

BRONZE Solenoid Valves



MAX. FLUID TEMP. 212° F
MAX. STATIC PRESSURE 300 PSI
 (Except valves listed for 500 PSI)

TYPE AR 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 (Flanged Ends available)
 - Piston* – Bronze
 - Coil Enclosure – Malleable or Cast Iron, 1/2" NPS conduit conn.
 - Plunger* – 430 Stainless Steel
 - Pilot Valve* – 303 Stainless Steel
 - Bonnet Tube* – 304 Stainless Steel
 - Spring* – 302 Stainless Steel
 - Body Seal* – Buna N or Non Asbestos Gasket (Viton® or Teflon® available)
 - Orifice Seal* – Buna N (Viton® or Glass Filled Teflon® available)
 - AC Shading Coil* – Copper
 - Stem Pin* – Inconel
 - Coil – Encapsulated Class B, 18" leads – (Class H available)

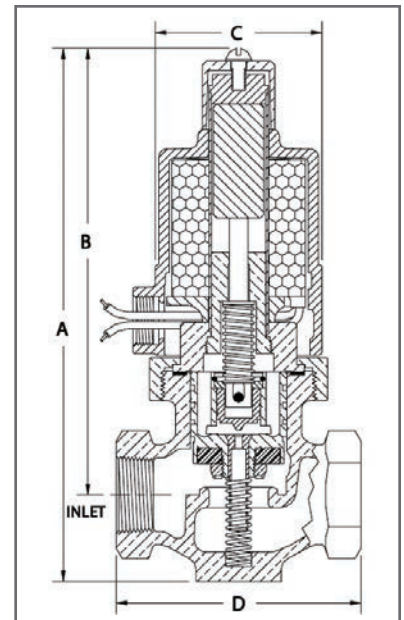
APPLICATION: To control the flow of Water, Oil, Air, Gas, Solvents, Brine, Vacuum and any other fluids not reactive with construction materials and free of sediment. Valve operates from zero to maximum differential pressure indicated in table. Valve must be mounted in horizontal pipe with solenoid enclosure vertical and on top.

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	D (Flanged) 150#									
1/2	110	18AR42	25	0.5	1.5	18	8	8-1/8	7	2-3/4	3-1/4	4-3/4									
	200	18AR32										N/A									
	300	18AR52										N/A									
	500	E33AR62										45	1.0	2.7	23	16	9-3/8	8-1/4	4-1/8	3-1/4	N/A
3/4	50	18AR23	25	0.5	1.6	18	9	8-1/4	7-1/8	2-3/4	3-1/2	5-1/2									
	110	18AR43										N/A									
	200	33AR33										45	1.0	2.9	23	13	9-1/4	8-1/8	3-1/2	3-1/2	N/A
	300	33AR53										45	1.0	2.9	23	13	9-1/4	8-1/8	3-1/2	3-1/2	N/A
1	50	18AR24	25	0.5	1.8	18	11	9	7-3/4	2-3/4	4-1/8	5									
	110	18AR44										N/A									
	200	33AR34										45	1.0	3.0	23	14	10	8-5/8	3-1/2	4-1/8	N/A
	300	33AR54										45	1.0	3.0	23	14	10	8-5/8	3-1/2	4-1/8	N/A
1-1/4	50	18AR25	25	0.5	1.9	18	13	9-3/4	8-1/8	2-3/4	4-1/2	7									
	90	18AR45										N/A									
	200	33AR35										45	1.0	3.2	23	17	10-3/4	9-1/8	3-1/2	4-1/2	N/A
	300	33AR55										45	1.0	3.2	23	17	10-3/4	9-1/8	3-1/2	4-1/2	N/A
1-1/2	50	40AR65	60	1.7	6.2	N/A	21	11	9-3/8	4-1/2	4-1/2	N/A									
	50	35AR26	45	1.0	3.8	23	21	11-3/8	9-1/2	4	4-7/8	7-3/4									
	115	35AR46										N/A									
	200	41AR36										60	1.7	6.5	35	25	11-5/8	9-3/4	4-1/2	4-7/8	N/A
300	41AR56	60										1.7	6.5	35	25	11-5/8	9-3/4	4-1/2	4-7/8	N/A	
2	50	141AR66	85	3.5	9.7	45	31	12-3/8	10-1/8	5-3/8	6	8									
	100	36AR27										N/A									
	200	42AR37										60	1.7	7.3	35	36	12-5/8	10-3/8	5-3/4	6	N/A
	300	42AR57										60	1.7	7.3	35	36	12-5/8	10-3/8	5-3/4	6	N/A
2-1/2	50	142AR67	85	3.5	11.0	45	31	12-3/8	10-1/8	5-3/8	6	N/A									
	50	43AR28										60	1.7	8.0	35	45	13-1/2	10-3/4	5-7/8	7-1/4	11
	125	43AR48																			N/A
	200	43AR38																			N/A
300	143AR58	85	3.5	13.0	45	N/A															
3	50	44AR29	60	1.7	8.8	35	57	14-3/8	11-1/8	6-5/8	8-3/8	9-1/2									
	100	44AR49										N/A									
	200	44AR39										N/A									
	300	144AR59										85	3.5	13.0	45	N/A					

† 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
 - Valve Type
 - Voltage (AC or DC)
 - Hertz
 - Fluid
 - Fluid Temperature
 - Max. Diff. Pressure
 - Optional Features (See pages 26 & 27)