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General Purpose Solenoid Valves

Skinner™ and Gold Ring™ Valves

Effective September 2011



ENGINEERING YOUR SUCCESS.



2-Way

Direct Lift, Pilot & Remote Operated Valves
1/4"–2" NPT



2-Way

General Description:

2-Way Direct Lift, Pilot & Remote Operated valves are designed for higher flow and medium to high pressure applications. Pilot operated valves require the minimum pressure differential specified for proper valve operation.

Installation

Valves should be mounted with solenoid coil vertical and upright.

Standard Materials of Construction

Please refer to page A55

Compatible Fluids

Lubricated Air, Inert Gases, Water and Light Oil (300 SSU). Additional fluids compatible with alternate materials of construction (consult factory).

Use of non-lubricated gaseous media can affect valve life.

Electrical Characteristics:

Standard Voltages:

AC –24/60

120/60–110/50

240/60–220/50

DC –12, 24 & 120

For other voltages – consult factory

Coil Classification:

Class F standard

Class H available



Agency Approvals:

Standard valves with NEMA 4X or explosion proof solenoid enclosures are UL Listed and CSA Certified. For additional details, consult factory.

Maximum Ambient Temperature

150°F

Please refer to page A55 for details.

Applications:

- Irrigation systems
- Fire suppression equipment
- Molding equipment
- Cooling of machine tools
- Sterilizers
- Car wash
- Water treatment and purification
- Air compressors and dryers
- Floor cleaning equipment
- Hospital equipment
- Automated systems
- Food processing

2-Way Internal Pilot Operated - Normally Closed - Brass

Port Size NPT	Orifice Size in.	Flow Factor Cv	Operating Pressure Differential (MOPD) PSI				Watt	Max. Media Temp. °F	Seal	Pressure Vessel Number	Reference	
			Min.	Air, Inert Gas	Water	Light Oil					Coil	Valve
AC TECHNICAL SPECIFICATIONS												
1/4	1/4	0.76	5	300	300	300	10	185	NBR	73212BN2MN00	7	A35
1/4	11/32	1.20	5	300	300	300	6	180	NBR	04F25C2122CAF	1	A54
1/4	7/16	2.00	3	150	150	150	10	185	NBR	7321KBN2RN00	7	A46
3/8	11/32	1.20	5	300	300	300	6	180	NBR	06F25C2122CAF	1	A54
3/8	1/2	2.40	5	300	300	300	10	185	NBR	73212BN3SN00	7	A32
3/8	7/16	2.50	3	150	150	150	10	185	NBR	7321KBN3SN00	7	A46
3/8	5/8	3.00	5	300	300	300	16	175	NBR	06F22C2140ADF	5	A22
3/8	1/2	3.00	1	300	235	235	11	180	NBR	06F25C2132ACF	4	A21
3/8	5/8	3.00	5	200	135	135	6	180	NBR	06F22C2140AAF	1	A23
3/8	5/8	3.00	5	150	150	150	10	185	NBR	73218BN3TN00	7	A43
3/8	5/8	3.00	0	150	150	150	11	180	NBR	06F23C2140ACF*	4	A22
3/8	5/8	3.00	0	100	100	100	10	185	NBR	72218BN3TN00*	7	A36
3/8	19/32	4.40	0	230	230	230	10	185	NBR	7221GBN3VN00*	7	A47
1/2	7/16	2.50	3	150	150	150	10	185	NBR	7321KBN4SN00	7	A46
1/2	1/2	2.80	5	300	300	300	10	185	NBR	73212BN4TN00	7	A32
1/2	1/2	3.60	1	300	235	235	11	180	NBR	08F25C2132ACF	4	A21
1/2	5/8	4.00	5	300	300	300	16	175	NBR	08F22C2140ADF	5	A22
1/2	5/8	4.00	5	250	220	220	11	180	NBR	08F22C2140ACF	4	A22
1/2	5/8	4.00	5	200	135	135	6	180	NBR	08F22C2140AAF	1	A23
1/2	5/8	4.00	5	150	150	150	10	185	NBR	73218BN4UN00	7	A43
1/2	5/8	4.00	0	150	150	150	11	180	NBR	08F23C2140ACF*	4	A22
1/2	5/8	4.00	0	100	100	100	10	185	NBR	72218BN4UN00*	7	A36
1/2	19/32	4.40	0	230	230	230	10	185	NBR	7221GBN4VN00*	7	A47
3/4	3/4	5.00	5	150	150	150	10	185	NBR	73218BN5VN00	7	A43
3/4	3/4	5.00	0	150	150	150	11	180	NBR	12F23C2148ACF*	4	A25
3/4	3/4	5.00	5	125	125	125	6	180	NBR	12F22C2148AAF	1	A24
3/4	3/4	5.00	0	100	100	100	10	185	NBR	72218BN5VN00*	7	A36
3/4	19/32	5.50	0	230	230	230	10	185	NBR	7221GBN51N00*	7	A47
3/4	3/4	6.50	5	250	150	250	6	180	NBR	12F24C2148AAF	1	A27
3/4	3/4	7.30	5	300	300	300	10	185	NBR	73212BN52N00	7	A33
3/4	3/4	7.40	1	300	235	235	11	180	NBR	12F25C2148ACF	4	A28
3/4	25/32	9.60	5	230	230	230	10	185	NBR	7321GBN53N00	7	A48

*Direct Lift Valves (0 minimum pressure differential) will open at zero differential pressure, however, full flow through the valve will be achieved at approximately 5 psi differential.

2-Way Internal Pilot Operated - Normally Closed - Brass (Continued)

Port Size NPT	Orifice Size in.	Flow Factor Cv	Operating Pressure Differential (MOPD) PSI				Watt	Max. Media Temp. °F	Seal	Pressure Vessel Number	Reference	
			Min.	Air, Inert Gas	Water	Light Oil					Coil	Valve
AC TECHNICAL SPECIFICATIONS												
1	19/32	5.50	0	230	230	230	10	185	NBR	7221GBN61N00*	7	A47
1	1	11.0	5	300	300	300	10	185	NBR	73212BN63N00	7	A33
1	1	11.7	0	230	230	230	10	185	NBR	7221GBN64N00*	7	A47
1	1	12.2	1	300	300	-	11	180	NBR	16F25C2164ACF	4	A30
1	1	12.5	5	230	230	230	10	185	NBR	7321GBN64N00	7	A48
1	1	13.0	5	150	150	100	6	180	NBR	16F24C2164AAF	1	A29
1	1 1/16	13.5	5	125	125	125	10	185	NBR	73218BN64N00	7	A44
1 1/4	1 1/8	15.0	5	150	150	100	6	180	NBR	20F24C2172AAF	1	A29
1 1/4	1 1/8	15.0	5	125	125	125	10	185	NBR	73218BN75N00	7	A44
1 1/4	1 1/8	19.3	5	230	230	230	10	185	NBR	7321GBN76N00	7	A48
1 1/4	1 9/16	29.0	5	230	230	230	10	185	NBR	7321GBN88N00	7	A48
1 1/2	1 1/4	22.5	5	150	150	100	6	180	NBR	24F24C2180AAF	1	A31
1 1/2	1 1/4	22.5	5	125	125	125	10	185	NBR	73218BN87N00	7	A42
2	1 9/16	38.6	5	230	230	230	10	185	NBR	7321GBN99N00	7	A48

*Direct Lift Valves (0 minimum pressure differential) will open at zero differential pressure, however, full flow through the valve will be achieved at approximately 5 psi differential.