

BRONZE SOLENOID VALVES

Dependable • Packless

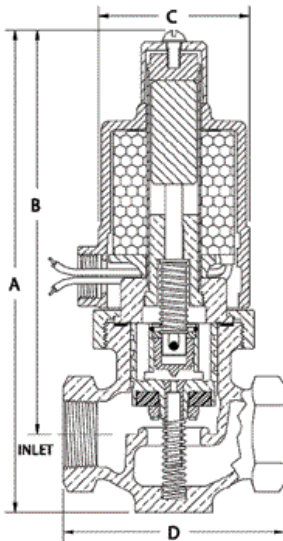


TYPE "AR" FULL PORT - NORMALLY OPEN 1/2" TO 3" PIPE SIZE

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.



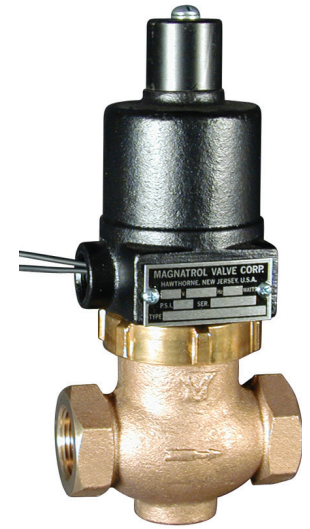
CONSTRUCTION: (* Wetted parts)

- *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 26 & 27

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)

†† 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.	Dimension 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										
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	5-1/2
	300	33AR53										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	5
300	33AR54	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	7
300	33AR55	N/A										
1-1/2	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	7-3/4
300	41AR56	N/A										
2	50	36AR27	45	1.0	4.2	23	31	12-3/8	10-1/8	5-3/8	6	8
	100	36AR47										N/A
	200	42AR37	60	1.7	7.3	35	36	12-5/8	10-3/8	5-3/4	6	8
300	42AR57	N/A										
2-1/2	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	85	3.5	13.0	45	45	13-1-2	10-3-4	5-7-8	7-1-4	11
300	143AR58	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	85	3.5	13.0	45	57	14-3/8	11-1/8	6-5/8	8-3/8	9-1/2
	300	144AR59										N/A

MAGNATROL VALVE CORPORATION