2-Way

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

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

Parker Hannifin Corporation
Fluid Control Division
1 800 825 8305 (1 800 Valve05)
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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.**

Parker Hannifin Corporation
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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.**

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
DC 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	275	275	275	11.5	150	NBR	04F25C2122C3F	6	A54
1/4	7/16	2.00	3	150	150	150	22	185	NBR	7321KBN2RN00	8	A46
1/4	7/16	2.00	3	60	60	60	10	185	NBR	7321KBN2RN00	7	A46
3/8	11/32	1.20	5	275	275	275	11.5	150	NBR	06F25C2122C3F	6	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	22	185	NBR	7321KBN3SN00	8	A46
3/8	7/16	2.50	3	60	60	60	10	185	NBR	7321KBN3SN00	7	A46
3/8	5/8	3.00	5	150	150	150	10	185	NBR	73218BN3TN00	7	A43
3/8	1/2	3.00	1	130	130	130	11.5	150	NBR	06F25C2132A3F	6	A21
3/8	5/8	3.00	5	125	100	100	11.5	150	NBR	06F22C2140A3F	6	A22
3/8	5/8	3.00	0	40	40	40	22	185	NBR	72218BN3TN00*	8	A36
3/8	5/8	3.00	0	40	40	-	11.5	150	NBR	06F23C2140A3F*	6	A22
3/8	19/32	4.40	0	100	100	100	22	185	NBR	7221GBN3VN00*	8	A47
1/2	7/16	2.50	3	150	150	150	22	185	NBR	7321KBN4SN00	8	A46
1/2	7/16	2.50	3	60	60	60	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	130	130	130	11.5	150	NBR	08F25C2132A3F	6	A21
1/2	5/8	4.00	5	150	150	150	10	185	NBR	73218BN4UN00	7	A43
1/2	5/8	4.00	5	125	100	100	11.5	150	NBR	08F22C2140A3F	6	A22
1/2	5/8	4.00	0	40	40	40	22	185	NBR	72218BN4UN00*	8	A36
1/2	5/8	4.00	0	40	40	-	11.5	150	NBR	08F23C2140A3F*	6	A22
1/2	19/32	4.40	0	100	100	100	22	185	NBR	7221GBN4VN00*	8	A47
3/4	3/4	5.00	5	150	150	150	10	185	NBR	73218BN5VN00	7	A43
3/4	3/4	5.00	5	100	90	75	11.5	180	NBR	12F22C2148A3F	6	A25
3/4	3/4	5.00	0	40	40	40	22	185	NBR	72218BN5VN00*	8	A36
3/4	3/4	5.00	0	40	40	-	11.5	150	NBR	12F23C2148A3F*	6	A25
3/4	19/32	5.50	0	100	100	100	22	185	NBR	7221GBN51N00*	8	A47
3/4	3/4	6.50	5	125	125	125	11.5	150	NBR	12F24C2148A3F	6	A26
3/4	3/4	7.30	5	300	300	300	10	185	NBR	73212BN52N00	7	A33
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.**

Parker Hannifin Corporation
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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
DC TECHNICAL SPECIFICATIONS												
1	19/32	5.50	0	100	100	100	22	185	NBR	7221GBN61N00*	8	A47
1	1	11.0	5	300	300	300	10	185	NBR	73212BN63N00	7	A33
1	1	11.7	0	85	85	85	22	185	NBR	7221GBN64N00*	8	A47
1	1	12.2	1	275	275	275	11.5	180	NBR	16F25C2164A3F	6	A30
1	1	12.5	5	230	230	230	10	185	NBR	7321GBN64N00	7	A48
1	1	13.0	5	125	125	125	11.5	150	NBR	16F24C2164A3F	6	A29
1	1 1/16	13.5	5	125	125	125	10	185	NBR	73218BN64N00	7	A44
1 1/4	1 1/8	19.3	5	230	230	230	10	185	NBR	7321GBN76N00	7	A48
1 1/4	1 1/8	15.0	5	125	125	125	11.5	150	NBR	20F24C2172A3F	6	A29
1 1/4	1 1/8	15.0	5	125	125	125	10	185	NBR	73218BN75N00	7	A44
1 1/2	1 1/4	22.5	5	125	125	125	11.5	150	NBR	24F24C2180A3F	6	A31
1 1/2	1 1/4	22.5	5	125	125	125	10	185	NBR	73218BN87N00	7	A42
1 1/2	1 9/16	29.0	5	230	230	230	22	185	NBR	7321GBN88N00	8	A48
1 1/2	1 9/16	29.0	5	200	200	200	10	185	NBR	7321GBN88N00	7	A48
2	1 9/16	38.6	5	230	230	230	22	185	NBR	7321GBN99N00	8	A48
2	1 9/16	38.6	5	200	200	200	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.**

2-Way Internal Pilot Operated - Normally Closed - Stainless Steel

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	73212SN2MN00	7	A38
3/8	5/8	3.00	5	300	300	300	16	175	NBR	06F22C6140ADF	5	A22
3/8	5/8	3.00	0	150	150	150	11	180	NBR	06F23C6140ACF*	4	A22
3/8	5/8	3.00	0	100	100	100	10	185	FKM	72218RN3TV00*	7	A36
1/2	1/2	4.00	5	300	300	300	16	175	NBR	08F22C6140ADF	5	A22
1/2	1/2	4.00	0	150	150	150	11	180	NBR	08F23C6140ACF*	4	A22
1/2	5/8	4.00	0	100	100	100	10	185	FKM	72218RN4UV00*	7	A36
3/4	3/4	5.00	5	300	300	300	16	175	NBR	12F22C6148ADF	5	A25
3/4	3/4	5.00	0	150	150	150	11	180	NBR	12F23C6148ACF*	4	A25
3/4	3/4	5.00	0	100	100	100	10	185	FKM	72218RN5VV00*	7	A36
1	1	13.00	5	150	150	100	6	180	NBR	16F24C6164AAF	1	A29
1 1/2	1 1/4	22.50	5	150	150	100	6	180	NBR	24F24C6180AAF	1	A31
DC TECHNICAL SPECIFICATIONS												
1/4	1/4	0.76	5	300	300	300	10	185	NBR	73212SN2MN00	7	A38
3/8	5/8	3.00	5	125	100	100	11.5	150	NBR	06F22C6140A3F	6	A22
3/8	5/8	3.00	0	40	40	40	22	185	FKM	72218RN3TV00*	8	A36
3/8	5/8	3.00	0	40	40	-	11.5	150	NBR	06F23C6140A3F*	6	A22
1/2	1/2	4.00	5	125	100	100	11.5	150	NBR	08F22C6140A3F	6	A22
1/2	5/8	4.00	0	40	40	40	22	185	FKM	72218RN4UV00*	8	A36
1/2	1/2	4.00	0	40	40	-	11.5	150	NBR	08F23C6140A3F*	6	A22
3/4	3/4	5.00	5	100	90	75	11.5	150	NBR	12F22C6148A3F	6	A25
3/4	3/4	5.00	0	40	40	40	22	185	FKM	72218RN5VV00*	8	A36
3/4	3/4	5.00	0	40	40	-	11.5	150	NBR	12F23C6148A3F*	6	A25
1	1	13.00	5	125	125	125	11.5	150	NBR	16F24C6164A3F	6	A29
1 1/2	1 1/4	22.50	5	125	125	125	11.5	150	NBR	24F24C6180A3F	6	A31

***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.**

Parker Hannifin Corporation
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2-Way Internal Pilot Operated - Normally Open - 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	200	200	200	10	185	NBR	73222BN2MN00	7	A35
1/4	11/32	1.20	5	300	300	300	11	180	NBR	04F25O2122CCF	4	A54
3/8	1/2	2.40	5	200	200	200	10	185	NBR	73222BN3SN00	7	A49
3/8	1/2	3.00	1	200	175	175	11	180	NBR	06F25O2132ACF	4	A21
3/8	5/8	3.00	0	150	150	150	11	150	NBR	06F23O2140ACF*	4	A51
3/8	5/8	3.00	5	150	150	150	10	185	NBR	73228BN3TN00	7	A40
3/8	5/8	3.00	0	125	125	125	22	185	FKM	72228BN3TV00*	8	A37
1/2	1/2	2.80	5	200	200	200	10	185	NBR	73222BN4TN00	7	A49
1/2	1/2	3.60	1	200	175	175	11	180	NBR	08F25O2132ACF	4	A21
1/2	5/8	4.00	5	150	150	150	10	185	NBR	73228BN4UN00	7	A40
1/2	5/8	4.00	0	150	150	150	11	150	NBR	08F23O2140ACF*	4	A51
1/2	1/2	4.00	0	125	125	125	22	185	FKM	72228BN4UV00*	8	A37
3/4	3/4	5.00	5	150	150	150	10	185	NBR	73228BN5VN00	7	A40
3/4	3/4	5.00	0	125	125	125	22	185	FKM	72228BN5VV00*	8	A37
3/4	3/4	5.50	0	150	150	150	11	180	NBR	12F23O2148ACF*	4	A52
3/4	3/4	6.50	5	250	200	200	11	180	NBR	12F24O2148ACF	4	A26
3/4	3/4	7.30	5	200	200	200	10	185	NBR	73222BN52N00	7	A50
3/4	3/4	7.40	1	275	275	275	11	180	NBR	12F25O2148ACF	4	A28
3/4	25/32	9.60	5	230	230	230	10	185	NBR	7322GBN53N00	7	A48
1	1	11.00	5	200	200	200	10	185	NBR	73222BN63N00	7	A50
1	1	12.20	1	300	250	230	11	180	NBR	16F25O2164ACF	4	A30
1	1	12.50	5	230	230	230	10	185	NBR	7322GBN64N00	7	A48
1	1	13.00	5	125	125	125	11	180	NBR	16F24O2164ACF	4	A29
1	1 1/16	13.50	5	125	125	125	10	185	NBR	73228BN64N00	7	A41
1 1/4	1 1/8	15.00	5	125	125	125	11	180	NBR	20F24O2172ACF	4	A29
1 1/4	1 1/8	15.00	5	125	125	125	10	185	NBR	73228BN75N00	7	A41
1 1/4	1 1/8	19.30	5	230	230	230	10	185	NBR	7322GBN76N00	7	A48
1 1/2	1.25	22.50	5	125	125	125	11	180	NBR	24F24O2180ACF	4	A31
1 1/2	1.25	22.50	5	125	125	125	10	185	NBR	73228BN87N00	7	A42
1 1/2	1 9/16	29.00	5	170	170	170	10	185	NBR	7322GBN88N00	7	A48
2	1 9/16	38.60	5	170	170	170	10	185	NBR	7322GBN99N00	7	A48

***See note on A32.**

2-Way Internal Pilot Operated - Normally Open - 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
DC TECHNICAL SPECIFICATIONS												
1/4	1/4	0.76	5	200	200	200	10	185	NBR	73222BN2MN00	7	A35
1/4	11/32	1.20	5	160	160	160	11.5	150	NBR	04F25O2122C3F	6	A54
3/8	1/2	2.40	5	200	200	200	10	185	NBR	73222BN3SN00	7	A49
3/8	5/8	3.00	5	150	150	150	10	185	NBR	73228BN3TN00	7	A40
3/8	5/8	3.00	0	125	125	80	11.5	150	NBR	06F23O2140A3F*	6	A51
3/8	5/8	3.00	0	125	125	125	22	185	FKM	72228BN3TV00*	8	A37
1/2	1/2	2.80	5	200	200	200	10	185	NBR	73222BN4TN00	7	A49
1/2	5/8	4.00	5	150	150	150	10	185	NBR	73228BN4UN00	7	A40
1/2	1/2	4.00	0	125	125	125	22	185	FKM	72228BN4UV00*	8	A37
1/2	5/8	4.00	0	125	125	80	11.5	150	NBR	08F23O2140A3F*	6	A51
1/2	1/2	12.70	5	200	175	175	11.5	180	NBR	08F25O2132C3F	6	A21
3/4	3/4	5.00	5	150	150	150	10	185	NBR	73228BN5VN00	7	A40
3/4	3/4	5.00	0	125	125	125	22	185	FKM	72228BN5VV00*	8	A37
3/4	3/4	5.50	0	125	125	80	11.5	150	NBR	12F23O2148A3F*	6	A52
3/4	3/4	7.30	5	200	200	200	10	185	NBR	73222BN52N00	7	A50
3/4	25/32	9.60	5	230	230	230	10	185	NBR	7322GBN53N00	7	A48
1	1	11.00	5	200	200	200	10	185	NBR	73222BN63N00	7	A50
1	1	12.50	5	230	230	230	10	185	NBR	7322GBN64N00	7	A48
1	1	13.00	5	125	125	125	11.5	180	NBR	16F24O2164A3F	6	A29
1	1 1/16	13.50	5	125	125	125	10	185	NBR	73228BN64N00	7	A41
1 1/4	1 1/8	15.00	5	125	125	125	10	185	NBR	73228BN75N00	7	A41
1 1/4	1 1/8	19.30	5	230	230	230	10	185	NBR	7322GBN76N00	7	A48
1 1/2	1 1/4	22.50	5	125	125	125	11.5	180	NBR	24F24O2180A3F	6	A31
1 1/2	1 1/4	22.50	5	125	125	125	10	185	NBR	73228BN87N00	7	A42
1 1/2	1 9/16	29.00	5	170	170	170	10	185	NBR	7322GBN88N00	7	A48
2	1 9/16	38.60	5	170	170	170	10	185	NBR	7322GBN99N00	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.**

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2-Way Internal Pilot Operated - Normally Open - Stainless Steel

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	200	200	200	10	185	NBR	73222SN2MN00	7	A39
3/8	5/8	3.00	0	150	150	150	11	175	NBR	06F23O6140ACF*	4	A51
3/8	5/8	3.00	0	125	125	125	22	185	FKM	72228RN3TV00*	8	A37
1/2	1/2	4.00	0	150	150	150	11	175	NBR	08F23O6140ACF*	4	A51
1/2	1/2	4.00	0	125	125	125	22	185	FKM	72228RN4UV00*	8	A37
3/4	3/4	5.00	0	150	150	150	11	175	NBR	12F23O6148ACF*	4	A52
3/4	3/4	5.00	0	125	125	125	22	185	FKM	72228RN5VV00*	8	A37
1	1	13.00	5	125	125	125	11	180	NBR	16F24O6164ACF	4	A29
1 1/2	1 1/4	22.50	5	125	125	125	11	180	NBR	24F24O6180ACF		A31
DC TECHNICAL SPECIFICATIONS												
1/4	1/4	0.76	5	200	200	200	10	185	NBR	73222SN2MN00	7	A39
3/8	5/8	3.00	0	125	125	125	22	185	FKM	72228RN3TV00*	8	A37
3/8	5/8	3.00	0	125	125	80	11.5	150	NBR	06F23O6140A3F*	6	A51
1/2	1/2	4.00	0	125	125	125	22	185	FKM	72228RN4UV00*	8	A37
1/2	1/2	4.00	0	125	125	80	11.5	150	NBR	08F23O6140A3F*	6	A51
3/4	3/4	5.00	0	125	125	125	22	185	FKM	72228RN5VV00*	8	A37
3/4	3/4	5.00	0	125	125	80	11.5	150	NBR	12F23O6148A3F*	6	A52
1	1	13.00	5	125	125	125	11.5	150	NBR	16F24O6164A3F	6	A29
1 1/2	1 1/4	22.50	5	125	125	125	11.5	150	NBR	24F24O6180A3F	6	A31

***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 External Pilot Operated* - Universal - 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												
3/8	1/2	2.40	0	150	150	150	10	185	NBR	74232BN3SNJ1	7	A45
1/2	1/2	2.80	0	150	150	150	10	185	NBR	74232BN4TNJ1	7	A45
3/4	3/4	7.30	0	150	150	150	10	185	NBR	74232BN52NJ1	7	A34
1	1	11.00	0	150	150	150	10	185	NBR	74232BN63NJ1	7	A34
DC TECHNICAL SPECIFICATIONS												
3/8	1/2	2.40	0	150	150	150	10	185	NBR	74232BN3SNJ1	7	A45
1/2	1/2	2.80	0	150	150	150	10	185	NBR	74232BN4TNJ1	7	A45
3/4	3/4	7.30	0	150	150	150	10	185	NBR	74232BN52NJ1	7	A34
1	1	11.00	0	150	150	150	10	185	NBR	74232BN63NJ1	7	A34

***External pilot pressure valves require a minimum external pilot pressure equal to the main line pressure plus 10 psi. Maximum external pilot pressure is 145 psi for vacuum applications and 160 psi for pressure applications. (Pressure ratings may be reduced, however. Consult factory for details.)**

2-Way Remote Pressure Operated Valves - Universal - Brass, NBR Seals

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
3/8	1/2	2.4	0	190	190	190	--	185		75232BN3SN00	-	A55
1/2	1/2	2.8	0	190	190	190	--	185		75232BN4TN00	-	A55
3/4	3/4	7.3	0	190	190	190	--	185		75232BN52N00	-	A55

2-Way Remote Operated Valve Port Connections

Valve Type	Main Line Supply	Remote Control Valve Hookup			3-Way Pilot Valve Hookup		
		IN Port	OUT Port	Pilot Inlet Port 1/8" NPT	Normally Closed Port	Normally Open Port	Common Port
Normally Open	0-190 PSIG	IN	OUT	Common Port of 3-Way Pilot Valve	Main Line Pressure +10 PSI Min.	Pilot Exhaust	Pilot IN Port (1/8" NPT) of Remote Control Valve
Normally Open	Vacuum	Non-Vacuum Pump	Vacuum Pump		Main Line Pressure +10 PSI Min.	Vacuum	
Normally Closed	0-190 PSIG	IN	OUT				
Normally Closed	Vacuum	Non-Vacuum Pump	Vacuum Pump				

*** To assure long, trouble free life, the Pilot IN to main pressure differential should not exceed 200 PSIG.**
NOTE: This valve is its normal state, without piloting, is normally open.
NOTE: These vavles do not have an electrical operator, therefore, No enclosure and/or coil selection is required.

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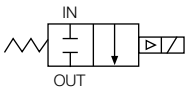
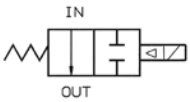
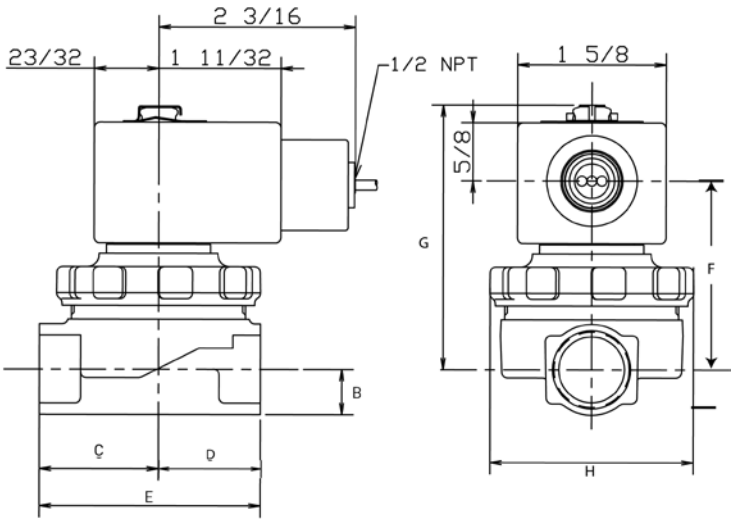
Valve Reference A21



2-Way Normally Closed
06F25C, 08F25C

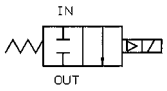


2-Way Normally Open
06F25O, 08F25O
Port Identification:
In-In/Out-Out

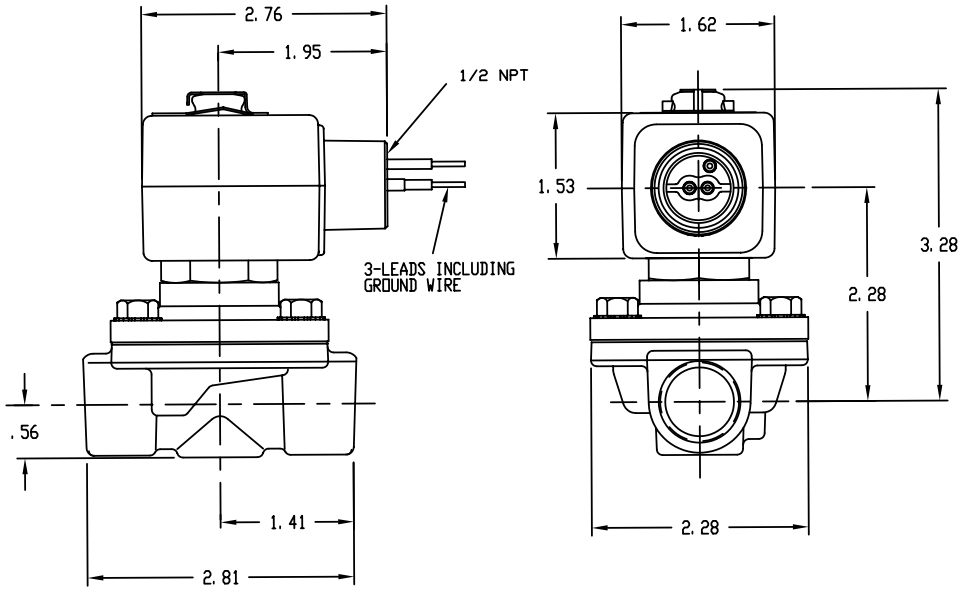


Valve	Dimensions						
	B	C	D	E	F	G	H
06F25C2132ACF 08F25C2132ACF 06F25C2132A3F 08F25C2132A3F	1/2	1 5/16	1 1/8	2 7/16	2 5/16	2 29/32	2 1/4
06F25O2132ACF 08F25O2132ACF 08F25O2132A3F	1/2	1 5/16	1 1/8	2 7/16	2 7/32	2 29/32	2 1/4

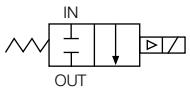
Valve Reference A22



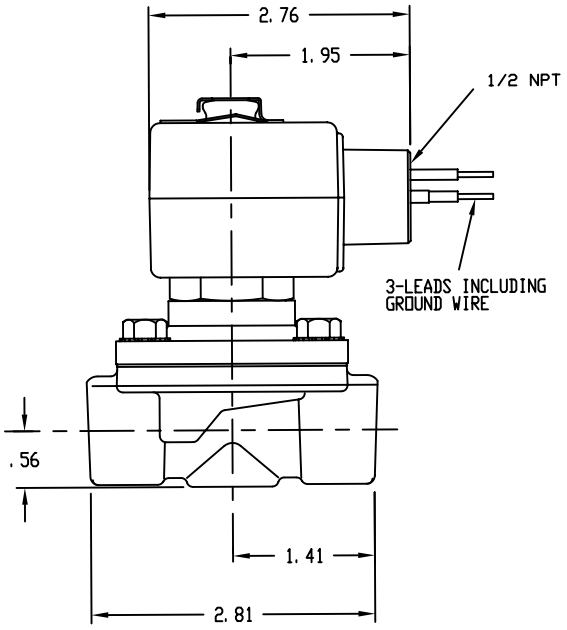
2-Way Normally Closed
Port Identification:
In-In/Out-Out

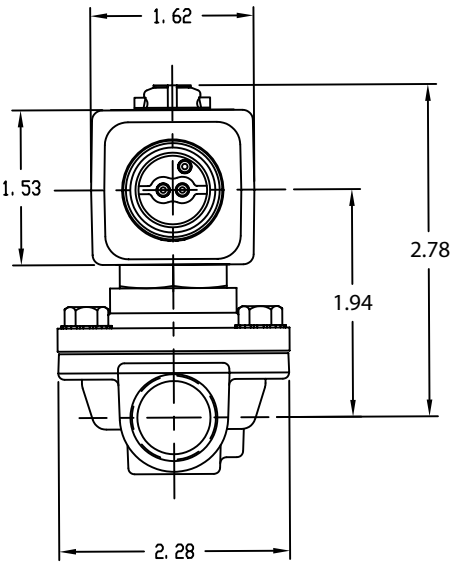


Valve Reference A23

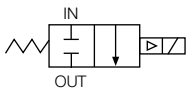


2-Way Normally Closed
Port Identification:
In-In/Out-Out

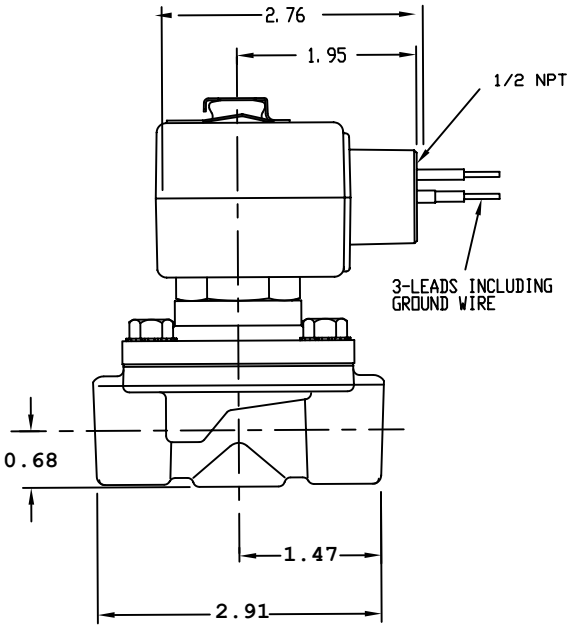


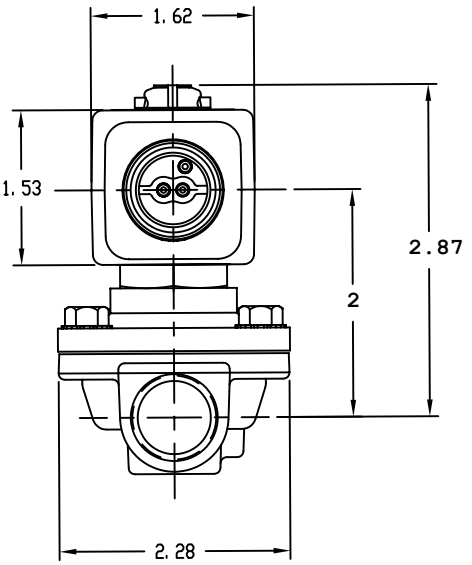


Valve Reference A24



2-Way Normally Closed
Port Identification:
In-In/Out-Out





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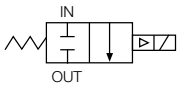
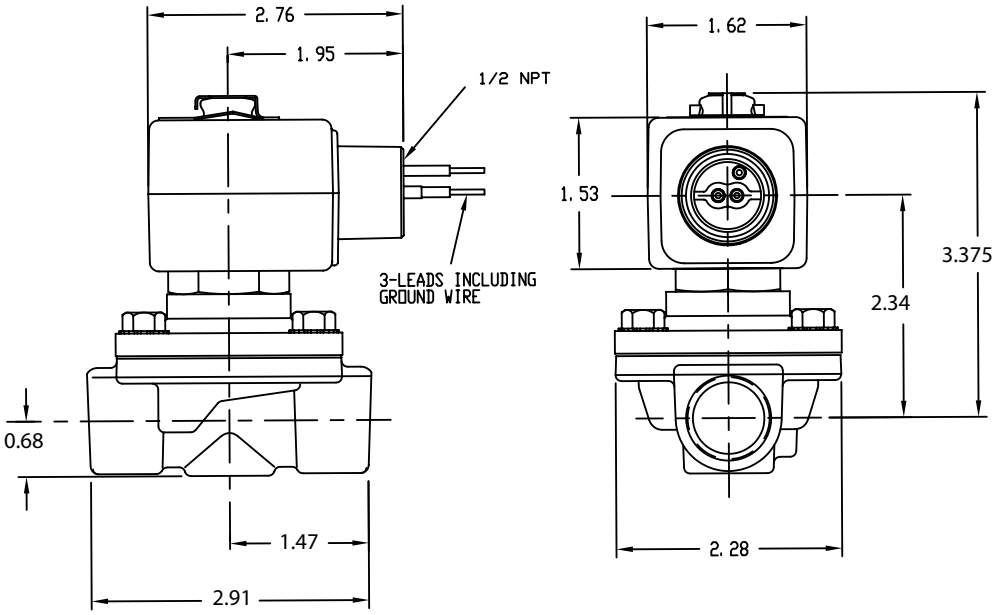
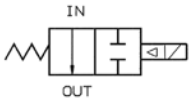
Valve Reference A25



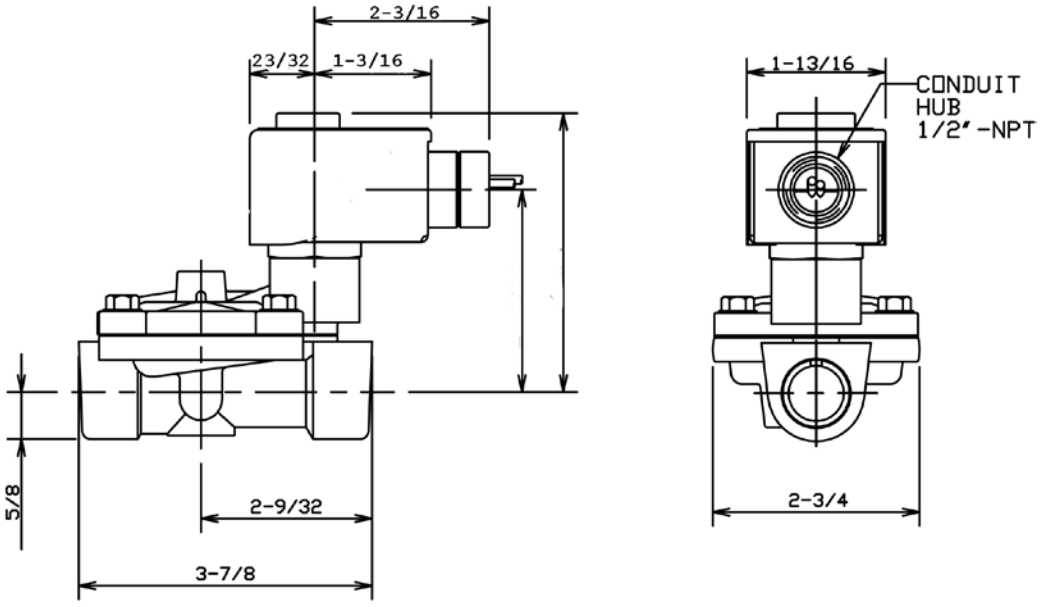
2-Way Normally Closed
Port Identification:
In-In/Out-Out



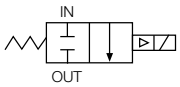
Valve Reference A26



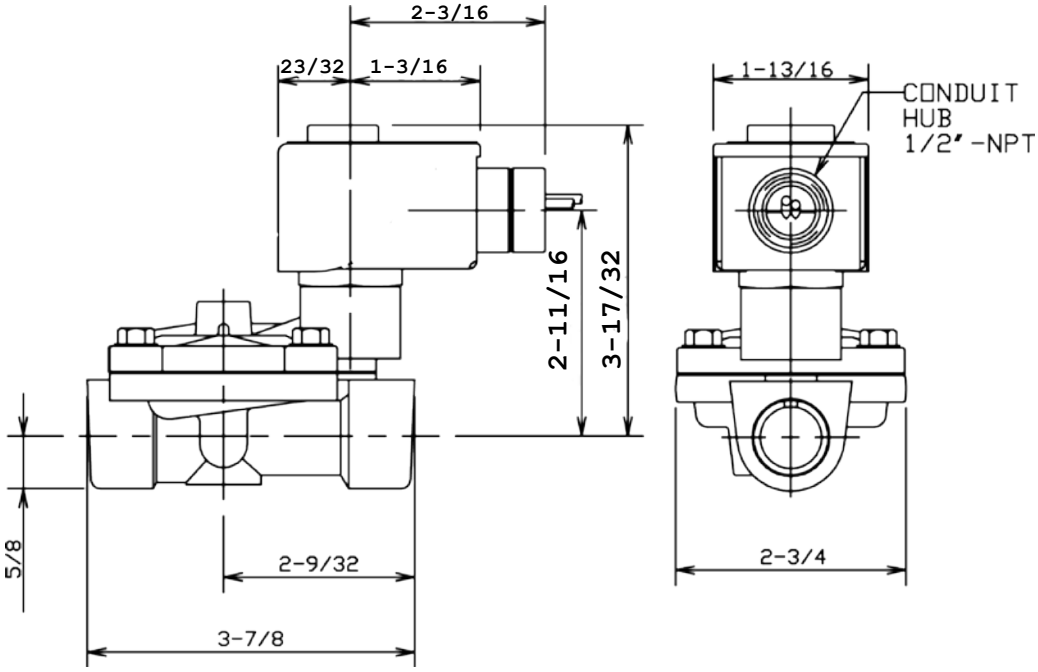
2-Way Normally Open
Port Identification:
In-In/Out-Out



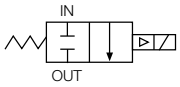
Valve Reference A27



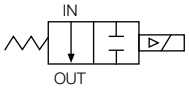
2-Way Normally Closed:
Port Identification:
In-In/Out-Out



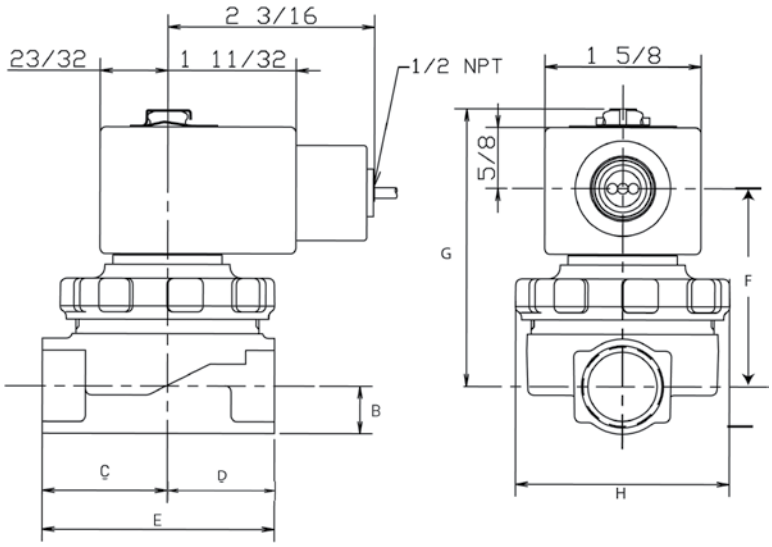
Valve Reference A28



2-Way Normally Closed:
12F25Cxx



2-Way Normally Open:
12F25Oxx
Port Identification:
In-In/Out-Out



Valve	Dimensions						
	B	C	D	E	F	G	H
12F25C2148ACF	5/8	1 5/8	1 1/2	3 1/8	2 11/32	3 15/32	3 1/2
12F25O2148ACF	5/8	1 5/8	1 1/2	3 1/8	2 1/4	3 15/32	2 29/32

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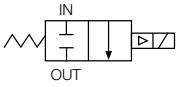
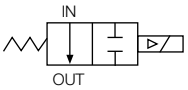
Valve Reference A29



16F24Cxx
20F24Cxx

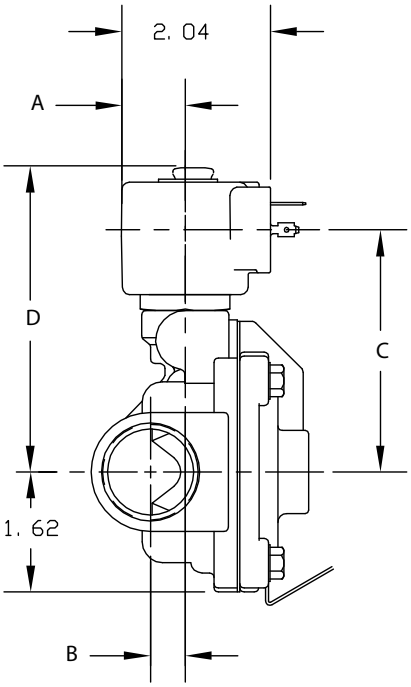
2-Way normally closed:

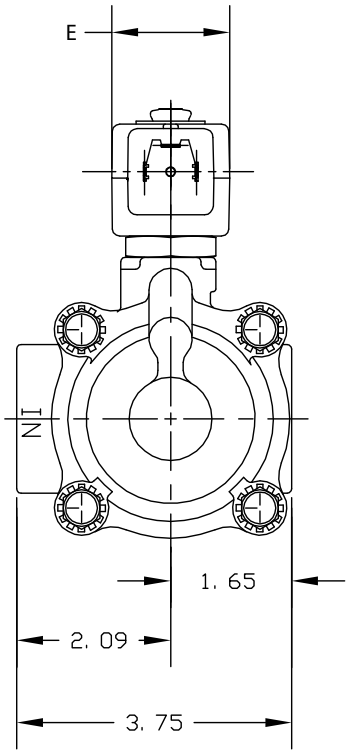


16F24Oxx
20F24Oxx

2-Way normally open:

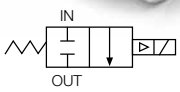
Port Identification:
In-In/Out-Out



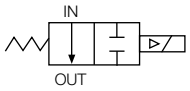


Valve	Dimensions				
	A	B	C	D	E
16F24C2164AAF 16F24C6164AAF	23/32	15/32	3 1/8	3 31/32	1 9/16
16F24C2164A3F 16F24C6164A3F	7/8	15/32	3 9/32	4 3/16	1 13/16
20F24C2172AAF	23/32	17/32	3 1/8	3 31/32	1 9/16
20F24C2172A3F	7/8	17/32	3 9/32	4 3/16	1 13/16
16F24O2164ACF 16F24O2164A3F	23/32	15/32	4 5/32	4 3/16	1 13/16
16F24O6164ACF 16F24O6164A3F					
20F24O2172ACF 20F24O2172A3F	7/8	17/32	4 3/8	4 13/16	1 13/16

Valve Reference A30

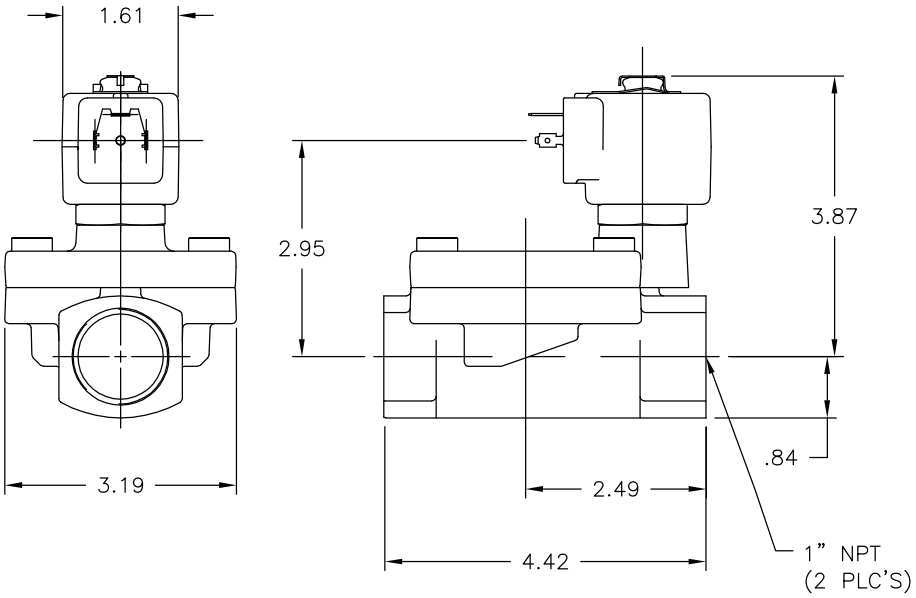


2-Way Normally Closed:
16F25Cxx

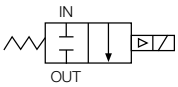


2-Way Normally Open:
16F25Oxx

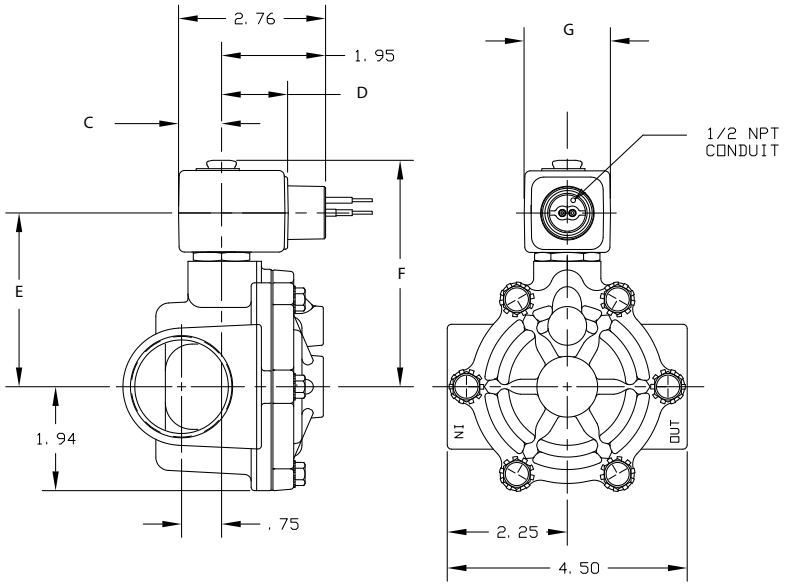
Port identification:
In-In/Out-Out



Valve Reference A31



2-Way Normally Closed
Port identification:
In-In/Out-Out



Part Number	Dimension				
	C	D	E	F	G
24F24C2180AAF 24F24C180AAF	23/32	1 5/16	3 5/16	4 5/32	1 9/16
24F24C2180A3F	7/8	1 17/32	3 17/32	4 3/8	1 13/16
24F2402180ACF 24F2402180A3F 24F2406180ACF	7/8	1 17/32	3 3/8	4 3/8	1 13/16

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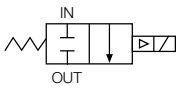
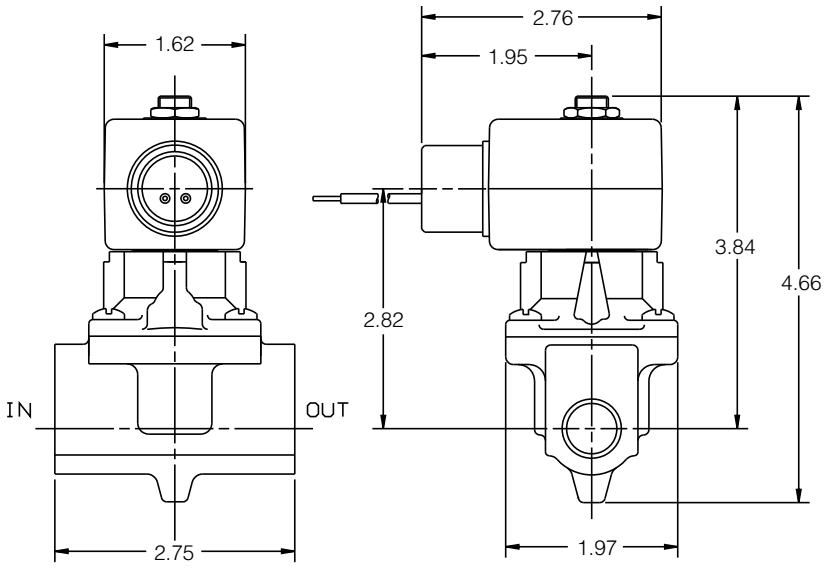
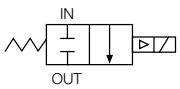
Valve Reference A32



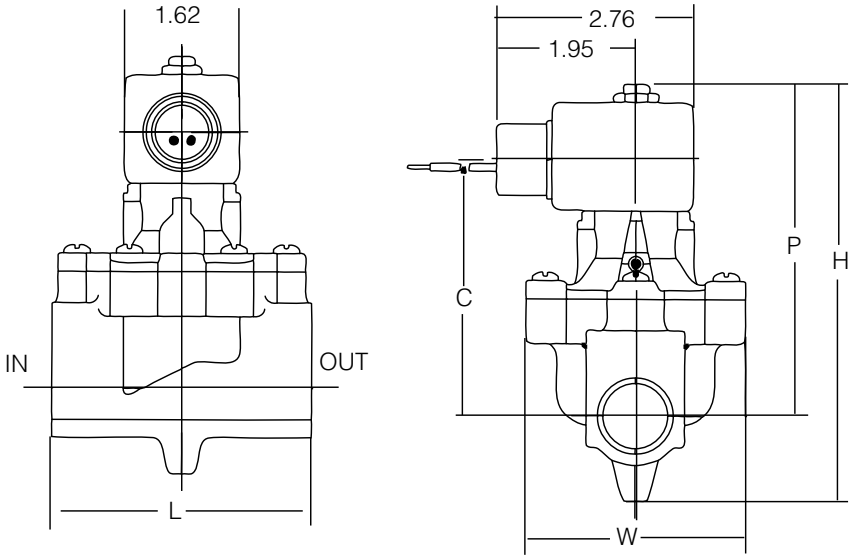
2-Way Normally Closed
Port Identification:
IN-IN/OUT-OUT



Valve Reference A33

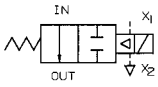


2-Way Normally Closed
Port identification:
In-In/Out-Out
73212BN52
P-IN/A-OUT
73212BN63

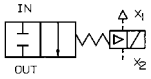


Part Number	Dimension					Port Indentification	
	H	P	C	L	W	IN	OUT
73212BN52NOO	5.81	4.62	3.59	3.62	3.09	IN	OUT
73212BN63NOO	6.22	4.89	3.87	4.31	3.45	P	A

Valve Reference A34

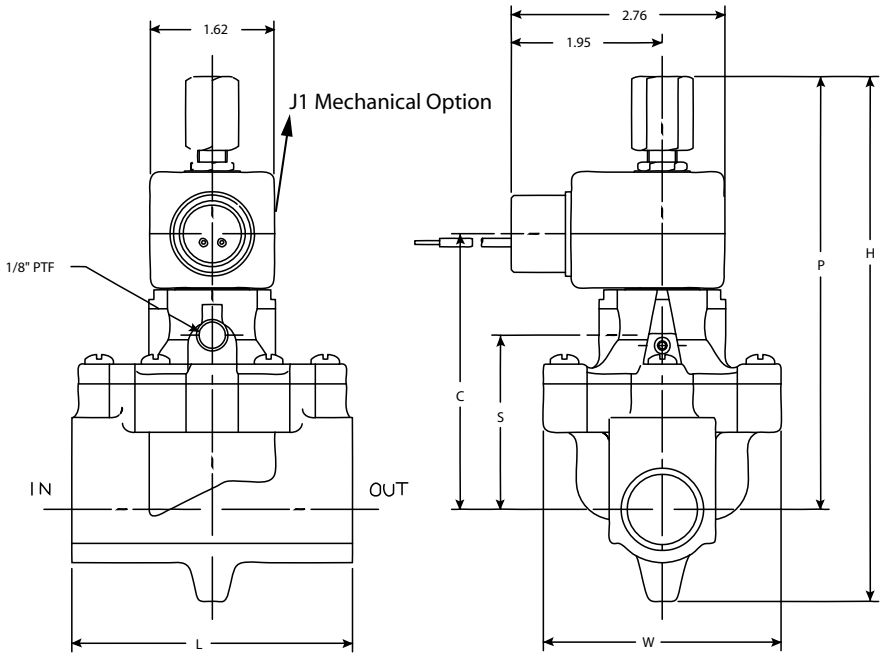


2-Way
Normally Open



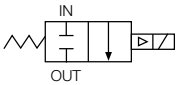
2-Way
Normally Closed

2-Way Univeral
Valve may be Normally Closed or
Normally Open, depending on piping
of external pilot.

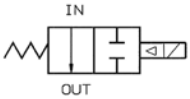


Part Number	Dimension						Port Identification	
	H	P	C	L	W	S	IN	OUT
74232BN52NJ1	6.78	5.59	3.59	3.62	3.09	2.28	IN	OUT
74232BN63NJ1	7.19	5.86	3.87	4.31	3.45	2.56	P	A

Valve Reference A35

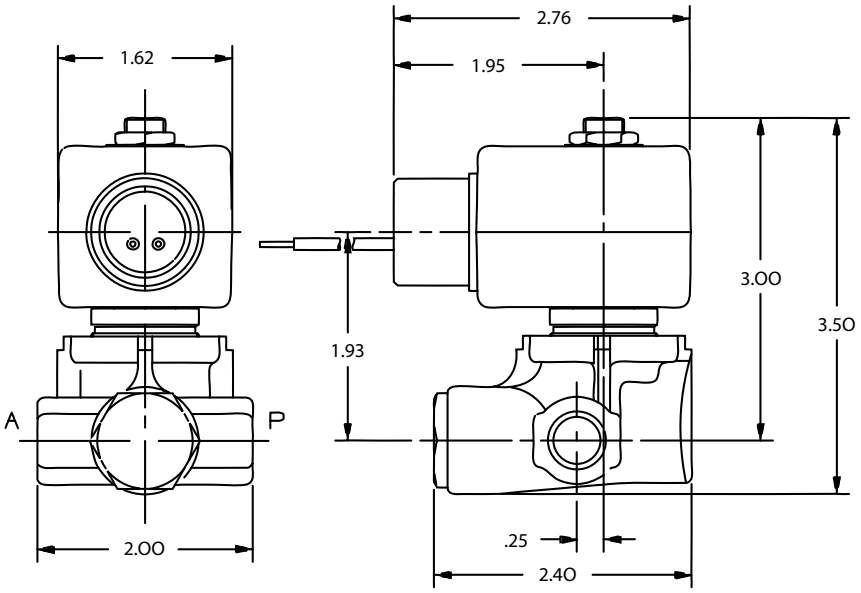


2-Way Normally Closed
73212xx



2-Way Normally Open:
73222xx

Port Identification:
IN-IN/--OUT



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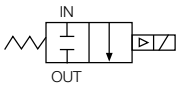
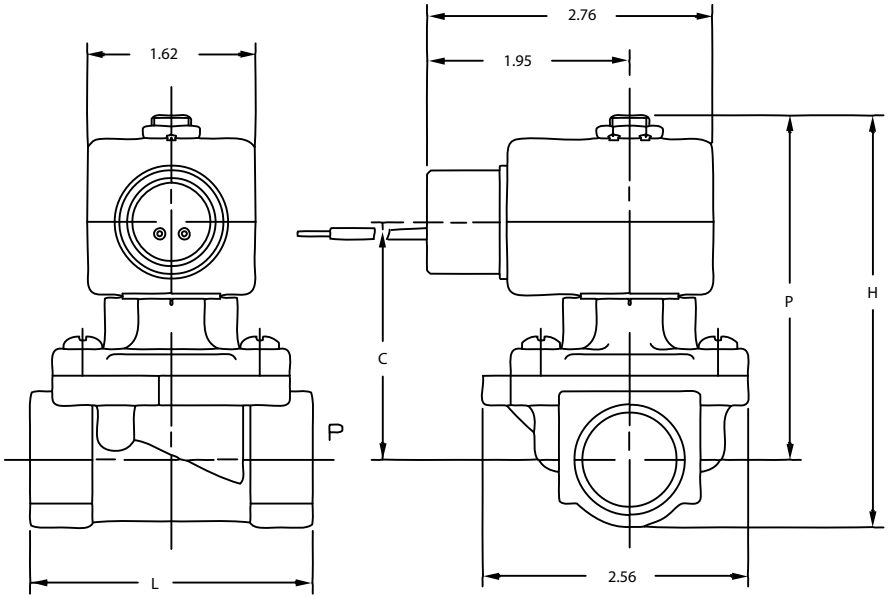
Valve Reference A36

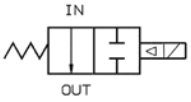


2-Way Normally Closed
Port Identification:
P-IN/--OUT

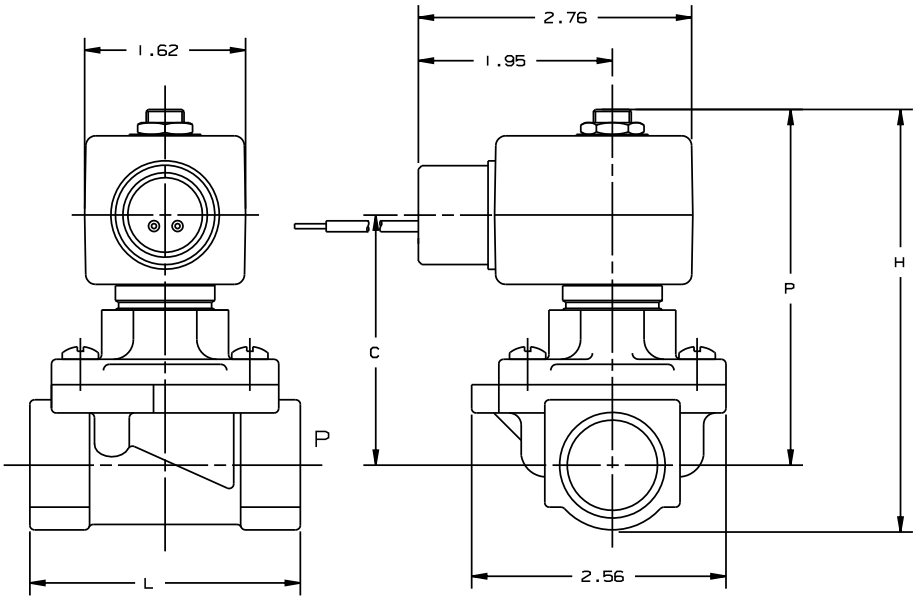


Valve	Dimensions			
	H	P	C	L
72218BN3TXXX 72218BN4UXXX	3.78	3.23	2.21	2.64
72218RN3TXXX 72218RN4UXXX 72218BN5VXXX 72218RN5VXXX	3.99	3.33	2.31	2.71

Valve Reference A37

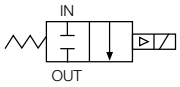


2-Way Normally Open
Port Identification:
P-IN/--OUT

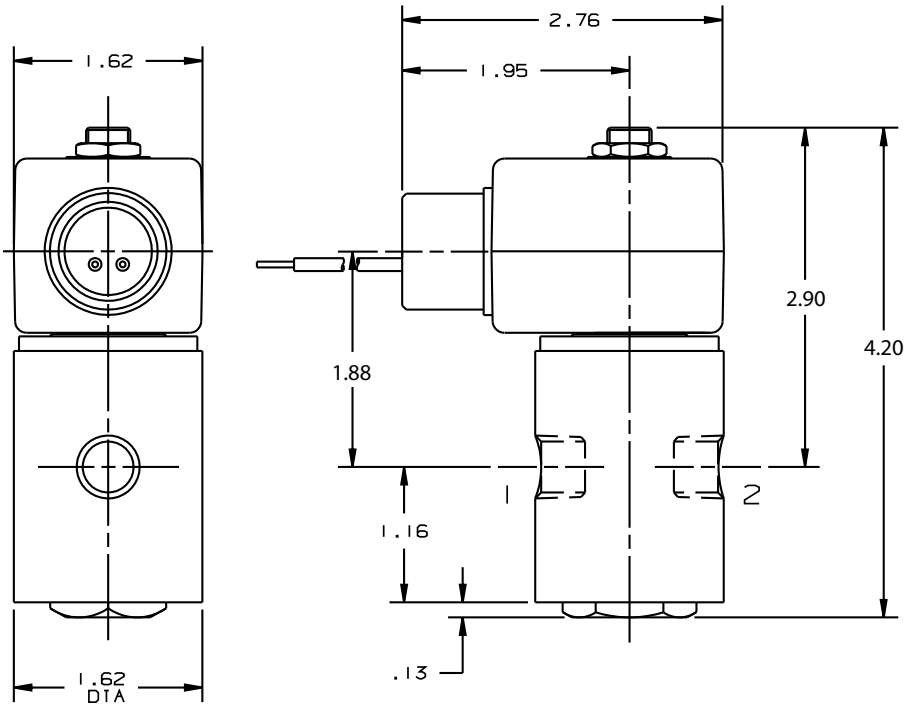


Valve	Dimensions			
	H	P	C	L
72228BN3TXXX 72228BN4UXXX 72228RN3TXXX 72228RN4UXXX	4.04	3.49	2.43	2.64
72228BN5VXXX 72228RN5VXXX	4.24	3.58	2.52	2.72

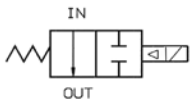
Valve Reference A38



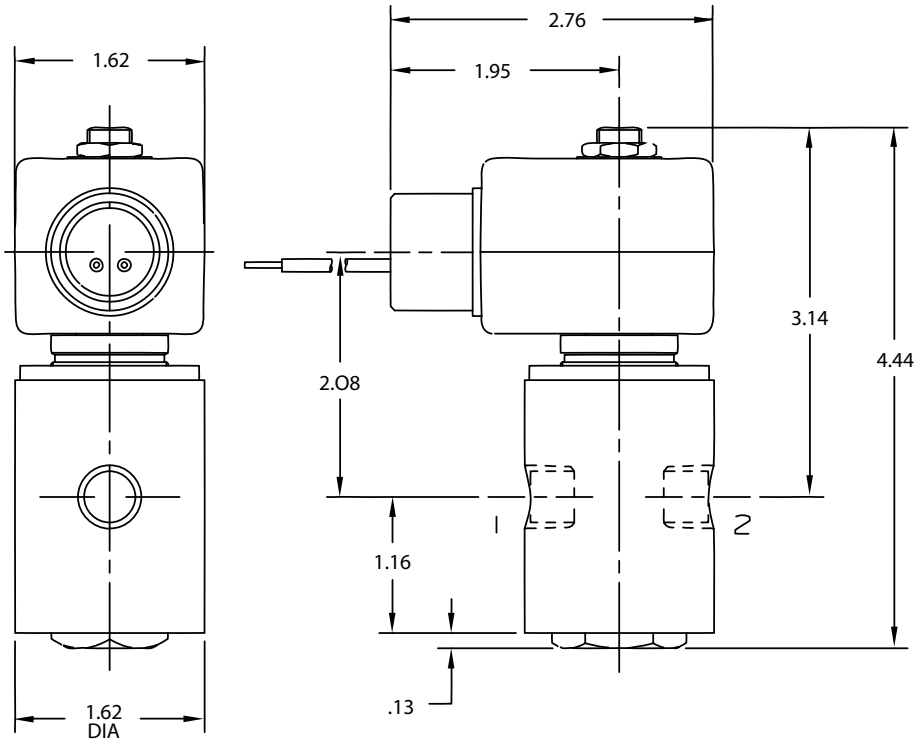
2-Way Normally Closed
Port Identification:
2-IN/1-OUT



Valve Reference A39



2-Way Normally Open
Port Identification:
2-IN/1-OUT



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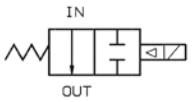
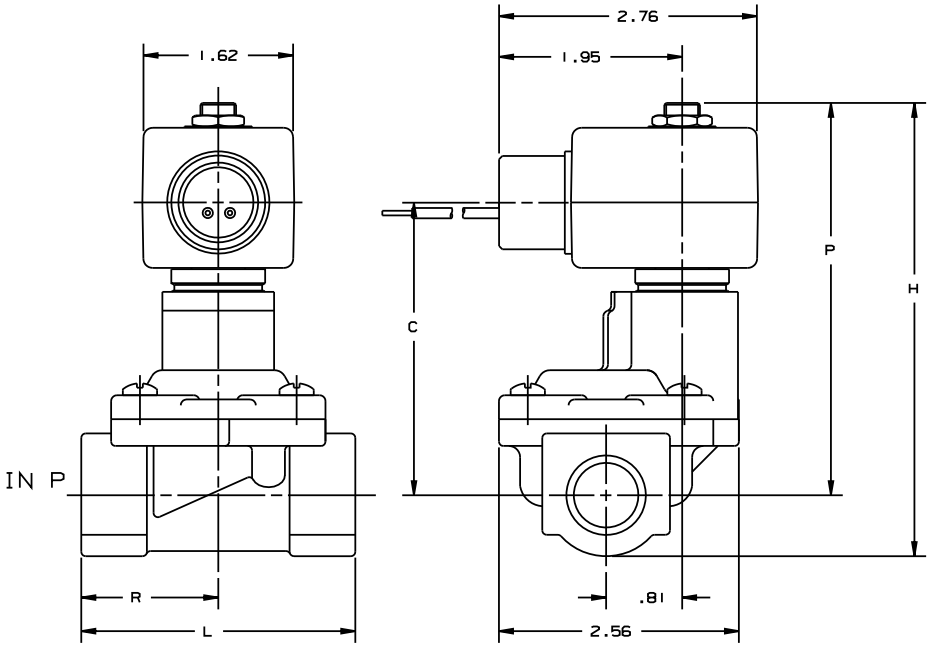
Valve Reference A40

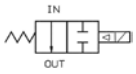


2-Way Normally Open
Port Identification:
P-IN/--OUT

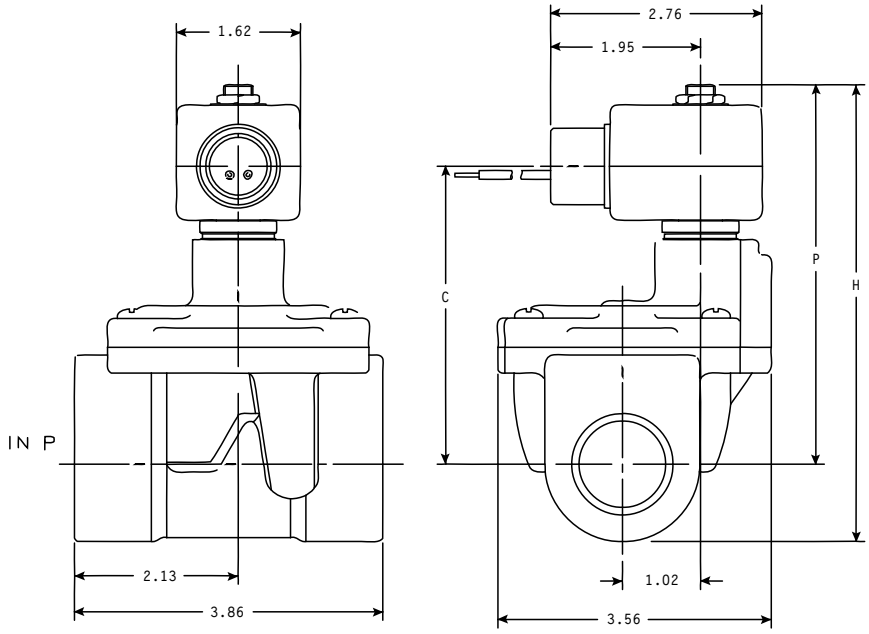


Valve	Dimensions				
	H	P	C	L	R
73228BN3TN00 73228BN4UN00	4.62	4.07	3.01	2.64	1.39
73228BN5VN00	4.83	4.17	3.11	2.72	1.43

Valve Reference A41

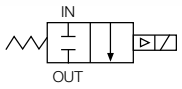


2-Way Normally Open
Port Identification:
P-IN/--OUT

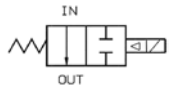


Valve	Dimensions		
	H	P	C
73228BN64N00 73228BN64V00	5.69	4.83	3.77
73228BN75N00 73228BN75V00	5.97	4.97	3.91

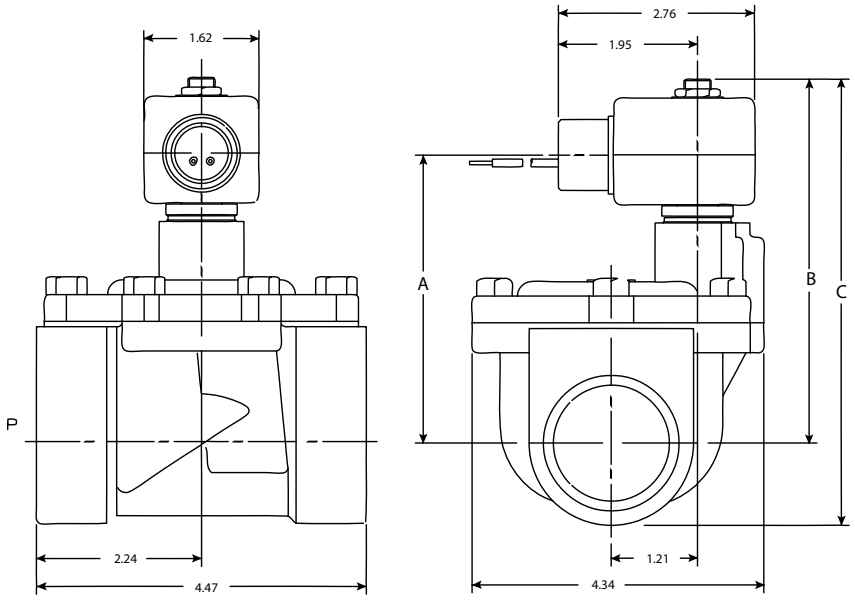
Valve Reference A42



2-Way Normally Closed
73218xx

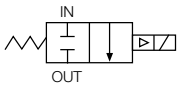


2-Way Normally Open
73228xx
Port Identification:
In-In/--Out

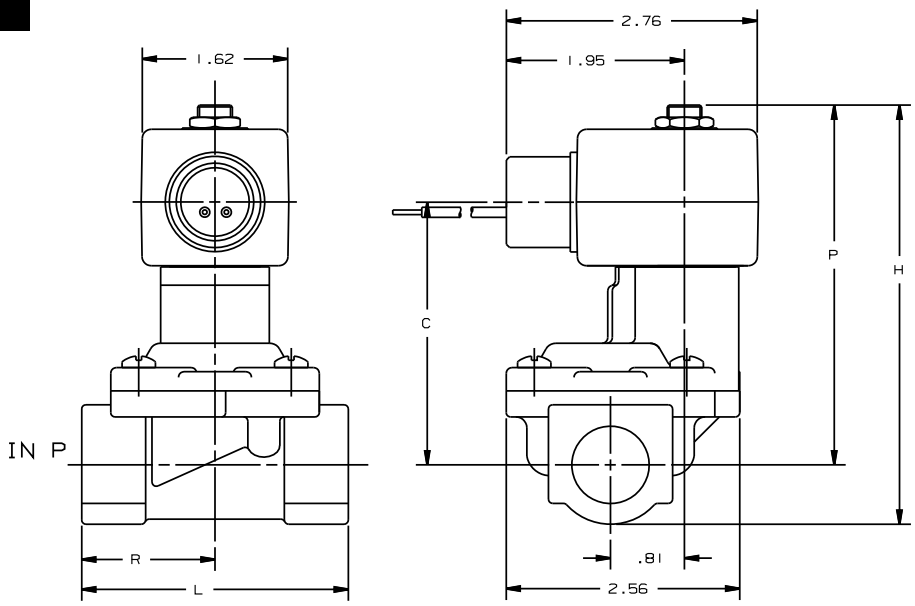


Valve	Dimensions		
	A	B	C
73218xxx	3.87	4.89	6.05
73228xxx	4.07	5.13	6.28

Valve Reference A43



2-Way Normally Closed
73218xx
Port Identification:
P-IN/--OUT



Valve	Dimensions				
	H	P	C	L	R
73218BN3TXXX 73218BN4UXXX	4.38	3.84	2.81	2.64	1.39
73218BN5VXXX	4.59	3.94	2.91	2.72	1.43

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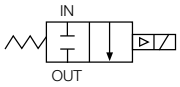
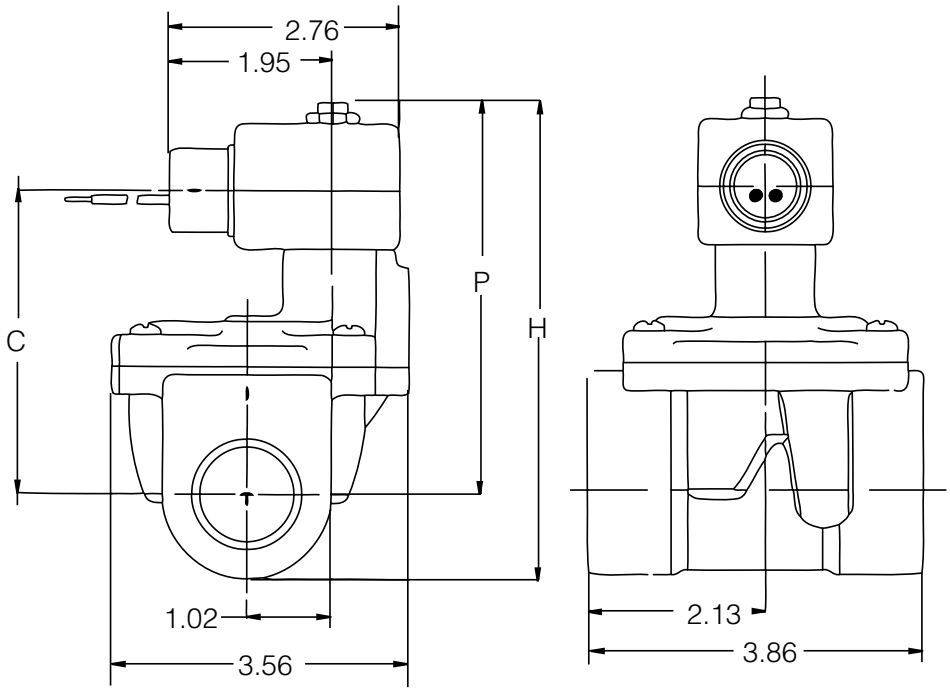
Valve Reference A44



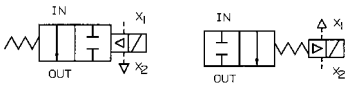
2-Way Normally Closed
Port Identification:
P-IN/--OUT



Valve	Dimensions		
	H	P	C
73218BN64XXX	5.45	4.59	3.57
73218BN75XXX	5.74	4.73	3.71

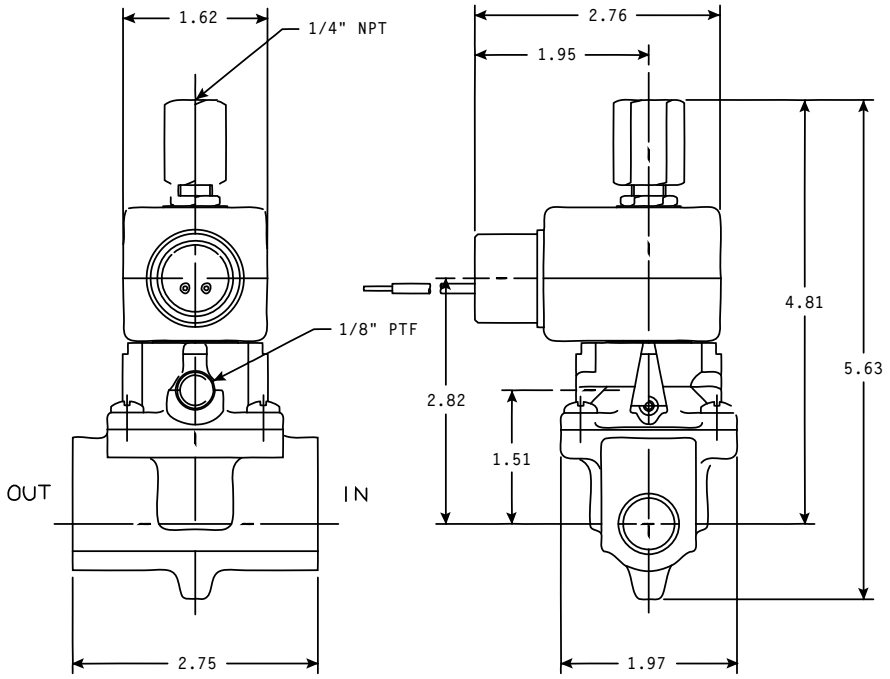
"X" denotes multiple digit combinations for brevity

Valve Reference A45

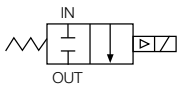


2-Way Normally Open 2-Way Normally Closed

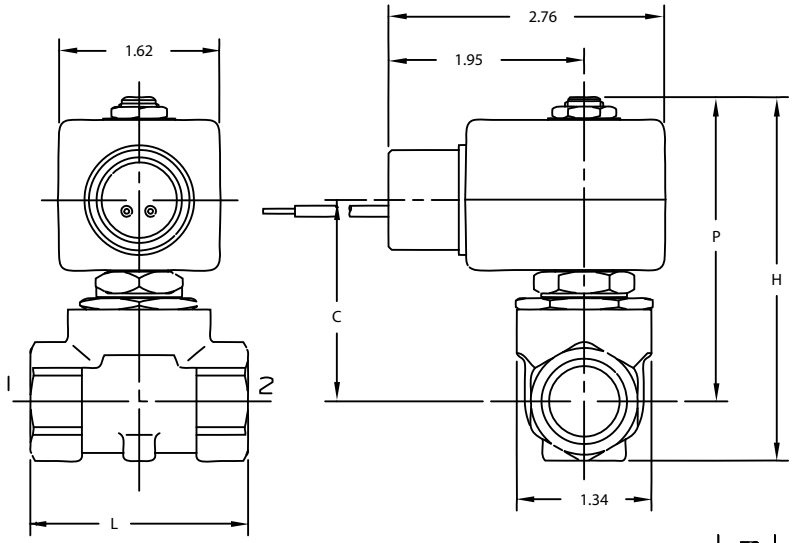
2-Way Universal
Valve may be normally closed or
normally open, depending on piping of
external pilot.
Port identification:
In-In/Out-Out

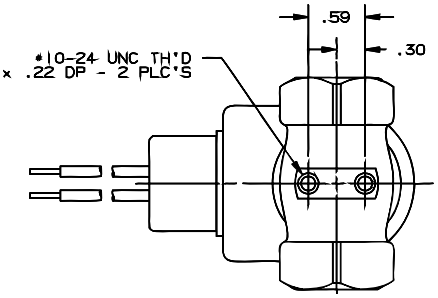


Valve Reference A46



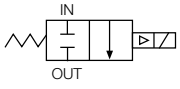
2-Way Normally Closed
Port Identification:
Flow arrow on body
indicates flow direction.
Ports are not marked.



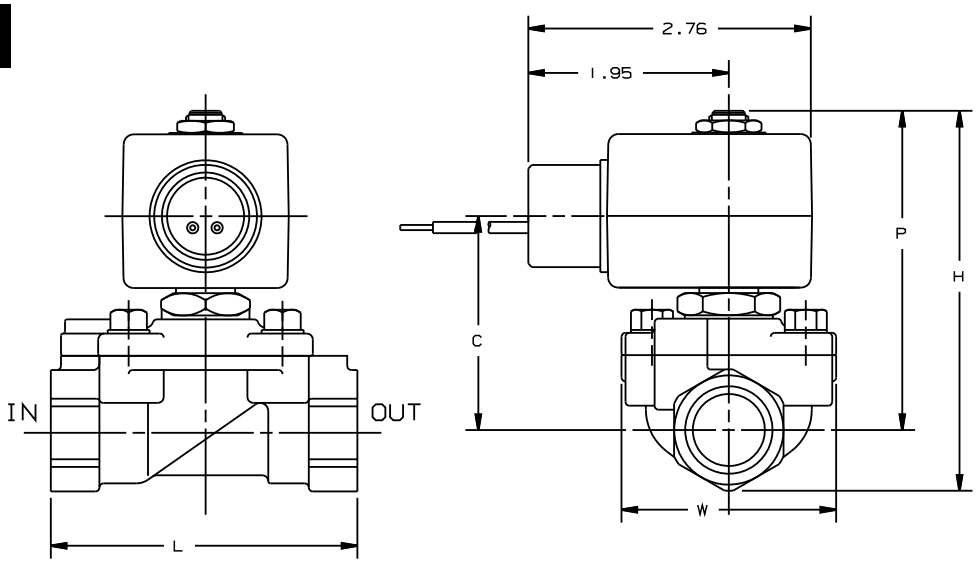


Valve	Dimensions			
	H	P	C	L
7321KBN2RXXX 7321KBN3SXXX	3.56	2.97	1.96	1.97
7321KBN4SXXX	3.56	2.97	1.96	2.17

Valve Reference A47



2-Way Normally Closed
Port Identification:
Flow arrow on body
indicates flow direction
Ports are not marked



Valve	Dimensions				
	H	P	C	L	W
7221GBN3VXXX 7221GBN4VXXX	3.66	3.07	2.06	2.95	2.09
7221GBN51XXX	3.75	3.07	2.06	3.15	2.09
7221GBN61XXX	4.03	3.15	2.12	3.35	2.09
7221GBN64XXX	4.25	3.35	2.34	3.94	2.75

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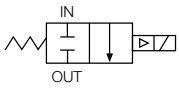
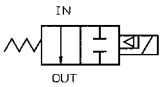
Valve Reference A48

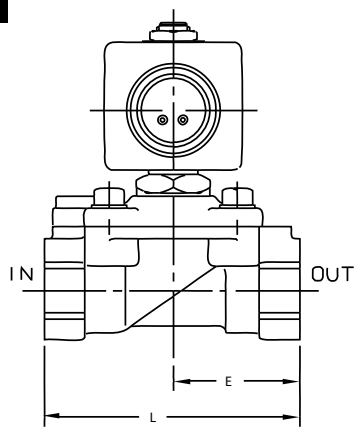


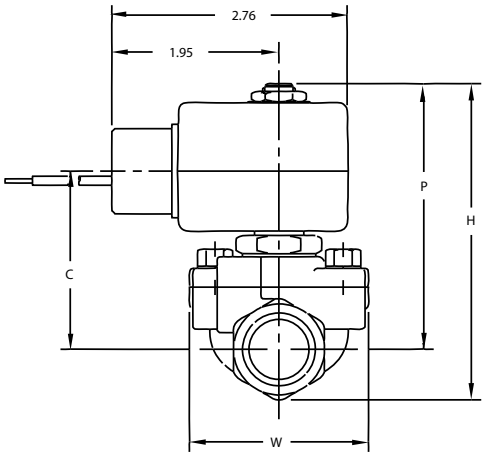
2-Way Normally Closed
7321GBNxx



2-Way Normally Open
7322GBNxx

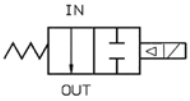
Port Identification:
Flow arrow on body indicates flow direction. Ports are not marked.



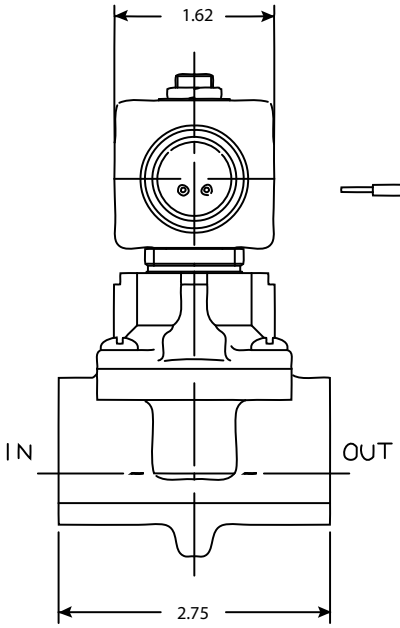


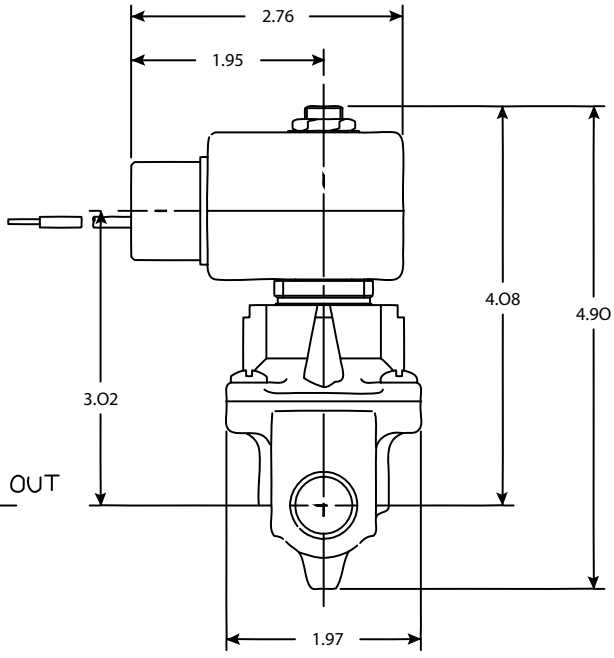
Valve	Dimensions					
	H	P	C	L	E	W
7321GBN53XXX 7322GBN53XXX 7321GBN64XXX 7322GBN64XXX	4.75	3.86	2.84	3.94	1.97	2.75
7321GBN76XXX 7322GBN76XXX	5.41	4.11	3.09	4.33	2.17	2.75
7321GBN88XXX 7322GBN88XXX	5.66	4.37	3.35	5.51	2.95	3.90
7321GBN99XXX 7322GBN99XXX	6.25	4.60	3.58	5.91	3.15	3.90

Valve Reference A49

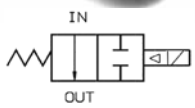


2-Way Normally Open
Port Identification:
IN-IN/ OUT-OUT

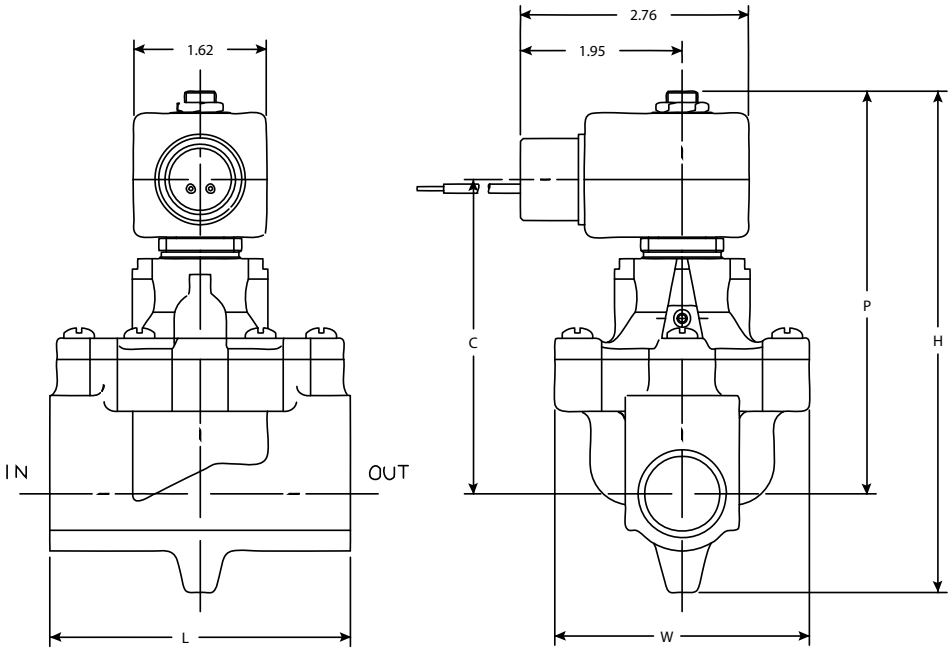




Valve Reference A50

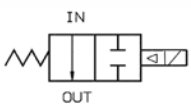


2-Way Normally Open
Port Identification:
IN-IN/ OUT-OUT
(7322BN52xx)
P-IN/A-OUT
(7322BN63xx)

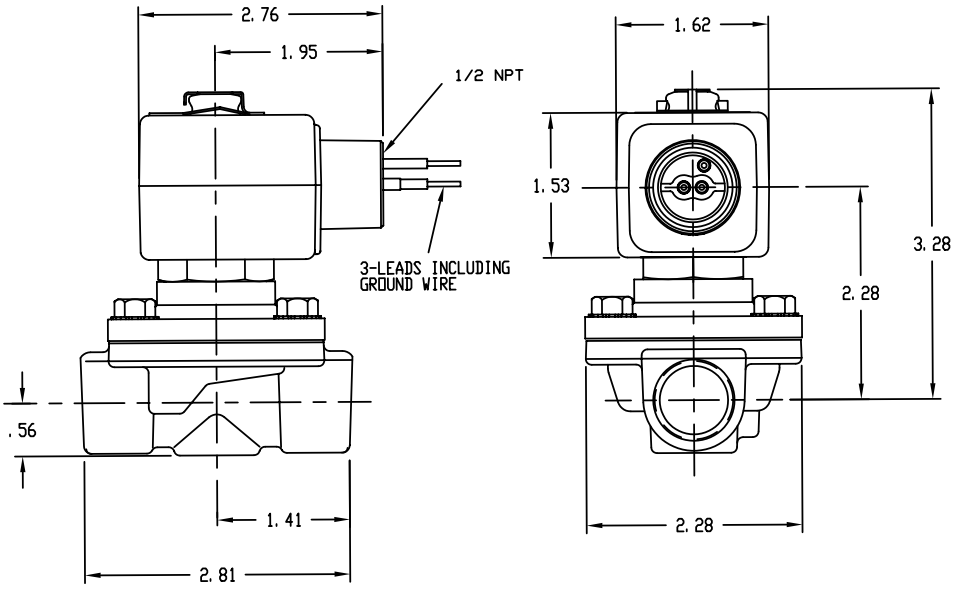


Valve	Dimensions				
	H	P	C	L	W
73222BN52N00	6.04	4.85	3.79	3.62	3.09
73222BN63N00	6.46	5.13	4.07	4.31	3.45

Valve Reference A51



2-Way Normally Open
Port Identification:
IN-IN/ OUT-OUT



Explosion-proof watertight shown in outline

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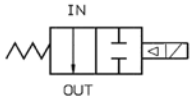
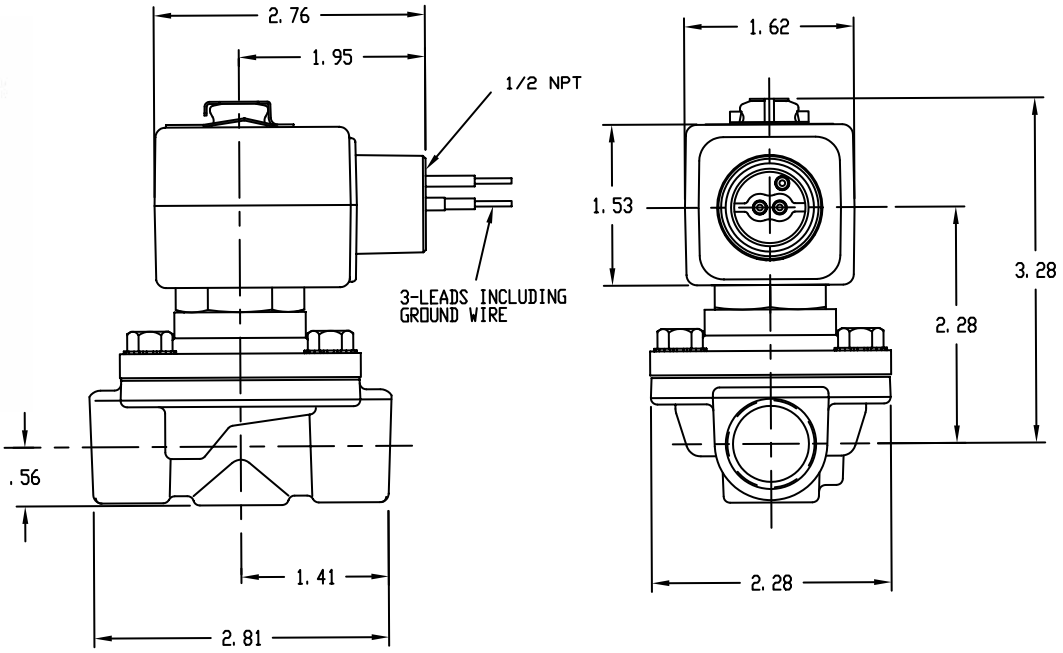
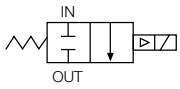
Valve Reference A52



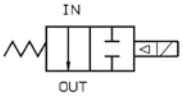
2-Way Normally Open
Port Identification:
IN-IN/ OUT-OUT



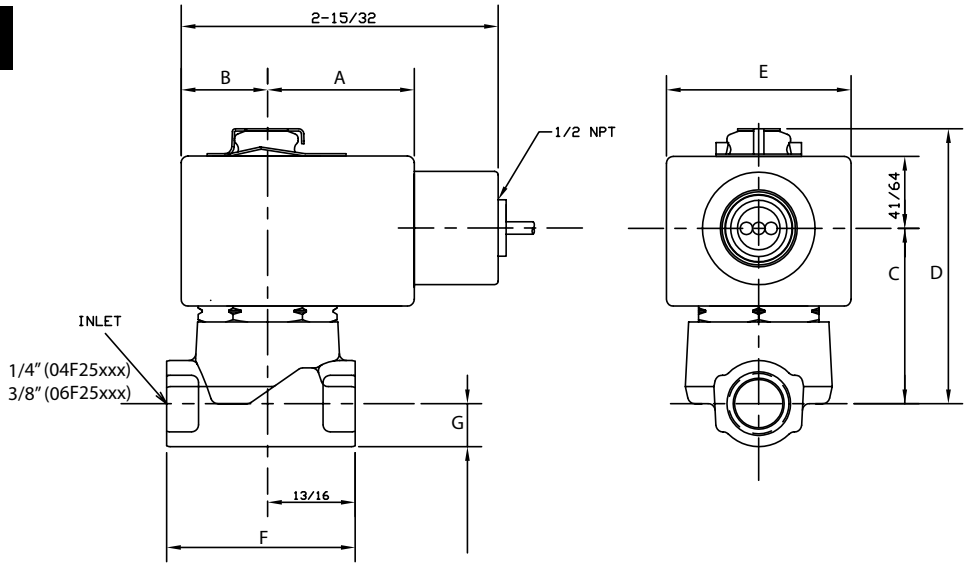
Valve Reference A54



2-Way Normally Closed
04F25C2xx/06F25C2xx
Port Identification:
IN-IN/ OUT-OUT



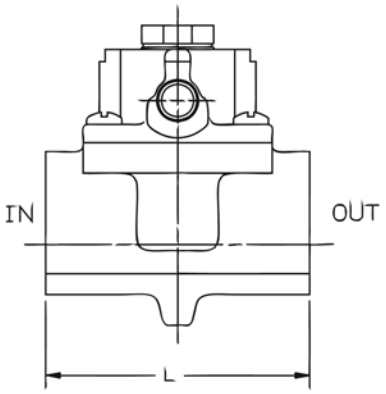
2-Way Normally Open
04F2502xx/06F2502xx
Port Identification:
IN-IN/ OUT-OUT

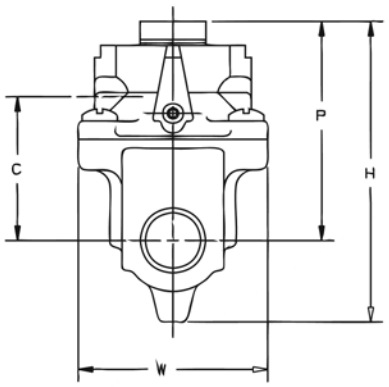


Valve	Dimensions						
	A	B	C	D	E	F	G
04F25C2122CAF	1 5/16	23/32	1 9/16	2 7/16	1 9/16	1 3/4	3/8
06F25C2122CAF	1 5/16	23/32	1 5/8	2 1/2	1 9/16	1 3/4	7/16
04F25O2122CCF 04F25O2122C3F	1 17/32	7/8	1 25/32	2 7/8	1 13/16	1 3/4	3/8
04F25C2122C3F	1 17/32	7/8	1 15/16	2 7/8	1 13/16	1 3/4	3/8
06F25C2122C3F	1 17/32	7/8	2	2 15/16	1 13/16	1 3/4	7/16

Valve Reference A55

2-Way Normally Open
Remote Pilot
Port Identification:
3/8, 1/2, 3/4
IN-IN/ OUT-OUT
Port Identification - 1"
P - IN/A - OUT





Valve	Dimensions					Port Identification	
	H	P	C	L	W	IN	OUT
75232BN3SN00	3.17	2.35	1.51	2.75	1.97	IN	OUT
75232BN4TN00	3.17	2.35	1.51	2.75	1.97	IN	OUT
75232BN52N00	4.31	3.12	2.28	4.62	3.09	IN	OUT

- **Valve can be normally closed or normally open depending on piping of external pilot.**
- **Pilot port is marked "C."**

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2-Way Pilot Operated Materials of Construction**

Product*	Wattage	Type	Port Size	Body	Sleeve Tube	Sleeve Stop	Sleeve Flange	"Plunger Blank"	Plunger Spring	Shading Ring	Max. Ambient Temp.
04F25C2	6	2WNC	1/4	Brass	305SS	430FR	Brass	430FR	302SS	Copper	130°F
04F25C2	11.5	2WNC	1/4	Brass	305SS	430FR	Brass	430FR	302SS	Copper	77°F
04F25O2	11	2WNO	1/4	Brass	305SS	430FR	416/430FR	430FR	302SS	Copper	130°F
04F25O2	11.5	2WNO	1/4	Brass	305SS	430FR	416/430FR	430FR	302SS	Copper	77°F
06F22C2	6	2WNC	3/8	Brass	305SS	430FR	Brass	430FR	302SS	Copper	77°F
06F22C2	11.5, 16	2WNC	3/8	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	130°F
06F22C6	6	2WNC	3/8	316SS	305SS	430FR	12L14 Plated	430FR	302SS	Silver	77°F
06F22C6	11.5, 16	2WNC	3/8	316SS	305SS	430FR	12L14 Plated	430FR	302SS	Silver	130°F
06F23C2	11	2WNC	3/8	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	130°F
06F23C2	11.5	2WNC	3/8	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	77°F
06F23C6	11	2WNC	3/8	316SS	305SS	430FR	12L14 Plated	430FR	302SS	Silver	130°F
06F23C6	11.5	2WNC	3/8	316SS	305SS	430FR	12L14 Plated	430FR	302SS	Silver	77°F
06F23O2	11	2WNO	3/8	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	130°F
06F23O2	11.5	2WNO	3/8	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	77°F
06F23O6	11	2WNO	3/8	316SS	305SS	430FR	12L14 Plated	430FR	302SS	Silver	130°F
06F23O6	11.5	2WNO	3/8	316SS	305SS	430FR	12L14 Plated	430FR	302SS	Silver	77°F
06F25C2	6,11	2WNC	3/8	Brass	305SS	430FR	Brass	430FR	302SS	Copper	130°F
06F25C2	11.5	2WNC	3/8	Brass	305SS	430FR	Brass	430FR	302SS	Copper	77°F
06F25O2	11	2WNO	3/8	Brass	305SS	430FR	416/430FR	430FR	302SS	Copper	130°F
06FH5C2	11	2WNC	3/8	Brass	305SS	430FR	Brass	430FR	302SS	Copper	130°F
08F22C2	6	2WNC	1/2	Brass	305SS	430FR	Brass	430FR	302SS	Copper	130°F
08F22C2	11	2WNC	1/2	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	130°F
08F22C2	11.5, 16	2WNC	1/2	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	77°F
08F22C6	11.5, 16	2WNC	1/2	316SS	305SS	430FR	12L14 Plated	430FR	302SS	Silver	77°F

* Shows the first 7 digits of the pressure vessel part number.

** Maximum ambient temperature shown is the rating when valve is operating at the maximum fluid temperature as shown in the product sections for each of the valves in this catalog.

2-Way Pilot Operated Materials of Construction (Continued)**

Product*	Wattage	Type	Port Size	Body	Sleeve Tube	Sleeve Stop	Sleeve Flange	"Plunger Blank"	Plunger Spring	Shading Ring	Max. Ambient Temp.
08F23C2	11	2WNC	1/2	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	130°F
08F23C2	11.5	2WNC	1/2	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	77°F
08F23C6	11	2WNC	1/2	316SS	305SS	430FR	12L14 Plated	430FR	302SS	Silver	130°F
08F23C6	11.5	2WNC	1/2	316SS	305SS	430FR	12L14 Plated	430FR	302SS	Silver	77°F
08F23O2	11	2WNO	1/2	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	130°F
08F23O2	11.5	2WNO	1/2	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	77°F
08F23O6	11	2WNO	1/2	316SS	305SS	430FR	12L14 Plated	430FR	302SS	Silver	130°F
08F23O6	11.5	2WNO	1/2	316SS	305SS	430FR	12L14 Plated	430FR	302SS	Silver	77°F
08F25C2	11	2WNC	1/2	Brass	305SS	430FR	Brass	430FR	302SS	Copper	130°F
08F25C2	11.5	2WNC	1/2	Brass	305SS	430FR	Brass	430FR	302SS	Copper	77°F
08F25O2	11	2WNO	1/2	Brass	305SS	430FR	Brass	430FR	302SS	Copper	130°F
08F25O2	11.5	2WNO	1/2	Brass	305SS	430FR	Brass	430FR	302SS	Copper	77°F
08FH5C2	11	2WNC	1/2	Brass	305SS	430FR	Brass	430FR	302SS	Copper	130°F
12F22C2	6	2WNC	3/4	Brass	305SS	430FR	Brass	430FR	302SS	Copper	130°F
12F22C2	11.5	2WNC	1/2	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	77°F
12F22C6	11.5, 16	2WNC	3/4	316SS	305SS	430FR	12L14 Plated	430FR	302SS	Silver	77°F
12F23C2	11	2WNC	3/4	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	130°F
12F23C2	11.5	2WNC	3/4	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	77°F
12F23C6	11	2WNC	3/4	316SS	305SS	430FR	12L14 Plated	430FR	302SS	Silver	130°F
12F23C6	11.5	2WNC	3/4	316SS	305SS	430FR	12L14 Plated	430FR	302SS	Silver	77°F
12F23O2	11	2WNO	3/4	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	130°F

* Shows the first 7 digits of the pressure vessel part number.

** Maximum ambient temperature shown is the rating when valve is operating at the maximum fluid temperature as shown in the product sections for each of the valves in this catalog.

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2-Way Pilot Operated Materials of Construction (Continued)**

Product*	Wattage	Type	Port Size	Body	Sleeve Tube	Sleeve Stop	Sleeve Flange	"Plunger Blank"	Plunger Spring	Shading Ring	Max. Ambient Temp.
12F23O2	11.5	2WNO	3/4	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	77°F
12F23O6	11	2WNO	3/4	316SS	305SS	430FR	12L14 Plated	430FR	302SS	Silver	130°F
12F23O6	11.5	2WNO	3/4	316SS	305SS	430FR	12L14 Plated	430FR	302SS	Silver	77°F
12F24C2	6	2WNC	3/4	Brass	305SS	430FR	Brass	430FR	302SS	Copper	130°F
12F24C2	11.5	2WNC	1/2	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	77°F
12F24O2	11	2WNO	3/4	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	130°F
12F25C2	11	2WNC	3/4	Brass	305SS	430FR	Brass	430FR	302SS	Copper	130°F
12F25O2	11	2WNO	3/4	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	130°F
12FH5C2	11	2WNC	3/4	Brass	305SS	430FR	Brass	430FR	302SS	Copper	130°F
16F24C2	6	2WNC	3/4	Brass	305SS	430FR	Brass	430FR	302SS	Copper	130°F
16F24C2	11.5	2WNC	1/2	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	77°F
16F24C6	6	2WNC	3/4	316SS	305SS	430FR	303	430FR	302SS	Silver	130°F
16F24C6	11.5	2WNC	1/2	316SS	305SS	430FR	12L14 Plated	430FR	302SS	Silver	77°F
16F24O2	11.5	2WNO	1	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	77°F
16F24O2	11	2WNO	1	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	130°F
16F24O6	11.5	2WNO	1	316SS	305SS	430FR	12L14 Plated	430FR	302SS	Silver	77°F
16F24O6	11	2WNO	1	316SS	305SS	430FR	12L14 Plated	430FR	302SS	Silver	130°F
16F25C2	11.5	2WNC	1	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	77°F
16F25C2	11	2WNC	1	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	130°F
16F25O2	11	2WNO	1	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	130°F
16FH5C2	16	2WNC	1	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	77°F

* Shows the first 7 digits of the pressure vessel part number.
** Maximum ambient temperature shown is the rating when valve is operating at the maximum fluid temperature as shown in the product sections for each of the valves in this catalog.

2-Way Pilot Operated Materials of Construction (Continued)**

Product*	Wattage	Type	Port Size	Body	Sleeve Tube	Sleeve Stop	Sleeve Flange	"Plunger Blank"	Plunger Spring	Shading Ring	Max. Ambient Temp.
20F24C2	6	2WNC	3/4	Brass	305SS	430FR	Brass	430FR	302SS	Copper	130°F
20F24C2	11.5	2WNC	1/2	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	77°F
20F24O2	11	2WNO	1¼	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	130°F
24F24C2	6	2WNC	3/4	Brass	305SS	430FR	Brass	430FR	302SS	Copper	130°F
24F24C2	11.5	2WNC	1/2	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	77°F
24F24C6	6	2WNC	3/4	316SS	305SS	430FR	303	430FR	302SS	Silver	130°F
24F24C6	11.5	2WNC	1/2	316SS	305SS	430FR	12L14 Plated	430FR	302SS	Silver	77°F
24F24O2	11.5	2WNO	1½	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	77°F
24F24O2	11	2WNO	1½	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	130°F
24F24O6	11.5	2WNO	1½	316SS	305SS	430FR	12L14 Plated	430FR	302SS	Silver	77°F
24F24O6	11	2WNO	1½	316SS	305SS	430FR	12L14 Plated	430FR	302SS	Silver	130°F
72218BN	10	2WNC	3/8 - 3/4	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
72218BN	22	2WNC	3/8 - 3/4	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	77°F
72218RN	10	2WNC	3/8 - 3/4	316SS	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
72218RN	22	2WNC	3/8 - 3/4	316SS	304SS	430FR	430F	430FR	18-8SS	Copper	77°F
7221GBN	10	2WNC	3/8 - 1	Brass	304SS	430FR	430F	430FR/ 4106	301SS	Copper	150°F
7221GBN	22	2WNC	3/8 - 1	Brass	304SS	430FR	430F	430FR/ 4106	301SS	Copper	77°F
72228BN	10	2WNO	3/8 - 3/4	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
72228BN	22	2WNO	3/8 - 3/4	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	77°F
72228RN	10	2WNO	3/8 - 3/4	316SS	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
72228RN	22	2WNO	3/8 - 3/4	316SS	304SS	430FR	430F	430FR	18-8SS	Copper	77°F
73212BN	10	2WNC	1/4 - 1	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
73212BN	22	2WNC	1/4 - 1	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	77°F

* Shows the first 7 digits of the pressure vessel part number.

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2-Way Pilot Operated Materials of Construction (Continued)**

Product*	Watt	Type	Port Size	Body	Sleeve Tube	Sleeve Stop	Sleeve Flange	"Plunger Blank"	Plunger Spring	Shading Ring	Max. Ambient Temp.
73212SN	10	2WNC	1/4	430F	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
73212SN	22	2WNC	1/4	430F	304SS	430FR	430F	430FR	18-8SS	Copper	77°F
73218BN	10	2WNC	3/8 - 1½	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
73218BN	22	2WNC	3/8 - 1½	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	77°F
7321GBN	10	2WNC	3/4 - 2	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
7321GBN	22	2WNC	3/4 - 2	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	77°F
7321KBN	10	2WNC	1/4 - 1/2	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
7321KBN	22	2WNC	1/4 - 1/2	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	77°F
73222BN	10	2WNO	1/4 - 1	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
73222BN	22	2WNO	1/4 - 1	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	77°F
73222SN	10	2WNO	1/4	430F	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
73222SN	22	2WNO	1/4	430F	304SS	430FR	430F	430FR	18-8SS	Copper	77°F
73228BN	10	2WNO	3/8 - 1½	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
73228BN	22	2WNO	3/8 - 1½	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	77°F
7322GBN	10	2WNO	3/4 - 2	Brass	304SS	430FR	430F	430FR	301SS	Copper	150°F
7322GBN	22	2WNO	3/4 - 2	Brass	304SS	430FR	430F	430FR	301SS	Copper	77°F
74232BN	10	2WDP	3/8 - 1	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
74232BN	22	2WDP	3/8 - 1	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	77°F
75232***	-	UNIV	3/8-2	Brass	N/A	N/A	N/A	N/A	N/A	N/A	-

* Shows the first 7 digits of the pressure vessel part number.

** Maximum ambient temperature shown is the rating when valve is operating at the maximum fluid temperature as shown in the product sections for each of the valves in this catalog.

*** Pilot Orifice is 303SS. These are remotely piloted valves. No coil required.

Notes

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Fluid Control Division
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2-Way

Direct Acting & Pilot Operated
High Pressure
1/8" - 3/4" NPT

General Description:

2-Way Direct Acting and Pilot Operated High Pressure valves are generally installed where high pressure and large flow requirements dictate the use of piston valves and/or valves with more robust seals such as PTFE and Ruby discs*. Pilot Operated valves require the minimum pressure differential specified for proper valve operation.

Installation
Pilot Operated Valves should be mounted with solenoid coils vertical and upright. Direct Acting valves can be mounted in any position. The preferred orientation is with the coil vertical and upright.

Standard Materials of Construction
Please refer to page A73.

Compatible Fluids
Lubricated Air, Inert Gases, Water, Light Oil (300 SSU) and other non-compressible media.

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 A73 for details.

Applications:

- Blow molding
- Compressors
- Car washing equipment
- Pumps

***Table 1:**

Allowable Max. Seat Leakage Chart	
Valve	**Leakage on gases**
06F28, 08F28, 12F28	472 cc/min
73216	50 cc/min
7321H, 7322H	25 cc/min

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