

SKINNER 7000 Series Quick Exhaust Three-Way Direct Acting Valves

SPECIFICATIONS

Mechanical Characteristics

Standard Materials of Construction

- Body—Stainless Steel (430F), Brass
- Seals—NBR
- Sleeve Tube—Stainless Steel (303 or 304)
- Plunger—Stainless Steel (430FR)
- Stop—Stainless Steel (430FR)
- Springs—Stainless Steel (18-8 or 17-7PH)
- Shading Ring—Copper
- Pilot Orifice—Stainless Steel (303)

Compatible Fluids

- Lubricated Air, Non-Lubricated Air, Inert Gases.
- Use of non-lubricated gaseous media will substantially limit valve life.

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/Magnetlatch—122°F

DIRECT ACTING BRASS VALVES—NORMALLY CLOSED, NBR SEALS

Pipe Size NPT	Orifice Body NC (inch)	Orifice Body NO (inch)	Orifice Sleeve Size (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"	3/32	1/4	3/32	0.2	1.1	0	100	22 watt	100	22 watt	185	7131EBN2LN00	GP	45

DIRECT ACTING STAINLESS STEEL VALVES—NORMALLY CLOSED, NBR SEALS

Pipe Size NPT	Orifice Body NC (inch)	Orifice Body NO (inch)	Orifice Sleeve Size (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"	3/64	1/8	3/32	0.052	0.35	0	250	22 watt	250		185	71313SN1EN00	GP	46
	3/64	1/8	3/32	0.052	0.35	0	250		250		185	71313SN1ENJ1	GP	46
	1/16	1/8	3/32	0.09	0.35	0	200		200		185	71313SN1GN00	GP	46
	1/16	1/8	3/32	0.09	0.35	0	200		200		185	71313SN1GNJ1	GP	46
	3/32	1/8	3/32	0.11	0.35	0	125		125		185	71313SN1KN00	GP	46
	3/32	1/8	3/32	0.11	0.35	0	125		125		185	71313SN1KNJ1	GP	46
	1/8	1/8	3/32	0.13	0.35	0	90		90		185	71313SN1MN00	GP	46
	1/8	1/8	3/32	0.13	0.35	0	90		90		185	71313SN1MNJ1	GP	46
1/4"	3/64	1/8	3/32	0.052	0.35	0	250		250		185	71313SN2EN00	GP	46
	3/64	1/8	3/32	0.052	0.35	0	250		250		185	71313SN2ENJ1	GP	46
	1/16	1/8	3/32	0.09	0.35	0	200		200		185	71313SN2GN00	GP	46
	1/16	1/8	3/32	0.09	0.35	0	200		200		185	71313SN2GNJ1	GP	46
	3/32	1/8	3/32	0.11	0.35	0	125		125		185	71313SN2KN00	GP	46
	3/32	1/8	3/32	0.11	0.35	0	125		125		185	71313SN2KNJ1	GP	46
	1/8	1/8	3/32	0.13	0.35	0	90		90		185	71313SN2MN00	GP	46
	1/8	1/8	3/32	0.13	0.35	0	90		90		185	71313SN2MNJ1	GP	46

* The valves operate at 0 PSI, however a 2 PSI minimum pressure differential is required to actuate the pressure operated quick exhaust poppet.

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

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DRAWINGS

Port Identification:
1-Pressure/ 2-Cylinder/ 3-Exhaust

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Three-Way Solenoid Valves