



# 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:**

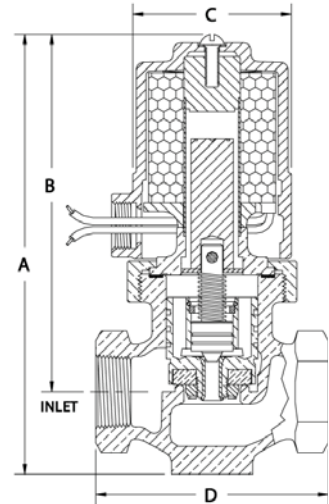
Valve opens when energized and closes when de-energized. When the coil is energized the pilot valve opens, relieving the pressure above the piston, which is then lifted from its seat by the plunger. Upon de-energizing the coil, a spring closes the pilot valve and opens a bleed passageway to permit pressure 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.	Dimensions In Inches			
								A	B	C	D
1/2	110	18A42	25	0.4	1.2	18	8	7	5-7/8	2-3/4	3-1/4
	200	18A32									
	300	18A52									
3/4	500	E33A62	45	0.8	2.4	23	16	8	6-7/8	4-1/8	3-1/4
	50	18A23	25	0.4	1.3	18	8	7-1/8	6	2-3/4	3-1/2
	110	18A43									
	160	118A43	40	0.6	2.0	28	12	8-1/8	7	3-1/2	3-1/2
	200	33A33	45	0.8	2.6	23	12	8-1/8	7	3-1/2	3-1/2
	300	33A53									
500	E133A63	65	1.2	3.9	33	17	8-1/8	7	4-1/8	3-1/2	
1	50	18A24	25	0.4	1.5	18	10	7-7/8	6-5/8	2-3/4	4-1/8
	110	18A44									
	160	118A44	40	0.6	2.3	28	14	8-7/8	7-1/2	3-1/2	4-1/8
	200	33A34	45	0.8	2.8	23	14	8-7/8	7-1/2	3-1/2	4-1/8
	300	33A54									
500	E133A64	65	1.2	4.2	33	19	8-7/8	7-1/2	4-1/8	4-1/8	
1-1/4	50	18A25	25	0.4	1.6	18	12	8-3/8	6-3/4	2-3/4	4-1/2
	90	18A45									
	150	118A45	40	0.6	2.4	28	16	9-3/8	7-3/4	3-1/2	4-1/2
	200	33A35	45	0.8	3.0	23	16	10-3/8	8-3/4	4-1/2	4-1/2
	300	33A55									
500	†† 40A65	60	1.2	6.2	N/A	20					
1-1/2	50	35A26	45	0.8	3.2	23	20	10	8-1/8	4	4-7/8
	115	35A46									
	160	135A46	65	1.2	4.8	33	24	11	9-1/8	4-1/2	4-7/8
	200	41A36	60	1.2	6.7	35	24	11	9-1/8	4-1/2	4-7/8
	300	41A56									
500	141A66	85	2.0	10.0	45	31	11	8-3/4	5-3/8	6	
2	50	36A27	45	0.8	3.5	23	31	11	8-3/4	5-3/8	6
	100	36A47									
	150	136A47	65	1.2	5.0	33	36	12	9-3/4	5-3/8	6
	200	42A37	60	1.2	7.4	35	36	12	9-3/4	5-3/8	6
	300	42A57									
500	142A67	85	2.0	11.0	45	43	12-7/8	10-1/8	5-7/8	7-1/4	
2-1/2	50	43A28	60	1.2	8.0	35	43	12-7/8	10-1/8	5-7/8	7-1/4
	125	43A48									
	200	43A38									
	300	143A58									
3	50	44A29	60	1.2	8.8	35	56	13-3/4	10-1/2	6-5/8	8-3/8
	100	44A49									
	200	44A39									
	300	144A59									

**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