available for DC operation

**MAGNATROL VALVE CORPORATION**