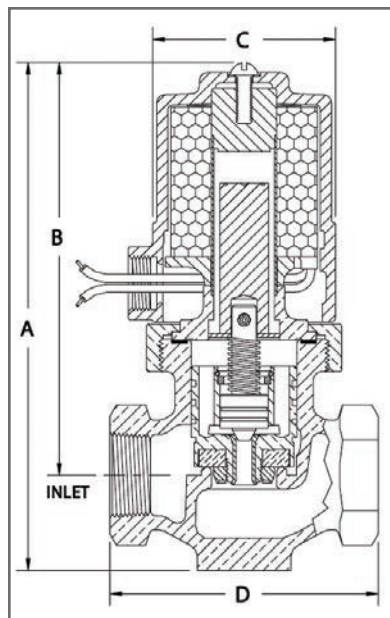


BULLETIN 3020-A

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).



When ordering please supply:

- Pipe Size
- Fluid
- Valve Type
- Fluid Temperature
- Voltage (AC or DC)
- Max. Diff. Pressure
- Optional Features (See pages 26 & 27)
- Hertz

BRONZE Solenoid Valves

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

(NO DIFFERENTIAL PRESSURE REQUIRED TO OPEN)

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.

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					D (Flanged) 150#
								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	4-3/4	
	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	N/A	
	50	18A23	25	0.4	1.3	18	8	7-1/8	6	2-3/4	3-1/2	5-1/2	
	110	18A43											
	160	118A43											40
	200	33A33	45	0.8	2.6	23	12	8-1/8	7	3-1/2	3-1/2		N/A
	300	33A53											
500	E133A63	65										1.2	
1	50	18A24	25	0.4	1.5	18	10	7-7/8	6-5/8	2-3/4	4-1/8	5	
	110	18A44											
	160	118A44											40
	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											
500	E133A64	65										1.2	
1-1/4	50	18A25	25	0.4	1.6	18	12	8-3/8	6-3/4	2-3/4	4-1/2	7	
	90	18A45											
	150	118A45											40
	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											
500	+ 40A65	60										1.2	
1-1/2	50	35A26	45	0.8	3.2	23	20	10	8-1/8	4	4-7/8	7-3/4	
	115	35A46											
	160	135A46											65
	200	41A36	60	1.2	6.7	35	24	11	9-1/8	4-1/2	4-7/8		N/A
	300	41A56											
500	141A66	85										2.0	
2	50	36A27	45	0.8	3.5	23	31	11	8-3/4	5-3/8	6	8	
	100	36A47											
	150	136A47											65
	200	42A37	60	1.2	7.4	35	36	12	9-3/4	5-3/8	6		N/A
300	42A57												
500	142A67	85										2.0	
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											
	200	43A38											
	300	143A58	85	2.0	12.0	45							
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											
	200	44A39											
	300	144A59	85	2.0	13.0	45							

† Not available for DC operation

♦ Shipping weights and Dimension "A" apply to NPT Ends