

# STAINLESS STEEL Solenoid Valves



BULLETIN 3020-KR

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.

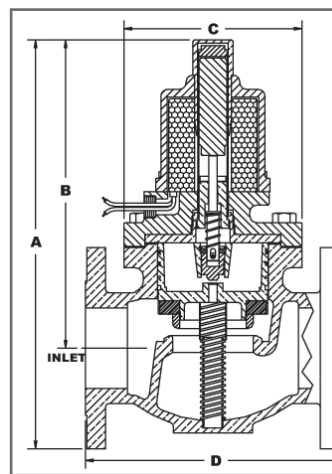
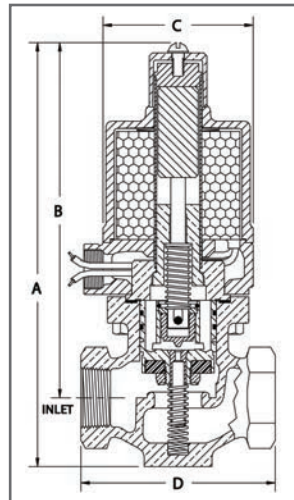
**CONSTRUCTION:** \*Wetted parts - No Copper Bearing Alloys in contact with fluid

- Valve Body\* – 304 Stainless Steel Globe Pattern – NPT ends (Flanged Ends available)
- 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 (Teflon® available)
- Orifice Seal\* – Glass Filled Teflon®
- AC Shading Coil\* – Silver
- Stem Pin\* – 304 Stainless Steel
- Coil – Encapsulated Class H, 18" leads

**FOR  
STEAM APPLICATIONS  
SEE BULLETIN 3020-WR  
Page 25**

**APPLICATION:** To control the flow of Corrosive Fluids, Deionized Water, Condensate, Ammonias, Vegetable Oils, Fuel Oils, Cryogenics\*\*, and 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 and cleaned to keep them free of moisture.  
– Oxygen valves are also "black light" tested.



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	14KR42	25	0.5	1.5	18	7	8-1/8	7	2-7/8	3-1/4	6	
	200	14KR32											
	300	29KR52	45	1.0	2.7	23	10	9-1/8	8	3-1/2		6-1/2	
3/4	110	14KR43	25	0.5	1.6	18	8	8-1/4	7-1/8	2-7/8	3-1/2	6	
	200	29KR33	45	1.0	2.9	23	12	9-1/4	8-1/8	3-1/2			6-1/2
	300	129KR53	65	1.5	4.3	33	17	10	9-1/8	7-3/4	3-1/4		5
1	110	16KR44	25	0.5	1.8	18	10	9-1/8	7-3/4	3-1/4	4-1/8	5	
	200	31KR34	45	1.0	3.0	23	14	10	8-5/8	3-1/2			6-1/2
	300	131KR54	65	1.5	4.5	33	20	11-3/8	9-1/2	4		7-1/2	
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	
	200	41KR36	60	1.7	6.5	35	22	11-5/8	9-3/4	4-1/2			7-1/2
	300	141KR56	85	3.5	9.7	45	27	12-3/8	10-1/8	5-3/8	6	8	
500	142KR67	85	3.5	11.0	45	32	12-5/8	10-3/8	5-3/8			9	
2	100	36KR47	45	1.0	4.2	23	27	12-3/8	10-1/8	5-3/8	6	8	
	200	42KR37	60	1.7	7.3	35	32	12-5/8	10-3/8	5-3/8			9
	300	42KR57	85	3.5	11.0	45	32	12-5/8	10-3/8	5-3/8		9	
3	100	44KR49F1	60	1.7	8.8	35	69	14-3/8	11-1/8	6-5/8	N/A	9-1/2	N/A
	200	44KR39F1											
	300	144KR59F3	85	3.5	13.0	45	82	14-3/8	11-1/8	6-5/8		N/A	12-1/2

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

**Shipping Weights** shown here 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**

\* Shipping weight



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