SKINNER 3000 Series Two-Way Direct Acting Valves

SPECIFICATIONS

Mechanical Characteristics

Standard Materials of Construction

- Body–Brass or Stainless Steel (303)
- Seals–NBR, FKM, Ethylene Propylene, CR
- Sleeve Assembly–305 Stainless Steel (tube-flange), 430F Stainless Steel (stop)
- Plunger–430F Stainless Steel
- Manifold Body–Aluminum
- Flux Plate–Plated Steel
- Housing–Plated Steel
- Integrated Coil Encapsulant–Nylon

Compatible Fluids

- Air, inert gas, water, oil

Vacuum

- Up to 5 microns depending on application

Electrical Characteristics

Voltages

- DC–6, 12, 24
- AC–24, 50/60, 110/50-120/60, 220/50-240/60

Power Consumption

- 6 watts, 7.5 for 24/60
- 3 watts

Agency Approvals

- UL and CSA component recognition.

Miscellaneous

Maximum Ambient Temperature

- 68°F for continuous duty cycle.

Response Time

- 8 to 16 milliseconds to open or close.

Duty Cycle/Cycle Time

- Continuous duty, 600 cycles per minute.

Weight

- 8 oz.

Mounting

- Two 8-32 tapped holes in bottom of valve body supplied standard. A universal mounting bracket B19-006 is also available.

DIRECT ACTING BRASS AND STAINLESS STEEL VALVES–NORMALLY CLOSED

Pipe Size NPT	Body Orifice Size (inch)	Body Cv Factor	Sleeve Orifice Size (inch)	Sleeve Cv Factor	Maximum Operating Pressure Differential (PSI)		Brass Pressure Vessel Catalog Number	Stainless Steel Pressure Vessel Catalog Number
					6 watt	3 watt*		
1/8"	1/32	0.03	-	-	800	775	3121BBN1AN00	3121BSN1AN00
	3/64	0.05	-	-	500	300	3121BBN1EN00	3121BSN1EN00
	1/16	0.09	-	-	300	95	3121BBN1GN00	3121BSN1GN00
	5/64	0.13	-	-	200	65	3121BBN1JN00	3121BSN1JN00
	3/32	0.18	-	-	175	40	3121BBN1LN00	3121BSN1LN00
	1/8	0.24	-	-	100	4	3121BBN1NN00	3121BSN1NN00
	5/32	0.30	-	-	50	-	3121BBN1QN00	3121BSN1QN00

DIRECT ACTING BRASS AND STAINLESS STEEL VALVES–NORMALLY OPEN

Pipe Size NPT	Body Orifice Size (inch)	Body Cv Factor	Sleeve Orifice Size (inch)	Sleeve Cv Factor	Maximum Operating Pressure Differential (PSI)		Brass Pressure Vessel Catalog Number	Stainless Steel Pressure Vessel Catalog Number
					6 watt	3 watt*		
1/8"	-	-	1/32	0.03	300	-	3129BBN1AN00	3129BSN1AN00
	-	-	3/64	0.05	200	-	3129BBN1EN00	3129BSN1EN00
	-	-	1/16	0.09	150	-	3129BBN1GN00	3129BSN1GN00
	-	-	5/64	0.13	80	-	3129BBN1JN00	3129BSN1JN00
	-	-	3/32	0.18	40	-	3129BBN1LN00	3129BSN1LN00

Performance Ratings Apply to All Voltages, Coil Constructions, Seal and Body Materials.

** When ordering a pressure vessel with a 3 watt coil the second digit must be a 9. Example: 3921BBN1AN00 is a 2-way normally closed pressure vessel for use with 3 watt coils.*

MANIFOLD ASSEMBLED VALVES – NORMALLY CLOSED, COMMON INLET PRESSURE OVER SEAT

Body Orifice Size (inch)	Body Cv Factor	Sleeve Orifice Size (inch)	Sleeve Cv Factor	Maximum Operating Pressure Differential (PSI)		Cavity Manifold Assembly Catalog Number	Screw-In Manifold Assembly** Catalog Number
				6 watt	3 watt*		
3/64	0.05	-	-	500	300	3121BJA7ENC#	3121BSA6EN00
1/16	0.09	-	-	300	95	3121BJA7GNC#	3121BSA6GN00
1/8	0.24	-	-	100	4	-	3121BSA6NN00
5/32	0.30	-	-	50	-	-	3121BSA6QN00

MANIFOLD ASSEMBLED VALVES – NORMALLY OPEN, COMMON INLET PRESSURE OVER SEAT

Body Orifice Size (inch)	Body Cv Factor	Sleeve Orifice Size (inch)	Sleeve Cv Factor	Maximum Operating Pressure Differential (PSI)		Cavity Manifold Assembly Catalog Number	Screw-In Manifold Assembly** Catalog Number
				6 watt	3 watt*		
-	-	3/64	0.05	200	-	3129BJA7ENC#	3129BSA6EN00
-	-	1/16	0.09	150	-	3129BJA7GNC#	3129BSA6GN00
-	-	3/32	0.09	40	-	3129BJA7LNC#	3129BSA6LN00

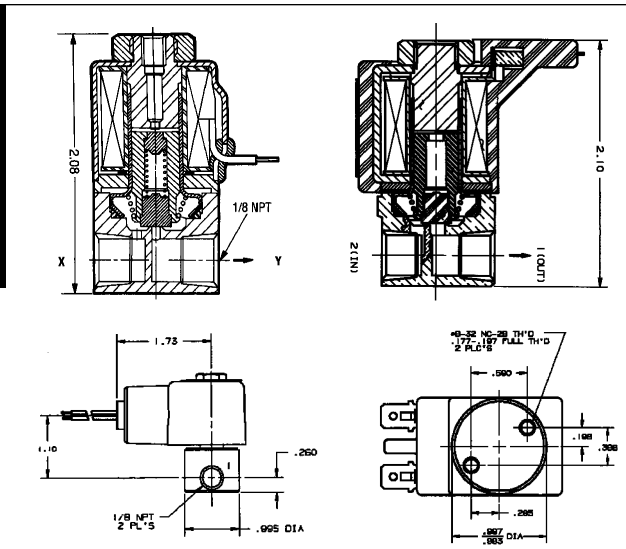
** When ordering a pressure vessel with a 3 watt coil the second digit must be a 9. Example: 3921BSA6EN00 is a 2-way normally closed pressure vessel for use with 3 watt coils. Performance Ratings Apply to All Voltages, Coil Constructions, Seal and Body Materials. Screw-in body available in stainless steel only.*

 # Denotes the number of valves in the manifold, from 2 to 4.

***Screw-in manifolds and valves sold separately.*
Kit #V1-22-028 available to join manifolds when more than 4 stations required.

Screw-In Manifolds	Common Port	Pressure Direction	Number of Stations		
			2	3	4
2WNC (3121)	Inlet	Over Seat	300-40-015	300-40-016	300-40-017

DRAWINGS



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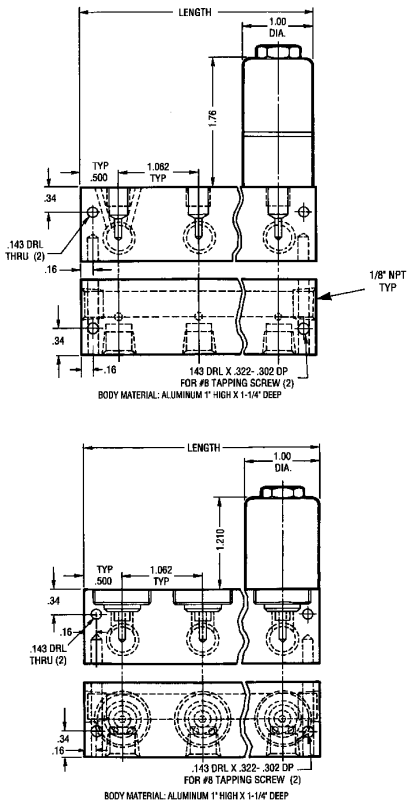

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