

SKINNER 7000 Series General Purpose Three-Way Pilot Operated Valves

IN THIS SECTION :
7331, 7332, 7338, 7433

SPECIFICATIONS

Mechanical Characteristics

Standard Materials of Construction

- Body—Brass
- Seals—NBR
- Diaphragm Seal—NBR/PTFE
- 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

- 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

7331 PILOT OPERATED BRASS VALVES—NORMALLY CLOSED, NBR SEALS

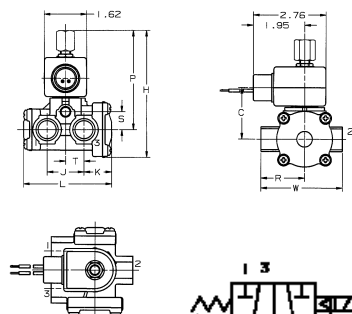
Pipe Size NPT	Orifice Body NC (inch)	Orifice Body NO (inch)	Cv Factor NC	Cv Factor NO	Operating Pressure Differential (PSI)					Max. Fluid Temp. (F)	Pressure Vessel Catalog Number	UL/CSA** Approval	Const. Ref.
					Min.*	Maximum							
						AC Ratings		DC Ratings					
						10 watt	22 watt	10 watt	22 watt				
3/8"	3/8	3/8	2.1	2.1	10	180		180		185	73312BN3RNJ0	GP	41
	3/8	3/8	2.1	2.1	10	180		180		185	73312BN3RNJ1	GP	42
1/2"	1/2	1/2	3.6	3.6	10	180		180		185	73312BN4UNJ0	GP	41
	1/2	1/2	3.6	3.6	10	180		180		185	73312BN4UNJ1	GP	42
3/4"	3/4	3/4	7.3	7.3	10	180		180		185	73312BN52NJ0	GP	43
	3/4	3/4	7.3	7.3	10	180		180		185	73312BN52NJ1	GP	44

DRAWINGS

Valve	Dimension										
	H	P	C	L	W	S	T	R	J	K	
73312BN3RNJ1	4.89	3.98	1.96	2.97	2.62	0.65	0.59	1.44	1.22	0.91	
73312BN4UNJ1	5.10	4.08	2.08	3.38	3.09	0.78	0.69	1.66	1.44	1.06	



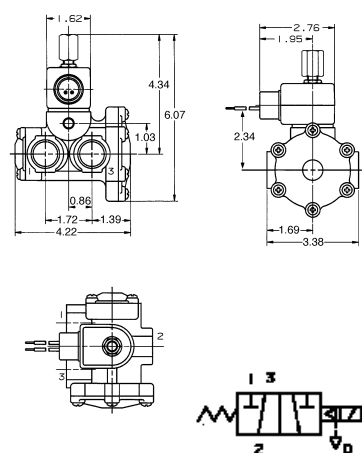
#42



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



#44



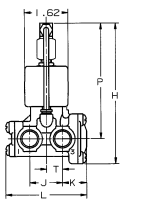
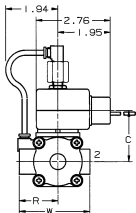
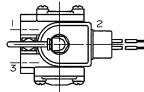
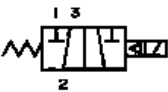
Port Identification:
1-Pressure/ 2-Cylinder/ 3-Exhaust

Solenoid Valves for Automation

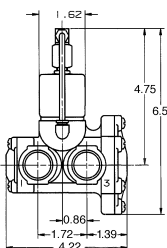
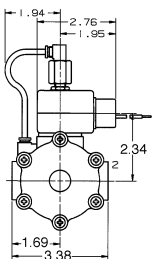
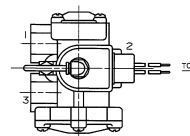
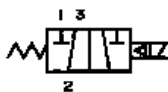
7000 Series General Purpose Three-Way Pilot Operated Valves

DRAWINGS

Valve	Dimension										
	H	P	C	L	W	T	R	J	K		
73312BN3RNJO	5.34	4.41	1.96	2.97	2.62	0.59	1.44	1.22	0.91		
73312BN4UNJO	5.62	4.56	2.08	3.38	3.09	0.69	1.66	1.41	1.06		

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

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

Solenoid Valves for Automation



7000 Series General Purpose Three-Way Pilot Operated Valves

7332 PILOT OPERATED BRASS VALVES – NORMALLY OPEN, 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
3/8"	3/8	3/8	2.1	2.1	10	180		180	185	73322BN3RNJ0	GP	124	
	3/8	3/8	2.1	2.1	10	180		180	185	73322BN3RNJ1	GP	125	
1/2"	1/2	1/2	3.6	3.6	10	180		180	185	73322BN4UNJ0	GP	124	
	1/2	1/2	3.6	3.6	10	180		180	185	73322BN4UNJ1	GP	125	
3/4"	3/4	3/4	7.3	7.3	10	180		180	185	73322BN52NJ0	GP	128	
	3/4	3/4	7.3	7.3	10	180		180	185	73322BN52NJ1	GP	129	

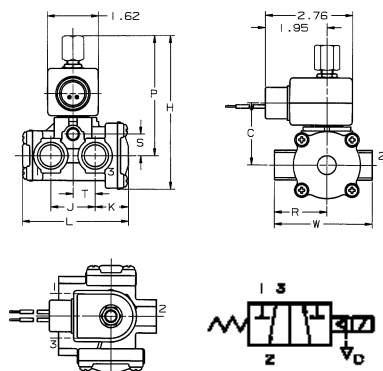
DRAWINGS

Valve	Dimension									
	H	P	C	L	W	S	T	R	J	K

73322BN3RNJ1	4.89	3.98	1.96	2.97	2.62	0.65	0.59	1.44	1.22	0.91
73322BN4UNJ1	5.10	4.08	2.08	3.38	3.09	0.78	0.69	1.66	1.44	1.06



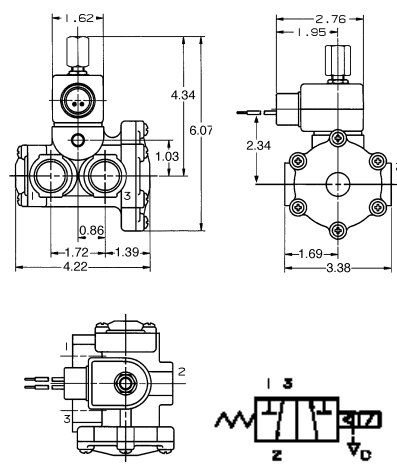
#125



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



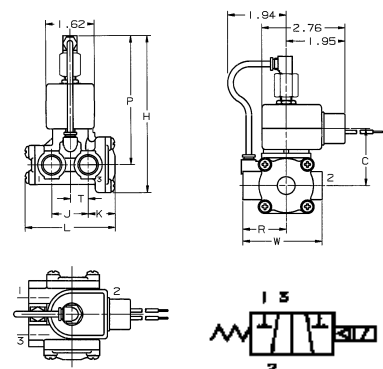
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Port Identification:
1-Exhaust/ 2-Cylinder/ 3-Pressure



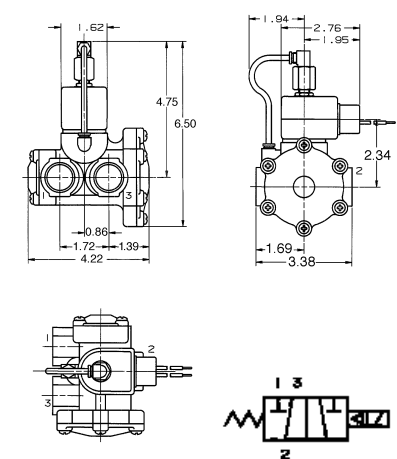
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Port Identification:
1-Exhaust/ 2-Cylinder/ 3-Pressure



#128



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

Three-Way Solenoid Valves

Solenoid Valves for Automation

7000 Series General Purpose Three-Way Pilot
 Operated Valves

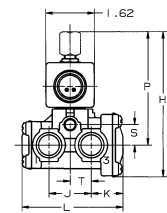
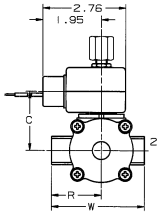
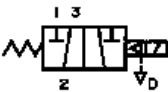
7338 PILOT OPERATED BRASS VALVES – DIVERTING, NBR SEALS

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		10 watt					22 watt
						AC Ratings							
						10 watt	22 watt	10 watt	22 watt				
3/8"	3/8	3/8	2.1	2.1	10	180		180		185	73382BN3RNJ1	GP	126
1/2"	1/2	1/2	3.6	3.6	10	180		180		185	73382BN4UNJ1	GP	126
3/4"	3/4	3/4	7.3	7.3	10	180		180		185	73382BN52NJ1	GP	130

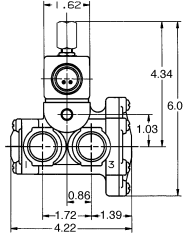
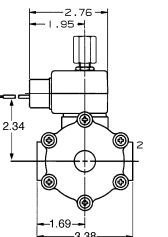
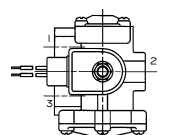
* Pilot operated valves require the minimum pressure differential specified for proper valve operation.
 ** UL/CSA Approval Information: GP=General Purpose Blank=Not Approved See page 122 for additional agency approval information.

DRAWINGS

Valve	Dimension										
	H	P	C	L	W	S	T	R	J	K	
73382BN3RNJ1	4.89	3.98	1.96	2.97	2.62	0.65	0.59	1.44	1.22	0.91	
73382BN4UNJ1	5.10	4.08	2.08	3.38	3.09	0.78	0.69	1.66	1.44	1.06	

Port Identification:
1-NC/ 2-IN/ 3-NO

Port Identification:
1-NC/ 2-IN/ 3-NO