3-Way Direct Acting High Pressure Valves 1/8" - 1/4" NPT

General Description:

3-way Direct Acting High Pressure valves are used in general industrial application and control valve pilot actuation where higher pressures and flows are required. No minimum operating pressure differential required to ensure proper operation.

Installation

Valves can be mounted in any position. The preferred orientation is with the coil vertical and upright.

Standard Materials of Construction

Please refer to page B44.

Compatible Fluids

Lubricated Air, Inert Gases, Water, Light Oil (300 SSU) and additional fluids compatible with materials of construction, as listed in the product specifications charts.

Use of non-lubricated gaseous media can affect valve life.

Electrical Characteristics:

Standard Voltages:

AC -24/60 120/60-110/50 240/60-220/50 DC -12,24 & 120 For other voltages - consult factory





Coil Classification: Class F standard Class H available

Agency Approvals:

Standard valves with NEMA 4X or explosion proof solenoid enclosures are UL Listed and CSA Certified. For additional details, consult factory.

Maximum Ambient Temperature 150° F

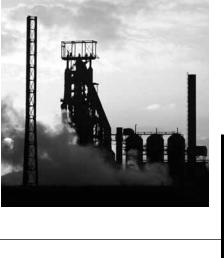
Please refer to Page B44 for details.

Applications:

- Pilot valve actuation of larger control valves
- Oil and gas including off-shore installations
- Single acting spring return cylinder control
- Compressor unloaders
- Turbines
- Machining equipment
- High pressure compressors

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3-Way Normally Closed High Pressure - Brass

	Orifice Size In.		Flow Factor Cv		Operating Pressure Differential (MOPD) PSI					Max.			Rofo	erence
Port						Air,				Media		5 V 1	Nere	
Size NPT	In	Exh.	In	Exh.	Min.	Inert Gas	Water	Light Oil	Watt	Temp. °F	Seal*	Pressure Vessel Number	Coil	Valve
	AC TECHNICAL SPECIFICATIONS											valve		
1/4	1/32	1/32	0.020	0.020	0	1100	1100	1100	10	210	RUBY	7131KBN2BR00	7	B39
1/4	1/32	1/32	0.020	0.020	0	580	580	580	10	165	PCTFE	7131KBN2BF00	7	B39
DC TECHNICAL SPECIFICATIONS														
1/4	1/32	1/32	0.020	0.020	0	1100	1100	1100	10	210	RUBY	7131KBN2BR00	7	B39
1/4	1/32	1/32	0.020	0.020	0	580	580	580	10	165	PCTFE	7131KBN2BF00	7	B39

3-Way Universal High Pressure - Brass

	Orific Iı	e Size 1.	Flow Factor Cv		Operating Pressure Differential (MOPD) PSI					Max.			Reference	
Port						Air,				Media			incre	
Size						Inert		Light		Temp.		Pressure Vessel		1
NPT	In	Exh.	In	Exh.	Min.	Gas	Water	Oil	Watt	°F	Seal	Number	Coil	Valve
AC T	AC TECHNICAL SPECIFICATIONS													
1/4	1/32	1/32	0.020	0.020	0	435	435	435	10	185	FKM	7133KBN2BVJ1	7	B39
DC TECHNICAL SPECIFICATIONS														
1/4	1/32	1/32	0.020	0.020	0	435	435	435	10	185	FKM	7133KBN2BVJ1	7	B39

3-Way Universal High Pressure - Stainless Steel

	-		-											
		e Size n.	Size Flow Factor Cv		Operating Pressure Differential (MOPD) PSI					Max.			Reference	
Port Size						Air, Inert		Light		Media Temp.		Pressure Vessel		
NPT	In	Exh.	In	Exh.	Min.	Gas	Water	Oil	Watt	°F	Seal	Number	Coil	Valve
AC T	AC TECHNICAL SPECIFICATIONS													
1/8	1/32	1/32	0.024	0.024	0	400	400	400	10	185	NBR	71335SN1ANJ1	7	B38
1/4	1/32	1/32	0.024	0.024	0	400	400	400	10	185	NBR	71335SN2ANJ1	7	B38
DC T	ECHNI	CAL SF	PECIFIC	ATIONS	;									
1/8	1/32	1/32	0.024	0.024	0	400	400	400	10	185	NBR	71335SN1ANJ1	7	B38
1/4	1/32	1/32	0.024	0.024	0	400	400	400	10	185	NBR	71335SN2ANJ1	7	B38

* PCTFE Seals: Allowable Seat leakage is 20 cc/min on air and inert gas at rated pressure: 7131KBNxxFxx RUBY Seals: Allowable Seat leakage is 100 cc/min on air and inert gas at rated pressure: 7131KBNxxRxx



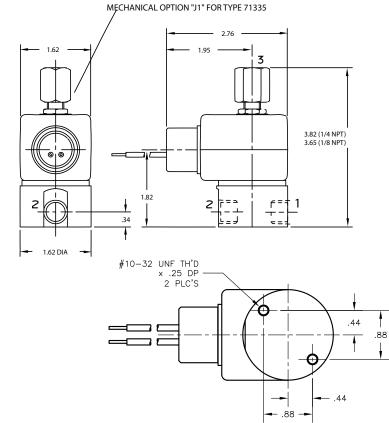
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Valve Reference B38



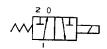


3-Way Universal Pressure can be applied at either port.

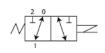


Valve Reference B39



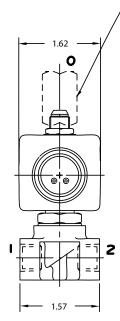


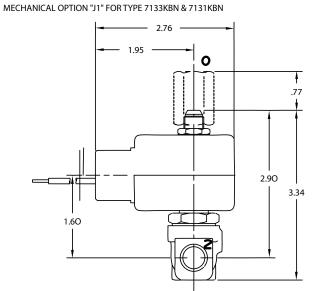
3-Way Normally Closed Port Identification 1-Cylinder/ 2-Pressure/ 0-Exhaust

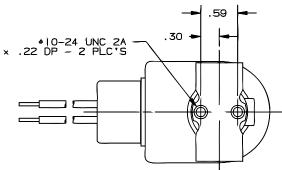


3-Way Universal Port Identification Pressure can be applied at either port

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3-Way Direct Acting High Pressure Materials of Construction**

Product*	Watt	Туре	Port Size	Body	Sleeve Tube	Sleeve Stop	Sleeve Flange	"Plunger Blank"	Plunger Spring	Shading Ring	Max. Ambient Temp.
7131KBN	10	3WNC	1/8 - 1/4	Brass	304SS	430FR	430F	430FR	301SS	Copper	150°F
7133KBN	10	3WU	1/8 - 1/4	Brass	304SS	430FR	430F	430FR	301SS	Copper	150°F
71335SN	10	ЗWU	1/8 - 1/4	430F	304SS	430FR	430F	430FR	18-8SS	Copper	150°F

* Shows first 7, 2 or 3 digits of pressure vessel.

** Maximum ambient temperature shown is the rating when valve is operating at the maximum fluid temperature as shown in the product sections for each of the valves in this catalog.

Notes



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