



# STAINLESS STEEL SOLENOID VALVES

Dependable • Packless

## TYPE "K" FULL PORT - NORMALLY CLOSED

### 1/2" TO 3" PIPE SIZE

*NO DIFFERENTIAL PRESSURE REQUIRED TO OPEN*

**MAX. FLUID TEMP.**  
**400° 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.

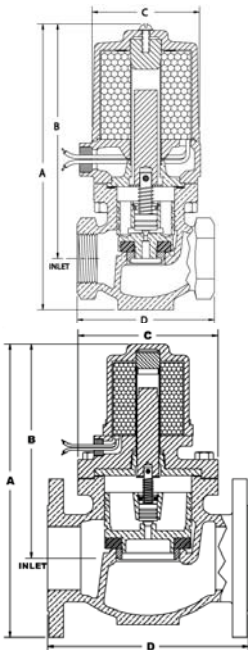
**CONSTRUCTION:**

- (\*Wetted parts - No Copper Bearing Alloys in contact with fluid)
- \*Valve Body - 304 Stainless Steel Globe Pattern - NPT ends  
**(For Flanged Ends see Options page 24)**
- \*Piston - 303 Stainless Steel
- 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 - Inconel
- \*Body Seal - Non Asbestos Gasket
- \*Orifice Seal - Glass Filled Teflon
- \*AC Shading Coil - Silver
- \*Stem Pin - Inconel
- Coil - Encapsulated Class H, 18" leads

**FOR  
STEAM APPLICATIONS  
SEE BULLETIN 3006-W  
Page 22**

**APPLICATION:**

**To control the flow of Corrosive Fluids, Deionized Water, Condensate, Ammonias, Vegetable Oils, Fuel Oils, Cryogenics\*\*, Flammable Liquids.** Cryogenic fluids include liquid oxygen (-297°F), liquid argon (-303°F) and liquid nitrogen (-320°F). 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.



**FOR OPTIONS & ACCESSORIES SEE PAGES 24 & 25**

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 NPT	D (Flanged) 150#	300#
1/2	110	14K42	25	0.4	1.2	18	7	7	5-7/8	2-7/8	2-7/8	6	6-1/2
	200	14K32											
	300	29K52	45	0.8	2.4	23	10	8	6-7/8	3-1/2	3-1/2		
	500	E29K62											
3/4	110	14K43	25	0.4	1.3	18	8	7-1/8	6	2-7/8	2-7/8	6	6-1/2
	200	29K33											
	300	129K53	65	1.2	3.9	33	11	8-1/8	7	3-1/2	3-1/2		
	500	E129K63											
1	110	16K44	25	0.4	1.5	18	10	8	6-5/8	3-1/4	3-1/4	6-1/2	7-1/2
	200	31K34											
	300	131K54	65	1.2	4.2	33	13	8-7/8	7-1/2	3-1/2	3-1/2		
	500	E131K64											
1-1/2	115	35K46	45	0.8	3.2	23	17	10	8-1/8	4	4	6-1/2	7-1/2
	200	41K36											
	300	141K56	85	2.0	10.0	45	21	11	9-1/8	4-1/2	4-1/2		
	500	141K66											
2	100	36K47	45	0.8	3.5	23	27	11	8-3/4	5-3/8	5-3/8	8	9
	200	42K37											
	300	42K57	85	2.0	11.0	45	32	12	9-3/4				
	500	142K67											
3	50	44K29F1	60	1.2	8.8	35	68	13-3/4	10-1/2	6-5/8	N/A	9-1/2	N/A
	100	44K49F1											
	200	44K39F1	85	2.0	13.0	45	81	N/A	N/A	12-1/2			
	300	144K59F3											

**\*\* CLEANING**

- Cryogenic valves are degreased & cleaned to keep them free of moisture.
- Oxygen valves are also "black light" tested.

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)

**Shipping Weights** above apply to Threaded Ends Only (except 3" which are Flanged Only)

**For Flanged Ends** contact factory for complete weight and dimensions

**3" STAINLESS STEEL VALVES ARE SUPPLIED WITH FLANGED ENDS ONLY**

**MAGNATROL VALVE CORPORATION**