

SKINNER 7000 Series High Pressure Three-Way Direct Acting Valves

SPECIFICATIONS

Mechanical Characteristics

Standard Materials of Construction

- Body—Brass, Stainless Steel (430F)
- Seals FKM, PCTFE, NBR, Ruby as listed
- Sleeve Tube—Stainless Steel (304)
- Plunger—Stainless Steel (430FR)
- Stop—Stainless Steel (430FR)
- Springs—Stainless Steel (18-8)
- Shading Ring—Copper
- Pilot Orifice—Stainless Steel (303)

Compatible Fluids

- All common media including air, inert gases, hydraulic fluids, petroleum products, freons, water, steam and corrosive media. Use of non-

lubricated gaseous media will substantially limit valve life.

Note: Use with steam, water, and some petroleum products normally requires plunger assembly insert modification. Refer to Technical Information section for fluid compatibility.

Electrical Characteristics

Voltages

- DC—12, 24
- AC—24/60, 110/50-120/60, 208/60, 220/50-240/60, 440/50-480/60 (other AC/DC voltages available upon request)

Agency Approvals

- UL and CSA approvals are available on valves with applicable coil/enclosure combinations. For additional information see page 136.

Miscellaneous

Maximum Ambient Temperature

- 10 watt AC/DC—150°F
- 22 watt AC/DC—77°F
- Fluxtron/Magnelatch—122°F

DIRECT ACTING BRASS VALVES—NORMALLY CLOSED, PCTFE OR RUBY SEALS

Pipe Size NPT	Orifice Body NC (inch)	Orifice Body NO (inch)	Cv Factor NC	Cv Factor NO	Operating Pressure Differential (PSI)					Max.* Fluid Temp. (F)	Pressure Vessel Catalog Number	UL/CSA** Approval	Const. Ref.
					Min.	Maximum							
						AC Ratings		DC Ratings					
						10 watt	22 watt	10 watt	22 watt				
1/4"	1/32	1/32	0.02	0.02	0	580		580		165	7131KBN2BF00	GP	117
	1/32	1/32	0.02	0.02	0	1100		1100		210	7131KBN2BR00	GP	117
	3/64	1/16	0.055	0.11	0	435		435		210	7131KBN2ER00	GP	117

DIRECT ACTING BRASS VALVES—MULTIPURPOSE, FKM SEALS

Pipe Size NPT	Orifice Body NC (inch)	Orifice Body NO (inch)	Cv Factor NC	Cv Factor NO	Operating Pressure Differential (PSI)						Max.* Fluid Temp. (F)	Pressure Vessel Catalog Number	UL/CSA** Approval	Const. Ref.
					Min.	Maximum								
						AC Ratings		DC Ratings						
						10 watt	22 watt	10 watt	22 watt					
1/4"	1/32	1/32	0.02	0.02	0	435		435		185	7133KBN2BVJ1	GP	117	

DIRECT ACTING STAINLESS STEEL VALVES—MULTIPURPOSE, NBR SEALS

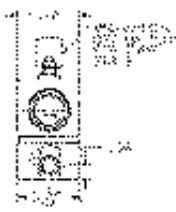

Pipe Size NPT	Orifice Body NC (inch)	Orifice Body NO (inch)	Cv Factor NC	Cv Factor NO	Operating Pressure Differential (PSI)						Max.* Fluid Temp. (F)	Pressure Vessel Catalog Number	UL/CSA** Approval	Const. Ref.
					Min.	Maximum								
						AC Ratings		DC Ratings						
						10 watt	22 watt	10 watt	22 watt					
1/8"	1/32	1/32	0.024	0.024	0	400		400		185	71335SN1ANJ1	GP	121	
1/4"	1/32	1/32	0.024	0.024	0	400		400		185	71335SN2ANJ1	GP	121	


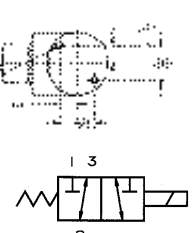
* Maximum fluid temperatures are provided for Class F coils. Valves with Ruby or FKM seals (letter 'R' or 'V' in 10th position of pressure vessel number) can be used at fluid temperatures up to 240°F on DC and 250°F on AC provided a Class H coil is used.

**UL/CSA Approval Information: GP=General Purpose Blank=Not Approved
See page 136 for additional agency approval information.

7000 Series High Pressure Three-Way Direct Acting Valves

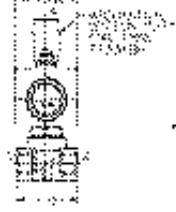
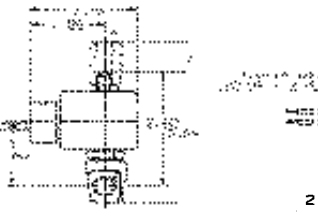
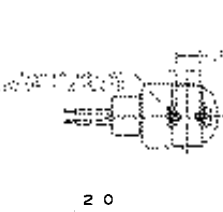
DRAWINGS


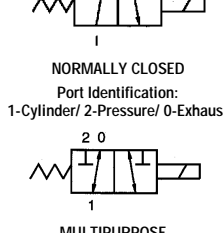



#121

Port Identification:
Pressure can be applied at either port.

#117

NORMALLY CLOSED
Port Identification:
1-Cylinder/ 2-Pressure/ 0-Exhaust

MULTIPURPOSE
Port Identification:
Pressure can be applied at either port.