

# BRONZE SOLENOID VALVES

Dependable • Packless

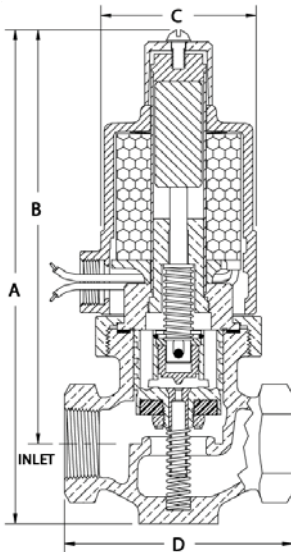


## TYPE "AR" FULL PORT - NORMALLY OPEN 1/2" TO 3" PIPE SIZE

**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
- \*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
- \*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.



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

**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)

†† Not available for DC operation

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	110	18AR42	25	0.5	1.5	18	8	8-1/8	7	2-3/4	3-1/4
	200	18AR32									
	300	18AR52									
	500	E33AR62									
3/4	50	18AR23	45	1.0	2.7	23	16	9-3/8	8-1/4	4-1/8	3-1/4
	110	18AR43									
	200	33AR33									
	300	33AR53									
	500	E133AR63									
1	50	18AR24	25	0.5	1.8	18	11	9	7-3/4	2-3/4	4-1/8
	110	18AR44									
	200	33AR34									
	300	33AR54									
	500	E133AR64									
1-1/4	50	18AR25	25	0.5	1.9	18	13	9-3/4	8-1/8	2-3/4	4-1/2
	90	18AR45									
	200	33AR35									
	300	33AR55									
	500	†† 40AR65									
1-1/2	50	35AR26	45	1.0	3.8	23	21	11-3/8	9-1/2	4	4-7/8
	115	35AR46									
	200	41AR36									
	300	41AR56									
	500	141AR66									
2	50	36AR27	45	1.0	4.2	23	31	12-3/8	10-1/8	5-3/8	6
	100	36AR47									
	200	42AR37									
	300	42AR57									
	500	142AR67									
2-1/2	50	43AR28	60	1.7	8.0	35	45	13-1/2	10-3/4	5-7/8	7-1/4
	125	43AR48									
	200	43AR38									
	300	143AR58									
	500	143AR58									
3	50	44AR29	60	1.7	8.8	35	57	14-3/8	11-1/8	6-5/8	8-3/8
	100	44AR49									
	200	44AR39									
	300	144AR59									
	500	144AR59									