



BRONZE SOLENOID VALVES

Dependable • Packless

TYPE "A" FULL PORT - NORMALLY CLOSED 1/2" TO 3" PIPE SIZE

NO DIFFERENTIAL PRESSURE REQUIRED TO OPEN

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



OPERATION:

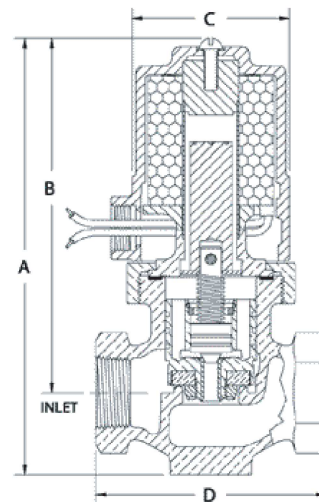
Valve opens when energized and closes when de-energized. When the coil is energized the pilot valve opens, relieving the pressure above the piston, which is then lifted from its seat by the plunger. Upon de-energizing the coil, a spring closes the pilot valve and opens a bleed passageway to permit pressure to build above the piston and seat it.

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.



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	18A42	25	0.4	1.2	18	8	7	5-7/8	2-3/4	3-1/4	4-3/4
	200	18A32										N/A
	300	18A52										N/A
3/4	50	E33A62	45	0.8	2.4	23	16	8	6-7/8	4-1/8	3-1/4	N/A
	110	18A23	25	0.4	1.3	18	8	7-1/8	6	2-3/4	3-1/2	5-1/2
	160	18A43	40	0.6	2.0	28	12	8-1/8	7	3-1/2	3-1/2	N/A
	200	33A33	45	0.8	2.6	23	12	8-1/8	7	4-1/8	3-1/2	N/A
	300	33A53	65	1.2	3.9	33	17	8-1/8	7	4-1/8	3-1/2	N/A
1	50	E133A63	45	0.8	2.6	23	12	8-1/8	7	4-1/8	3-1/2	N/A
	110	18A24	25	0.4	1.5	18	10	7-7/8	6-5/8	2-3/4	4-1/8	5
	160	18A44	40	0.6	2.3	28	14	8-7/8	7-1/2	4-1/8	4-1/8	N/A
	200	33A34	45	0.8	2.8	23	14	8-7/8	7-1/2	4-1/8	4-1/8	N/A
	300	33A54	65	1.2	4.2	33	19	8-7/8	7-1/2	4-1/8	4-1/8	N/A
1-1/4	50	E133A64	45	0.8	2.8	23	14	8-7/8	7-1/2	4-1/8	4-1/8	N/A
	90	18A25	25	0.4	1.6	18	12	8-3/8	6-3/4	2-3/4	4-1/2	7
	150	18A45	40	0.6	2.4	28	16	9-3/8	7-3/4	3-1/2	4-1/2	N/A
	200	33A35	45	0.8	3.0	23	16	9-3/8	7-3/4	3-1/2	4-1/2	N/A
	300	33A55	60	1.2	6.2	N/A	20	10-3/8	8-3/4	4-1/2	4-1/2	N/A
1-1/2	50	†† 40A65	60	1.2	6.2	N/A	20	10-3/8	8-3/4	4-1/2	4-1/2	N/A
	115	35A26	45	0.8	3.2	23	20	10	8-1/8	4	4-7/8	7-3/4
	160	35A46	65	1.2	4.8	33	24	11	9-1/8	4-1/2	4-7/8	N/A
	200	135A46	60	1.2	6.7	35	24	11	9-1/8	4-1/2	4-7/8	N/A
	300	41A36	85	2.0	10.0	45	31	11	8-3/4	5-3/8	6	8
2	50	36A27	45	0.8	3.5	23	31	11	8-3/4	5-3/8	6	8
	100	36A47	65	1.2	5.0	33	36	12	9-3/4	5-3/4	6	N/A
	150	136A47	60	1.2	7.4	35	36	12	9-3/4	5-3/4	6	N/A
	200	42A37	85	2.0	11.0	45	43	12-7/8	10-1/8	5-7/8	7-1/4	11
	300	42A57	85	2.0	11.0	45	43	12-7/8	10-1/8	5-7/8	7-1/4	N/A
2-1/2	50	43A28	60	1.2	8.0	35	43	12-7/8	10-1/8	5-7/8	7-1/4	11
	125	43A48	85	2.0	12.0	45	56	13-3/4	10-1/2	6-5/8	8-3/8	9-1/2
	200	43A38	85	2.0	12.0	45	56	13-3/4	10-1/2	6-5/8	8-3/8	9-1/2
	300	143A58	85	2.0	12.0	45	56	13-3/4	10-1/2	6-5/8	8-3/8	N/A
3	50	44A29	60	1.2	8.8	35	56	13-3/4	10-1/2	6-5/8	8-3/8	9-1/2
	100	44A49	85	2.0	13.0	45	56	13-3/4	10-1/2	6-5/8	8-3/8	N/A
	200	44A39	85	2.0	13.0	45	56	13-3/4	10-1/2	6-5/8	8-3/8	N/A
	300	144A59	85	2.0	13.0	45	56	13-3/4	10-1/2	6-5/8	8-3/8	N/A

**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

MAGNATROL VALVE CORPORATION

Magnatrol Valve Corporation • P.O. Box 17 • 67 Fifth Avenue • Hawthorne • New Jersey • 07507
info@magnatrol.com • Phone: 973-427-4341 • Fax: 973-427-7611 • www.magnatrol.com