STAINLESS STEEL SOLENOID VALVES

Dependable • Packless



MAX. FLUID TEMP.

400° F

MAX. STATIC PRESSURE

300 PSI

Except valves listed for 500 PSI

TYPE "KR" FULL PORT - NORMALLY OPEN 1/2" TO 3" PIPE SIZE

NO DIFFERENTIAL PRESSURE REQUIRED TO OPEN

OPERATION:

Valve closes when energized and opens when de-energized. When the coil is energized the plunger presses the poppet, closing the pilot orifice, and opens a bleed passageway to permit pressure to build above the piston and seat it. Upon de-energizing the coil, the pilot orifice is opened, relieving the pressure above the piston allowing it to leave its seat. The bottom spring allows the valve to operate at zero pressure drop.

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 26)

*Piston - 303 Stainless Steel

Coil Enclosure - Malleable or Cast Iron, 1/2 "NPS conduit conn.

- *Plunger 430 Stainless Steel
- *Poppet 303 Stainless Steel *Stem 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 304 Stainless Steel

Coil - Encapsulated Class H, 18" leads

FOR STEAM APPLICATIONS Page 25

SEE BULLETIN 3006-WR

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.

** 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 26 & 27)

FOR OPTIONS & ACCESSORIES SEE PAGES 26 & 27

Pipe	Max.	Type No.	Watts AC	Amps Hold 120-60	Amps Inrush 120-60	Watts DC	Ship Wt. Lbs.	Dimensions In Inches					
Size Inches	Diff. PSI							Α	В	С	D	D (Fla 150#	nged) 300#
1/2	110 200	14KR42 14KR32	25	0.5	1.5	18	7	8-1/8	7	2-7/8	3-1/4	6	6-1/2
	300 500	29KR52 E29KR62	45	1.0	2.7	23	10 15	9-1/8	8	3-1/2 4			
3/4	110	14KR43	25	0.5	1.6	18	8	8-1/4	7-1/8	2-7/8	3-1/2	6	6-1/2
	200 300	29KR33 129KR53	45	1.0	2.9	23	12	9-1/4	8-1/8	3-1/2			
	500	E129KR63	65	1.5	4.3	33	17			4			
1	110	16KR44	25	0.5	1.8	18	10	9-1/8	7-3/4	3-1/4			
	200	31KR34	45	1.0	3.0	23	14	10	8-5/8	3-1/2	4-1/8	6-1/2	7-1/2
	300 500	131KR54 E131KR64	65	1.5	4.5	33	20			4			
1-1/2	115	35KR46	45	1.0	3.8	23	18	11-3/8	9-1/2	4	4-7/8	6-1/2	7-1/2
	200	41KR36	60	1.7	6.5	35			9-3/4	4-1/2			
	300 500	141KR56 141KR66	85	3.5	9.7	45		11-5/8					
2	100	36KR47	45	1.0	4.2	23	27	12-3/8	10-1/8	5-3/8	6	8	9
	200 300	42KR37 42KR57	60	1.7	7.3	35	32	12-5/8	10-3/8				
	500	142KR67	85	3.5	11.0	45							
3	100 200	44KR49F1 44KR39F1	60	1.7	8.8	35	69	14-3/8 11-	11-1/8	6-5/8	N/A	9-1/2	N/A
	300	144KR59F3	85	3.5	13.0	45	82					N/A	12-1/2

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 -