



SKINNER 7000 Series General Purpose Three-Way Direct Acting Valves

IN THIS SECTION :
7131, 7132, 7133, 7138

SPECIFICATIONS

Mechanical Characteristics

Standard Materials of Construction

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

Compatible Fluids

- Lubricated Air, Non-Lubricated Air, Inert Gases, Water, Hydraulic Fluids, Petroleum Products and additional fluids compatible with materials of construction. Use of non-lubricated gaseous media will substantially limit valve life.

Electrical Characteristics

Voltages

- DC—12, 24
- AC—24/60, 110/50-120/60, 220/50-240/60, (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 122.

Miscellaneous

Maximum Ambient Temperature

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

7131 DIRECT ACTING BRASS VALVES—NORMALLY CLOSED, PCTFE OR FKM 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		Min.				
							10 watt	22 watt					
FLG [^]	3/32		3/32	0.24	0.24	0	100		100	185	7131FBF4LV00	GP	36
1/8"	1/16		1/16	0.11	0.11	0	215		215	185	7131KBN1GV00	GP	37
	3/32		3/32	0.24	0.24	0	100		100	185	7131KBN1LV00	GP	37
1/4"	1/32		1/32	0.02	0.02	0	580		580	165	7131KBN2BF00	GP	37
	1/16		1/16	0.11	0.11	0	215		215	185	7131KBN2GV00	GP	37
	5/64		3/32	0.17	0.24	0	150		150	185	7131KBN2JV00	GP	37
	3/32		3/32	0.24	0.24	0	100		100	185	7131KBN2LV00	GP	37
	5/64	1/8		0.17	0.31	0	150		150	185	7131TBN2JV00	GP	38
	3/32	9/64		0.24	0.38	0	110		110	185	7131TBN2LV00	GP	38
	3/16	1/4		0.49	0.63	0	30		30	185	7131TBN2RV00	GP	38

[^] 2, 3 and 5 station subbases with 1/4" BSP common inlet port and 1/8" BSP outlet ports are available for use with D400 and D500 32mm DIN coils only. For details consult factory.



7000 Series General Purpose Three-Way Direct Acting Valves

7131 DIRECT ACTING STAINLESS STEEL VALVES—NORMALLY CLOSED, NBR OR FKM SEALS

'5' Family valves also available with FKM 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.	
						Maximum								
						Min.	AC Ratings		DC Ratings					
							10 watt	22 watt	10 watt					22 watt
1/8"	3/64		1/16	0.062	0.095	0	250		250	185	71315SN1EN00	GP	39	
	3/64		1/16	0.062	0.095	0	250		250	185	71315SN1ENU1	GP	39	
	1/16		1/16	0.11	0.095	0	200		200	185	71315SN1GN00	GP	39	
	1/16		1/16	0.11	0.095	0	200		200	185	71315SN1GNJ1	GP	39	
	3/32		3/32	0.17	0.17	0	125		125	185	71315SN1KN00	GP	39	
	3/32		3/32	0.17	0.17	0	125		125	185	71315SN1KNJ1	GP	39	
	1/8		3/32	0.23	0.17	0	90		90	185	71315SN1MN00	GP	39	
	1/8		3/32	0.23	0.17	0	90		90	185	71315SN1MNJ1	GP	39	
	3/16		3/32	0.38	0.17	0	25		25	185	71315SN1SN00	GP	39	
	3/16		3/32	0.38	0.17	0	25		25	185	71315SN1SNJ1	GP	39	
	1/4		3/32	0.67	0.17	0	vac		vac	185	71315SN1VNJ1	GP	39	
1/4"	3/64		1/16	0.062	0.095	0	250		250	185	71315SN2EN00	GP	39	
	3/64		1/16	0.062	0.095	0	250		250	185	71315SN2ENU1	GP	39	
	1/16		1/16	0.11	0.095	0	200		200	185	71315SN2GN00	GP	39	
	1/16		1/16	0.11	0.095	0	200		200	185	71315SN2GNJ1	GP	39	
	3/32		3/32	0.17	0.17	0	125		125	185	71315SN2KN00	GP	39	
	3/32		3/32	0.17	0.17	0	125		125	185	71315SN2KNJ1	GP	39	
	1/8		3/32	0.23	0.17	0	90		90	185	71315SN2MN00	GP	39	
	1/8		3/32	0.23	0.17	0	90		90	185	71315SN2MNJ1	GP	39	
	3/16		3/32	0.38	0.17	0	25		25	185	71315SN2SN00	GP	39	
	3/16		3/32	0.38	0.17	0	25		25	185	71315SN2SNJ1	GP	39	
	1/4		3/32	0.67	0.17	0	vac		vac	185	71315SN2VNJ1	GP	39	
	1/16	1/16		0.095	0.095	0	200		200	185	7131TVN2GV00	GP	40	
	5/64	5/64		0.18	0.18	0	150		150	185	7131TVN2JV00	GP	40	
	3/32	3/32		0.19	0.19	0	110		110	185	7131TVN2LV00	GP	40	
1/8	1/8		0.32	0.32	0	70		70	185	7131TVN2NV00	GP	40		

* Maximum fluid temperatures are provided for Class F coils. Valves with FKM seals (letter 'V' in the 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 122 for additional agency approval information.

DRAWINGS

MECHANICAL OPTION "J1" FOR TYPE 71315

MECHANICAL OPTION "M0"

#10-32 NF TH'D x .25 DP 2 PLC'S

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

#39

#8-32 UNC TH'D x .18 DP 2 PLC'S

MECHANICAL OPTION "M0"

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

#40



7000 Series General Purpose Three-Way Direct Acting Valves

7133 DIRECT ACTING STAINLESS STEEL VALVES—MULTIPURPOSE, NBR OR FKM SEALS

'5' family valves also available with FKM 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.
						Maximum							
						AC Ratings		DC Ratings					
1/8"	1/32		1/32	0.024	0.024	0	400		400	185	71335SN1ANJ1	GP	121
	3/64		3/64	0.052	0.052	0	180		180	185	71335SN1ENJ1	GP	121
	1/16		1/16	0.095	0.095	0	115		115	185	71335SN1GNJ1	GP	121
	3/32		3/32	0.17	0.17	0	80		80	185	71335SN1KNJ1	GP	121
1/4"	1/32		1/32	0.024	0.024	0	400		400	185	71335SN2ANJ1	GP	121
	3/64		3/64	0.052	0.052	0	180		180	185	71335SN2ENJ1	GP	121
	1/16		1/16	0.095	0.095	0	115		115	185	71335SN2GNJ1	GP	121
	3/32		3/32	0.17	0.17	0	80		80	185	71335SN2KNJ1	GP	121
	1/16	1/16		0.095	0.095	0	150		150	185	7133TVN2GV00	GP	123
	5/64	5/64		0.18	0.18	0	100		100	185	7133TVN2JV00	GP	123
	3/32	3/32		0.19	0.19	0	60		60	185	7133TVN2LV00	GP	123
	1/8	1/8		0.32	0.32	0	30		30	185	7133TVN2NV00	GP	123

DRAWINGS

MECHANICAL OPTION "JT" FOR TYPE 71315

MECHANICAL OPTION "MO"

#10-32 NF x .25 DP 2 PLC'S

1 = NC, 2 = Common, 3 = NO

#8-32 UNC TH'D x .18 DP 2 PLC'S

MECHANICAL OPTION "MO"

#10-32 NF x .25 DP 2 PLC'S

1 = NC, 2 = Common, 3 = NO