

BULLETIN 3020-A

# BRONZE Solenoid Valves

## 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)



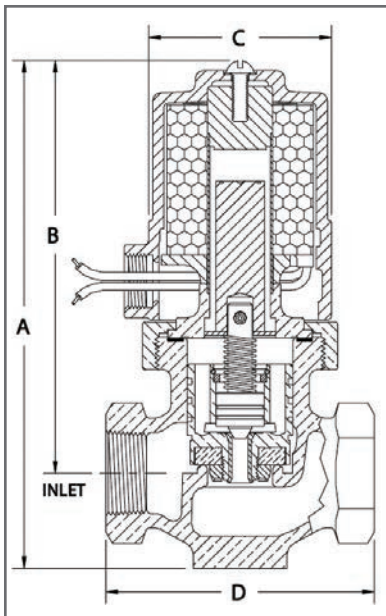
For Options and Accessories see pages 26 & 27. Strainers are recommended for use with solenoid valves (see page 19).

**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 (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.



**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)

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	18A42	25	0.4	1.2	18	8	7	5-7/8	2-3/4	3-1/4	4-3/4						
	200	18A32							6-7/8	4-1/8	3-1/4	N/A						
300	18A52	7						4-1/8	3-1/4	N/A								
3/4	50	18A23	45	0.8	2.4	23	16	8	7-1/8	6	2-3/4	3-1/2	5-1/2					
	110	18A43												8-1/8	7	3-1/2	3-1/2	
	160	118A43							8-1/8	7	4-1/8	3-1/2	N/A					
	200	33A33							65	1.2	3.9	33	17	8-1/8	7	4-1/8	3-1/2	N/A
	300	33A53																
500	E133A63																	
1	50	18A24	40	0.6	2.3	28	10	7-7/8	6-5/8	2-3/4	4-1/8	5						
	110	18A44																
	160	118A44																
	200	33A34											14	8-7/8	7-1/2	4-1/8	4-1/8	
	300	33A54																
500	E133A64																	
1-1/4	50	18A25	60	1.2	6.2	N/A	20	10-3/8	8-3/4	4-1/2	4-1/2	7						
	90	18A45																
	150	118A45																
	200	33A35											16	9-3/8	7-3/4	3-1/2	4-1/2	
	300	33A55																
500	† 40A65																	
1-1/2	50	35A26	85	2.0	10.0	45	24	11	9-1/8	4-1/2	4-7/8	7-3/4						
	115	35A46																
	160	135A46																
	200	41A36											36	12	9-3/4	5-3/8	6	
	300	41A56																
500	141A66																	
2	50	36A27	60	1.2	8.0	35	43	12-7/8	10-1/8	5-7/8	7-1/4	11						
	100	36A47																
	150	136A47																
	200	42A37											56	13-3/4	10-1/2	6-5/8	8-3/8	
	300	42A57																
500	142A67																	
2-1/2	50	43A28	85	2.0	12.0	45	56	13-3/4	10-1/2	6-5/8	8-3/8	9-1/2						
	125	43A48																
	200	43A38																
	300	143A58																
3	50	44A29	85	2.0	13.0	45	56	13-3/4	10-1/2	6-5/8	8-3/8	N/A						
	100	44A49																
	200	44A39																
	300	144A59																

† Not available for DC operation    ♦ Shipping weights and Dimension "A" apply to NPT Ends