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General Purpose Solenoid Valves

Skinner™ and Gold Ring™ Valves

Effective September 2011



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About Fluid Control Division

Parker Fluid Control Division (FCD) is a world-wide industry leader of solenoid valves that control motion, flow and pressure in a wide variety of applications in all markets. Since 1947, it has built a strong reputation as a recognized leader in solenoid valve technology and design – first as Skinner Valve Division, then with the addition of Lucifer Division (Geneva) in 1984, Gold Ring (Fluidex Division) in 1986 and SCEM (Italy) in 1989.

With manufacturing facilities strategically placed around the world, FCD is prepared to meet your global needs. Facilities located in the United States, Brazil, Italy, Switzerland, China, South Korea and India are equipped with a complete staff of experienced design engineers – among the best in the business – that are capable of rapidly completing customized valve designs for specific user requirements. Each facility has well equipped evaluation and testing laboratories to ensure proper valve operation, long cycle life, and optimum reliability.

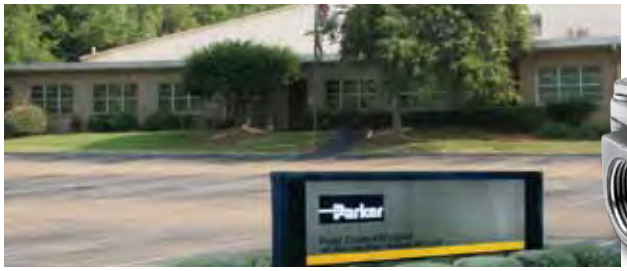
With sales affiliates worldwide, an extensive distribution network and broad product breadth, FCD is in a unique position to service the world's requirements for solenoid valves.

Together we can control a wide variety of media, in hundreds of markets, under all conditions with thousands of designs that have been qualified to the most rigorous industry standards.

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Fluid Control Division Headquarters, New Britain, CT.



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Together we can work with you to cross over most all major competitive products to our wide variety of standard valves or work with your application specifications to select one of our unique product solutions.

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Our distribution network stocks 2-way, 3-way and 4-way valves that are engineered to control virtually any media over a wide range of applications. For a complete listing of our distribution network, please visit www.parker.com/fcd and select "where to buy."

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How to order (see coil section for part numbering charts)

Valves using Coil Charts 1-6 (Gold Ring Series Valves)

Step 1: Select the pressure vessel catalog number based on the application requirements. The catalog number is specified in the individual catalog sections.

Step 2: Select one enclosure code, one coil termination code and one voltage code. Standard leads are 18-inches long with all enclosures, except splice box where six-inch leads are standard.

Step 3: When separate valve and solenoid, the last two digits of the valve must match the first two digits of the solenoid. **Example:** Valve: 04F20C1103AAF Solenoid: AF4C05

Step 4: Valves with enclosure Types 7 & 9 must be ordered factory assembled and not as modular.

Valves using Coil Charts 7, 8, 10, 11 & 12 (Skinner 7000 Series Valves)

Ordering items 1 and 2, fully assembled valves

Step 1: Select the pressure vessel catalog number based on the application requirements. The catalog number is specified in the individual catalog sections.

Step 2: Use the mechanical options table, if required, to write the option code in place of the last two pressure vessel digits - "00."

Step 3: Select the appropriate integrated coil, and enter (N0=Nut & Washer as the 13th/14th digits), or enclosure and conventional coil.

Step 4: Use the electrical options table, if required, to write the option code in place of the last two coil digits.

Step 5: Use the voltage code to specify the correct voltage for the valve.

Item	Description
1	Fully assembled valves with integrated coils
2	Fully assembled valves with conventional coils and enclosures

Pressure Vessels		Enclosure		Coil		Voltage Code
7121KBN2NV00	+	N0	+	C111	+	P3

Example: 7121KBN2NV00N0C111P3

Valves using Coil Chart 9 (Miniature 2-way/3-way valves and Miniature Manifold Mounted Cartridge Valves)

These valves can be ordered in two parts: pressure vessel and solenoid coil.

To order modular units, select the pressure vessel, then mix and match one of the three different coil styles to meet your application requirement.

The available modular coils consist of the following coils:

- C4 conduit coil
- B4 leaded coil
- D6 DIN coil

To order pressure vessel:
Choose your pressure vessel from the the technical specification pages. The pressure vessel will contain the required coil retainig nut.

To order coil:

- Select either the C4 (Conduit), B4 (leaded) or D6 (DIN) coil required.
- Select voltage code
- Add voltage code to end of the coil number
- The coil assembly will contain the O-ring seals.

Assembled Valve Units:
To order a complete valve follow these three easy steps:

Step 1: Choose your pressure vessel from the technical specification pages.

Step 2: Select either the encapsulated (Integrated) or conventional coil. Apply that two-digit code to the end of the pressure vessel part number.

Step 3: Lastly, go to the voltage code chart and select the one digit voltage code and add the code to the end of the coil code to create the final complete assembled valve part number.

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2-Way Miniature

Direct Acting Valves
1/8" NPT



General Description:

2-way Miniature Direct Acting valves are available in Normally Closed and Normally Open constructions with interchangeable AC/DC coils. Valves are standard with 303 stainless steel bodies and FKM seals. These compact valves are durable with the potential for long life. Under lab conditions, these valves have survived 20 million cycles.

Installation
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 A4

Compatible Fluids
Lubricated Air, Inert Gases, Water, Light Oil (300 SSU) and additional fluids compatible with materials of construction.

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
For other voltages – consult factory



Coil Classification:

Class F standard/Class H available AC & DC coils are interchangeable on the same pressure vessel.

Agency Approvals:
Standard valves with NEMA 4X are C-UL-US Listed or Recognized. For additional details, consult factory.

NSF Certification available on 2-way Normally Closed Valves. (Consult Factory)

Maximum Ambient Temperature
135°F (AC)/125°F (DC)

In absence of moisture, applications at temps as low as -20°F are possible. Please refer to page A4 for details.

Applications:

- Instrumentation equipment
- Analyzers and diagnostic equipment
- Gas analyzers
- Medical and dental equipment
- Portable welding equipment
- Spraying equipment
- Lubrication equipment
- Beverage dispensing & vending machines
- Oil burners
- Humidification and misting equipment
- Mobile fuel shut off
- Textile and dry cleaning equipment
- Air horns
- Pneumatic fan clutch
- Irrigation equipment

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2-Way Miniature Direct Acting - 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												
1/8	3/64	0.06	0	950	950	950	8.5	240	FKM	20CC02EV4	9	A1
1/8	1/16	0.10	0	625	625	625	8.5	240	FKM	20CC02GV4	9	A1
1/8	5/64	0.15	0	450	450	450	8.5	240	FKM	20CC02JV4	9	A1
1/8	3/32	0.22	0	320	320	320	8.5	240	FKM	20CC02LV4	9	A1
1/8	7/64	0.28	0	245	245	245	8.5	240	FKM	20CC02MV4	9	A1
1/8	1/8	0.32	0	175	175	175	8.5	240	FKM	20CC02PV4	9	A1
1/8	5/32	0.38	0	100	100	100	8.5	240	FKM	20CC02QV4	9	A1
DC TECHNICAL SPECIFICATIONS												
1/8	3/64	0.06	0	390	390	390	8	240	FKM	20CC02EV4	9	A1
1/8	1/16	0.10	0	255	255	255	8	240	FKM	20CC02GV4	9	A1
1/8	5/64	0.15	0	180	180	180	8	240	FKM	20CC02JV4	9	A1
1/8	3/32	0.22	0	130	130	130	8	240	FKM	20CC02LV4	9	A1
1/8	7/64	0.28	0	100	100	100	8	240	FKM	20CC02MV4	9	A1
1/8	1/8	0.32	0	60	60	60	8	240	FKM	20CC02PV4	9	A1
1/8	5/32	0.38	0	30	30	30	8	240	FKM	20CC02QV4	9	A1

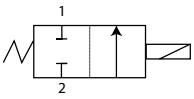
2-Way Miniature Direct Acting - Normally Open - Stainless Steel

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												
1/8	1/32	0.02	0	375	375	375	10	240	FKM	20CF02AV4	9	A2
1/8	3/64	0.06	0	230	230	230	10	240	FKM	20CF02EV4	9	A2
1/8	1/16	0.10	0	150	150	150	10	240	FKM	20CF02GV4	9	A2
1/8	5/64	0.14	0	105	105	105	10	240	FKM	20CF02JV4	9	A2
1/8	3/32	0.20	0	80	80	80	10	240	FKM	20CF02LV4	9	A2
DC TECHNICAL SPECIFICATIONS												
1/8	1/32	0.02	0	375	375	375	8	240	FKM	20CF02AV4	9	A2
1/8	3/64	0.06	0	230	230	230	8	240	FKM	20CF02EV4	9	A2
1/8	1/16	0.10	0	150	150	150	8	240	FKM	20CF02GV4	9	A2
1/8	5/64	0.14	0	105	105	105	8	240	FKM	20CF02JV4	9	A2
1/8	3/32	0.20	0	80	80	80	8	240	FKM	20CF02LV4	9	A2

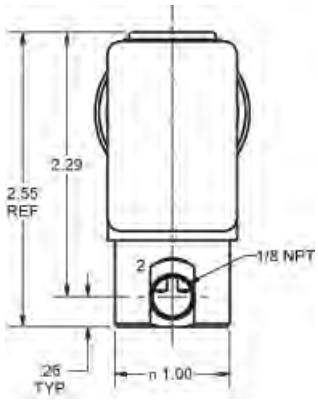
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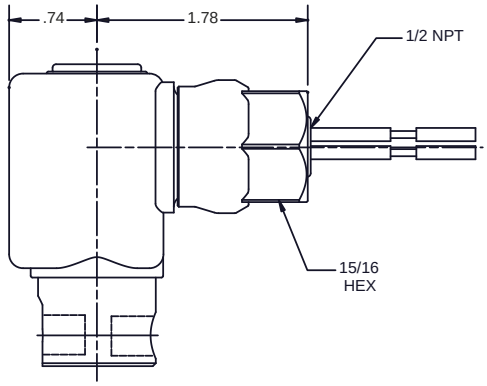
Valve Reference A1

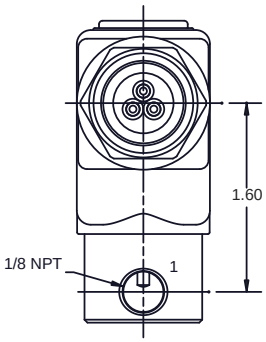


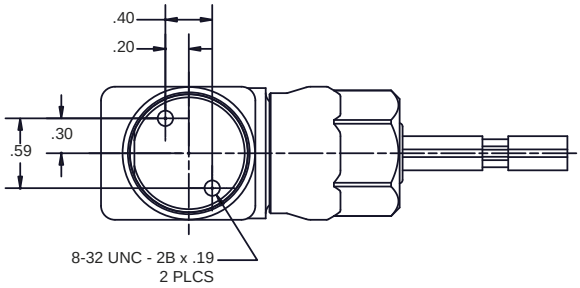


2-Way Normally Closed:
20CCxx
Port Identification:
2-In/1-Out



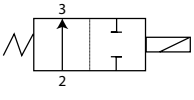




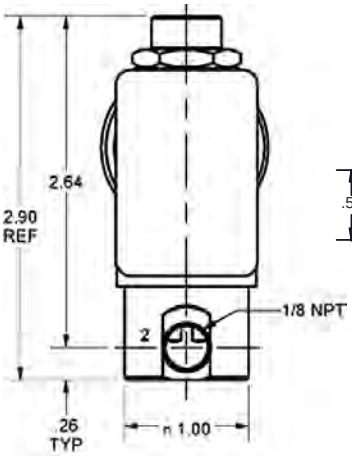


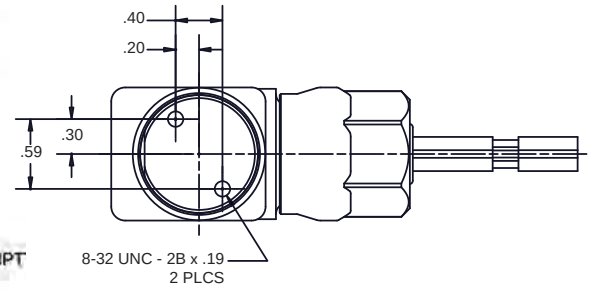
Valve Reference A2

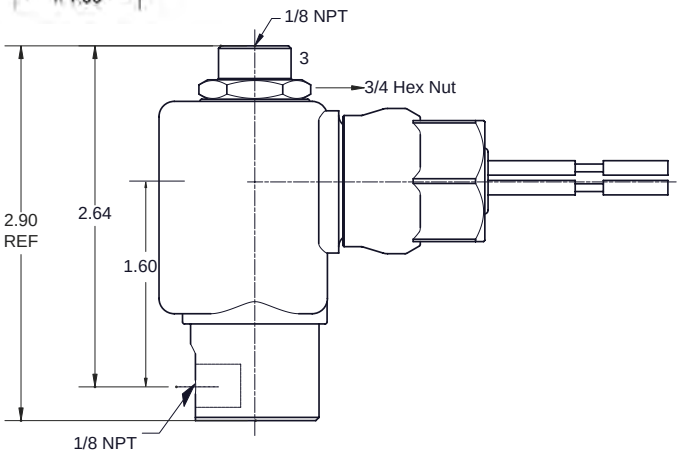




2-Way Normally Open:
20CFxx
Port Identification:
2-In/3-Out







2-Way Miniature Direct Acting Materials of Construction**

Product*	Wattage	Type	Port Size	Body	Sleeve Tube	Sleeve Stop	Sleeve Flange	"Plunger Blank"	Plunger Spring	Shading Ring	Max. Ambient Temp.
20CC02	8.5 (AC)	2WNC	1/8	303SS	304SS	430FR	430FR	430FR	18-8SS	Copper	135°F
20CC02	8 (DC)	2WNC	1/8	303SS	304SS	430FR	430FR	430FR	18-8SS	Copper	125°F
20CF02	10 (AC)	2WNC	1/8	303SS	304SS	430FR	430FR	430FR	18-8SS	Copper	135°F
20CF02	8 (DC)	2WNC	1/8	303SS	304SS	430FR	430FR	430FR	18-8SS	Copper	125°F

* Shows the first 6 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.

Check out the 2-Way and 3-Way Manifold Mounted Miniature Cartridge valves in the Specialty Section of this catalog.





Product Features:

- Space saving approach
- Less manifold machining means lower overall manifold cost
- No manifold orifices to machine or press in
- Cartridge valves are 100% tested
- Easy to assemble & disassemble with a 5/32" hex wrench. (Torque = 25-35 in-lbs).
- No loose parts: sleeve, plunger, spring and orifice are pressed together as one unit
- Available with all coils and enclosures shown on Chart 9 in Coil Section of this catalog.

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2-way

Direct Acting Valves
1/8" - 3/4" NPT



General Description:

2-way Direct Acting valves are used in a wide variety of applications that require zero pressure differential and medium to high pressures and flow. These valves are available in a variety of elastomers as well as, brass and stainless construction.

Installation
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 A24

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 A24 for details.

Applications:

- Instrumentation equipment
- Analyzers and diagnostic equipment
- Medical and dental equipment
- Portable welding equipment
- Spraying equipment
- Lubrication equipment
- Beverage dispensing & vending machines
- Oil burners
- Humidification and misting equipment
- Mobile fuel shut off
- Textile and dry cleaning equipment
- Air horns
- Pneumatic fan clutch
- Irrigation equipment

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2-Way Direct Acting - 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												
1/8	1/16	0.11	0	1000	1000	1000	10	165	PCTFE	7121KBN1GF00	7	A13
1/8	1/8	0.31	0	365	365	365	10	165	PCTFE	7121KBN1NF00	7	A13
1/4	3/64	0.06	0	750	750	500	6	180	NBR	04F20C1103AAF	1	A3
1/4	1/16	0.11	0	1000	1000	1000	10	165	PCTFE	7121KBN2GF00	7	A13
1/4	3/32	0.17	0	360	340	160	6	180	NBR	04F20C1106AAF	1	A3
1/4	1/8	0.31	0	365	365	365	10	165	PCTFE	7121KBN2NF00	7	A13
1/4	1/8	0.31	0	145	145	145	10	185	FKM	7121KBN2NV00	7	A13
1/4	1/8	0.35	0	300	300	200	11	180	NBR	04F20C1108ACF	4	A16
1/4	1/8	0.35	0	140	165	90	6	180	NBR	04F20C1108AAF	1	A3
1/4	5/32	0.50	0	180	200	145	11	180	NBR	04F20C2110ACF	4	A4
1/4	5/32	0.52	0	120	120	120	10	185	FKM	7121KBN2QV00	7	A13
1/4	7/32	0.72	0	100	100	100	16	180	NBR	04F20C2114BDF	5	A4
1/4	13/64	0.76	0	80	80	80	10	185	FKM	7121KBN2SV00	7	A13
1/4	9/32	0.88	0	90	100	90	16	200	NBR	04F20C2118BDF	5	A4
3/8	5/32	0.52	0	150	150	145	11	180	NBR	06F20C2110ACF	4	A7
3/8	7/32	0.72	0	100	100	100	16	200	NBR	06F20C2114BDF	5	A7
3/8	1/4	0.83	0	55	55	55	10	185	FKM	7121KBN3UV00	7	A13
3/8	9/32	0.85	0	90	80	80	16	200	NBR	06F20C2118BDF	5	A7
3/8	5/16	1.10	0	20	20	-	11	180	NBR	06F20C2120ACF	4	A7
3/8	5/16	1.10	0	15	12	-	6	180	NBR	06F20C2120AAF	1	A8
1/2	7/16	2.50	0	35	35	35	22	185	FKM	7121KBN44V00	8	A14
1/2	7/16	2.50	0	17.5	17.5	17.5	10	185	FKM	7121KBN44V00	7	A14
1/2	7/16	2.80	0	15	15	-	16	200	NBR	08F20C2128ADF	5	A9
3/4	3/4	5.00	0	4	4	-	16	200	NBR	12F20C2148ADF	5	A9

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2-Way Direct Acting - 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												
1/8	1/16	0.11	0	700	700	700	22	165	PCTFE	7121KBN1GF00	8	A13
1/8	1/16	0.11	0	435	435	435	10	165	PCTFE	7121KBN1GF00	7	A13
1/8	1/8	0.31	0	205	205	205	22	165	PCTFE	7121KBN1NF00	8	A13
1/8	1/8	0.31	0	125	125	125	10	165	PCTFE	7121KBN1NF00	7	A13
1/4	3/64	0.06	0	500	500	500	9.5	120	NBR	04F20C1103A1F	3	A3
1/4	1/16	0.11	0	700	700	700	22	165	PCTFE	7121KBN2GF00	8	A13
1/4	1/16	0.11	0	435	435	435	10	165	PCTFE	7121KBN2GF00	7	A13
1/4	3/32	0.17	0	150	125	125	9.5	120	NBR	04F20C1106A1F	3	A3
1/4	1/8	0.31	0	205	205	205	22	165	PCTFE	7121KBN2NF00	8	A13
1/4	1/8	0.31	0	125	125	125	10	185	FKM	7121KBN2NV00	7	A13
1/4	1/8	0.31	0	125	125	125	22	185	FKM	7121KBN2NV00	8	A13
1/4	1/8	0.31	0	125	125	125	10	165	PCTFE	7121KBN2NF00	7	A13
1/4	1/8	0.35	0	75	70	70	11.5	150	NBR	04F20C1108A3F	6	A16
1/4	1/8	0.35	0	65	60	60	9.5	120	NBR	04F20C1108A1F	3	A3
1/4	5/32	0.52	0	75	75	75	22	185	FKM	7121KBN2QV00	8	A13
1/4	5/32	0.52	0	60	60	60	10	185	FKM	7121KBN2QV00	7	A13
1/4	13/64	0.76	0	40	40	40	22	185	FKM	7121KBN2SV00	8	A13
1/4	13/64	0.76	0	30	30	30	10	185	FKM	7121KBN2SV00	7	A13

2-Way Direct Acting - 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												
3/8	7/32	0.72	0	25	25	25	11.5	150	NBR	06F20C2114A3F	6	A7
3/8	1/4	0.83	0	20	20	20	10	185	FKM	7121KBN3UV00	7	A13
3/8	1/4	0.83	0	20	20	20	22	185	FKM	7121KBN3UV00	8	A13
3/8	9/32	0.85	0	14	14	14	9.5	150	NBR	06F20C2118A1F	3	A8
3/8	5/16	1.10	0	9	9	-	11.5	150	NBR	06F20C2120A3F	6	A7
3/8	5/16	1.10	0	3	3	-	9.5	120	NBR	06F20C2120A1F	3	A8
1/2	7/16	2.50	0	5	5	5	10	185	FKM	7121KBN44V00	7	A14
1/2	7/16	2.50	0	10	10	10	22	185	FKM	7121KBN44V00	8	A14
1/2	7/16	2.80	0	3	3	-	11.5	180	NBR	08F20C2128A3F	6	A9

2-Way Direct Acting - 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												
1/8	3/64	0.06	0	1000	1000	1000	10	165	PCTFE	71215SN1EF00	7	A10
1/8	3/64	0.06	0	450	450	450	10	185	NBR	71215SN1EN00	7	A10
1/8	1/16	0.10	0	700	700	700	10	165	PCTFE	71215SN1GF00	7	A10
1/8	1/16	0.10	0	350	350	350	10	185	NBR	71215SN1GN00	7	A10
1/8	3/32	0.18	0	650	650	650	22	165	PCTFE	71215SN1KF00	8	A10
1/8	3/32	0.18	0	260	260	260	10	165	PCTFE	71215SN1KF00	7	A10
1/8	3/32	0.18	0	275	275	275	10	185	NBR	71215SN1KN00	7	A10
1/8	1/8	0.28	0	520	520	520	22	165	PCTFE	71215SN1MF00	8	A10
1/8	1/8	0.28	0	200	200	200	10	185	NBR	71215SN1MN00	7	A10
1/8	1/8	0.28	0	200	200	200	10	165	PCTFE	71215SN1MF00	7	A10
1/8	5/32	0.40	0	150	150	150	22	185	NBR	71215SN1QN00	8	A10
1/8	5/32	0.40	0	110	110	110	10	185	NBR	71215SN1QN00	7	A10
1/8	3/16	0.50	0	90	90	90	22	185	NBR	71215SN1SN00	8	A10
1/8	3/16	0.50	0	80	80	80	10	185	NBR	71215SN1SN00	7	A10
1/8	1/4	0.75	0	70	70	70	22	185	NBR	71215SN1VN00	8	A10
1/8	1/4	0.75	0	40	40	40	10	185	NBR	71215SN1VN00	7	A10

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2-Way Direct Acting - Normally Closed- Stainless Steel (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												
1/4	3/64	0.06	0	1000	1000	1000	10	165	PCTFE	71215SN2EF00	7	A10
1/4	3/64	0.06	0	450	450	450	10	185	NBR	71215SN2EN00	7	A10
1/4	1/16	0.10	0	700	700	700	10	165	PCTFE	71215SN2GF00	7	A10
1/4	1/16	0.10	0	350	350	350	10	185	NBR	71215SN2GN00	7	A10
1/4	3/32	0.18	0	650	650	650	22	165	PCTFE	71215SN2KF00	8	A10
1/4	3/32	0.18	0	275	275	275	10	185	NBR	71215SN2KN00	7	A10
1/4	3/32	0.18	0	260	260	260	10	165	PCTFE	71215SN2KF00	7	A10
1/4	1/8	0.28	0	520	520	520	22	165	PCTFE	71215SN2MF00	8	A10
1/4	1/8	0.28	0	200	200	200	10	165	PCTFE	71215SN2MF00	7	A10
1/4	1/8	0.28	0	200	200	200	10	185	NBR	71215SN2MN00	7	A10
1/4	5/32	0.40	0	150	150	150	22	185	NBR	71215SN2QN00	8	A10
1/4	5/32	0.40	0	110	110	110	10	185	NBR	71215SN2QN00	7	A10
1/4	3/16	0.50	0	90	90	90	22	185	NBR	71215SN2SN00	8	A10
1/4	3/16	0.50	0	80	80	80	10	185	NBR	71215SN2SN00	7	A10
1/4	1/4	0.75	0	70	70	70	22	185	NBR	71215SN2VN00	8	A10
1/4	1/4	0.75	0	40	40	40	10	185	NBR	71215SN2VN00	7	A10
1/4	5/16	1.10	0	55	55	55	22	185	NBR	71215SN21N00	8	A20
1/4	5/16	1.10	0	20	20	20	10	185	NBR	71215SN21N00	7	A20
3/8	3/8	2.00	0	25	25	25	22	185	NBR	71215SN33N00	8	A15
3/8	3/8	2.00	0	6	6	6	10	185	NBR	71215SN33N00	7	A15
3/8	3/8	2.00	5	11	11	11	10	185	NBR	71215SN33NHP**	7	A15

**** 71215SN33NHP: 5-11 PSI is the operating range for bubble tight sealing. Valves may leak slightly if pressure differential falls below 5 PSI.**

2-Way Direct Acting - Normally Closed- Stainless Steel (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												
1/8	3/64	0.06	0	1000	1000	1000	22	165	PCTFE	71215SN1EF00	8	A10
1/8	3/64	0.06	0	520	520	520	10	165	PCTFE	71215SN1EF00	7	A10
1/8	3/64	0.06	0	450	450	450	10	185	NBR	71215SN1EN00	7	A10
1/8	1/16	0.10	0	700	700	700	22	165	PCTFE	71215SN1GF00	8	A10
1/8	1/16	0.10	0	350	350	350	10	185	NBR	71215SN1GN00	7	A10
1/8	1/16	0.10	0	350	350	350	10	165	PCTFE	71215SN1GF00	7	A10
1/8	3/32	0.18	0	300	300	300	22	165	PCTFE	71215SN1KF00	8	A10
1/8	3/32	0.18	0	275	275	275	10	185	NBR	71215SN1KN00	7	A10
1/8	3/32	0.18	0	130	130	130	10	165	PCTFE	71215SN1KF00	7	A10
1/8	1/8	0.28	0	200	200	200	22	185	NBR	71215SN1MN00	8	A10
1/8	1/8	0.28	0	200	200	200	22	165	PCTFE	71215SN1MF00	8	A10
1/8	1/8	0.28	0	150	150	150	10	185	NBR	71215SN1MN00	7	A10
1/8	1/8	0.28	0	100	100	100	10	165	PCTFE	71215SN1MF00	7	A10
1/8	5/32	0.40	0	130	130	130	22	185	NBR	71215SN1QN00	8	A10
1/8	5/32	0.40	0	60	60	60	10	185	NBR	71215SN1QN00	7	A10
1/8	3/16	0.50	0	70	70	70	22	185	NBR	71215SN1SN00	8	A10
1/8	3/16	0.50	0	25	25	25	10	185	NBR	71215SN1SN00	7	A10
1/8	1/4	0.75	0	30	30	30	22	185	NBR	71215SN1VN00	8	A10
1/8	1/4	0.75	0	10	10	10	10	185	NBR	71215SN1VN00	7	A10
1/4	3/64	0.06	0	1000	1000	1000	22	165	PCTFE	71215SN2EF00	8	A10
1/4	3/64	0.06	0	520	520	520	10	165	PCTFE	71215SN2EF00	7	A10
1/4	3/64	0.06	0	450	450	450	10	185	NBR	71215SN2EN00	7	A10
1/4	1/16	0.10	0	700	700	700	22	165	PCTFE	71215SN2GF00	8	A10
1/4	1/16	0.10	0	350	350	350	10	165	PCTFE	71215SN2GF00	7	A10
1/4	1/16	0.10	0	350	350	350	10	185	NBR	71215SN2GN00	7	A10
1/4	3/32	0.18	0	300	300	300	22	165	PCTFE	71215SN2KF00	8	A10
1/4	3/32	0.18	0	275	275	275	10	185	NBR	71215SN2KN00	7	A10
1/4	3/32	0.18	0	130	130	130	10	165	PCTFE	71215SN2KF00	7	A10
1/4	1/8	0.28	0	200	200	200	22	165	PCTFE	71215SN2MF00	8	A10
1/4	1/8	0.28	0	200	200	200	22	185	NBR	71215SN2MN00	8	A10
1/4	1/8	0.28	0	150	150	150	10	185	NBR	71215SN2MN00	7	A10
1/4	1/8	0.28	0	100	100	100	10	165	PCTFE	71215SN2MF00	7	A10
1/4	5/32	0.40	0	60	60	60	10	185	NBR	71215SN2QN00	7	A10

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2-Way Direct Acting - Normally Closed- Stainless Steel (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	5/32	0.40	0	130	130	130	22	185	NBR	71215SN2QN00	8	A10
1/4	3/16	0.50	0	70	70	70	22	185	NBR	71215SN2SN00	8	A10
1/4	3/16	0.50	0	25	25	25	10	185	NBR	71215SN2SN00	7	A10
1/4	1/4	0.75	0	30	30	30	22	185	NBR	71215SN2VN00	8	A10
1/4	1/4	0.75	0	10	10	10	10	185	NBR	71215SN2VN00	7	A10
1/4	5/16	1.10	0	10	10	10	22	185	NBR	71215SN21N00	8	A20
1/4	5/16	1.10	0	3	3	3	10	185	NBR	71215SN21N00	7	A20
3/8	3/8	2.00	0	5	5	5	22	185	NBR	71215SN33N00	8	A15

2-Way Direct Acting - 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												
1/8	1/16	0.11	0	435	435	435	10	165	PCTFE	7122KBN1GF00	7	A13
1/8	3/32	0.15	0	275	200	150	6	180	NBR	02F20O1106AAF	1	A17
1/8	3/32	0.21	0	175	175	175	10	165	PCTFE	7122KBN1LF00	7	A13
1/8	1/8	0.21	0	125	100	85	6	180	NBR	02F20O1108AAF	1	A17
1/4	3/64	0.06	0	750	700	700	11	180	NBR	04F20O1103ACF	4	A5
1/4	1/16	0.11	0	435	435	435	10	165	PCTFE	7122KBN2GF00	7	A13
1/4	3/32	0.17	0	300	250	230	11	180	NBR	04F20O1106ACF	4	A5
1/4	3/32	0.21	0	175	175	175	10	165	PCTFE	7122KBN2LF00	7	A13
1/4	1/8	0.35	0	130	110	100	11	180	NBR	04F20O1108ACF	4	A5
1/4	5/32	0.49	0	85	75	60	11	180	NBR	04F20O2110ACF	4	A6
1/4	9/32	0.96	0	30	25	20	11	180	NBR	04F20O2118ACF	4	A6
1/2	7/16	2.20	0	15	15	-	16	200	NBR	08F20O2128ADF	5	A18
3/4	3/4	5.50	0	2	2	-	11	180	NBR	12F20O2148ACF	4	A18
DC TECHNICAL SPECIFICATIONS												
1/8	1/16	0.09	0	400	250	150	9.5	120	NBR	02F20O1104A1F	3	A17
1/8	1/16	0.11	0	435	435	435	10	165	PCTFE	7122KBN1GF00	7	A13
1/8	3/32	0.15	0	190	110	110	9.5	120	NBR	02F20O1106A1F	3	A17
1/8	3/32	0.21	0	175	175	175	10	165	PCTFE	7122KBN1LF00	7	A13
1/8	1/8	0.21	0	80	60	50	9.5	120	NBR	02F20O1108A1F	3	A17
1/4	3/64	0.06	0	500	500	500	11.5	140	NBR	04F20O1103A3F	6	A5
1/4	1/16	0.11	0	435	435	435	10	165	PCTFE	7122KBN2GF00	7	A13
1/4	3/32	0.17	0	200	150	125	11.5	150	NBR	04F20O1106A3F	6	A5
1/4	3/32	0.21	0	175	175	175	10	165	PCTFE	7122KBN2LF00	7	A13
1/4	1/8	0.35	0	80	60	60	11.5	150	NBR	04F20O1108A3F	6	A5
1/4	5/32	0.49	0	45	30	30	11.5	150	NBR	04F20O2110A3F	6	A6
1/4	9/32	0.96	0	15	15	15	11.5	150	NBR	04F20O2118A3F	6	A6

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2-Way Direct Acting - 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												
1/8	3/64	0.05	0	750	750	750	10	165	PCTFE	71225SN1EF00	7	A12
1/8	3/64	0.05	0	400	400	400	10	185	NBR	71295SN1ENJ1	7	A11
1/8	1/16	0.11	0	400	400	400	10	165	PCTFE	71225SN1GF00	7	A12
1/8	1/16	0.11	0	325	325	325	10	185	NBR	71295SN1GNJ1	7	A11
1/8	3/32	0.15	0	250	250	250	10	185	NBR	71295SN1KNJ1	7	A11
1/8	3/32	0.15	0	170	170	170	10	165	PCTFE	71225SN1KF00	7	A12
1/4	3/64	0.05	0	750	750	750	10	165	PCTFE	71225SN2EF00	7	A12
1/4	3/64	0.05	0	400	400	400	10	185	NBR	71295SN2ENJ1	7	A11
1/4	1/16	0.11	0	400	400	400	10	165	PCTFE	71225SN2GF00	7	A12
1/4	1/16	0.11	0	325	325	325	10	185	NBR	71295SN2GNJ1	7	A11
1/4	3/32	0.15	0	250	250	250	10	185	NBR	71295SN2KNJ1	7	A11
1/4	3/32	0.15	0	170	170	170	10	165	PCTFE	71225SN2KF00	7	A12
DC TECHNICAL SPECIFICATIONS												
1/8	3/64	0.05	0	750	750	750	10	165	PCTFE	71225SN1EF00	7	A12
1/8	3/64	0.05	0	400	400	400	10	185	NBR	71295SN1ENJ1	7	A11
1/8	1/16	0.11	0	400	400	400	10	165	PCTFE	71225SN1GF00	7	A12
1/8	1/16	0.11	0	325	325	325	10	185	NBR	71295SN1GNJ1	7	A11
1/8	3/32	0.15	0	250	250	250	10	185	NBR	71295SN1KNJ1	7	A11
1/8	3/32	0.15	0	170	170	170	10	165	PCTFE	71225SN1KF00	7	A12
1/4	3/64	0.05	0	750	750	750	10	165	PCTFE	71225SN2EF00	7	A12
1/4	3/64	0.05	0	400	400	400	10	185	NBR	71295SN2ENJ1	7	A11
1/4	1/16	0.11	0	400	400	400	10	165	PCTFE	71225SN2GF00	7	A12
1/4	1/16	0.11	0	325	325	325	10	185	NBR	71295SN2GNJ1	7	A11
1/4	3/32	0.15	0	250	250	250	10	185	NBR	71295SN2KNJ1	7	A11
1/4	3/32	0.15	0	170	170	170	10	165	PCTFE	71225SN2KF00	7	A12

2-Way Direct Acting - Bi-Directional* - Stainless Steel

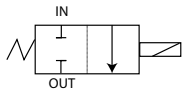
Port Size NPT	Orifice Size in.	Flow Factor Cv	Operating Pressure Differential (MOPD) PSI				Watt	Max. Media Temp. °F	Seal	Pressure Vessel Number	Reference	
			Min.	Air, Inert Gas	Water	Light Oil					Coil	Valve
AC TECHNICAL SPECIFICATIONS												
1/4	1/32	0.02	0	400	400	400	10	185	NBR	71235SN2AN00	7	A19
1/4	3/64	0.06	0	180	180	180	10	185	NBR	71235SN2EN00	7	A19
1/4	1/16	0.10	0	110	110	110	10	185	NBR	71235SN2GN00	7	A19
1/4	3/32	0.17	0	70	70	70	10	185	NBR	71235SN2KN00	7	A19
1/4	1/8	0.28	0	45	45	45	10	185	NBR	71235SN2MN00	7	A19
DC TECHNICAL SPECIFICATIONS												
1/4	1/32	0.02	0	400	400	400	10	185	NBR	71235SN2AN00	7	A19
1/4	3/64	0.06	0	180	180	180	10	185	NBR	71235SN2EN00	7	A19
1/4	1/16	0.10	0	110	110	110	10	185	NBR	71235SN2GN00	7	A19
1/4	3/32	0.17	0	70	70	70	10	185	NBR	71235SN2KN00	7	A19
1/4	1/8	0.28	0	45	45	45	10	185	NBR	71235SN2MN00	7	A19

*Pressure can be applied to either inlet or outlet.

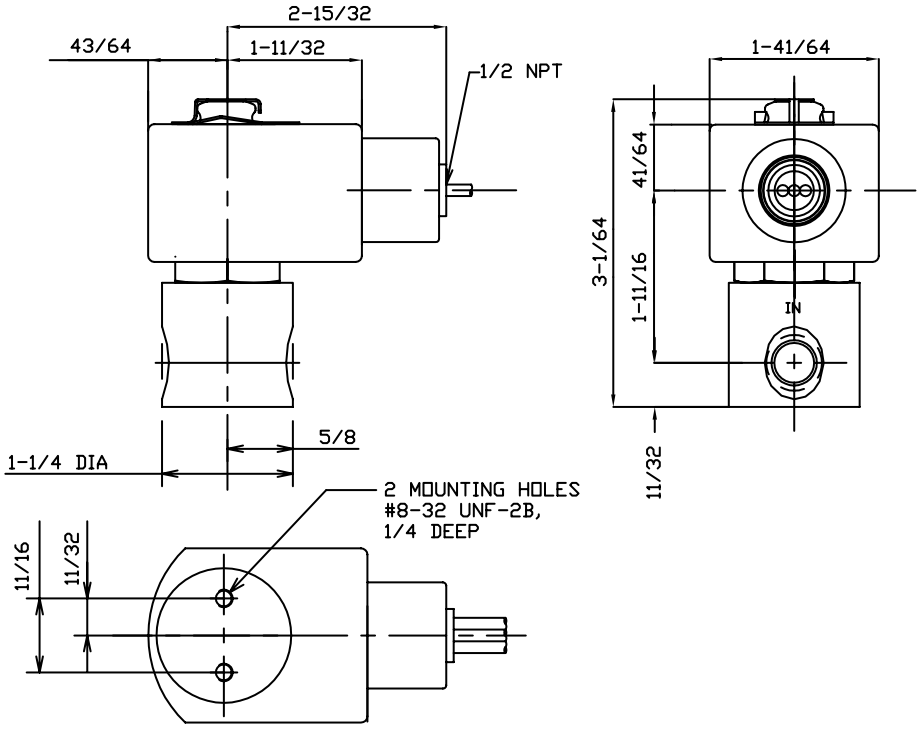
Parker Hannifin Corporation
Fluid Control Division
1 800 825 8305 (1 800 Valve05)
www.parker.com/fcd

Valve Reference A3



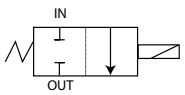


2-Way Normally Closed:
Port Identification:
In-In/Out-Out

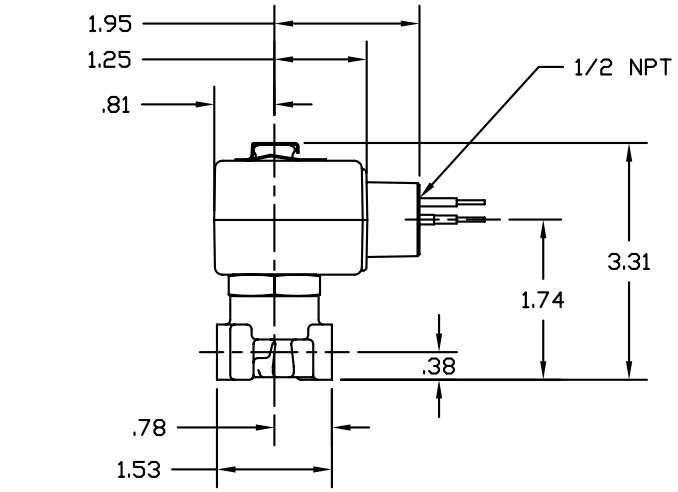


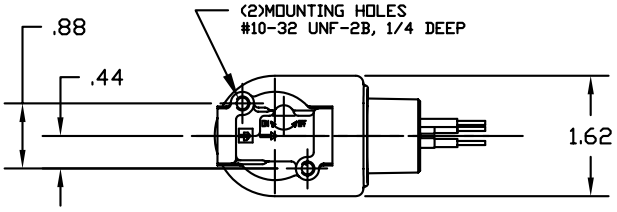
Valve Reference A4





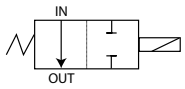
2-Way Normally Closed:
Port Identification:
In-In/Out-Out



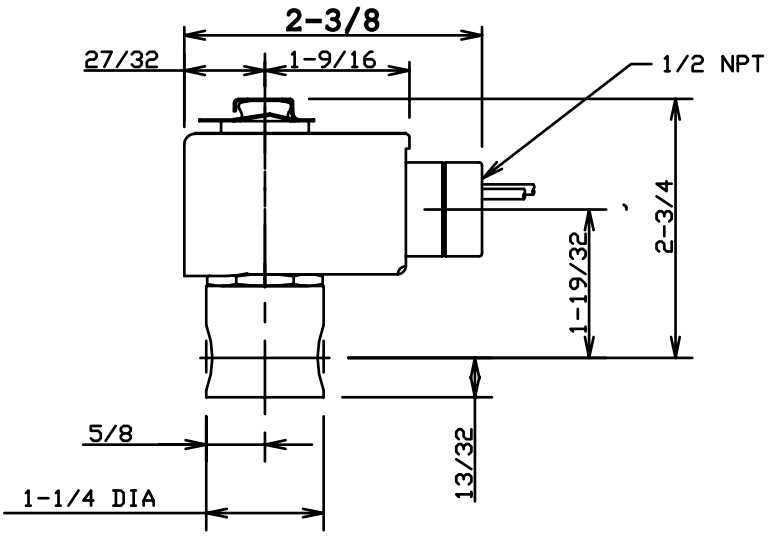


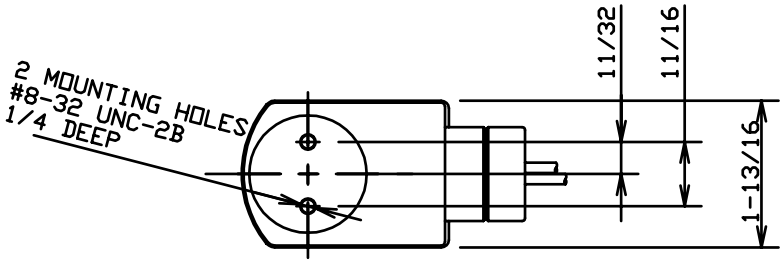
Valve Reference A5





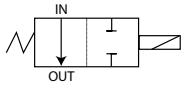
2-Way Normally Open
Port Identification:
In-In/Out-Out



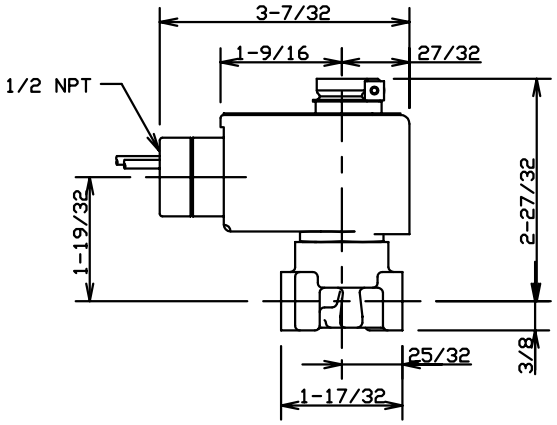


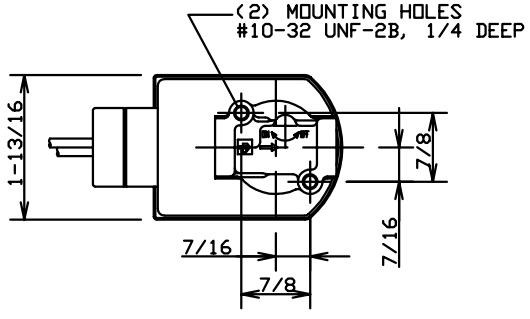
Valve Reference A6





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

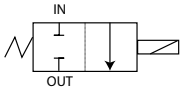




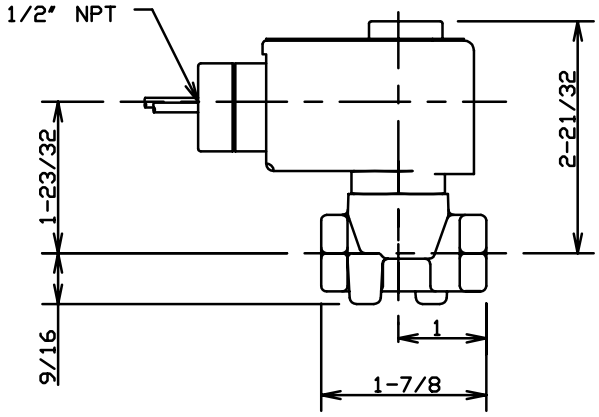
Parker Hannifin Corporation
Fluid Control Division
1 800 825 8305 (1 800 Valve05)
www.parker.com/fcd

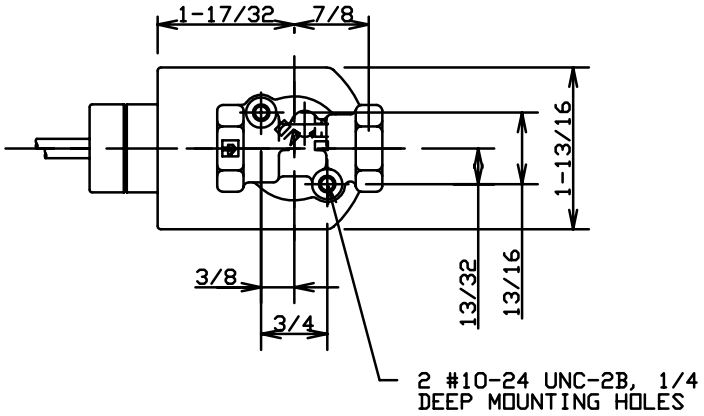
Valve Reference A7





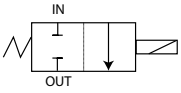
2-Way Normally Closed
Port Identification:
In-In/Out-Out



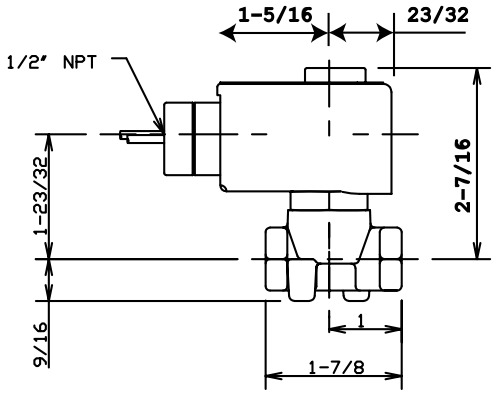


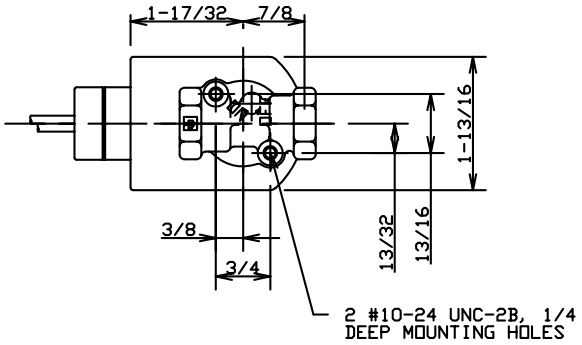
Valve Reference A8





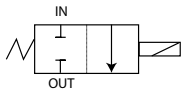
2-Way Normally Closed
Port Identification:
In-In/Out-Out



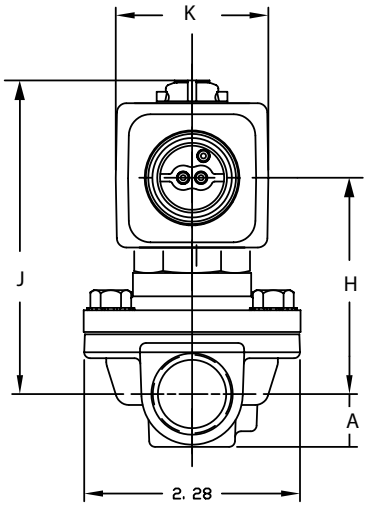


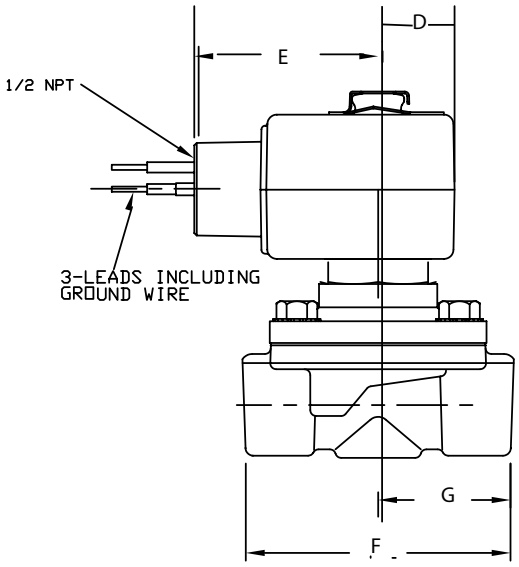
Valve Reference A9





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

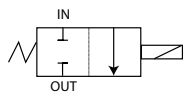




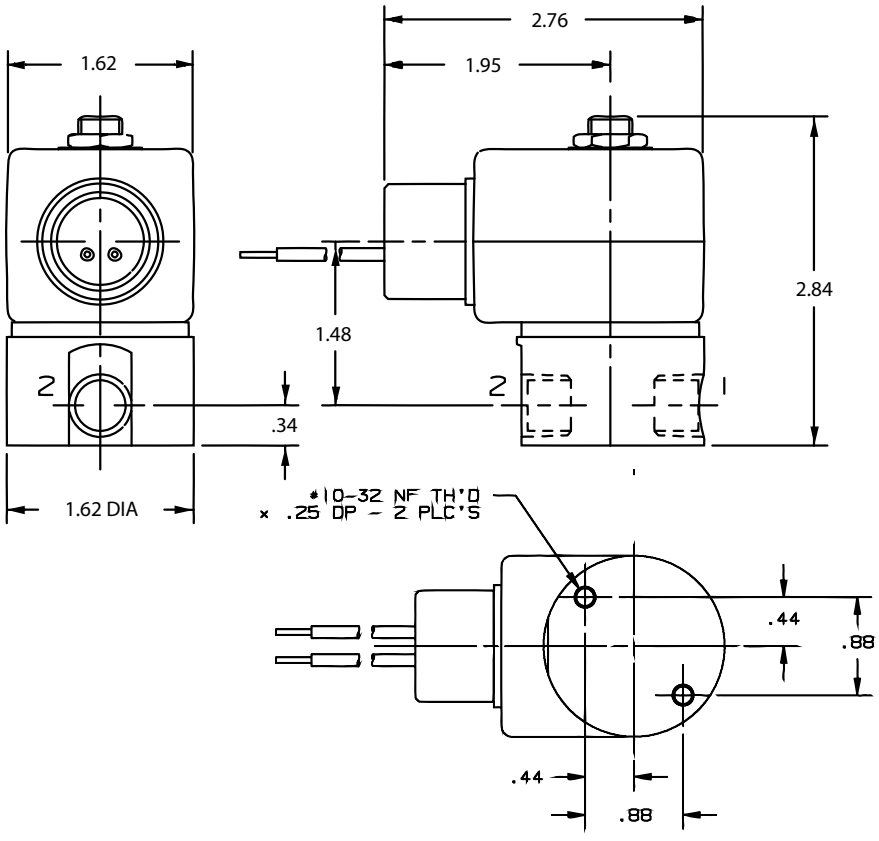
Part Number	Dimensions							
	A	D	E	F	G	H	J	K
08F20C2128AAF	9/16	23/32	1 - 25/32	2 - 13/16	1-13/32	1-15/16	2-25/32	1-9/16
08F20C2128ADF **08F20C2128A3F**	9/16	7/8	1 - 15/16	2 - 13/16	1-13/32	2-1/4	3-9/32	1-13/16
12F20C2148ADF	11/16	7/8	1 - 15/16	2 - 29/32	1-15/32	2-11/32	3-3/8	1-13/16

Valve Reference A10





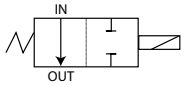
2-Way Normally Closed
Port Identification:
2-IN / 1-OUT



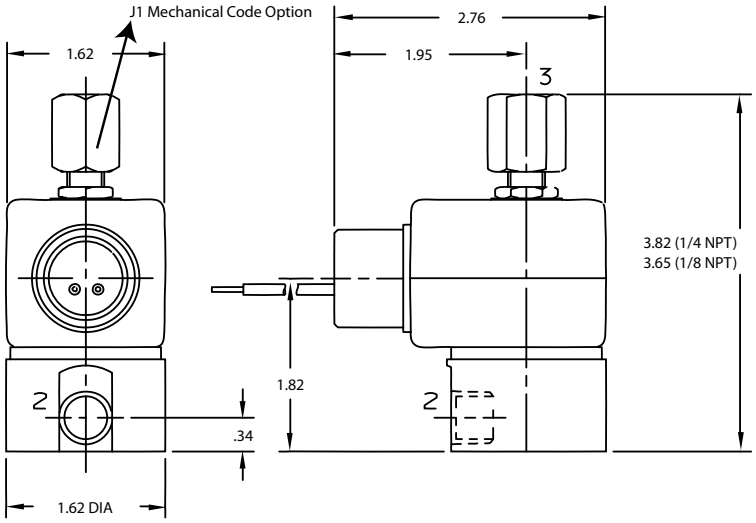
Parker Hannifin Corporation
Fluid Control Division
1 800 825 8305 (1 800 Valve05)
www.parker.com/fcd

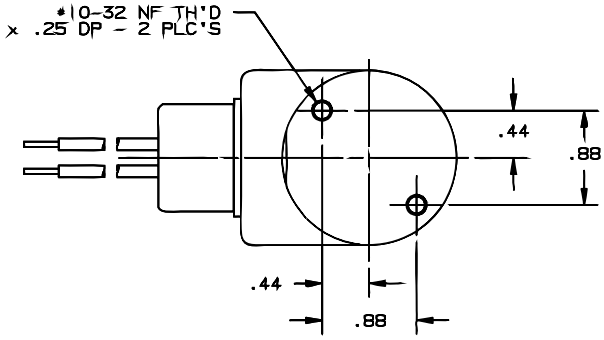
Valve Reference A11





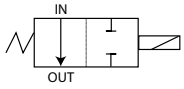
2-Way Normally Open
Port Identification:
2-IN / 3-OUT



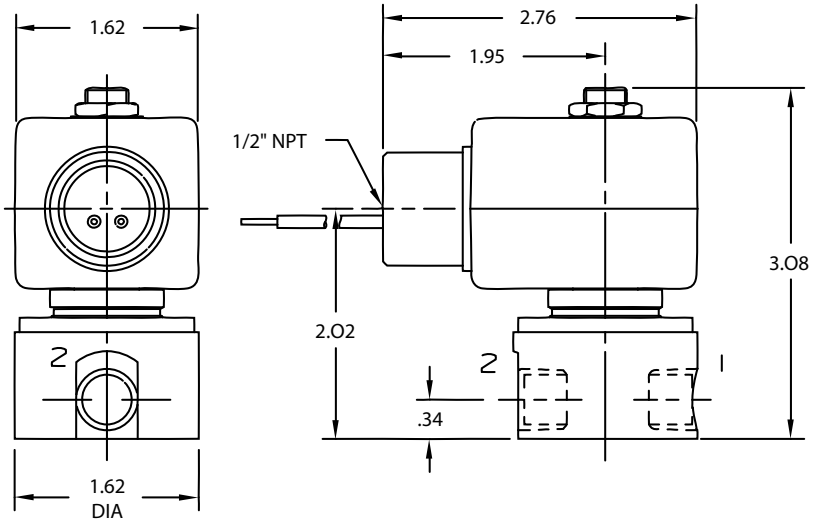


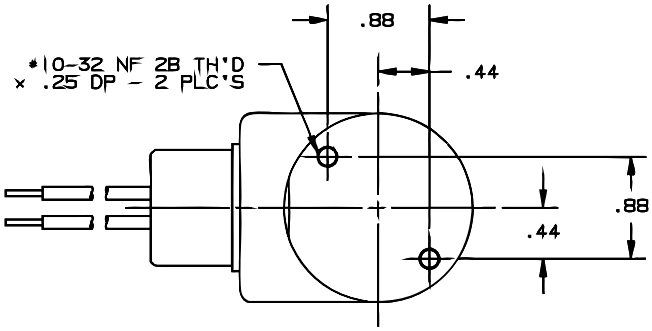
Valve Reference A12





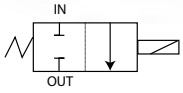
2-Way Normally Open
Port Identification:
1-OUT / 2-IN



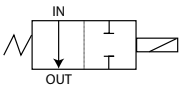


Valve Reference A13

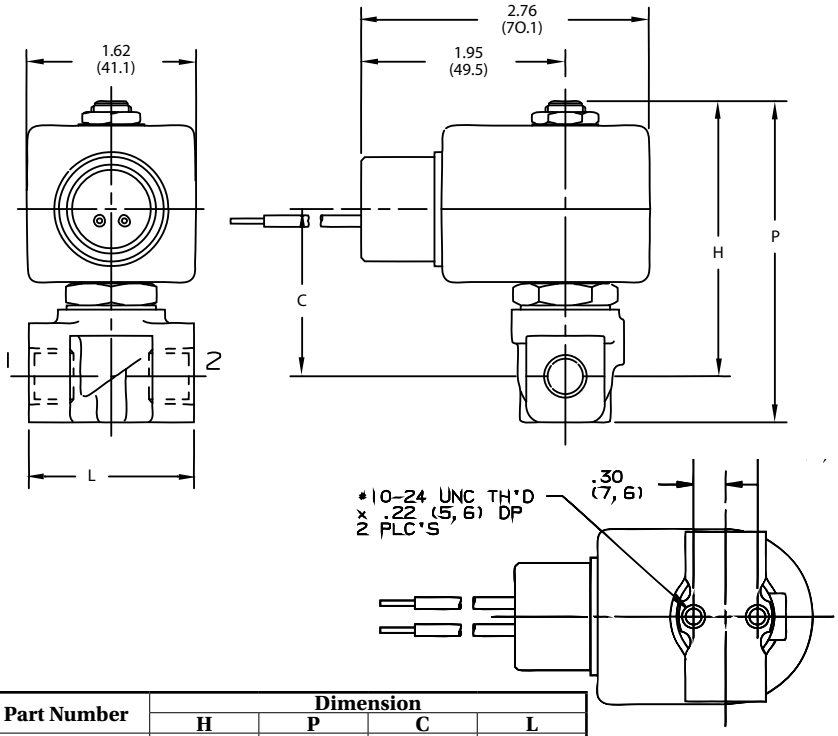




2-Way Normally Closed
7121KBN
Port Identification:
1-IN / 2-OUT



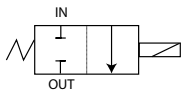
2-Way Normally Open
7122KBN
Port Identification:
1-IN / 2-OUT



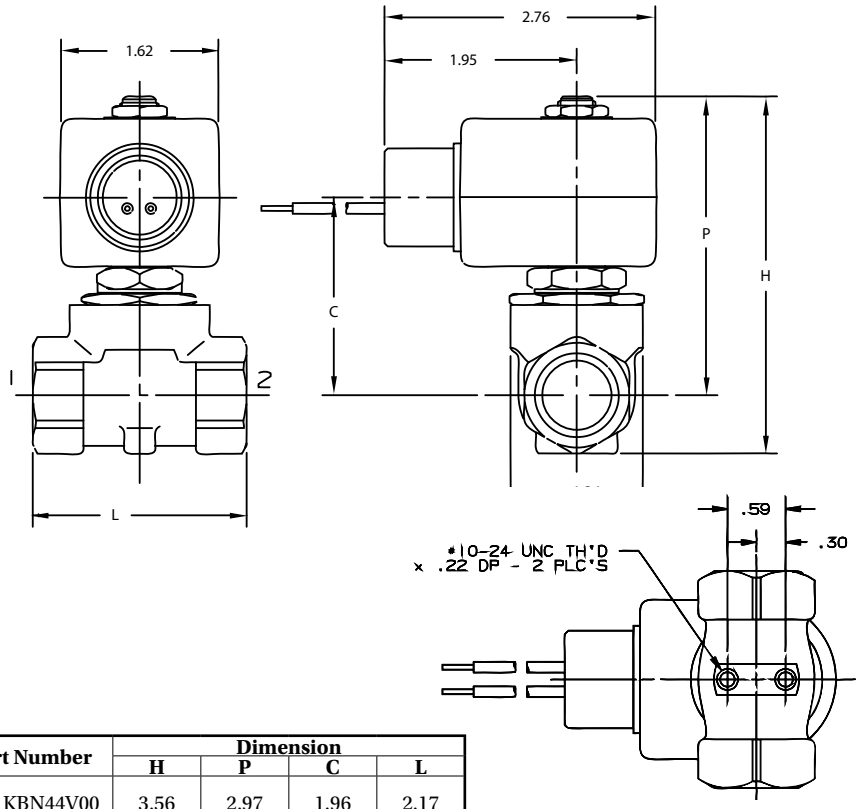
Part Number	Dimension			
	H	P	C	L
7121KBN1XXXX 7121KBN2XXXX 7122KBN1XXXX 7122KBN2XXXX	2.63	3.07	1.61	1.57
7121KBN3XXXX	2.57	3.08	1.55	1.97

Valve Reference A14





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

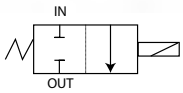


Part Number	Dimension			
	H	P	C	L
7121KBN44V00	3.56	2.97	1.96	2.17

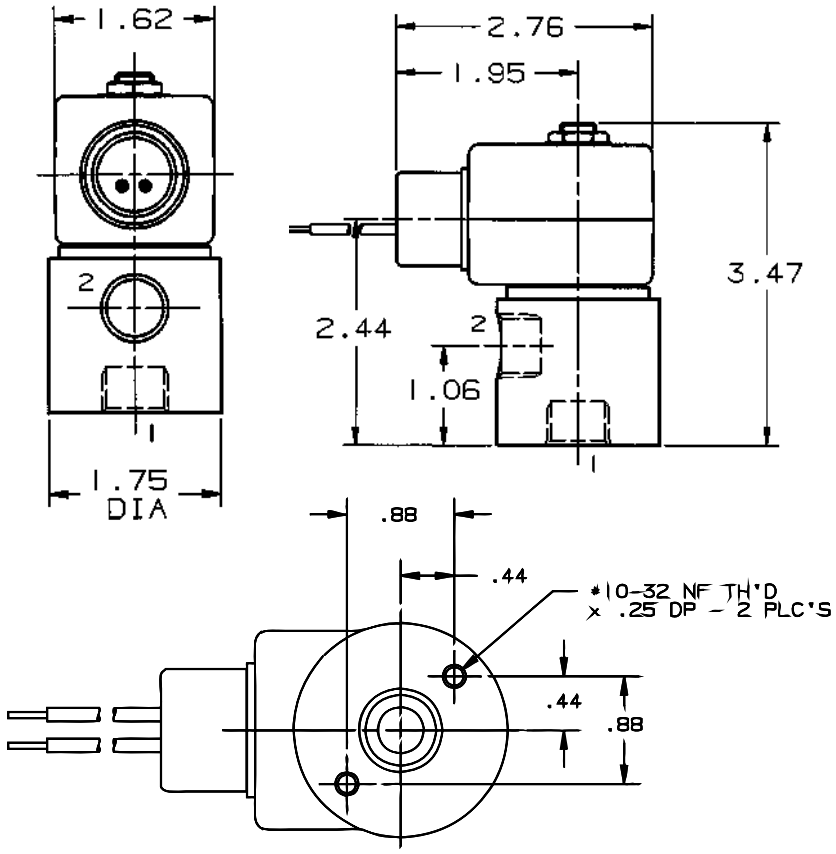
Parker Hannifin Corporation
Fluid Control Division
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www.parker.com/fcd

Valve Reference A15



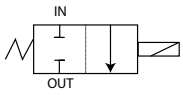


2-Way Normally Closed
Port Identification:
2-IN / 1-OUT

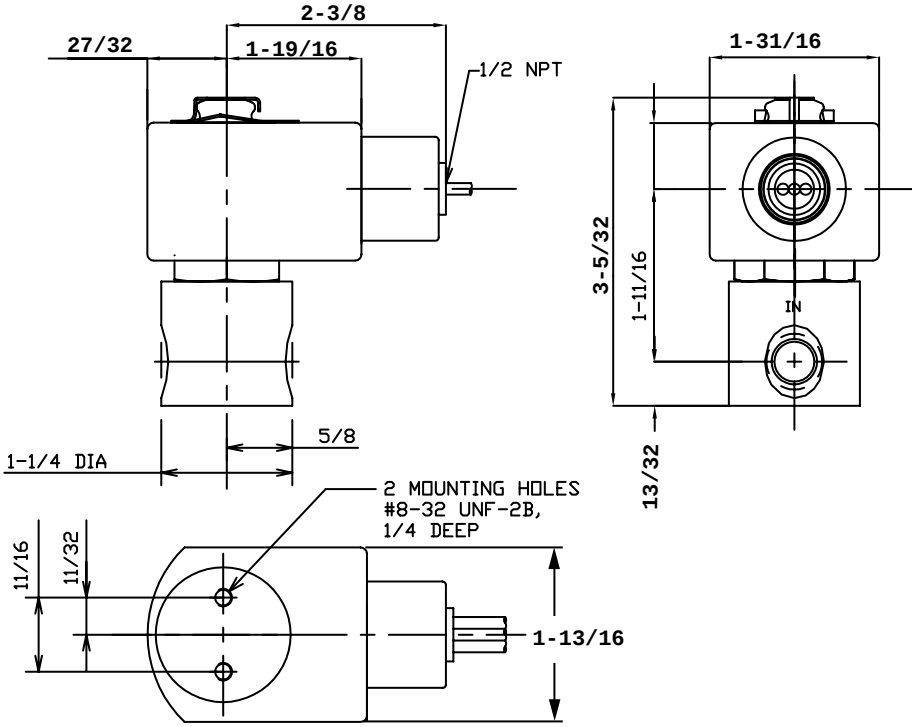


Valve Reference A16



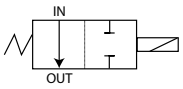


2-Way Normally Closed
Port Identification:
IN-IN / OUT-OUT

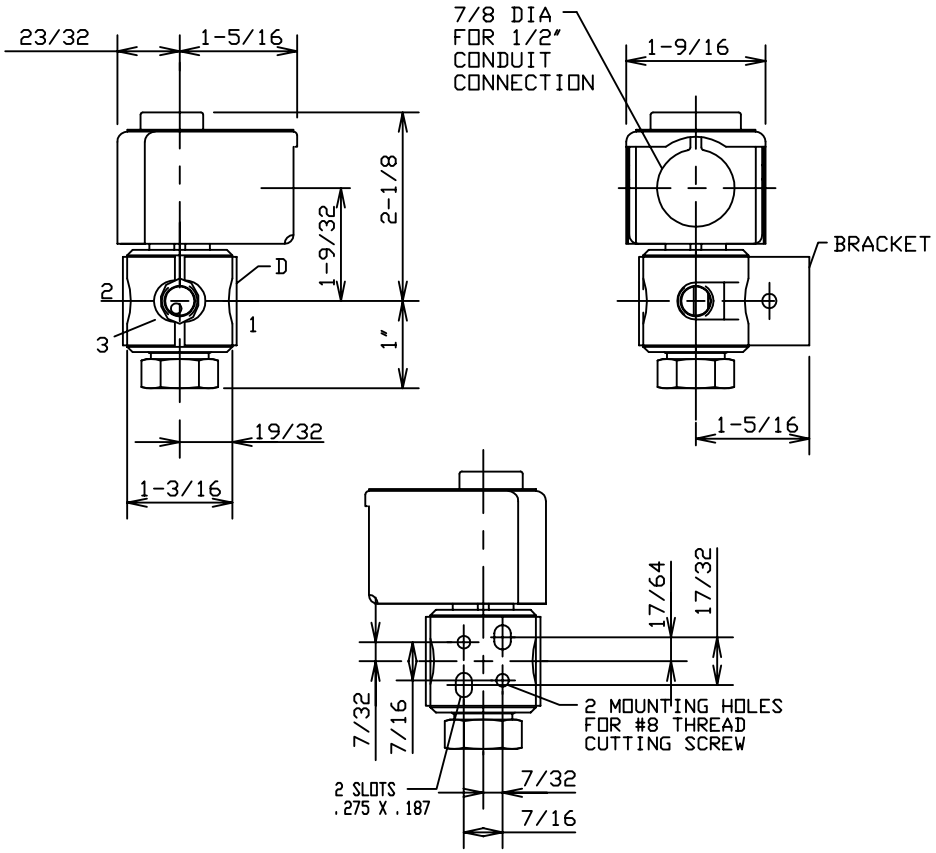


Valve Reference A17



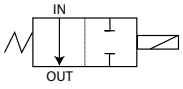


2-Way Normally Open
Port Identification:
IN-IN/OUT-OUT

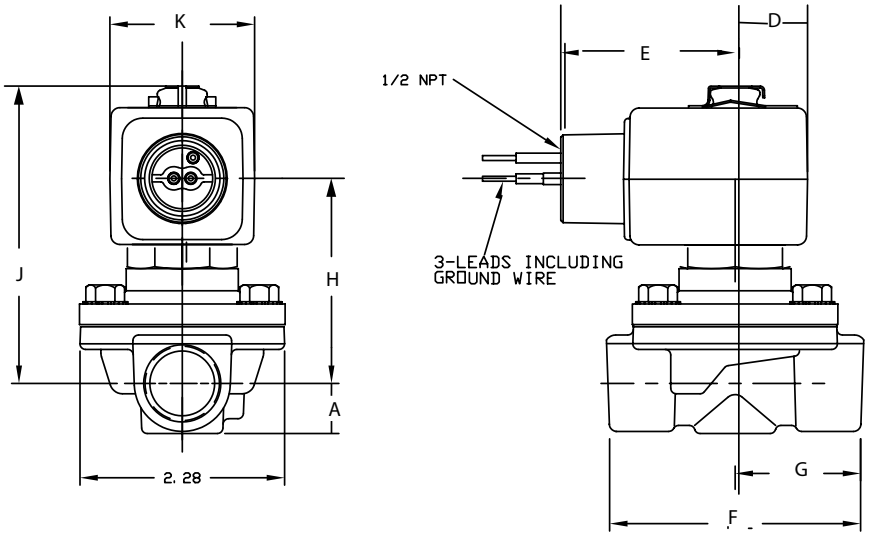


Valve Reference A18





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

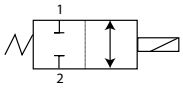


Dimensions							
A	**D**	**E**	**F**	**G**	**H**	**J**	**K**
9/16	7/8	1 - 15/16	2 - 13/16	1- 13/32	2- 1/8	3 - 9/32	1 - 13/16
11/16	7/8	1 - 15/16	2 - 29/32	1 - 15/32	2 - 7/32	3 - 3/8	1 - 13/16

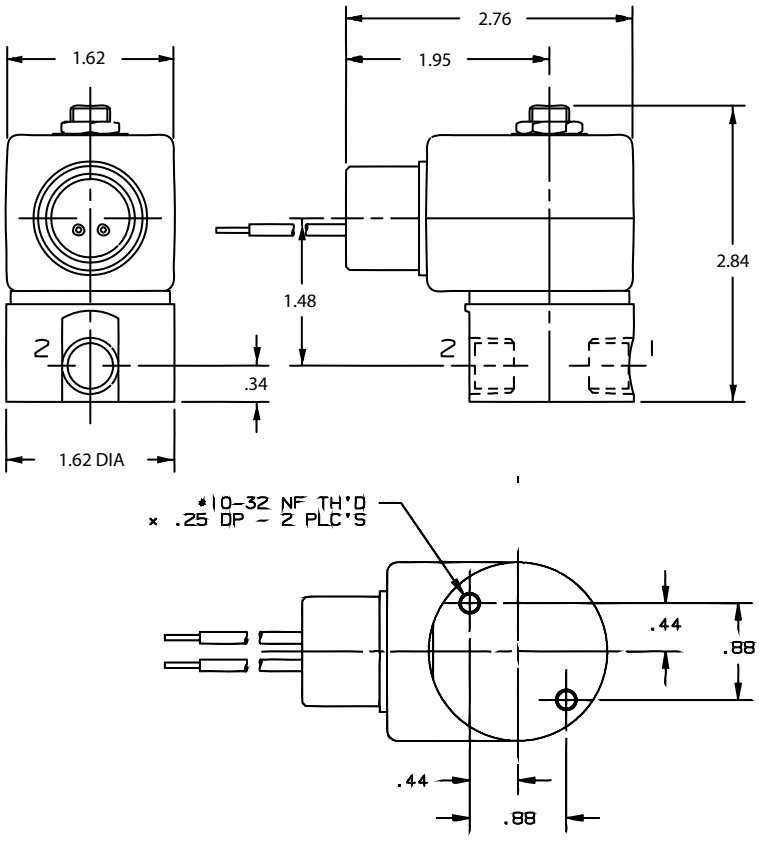
Parker Hannifin Corporation
Fluid Control Division
1 800 825 8305 (1 800 Valve05)
www.parker.com/fcd

Valve Reference A19



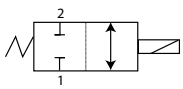


2-Way Bi-Directional
Port Identification:
Pressure can be applied
to either port.

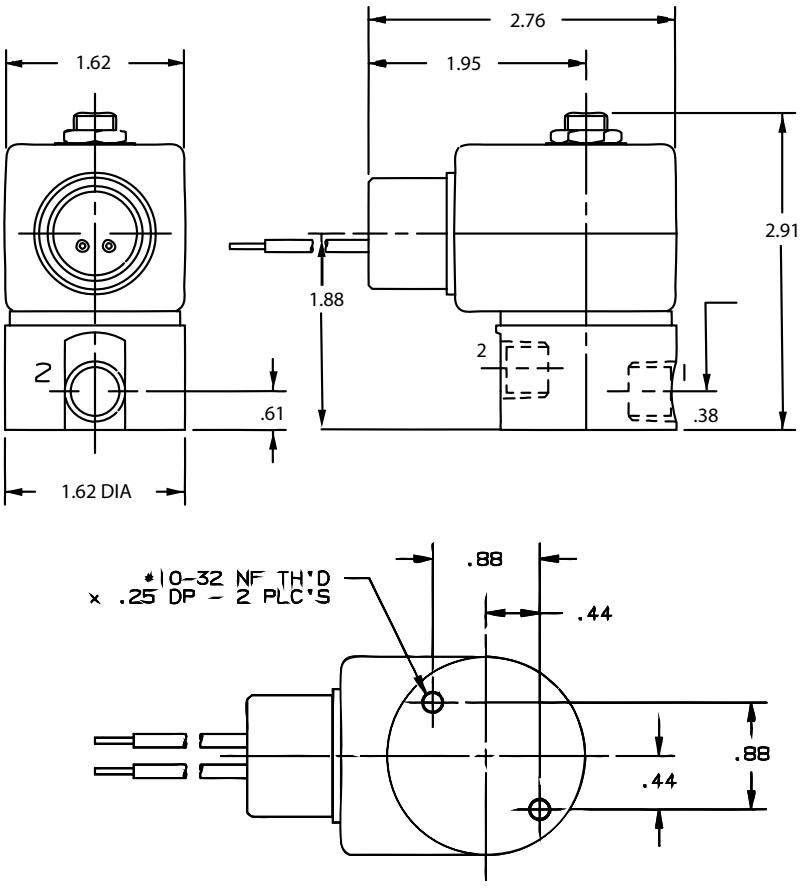


Valve Reference A20





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



2-Way Direct Acting Materials of Construction**

Product*	Wattage	Type	Port Size	Body	Sleeve Tube	Sleeve Stop	Sleeve Flange	"Plunger Blank"	Plunger Spring	Shading Ring	Max. Ambient Temp.
02F20O1	6	2WNO	1/8	Brass	305SS	430FR	12L14 Plated	430FR	17-7PH	Copper	130°F
02F20O1	9.5, 10	2WNO	1/8	Brass	305SS	430FR	12L14 Plated	430FR	17-7PH	Copper	77°F
04F20C1	6, 11	2WNC	1/4	Brass	305SS	430FR	12L14 Plated	430FR	17-7PH	Copper	130°F
04F20C1	9.5, 10, 16	2WNC	1/4	Brass	305SS	430FR	12L14 Plated	430FR	17-7PH	Copper	77°F
04F20C2	6, 11	2WNC	1/4	Brass	305SS	430FR	12L14 Plated	430FR	17-7PH	Copper	130°F
04F20C2	9.5, 10, 16	2WNC	1/4	Brass	305SS	430FR	12L14 Plated	430FR	17-7PH	Copper	77°F
04F20O1	6, 11	2WNO	1/4	Brass	305SS	430FR	12L14 Plated	430FR	17-7PH	Copper	130°F
04F20O1	9.5, 10, 16	2WNO	1/4	Brass	305SS	430FR	12L14 Plated	430FR	17-7PH	Copper	77°F
04F20O2	6, 11	2WNC	1/4	Brass	305SS	430FR	12L14 Plated	430FR	17-7PH	Copper	130°F
04F20O2	9.5, 10, 16	2WNC	1/4	Brass	305SS	430FR	12L14 Plated	430FR	17-7PH	Copper	77°F
06F20C2	6, 11	2WNC	3/8	Brass	305SS	430FR	12L14 Plated	430FR	17-7PH	Copper	130°F
06F20C2	9.5, 10, 16	2WNC	3/8	Brass	305SS	430FR	12L14 Plated	430FR	17-7PH	Copper	77°F
08F20C2	6, 11	2WNC	1/2	Brass	305SS	430FR	12L14 Plated	430FR	17-7PH	Copper	130°F
08F20C2	9.5, 10, 16	2WNC	1/2	Brass	305SS	430FR	12L14 Plated	430FR	17-7PH	Copper	77°F
08F20O2	6, 11	2WNO	1/2	Brass	305SS	430FR	12L14 Plated	430FR	17-7PH	Copper	130°F
08F20O2	9.5, 10, 16	2WNO	1/2	Brass	305SS	430FR	12L14 Plated	430FR	17-7PH	Copper	77°F
12F20C2	6, 11	2WNC	3/4	Brass	305SS	430FR	12L14 Plated	430FR	17-7PH	Copper	130°F
12F20C2	9.5, 10, 16	2WNC	3/4	Brass	305SS	430FR	12L14 Plated	430FR	17-7PH	Copper	77°F
12F20O2	6, 11	2WNO	3/4	Brass	305SS	430FR	12L14 Plated	430FR	17-7PH	Copper	130°F
12F20O2	3, 9.5, 10, 16	2WNO	3/4	Brass	305SS	430FR	12L14 Plated	430FR	17-7PH	Copper	77°F

* Shows the first 7 digits of 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 Direct Acting 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.
71215SN	10	2WNC	1/8 - 3/8	430F	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
71215SN	22	2WNC	1/8 - 3/8	430F	304SS	430FR	430F	430FR	18-8SS	Copper	77°F
71216SN	10	2WNC	1/8 - 1/4	430F	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
71216SN	22	2WNC	1/8 - 1/4	430F	304SS	430FR	430F	430FR	18-8SS	Copper	77°F
7121KBN	10	2WNC	1/8 - 3/8	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
7121KBN	22	2WNC	1/8 - 3/8	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	77°F
71225SN	10	2WNO	1/8 - 1/4	430F	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
71225SN	22	2WNO	1/8 - 1/4	430F	304SS	430FR	430F	430FR	18-8SS	Copper	77°F
7122KBN	10	2WNO	1/8 - 1/4	Brass	304SS	430FR	430F	430FR/4106	301SS	Copper	150°F
7122KBN	22	2WNO	1/8 - 1/4	Brass	304SS	430FR	430F	430FR/4106	301SS	Copper	77°F
71235SN	10	2WDP	1/4	430F	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
71235SN	22	2WDP	1/4	430F	304SS	430FR	430F	430FR	18-8SS	Copper	77°F
71295SN	10	2WNO	1/8 - 1/4	430F	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
71295SN	22	2WNO	1/8 - 1/4	430F	304SS	430FR	430F	430FR	18-8SS	Copper	77°F

* Shows the first 7 digits of 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.

Notes

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2-Way

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



General Description:

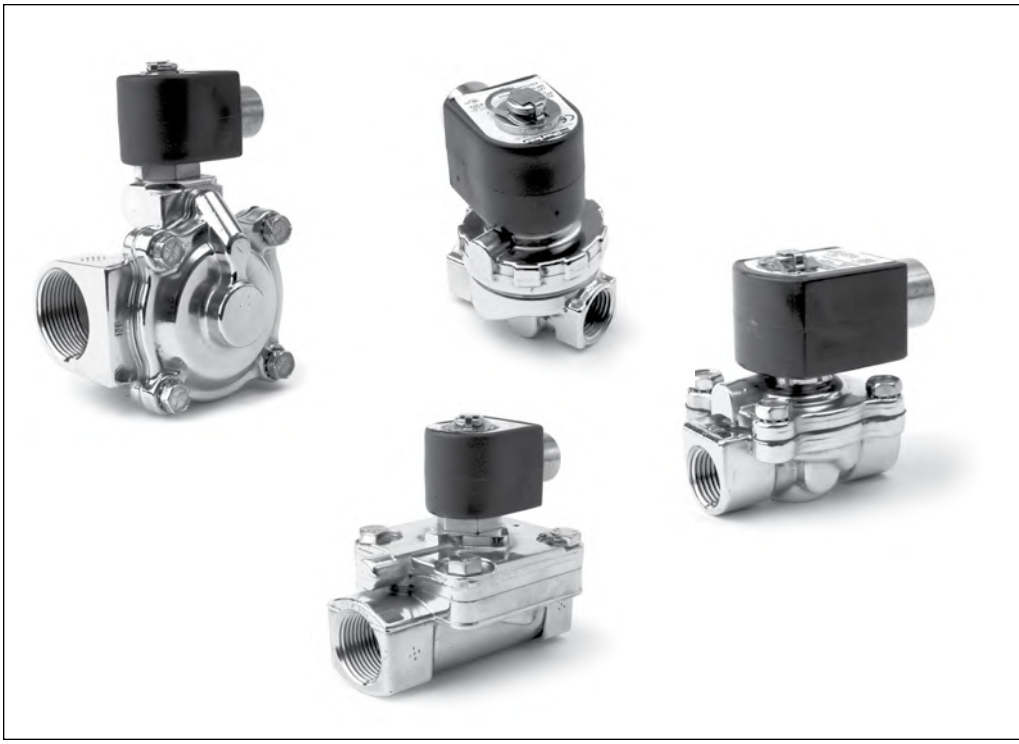
2-Way Direct Lift, Pilot & Remote Operated valves are designed for higher flow and medium to high pressure applications. Pilot operated valves require the minimum pressure differential specified for proper valve operation.

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

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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.**

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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.**

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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.**

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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

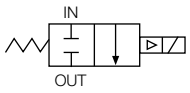
Valve Type	Main Line Supply	Remote Control Valve Hookup			3-Way Pilot Valve Hookup		
		IN Port	OUT Port	Pilot Inlet Port 1/8" NPT	Normally Closed Port	Normally Open Port	Common Port
Normally Open	0-190 PSIG	IN	OUT	Common Port of 3-Way Pilot Valve	Main Line Pressure +10 PSI Min.	Pilot Exhaust	Pilot IN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

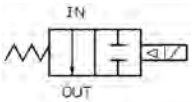
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Valve Reference A21

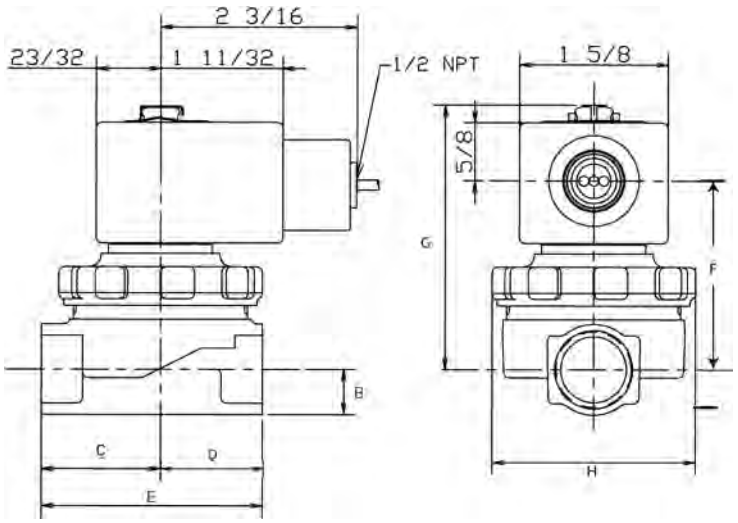




2-Way Normally Closed
06F25C, 08F25C



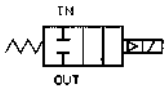
2-Way Normally Open
06F25O, 08F25O
Port Identification:
In-In/Out-Out



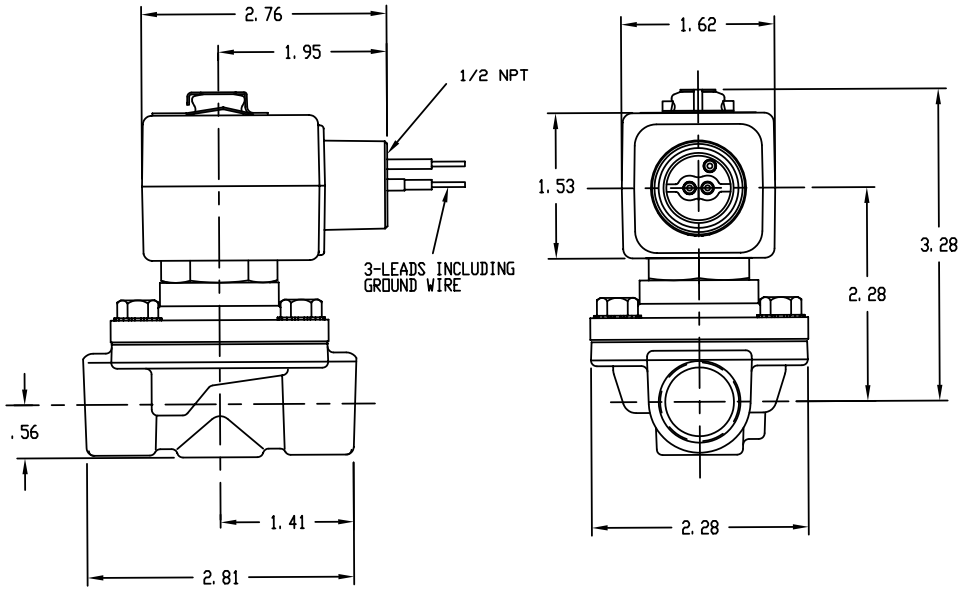
Valve	Dimensions						
	B	C	D	E	F	G	H
06F25C2132ACF 08F25C2132ACF 06F25C2132A3F 08F25C2132A3F	1/2	1 5/16	1 1/8	2 7/16	2 5/16	2 29/32	2 1/4
06F25O2132ACF 08F25O2132ACF 08F25O2132A3F	1/2	1 5/16	1 1/8	2 7/16	2 7/32	2 29/32	2 1/4

Valve Reference A22



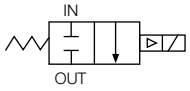


2-Way Normally Closed
Port Identification:
In-In/Out-Out

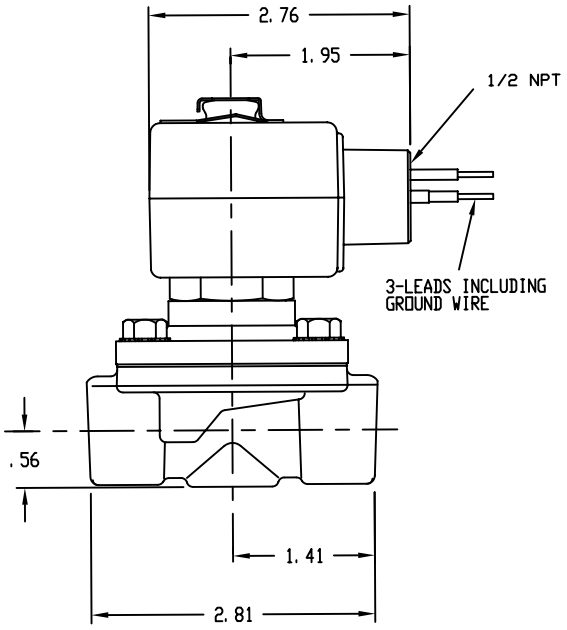


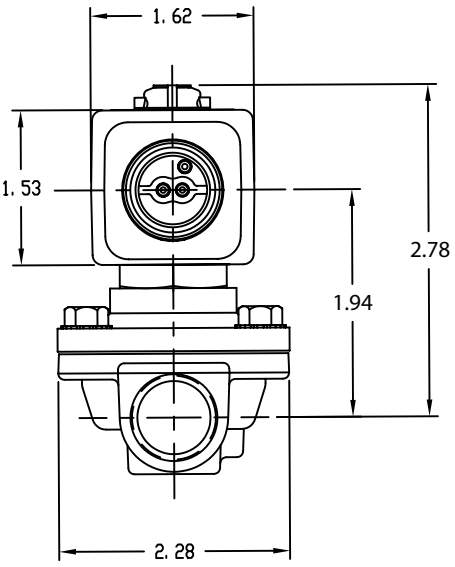
Valve Reference A23





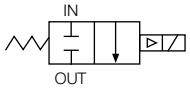
2-Way Normally Closed
Port Identification:
In-In/Out-Out



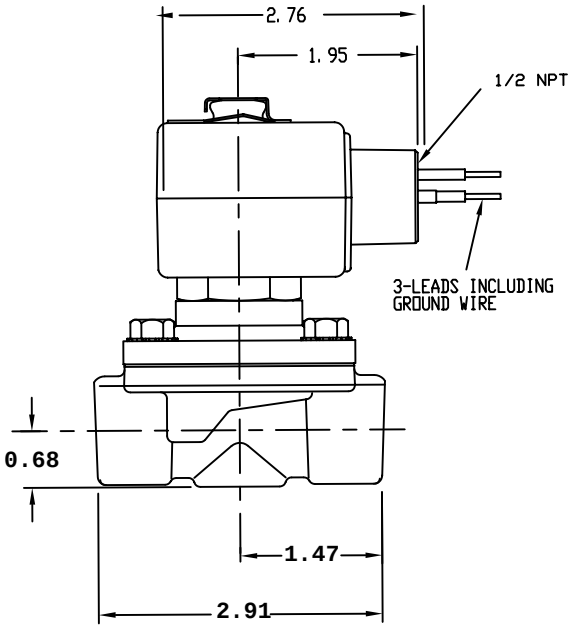


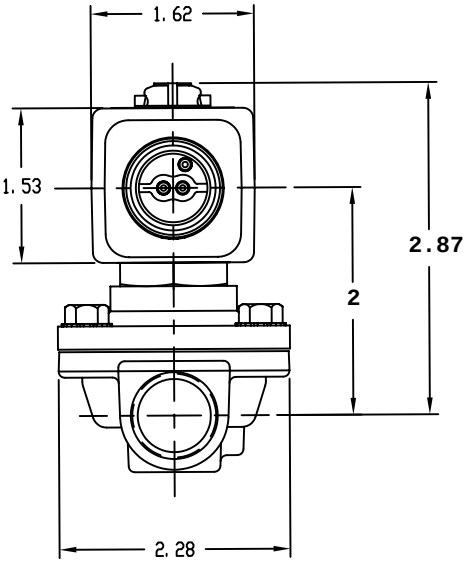
Valve Reference A24





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

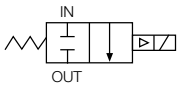




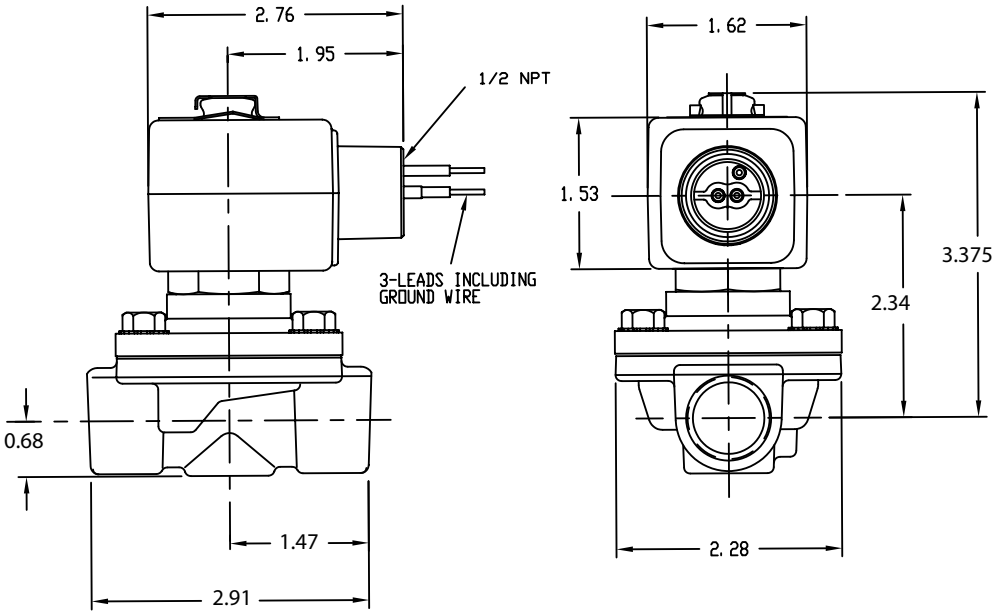
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Valve Reference A25



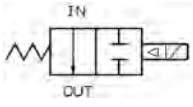


2-Way Normally Closed
Port Identification:
In-In/Out-Out

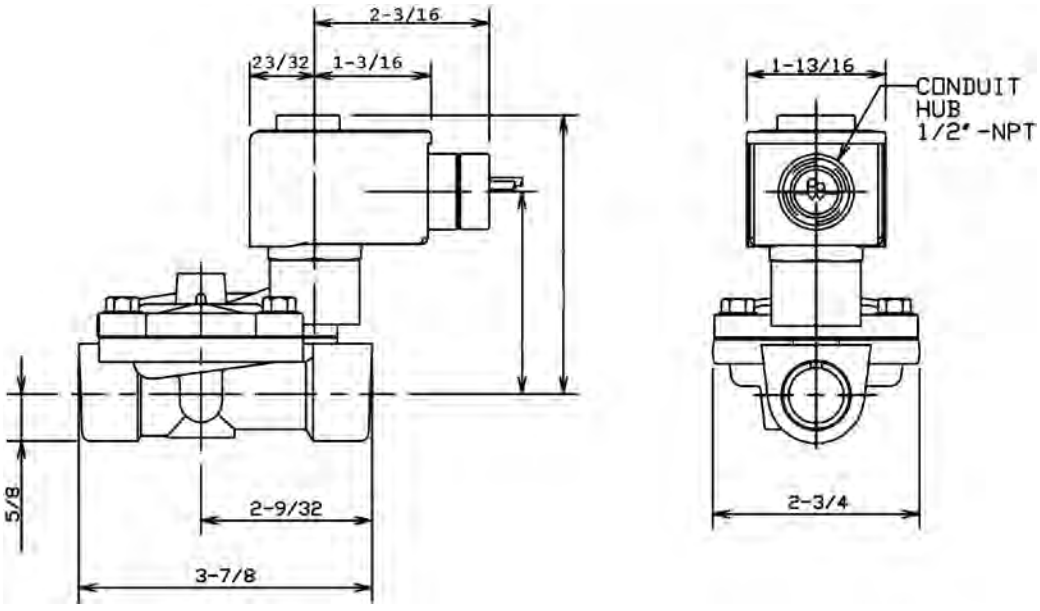


Valve Reference A26



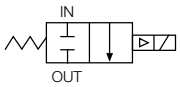


2-Way Normally Open
Port Identification:
In-In/Out-Out

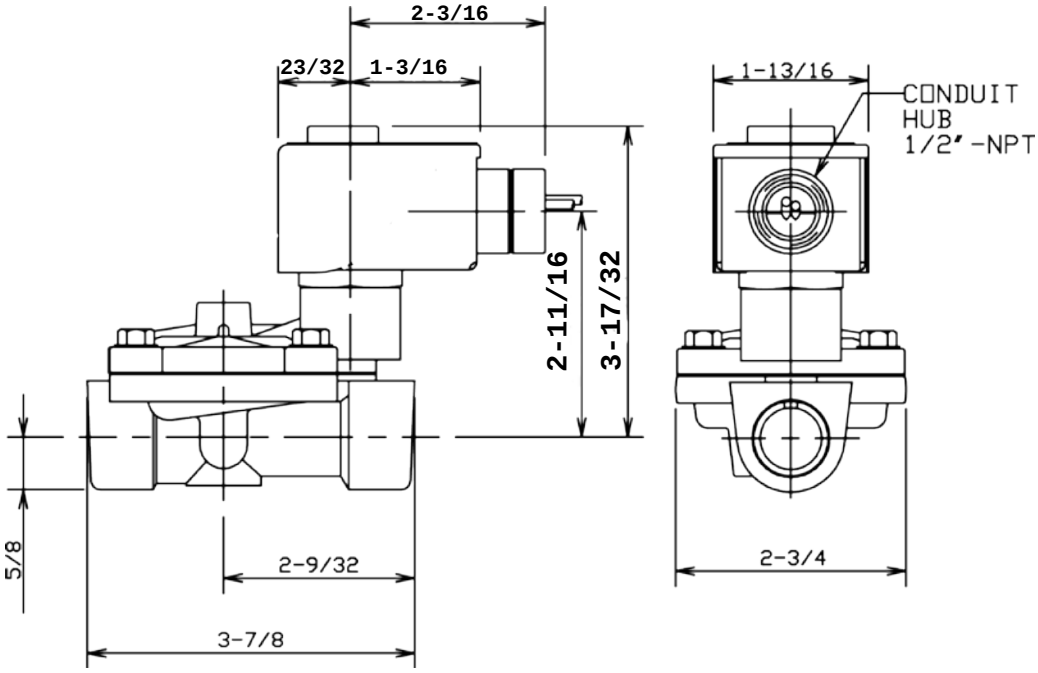


Valve Reference A27



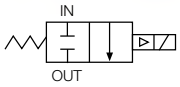


2-Way Normally Closed:
Port Identification:
In-In/Out-Out

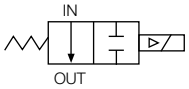


Valve Reference A28

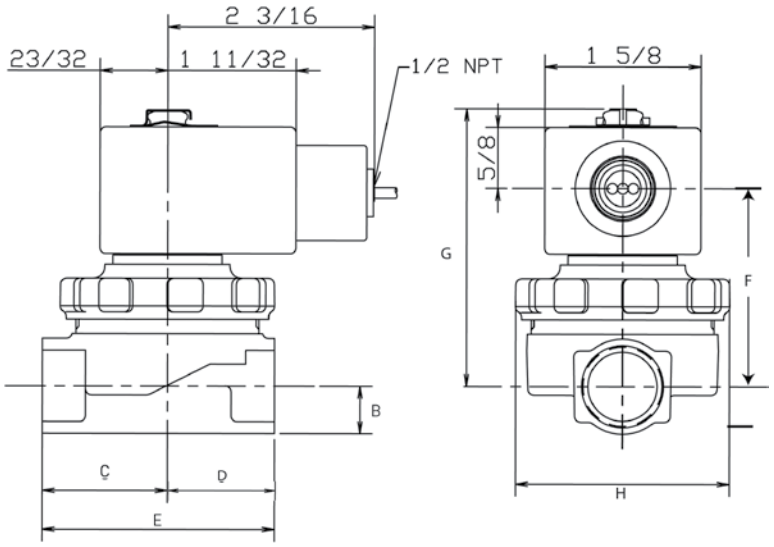




2-Way Normally Closed:
12F25Cxx



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

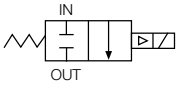


Valve	Dimensions						
	B	C	D	E	F	G	H
12F25C2148ACF	5/8	1 5/8	1 1/2	3 1/8	2 11/32	3 15/32	3 1/2
12F25O2148ACF	5/8	1 5/8	1 1/2	3 1/8	2 1/4	3 15/32	2 29/32

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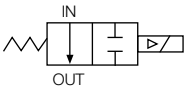
Valve Reference A29





16F24Cxx
20F24Cxx

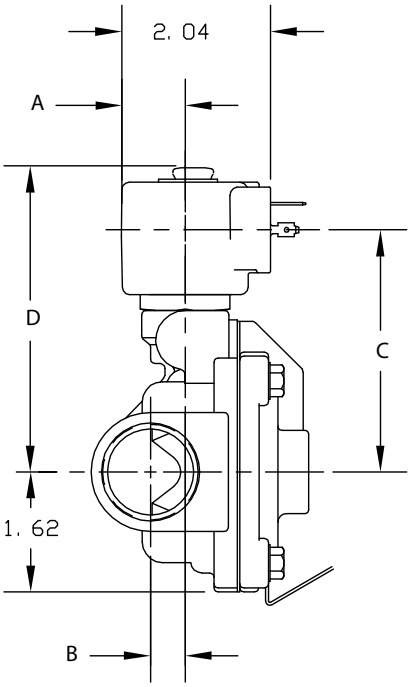
2-Way normally closed:

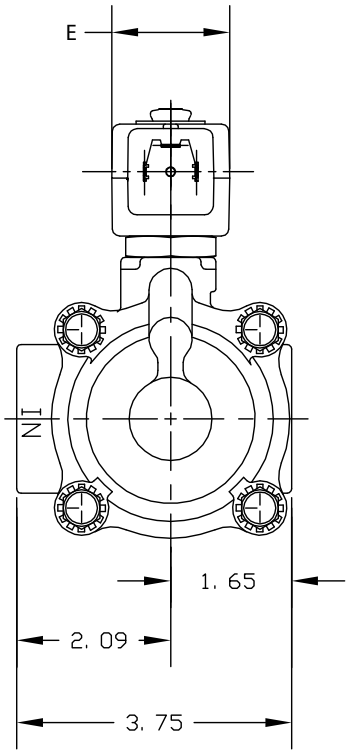


16F24Oxx
20F24Oxx

2-Way normally open:

Port Identification:
In-In/Out-Out

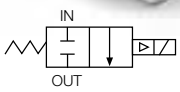




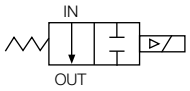
Valve	Dimensions				
	A	B	C	D	E
16F24C2164AAF 16F24C6164AAF	23/32	15/32	3 1/8	3 31/32	1 9/16
16F24C2164A3F 16F24C6164A3F	7/8	15/32	3 9/32	4 3/16	1 13/16
20F24C2172AAF	23/32	17/32	3 1/8	3 31/32	1 9/16
20F24C2172A3F	7/8	17/32	3 9/32	4 3/16	1 13/16
16F24O2164ACF 16F24O2164A3F	23/32	15/32	4 5/32	4 3/16	1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

Valve Reference A30



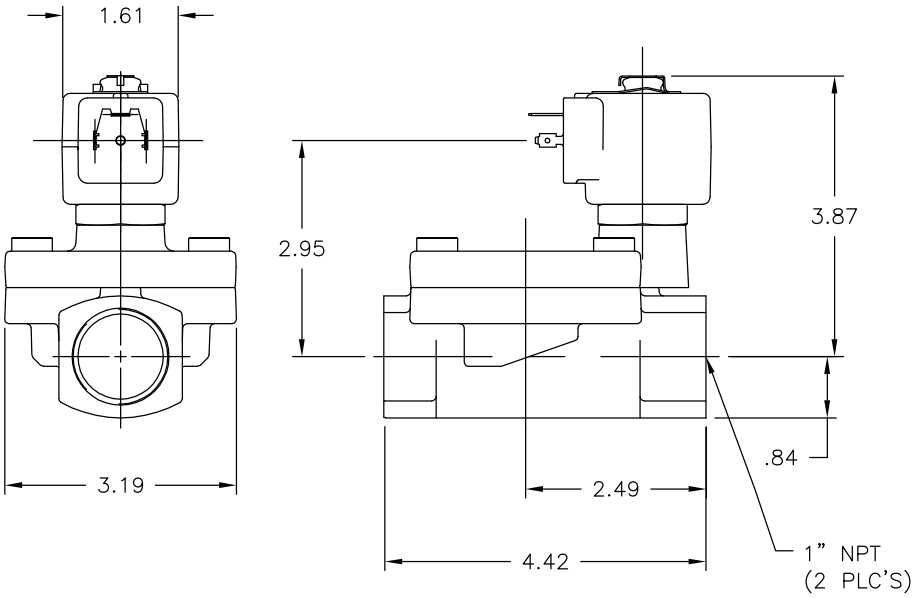


2-Way Normally Closed:
16F25Cxx



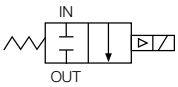
2-Way Normally Open:
16F25Oxx

Port identification:
In-In/Out-Out

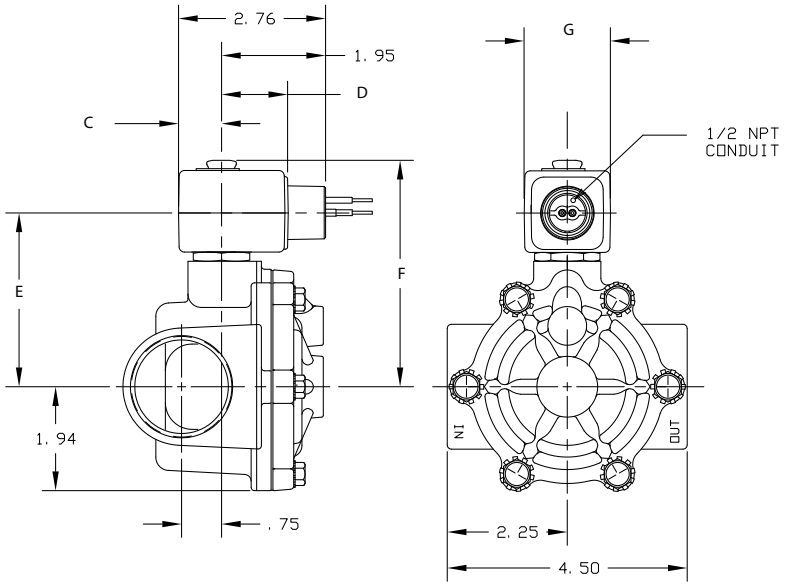


Valve Reference A31





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

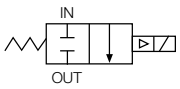


Part Number	Dimension				
	C	D	E	F	G
24F24C2180AAF 24F24C180AAF	23/32	1 5/16	3 5/16	4 5/32	1 9/16
24F24C2180A3F	7/8	1 17/32	3 17/32	4 3/8	1 13/16
24F2402180ACF 24F2402180A3F 24F2406180ACF	7/8	1 17/32	3 3/8	4 3/8	1 13/16

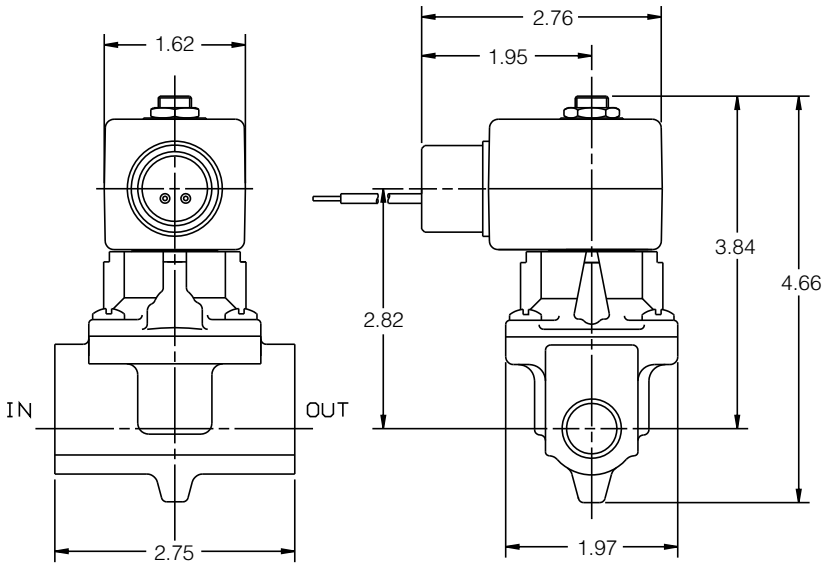
Parker Hannifin Corporation
Fluid Control Division
1 800 825 8305 (1 800 Valve05)
www.parker.com/fcd

Valve Reference A32



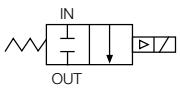


2-Way Normally Closed
Port Identification:
IN-IN/OUT-OUT

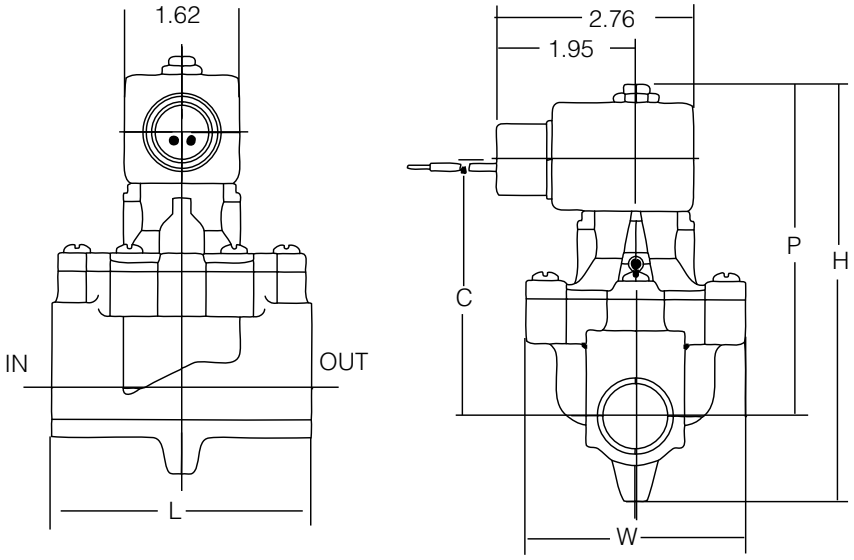


Valve Reference A33





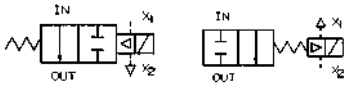
2-Way Normally Closed
Port identification:
In-In/Out-Out
73212BN52
P-IN/A-OUT
73212BN63



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

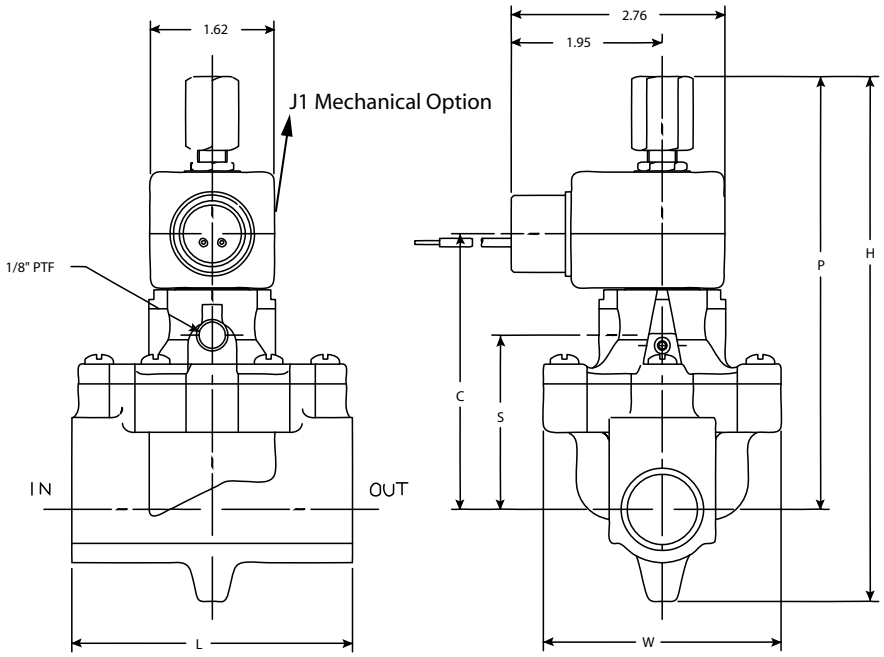




2-Way Normally Open

2-Way Normally Closed

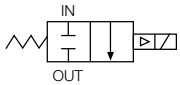
2-Way Univeral
Valve may be Normally Closed or Normally Open, depending on piping of external pilot.



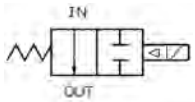
Part Number	Dimension						Port Identification	
	H	P	C	L	W	S	IN	OUT
74232BN52NJ1	6.78	5.59	3.59	3.62	3.09	2.28	IN	OUT
74232BN63NJ1	7.19	5.86	3.87	4.31	3.45	2.56	P	A

Valve Reference A35



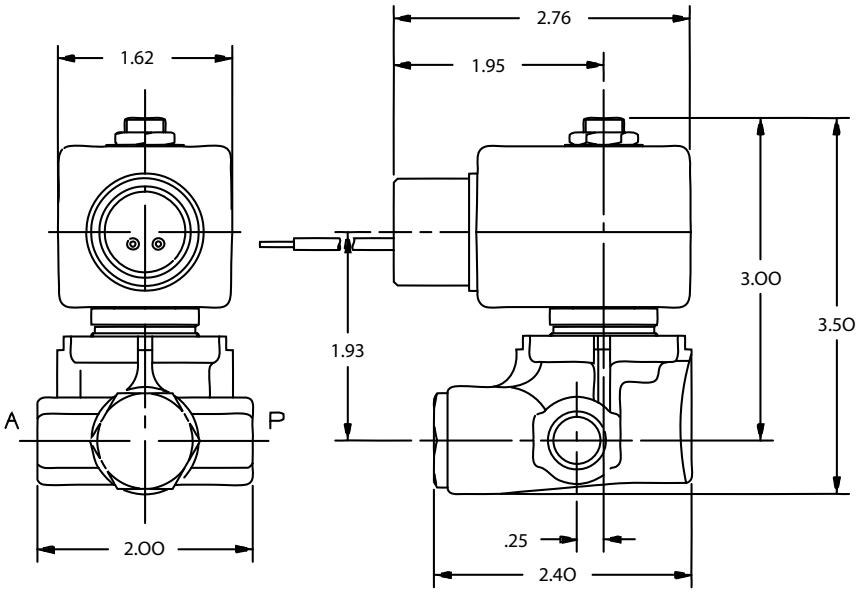


2-Way Normally Closed
73212xx



2-Way Normally Open:
73222xx

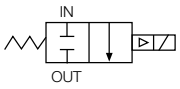
Port Identification:
IN-IN/--OUT



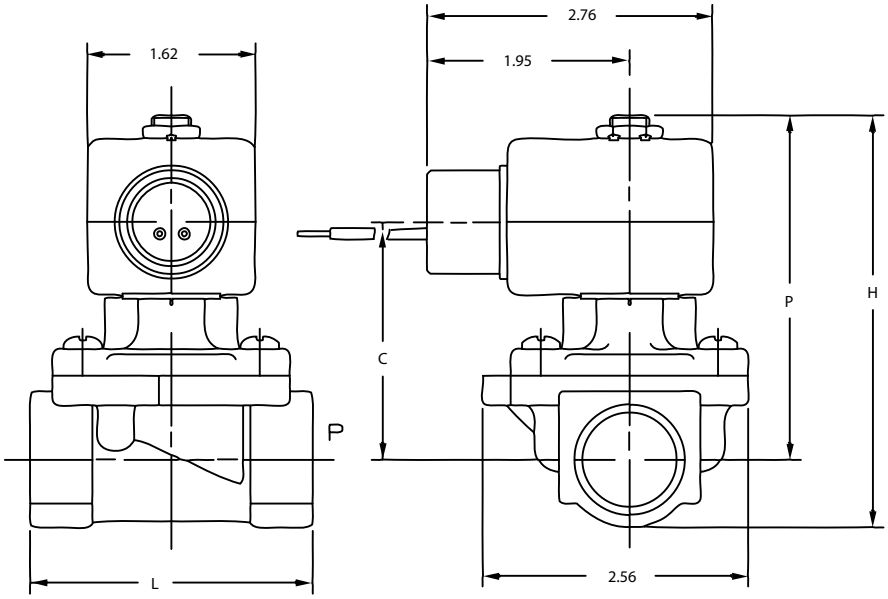
Parker Hannifin Corporation
Fluid Control Division
1 800 825 8305 (1 800 Valve05)
www.parker.com/fcd

Valve Reference A36





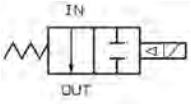
2-Way Normally Closed
Port Identification:
P-IN/--OUT



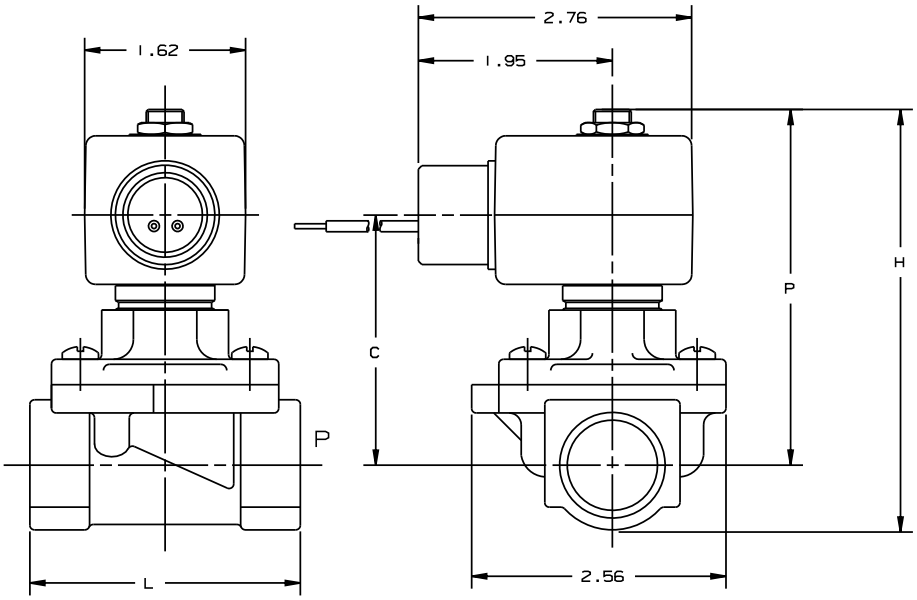
Valve	Dimensions			
	H	P	C	L
72218BN3TXXX 72218BN4UXXX	3.78	3.23	2.21	2.64
72218RN3TXXX 72218RN4UXXX 72218BN5VXXX 72218RN5VXXX	3.99	3.33	2.31	2.71

Valve Reference A37





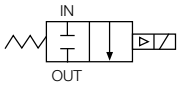
2-Way Normally Open
Port Identification:
P-IN/--OUT



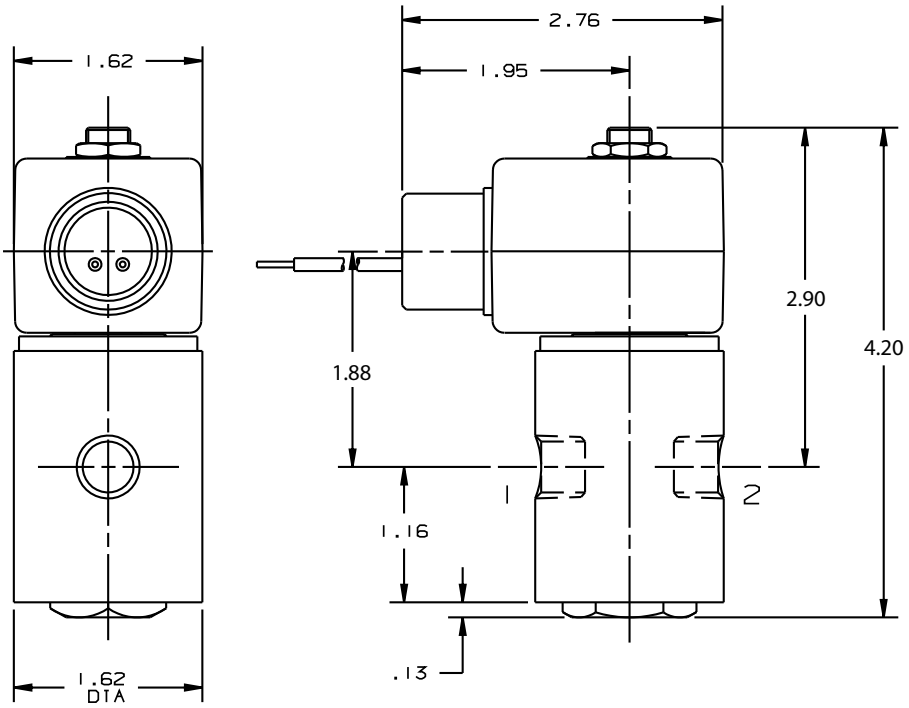
Valve	Dimensions			
	H	P	C	L
72228BN3TXXX 72228BN4UXXX 72228RN3TXXX 72228RN4UXXX	4.04	3.49	2.43	2.64
72228BN5VXXX 72228RN5VXXX	4.24	3.58	2.52	2.72

Valve Reference A38



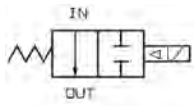


2-Way Normally Closed
Port Identification:
2-IN/1-OUT

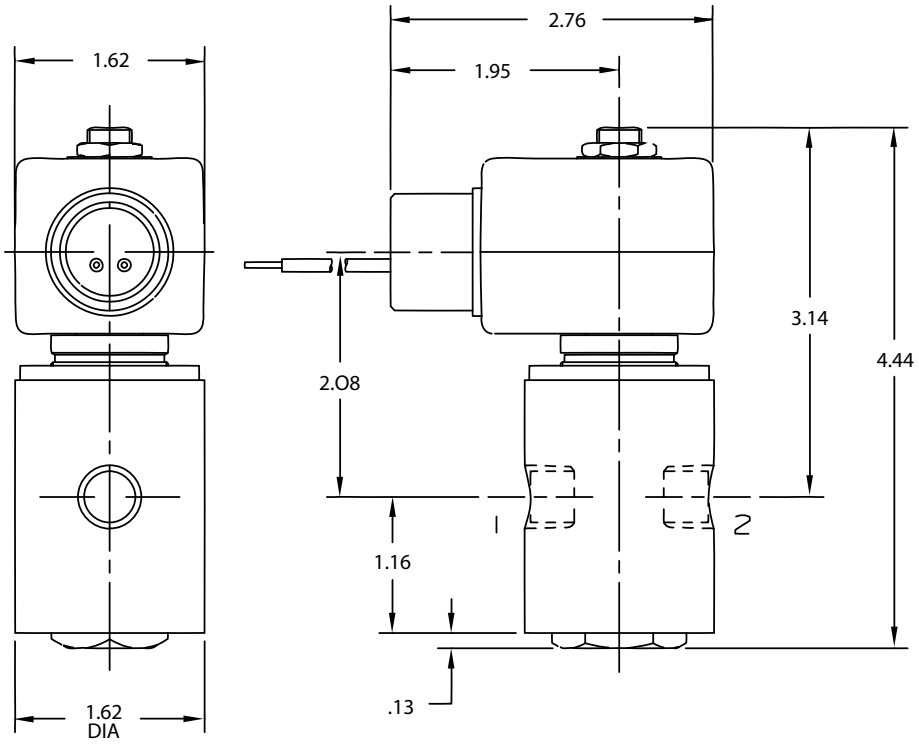


Valve Reference A39





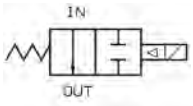
2-Way Normally Open
Port Identification:
2-IN/1-OUT



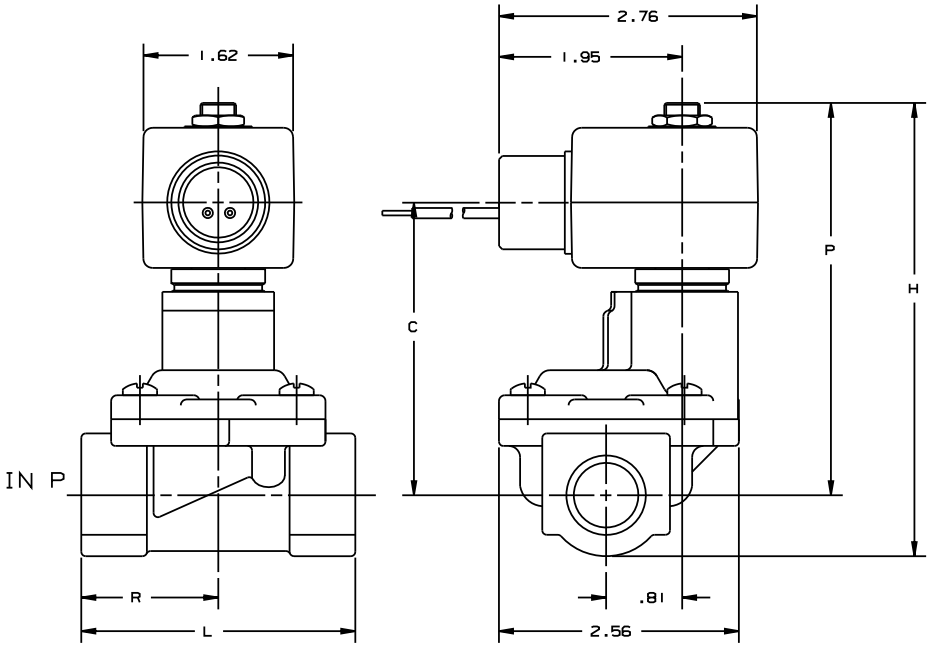
Parker Hannifin Corporation
Fluid Control Division
1 800 825 8305 (1 800 Valve05)
www.parker.com/fcd

Valve Reference A40





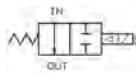
2-Way Normally Open
Port Identification:
P-IN/--OUT



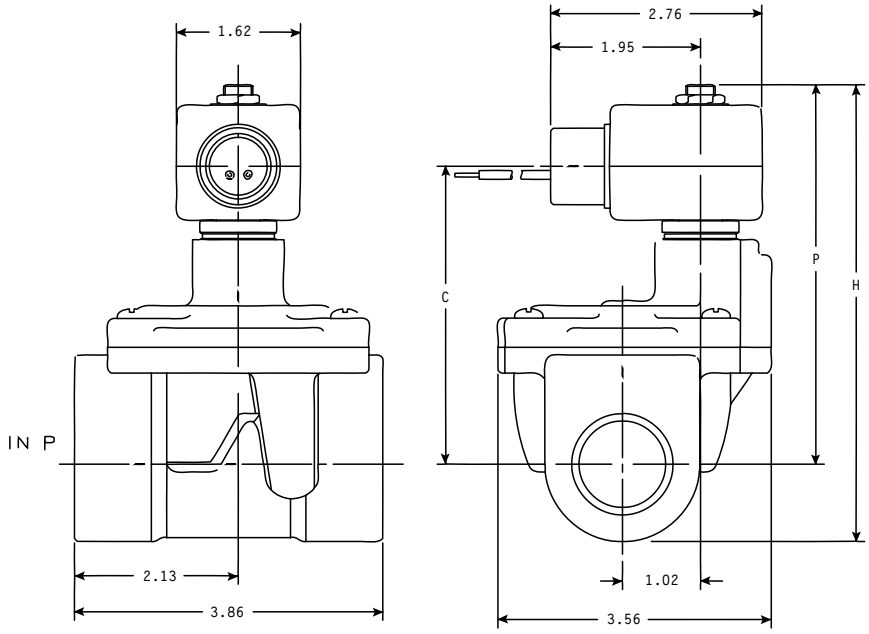
Valve	Dimensions				
	H	P	C	L	R
73228BN3TN00 73228BN4UN00	4.62	4.07	3.01	2.64	1.39
73228BN5VN00	4.83	4.17	3.11	2.72	1.43

Valve Reference A41





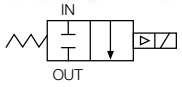
2-Way Normally Open
Port Identification:
P-IN/--OUT



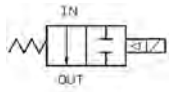
Valve	Dimensions		
	H	P	C
73228BN64N00 73228BN64V00	5.69	4.83	3.77
73228BN75N00 73228BN75V00	5.97	4.97	3.91

Valve Reference A42

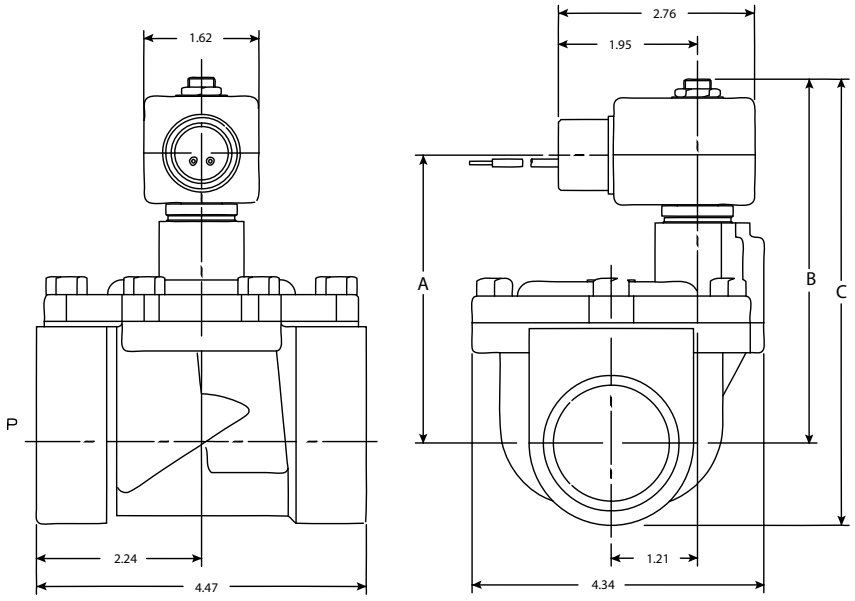




2-Way Normally Closed
73218xx



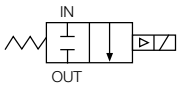
2-Way Normally Open
73228xx
Port Identification:
In-In/--Out



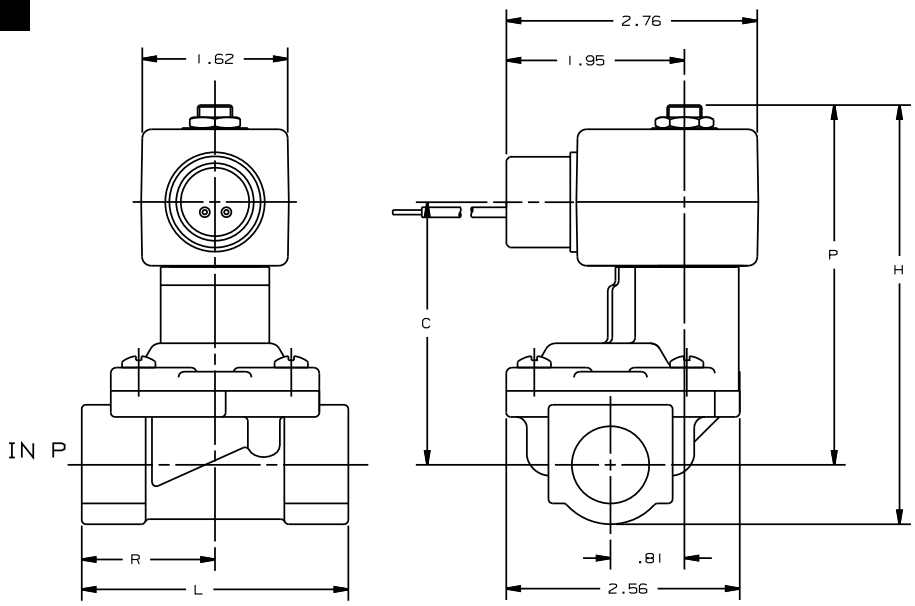
Valve	Dimensions		
	A	B	C
73218xxx	3.87	4.89	6.05
73228xxx	4.07	5.13	6.28

Valve Reference A43





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

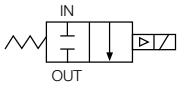


Valve	Dimensions				
	H	P	C	L	R
73218BN3TXXX 73218BN4UXXX	4.38	3.84	2.81	2.64	1.39
73218BN5VXXX	4.59	3.94	2.91	2.72	1.43

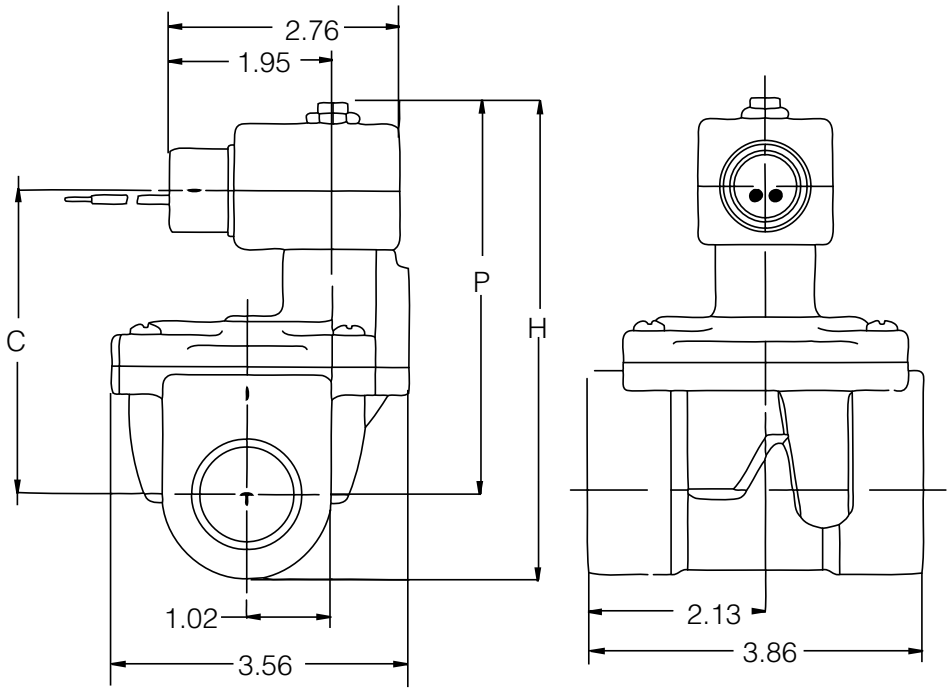
Parker Hannifin Corporation
Fluid Control Division
1 800 825 8305 (1 800 Valve05)
www.parker.com/fcd

Valve Reference A44





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

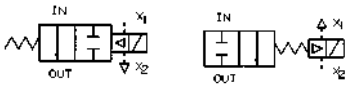


Valve	Dimensions		
	H	P	C
73218BN64XXX	5.45	4.59	3.57
73218BN75XXX	5.74	4.73	3.71

"X" denotes multiple digit combinations for brevity

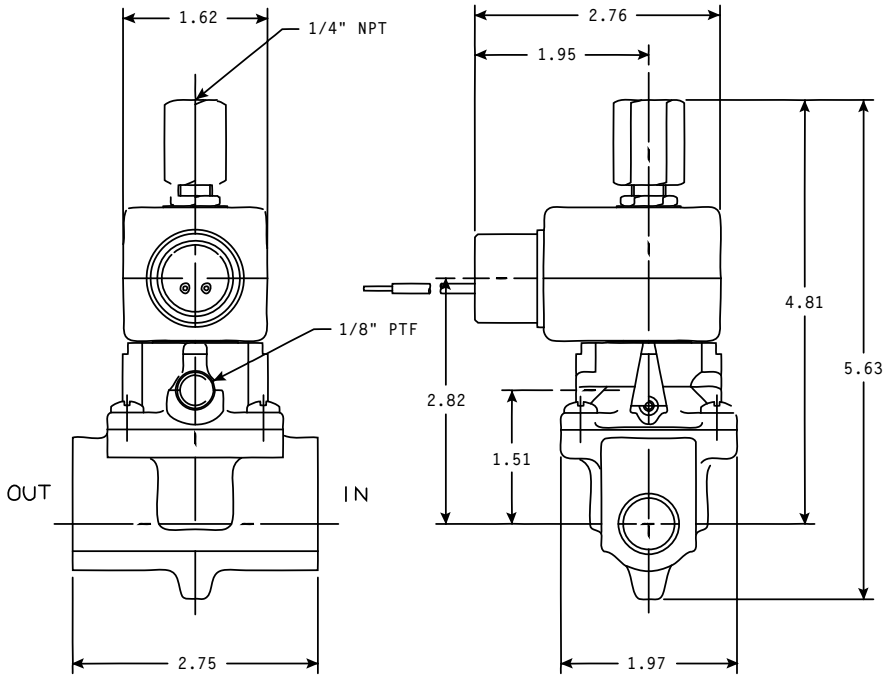
Valve Reference A45





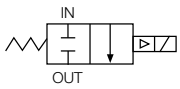
2-Way Normally Open 2-Way Normally Closed

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

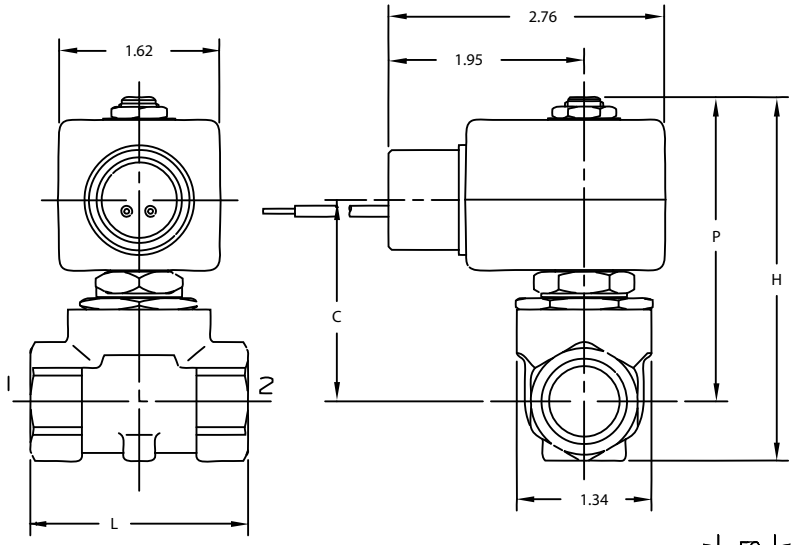


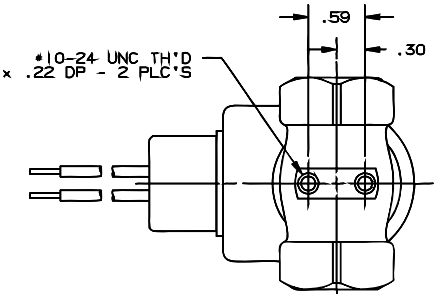
Valve Reference A46





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

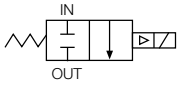




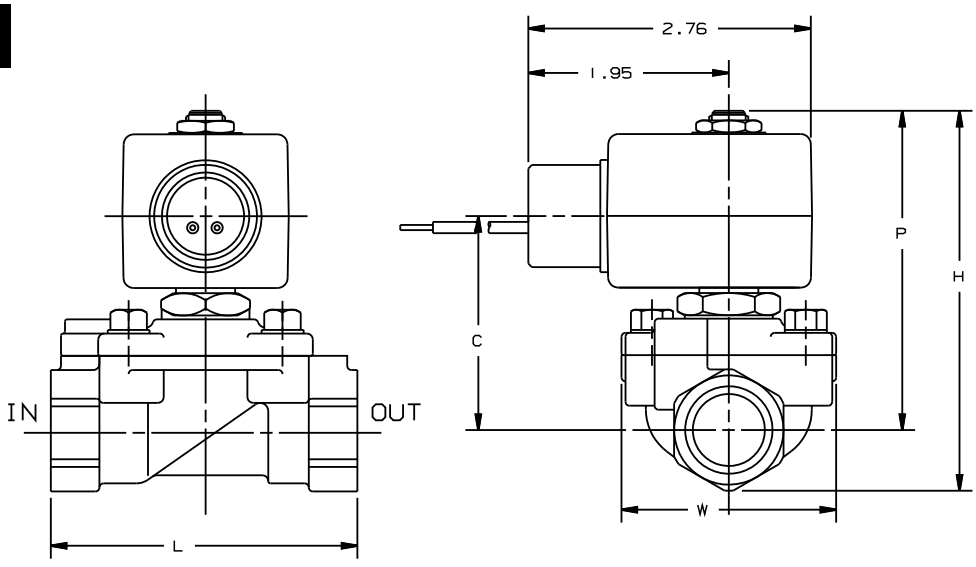
Valve	Dimensions			
	H	P	C	L
7321KBN2RXXX 7321KBN3SXXX	3.56	2.97	1.96	1.97
7321KBN4SXXX	3.56	2.97	1.96	2.17

Valve Reference A47





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

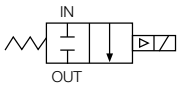


Valve	Dimensions				
	H	P	C	L	W
7221GBN3VXXX 7221GBN4VXXX	3.66	3.07	2.06	2.95	2.09
7221GBN51XXX	3.75	3.07	2.06	3.15	2.09
7221GBN61XXX	4.03	3.15	2.12	3.35	2.09
7221GBN64XXX	4.25	3.35	2.34	3.94	2.75

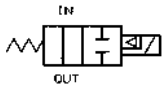
Parker Hannifin Corporation
Fluid Control Division
1 800 825 8305 (1 800 Valve05)
www.parker.com/fcd

Valve Reference A48



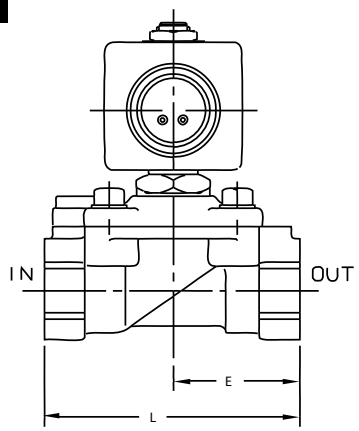


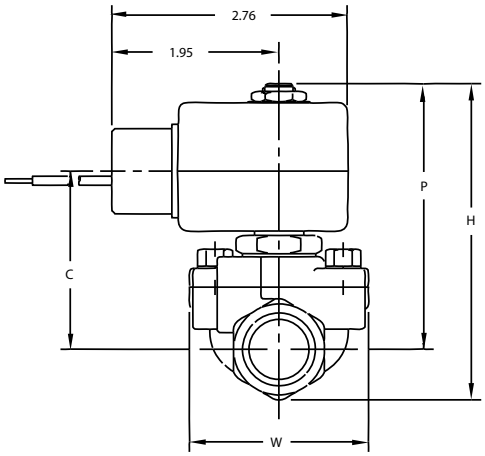
2-Way Normally Closed
7321GBNxx



2-Way Normally Open
7322GBNxx

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

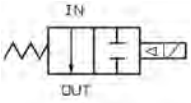




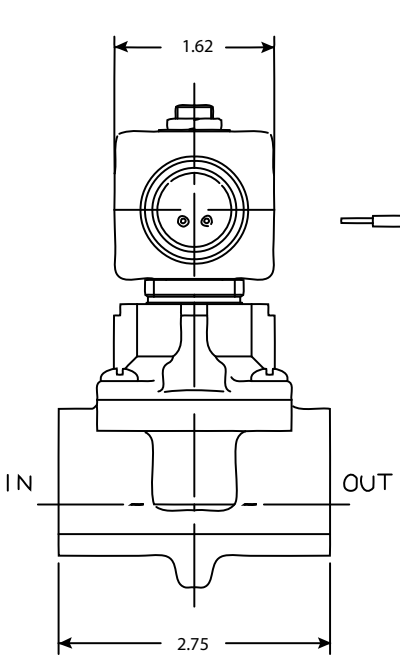
Valve	Dimensions					
	H	P	C	L	E	W
7321GBN53XXX 7322GBN53XXX 7321GBN64XXX 7322GBN64XXX	4.75	3.86	2.84	3.94	1.97	2.75
7321GBN76XXX 7322GBN76XXX	5.41	4.11	3.09	4.33	2.17	2.75
7321GBN88XXX 7322GBN88XXX	5.66	4.37	3.35	5.51	2.95	3.90
7321GBN99XXX 7322GBN99XXX	6.25	4.60	3.58	5.91	3.15	3.90

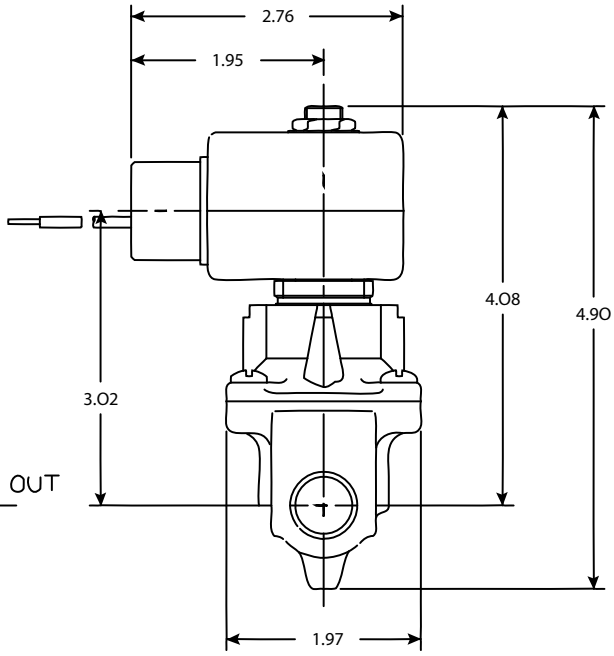
Valve Reference A49





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

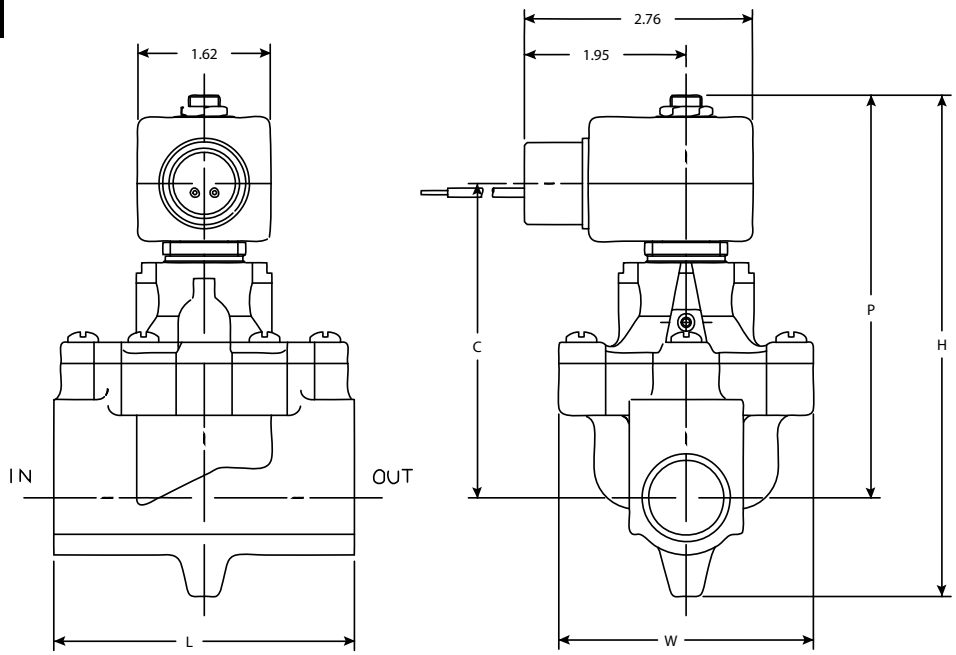




Valve Reference A50



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

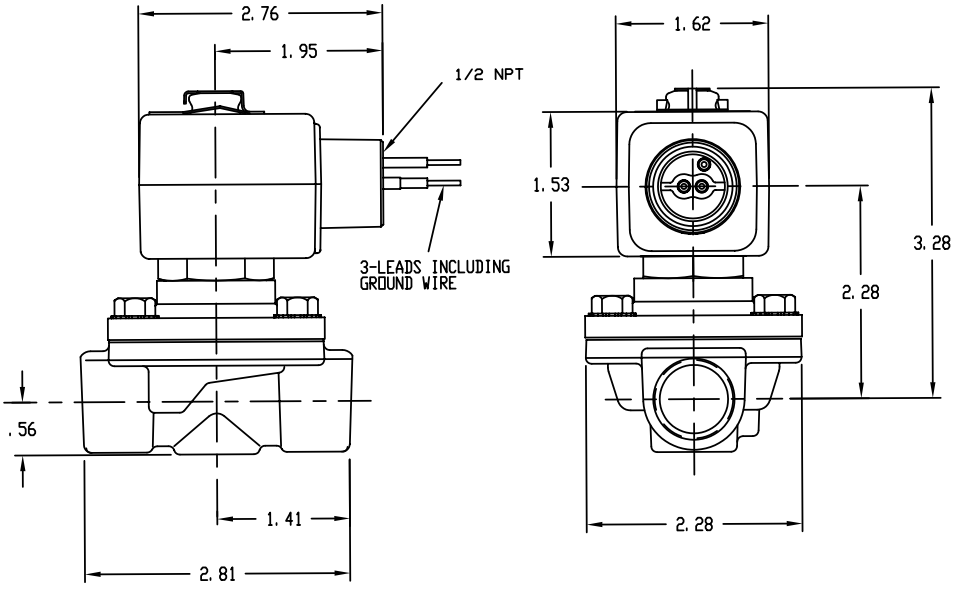


Valve	Dimensions				
	H	P	C	L	W
73222BN52N00	6.04	4.85	3.79	3.62	3.09
73222BN63N00	6.46	5.13	4.07	4.31	3.45

Valve Reference A51



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

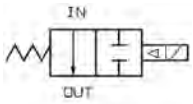


Explosion-proof watertight shown in outline

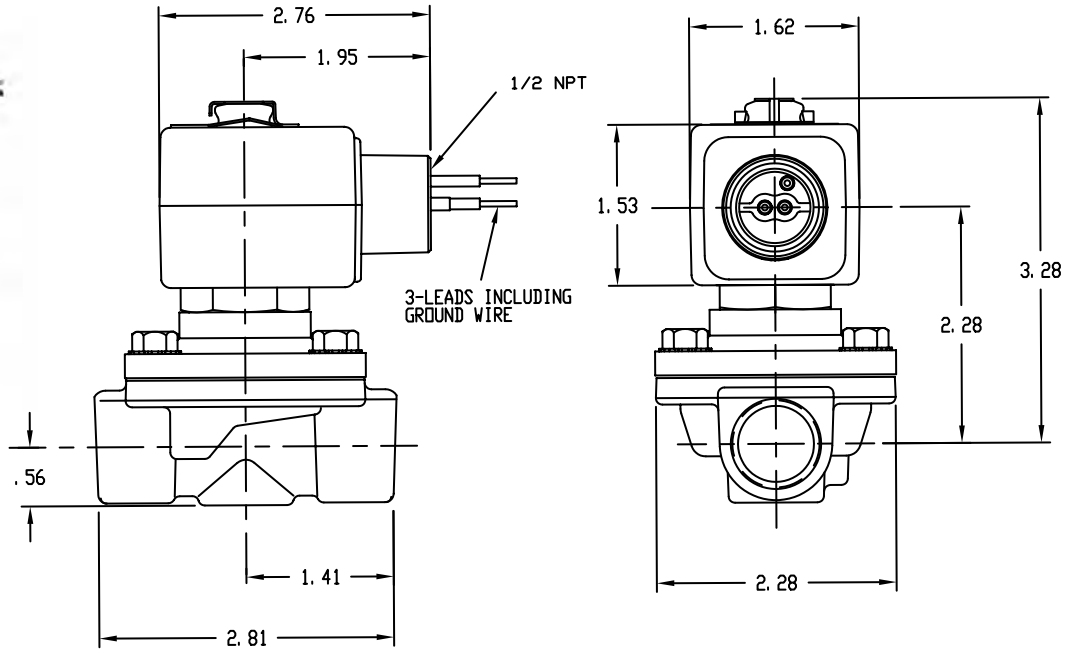
Parker Hannifin Corporation
Fluid Control Division
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www.parker.com/fcd

Valve Reference A52



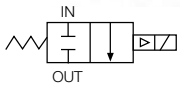


2-Way Normally Open
Port Identification:
IN-IN/ OUT-OUT

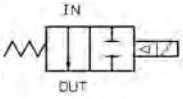


Valve Reference A54

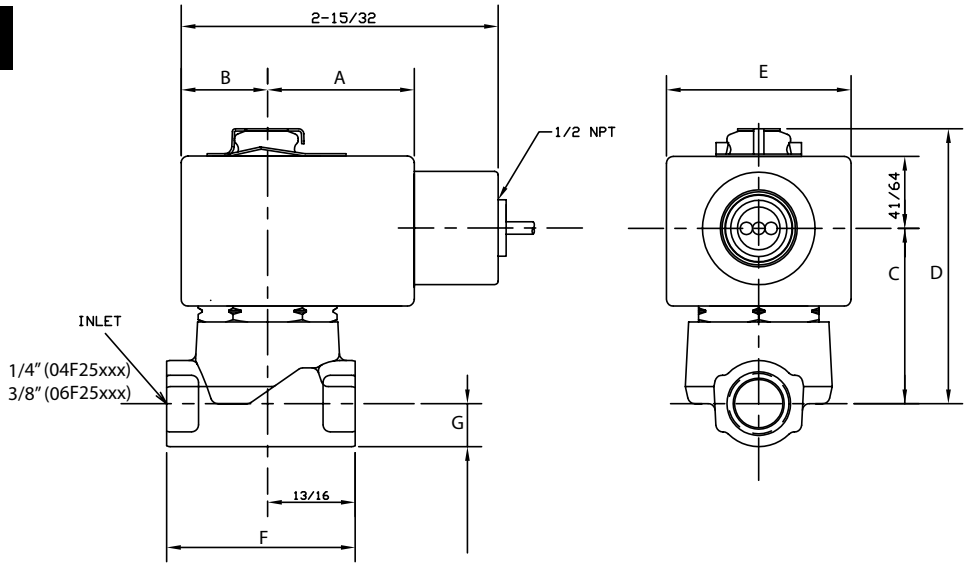




2-Way Normally Closed
04F25C2xx/06F25C2xx
Port Identification:
IN-IN/ OUT-OUT



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

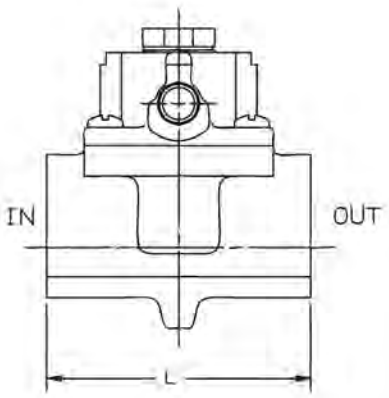


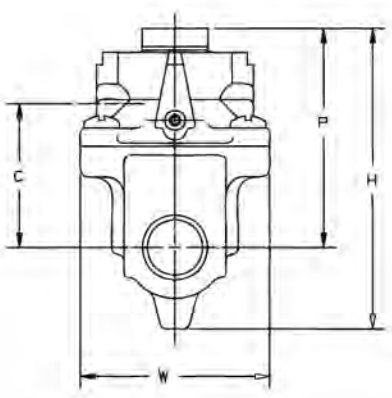
Valve	Dimensions						
	A	B	C	D	E	F	G
04F25C2122CAF	1 5/16	23/32	1 9/16	2 7/16	1 9/16	1 3/4	3/8
06F25C2122CAF	1 5/16	23/32	1 5/8	2 1/2	1 9/16	1 3/4	7/16
04F25O2122CCF 04F25O2122C3F	1 17/32	7/8	1 25/32	2 7/8	1 13/16	1 3/4	3/8
04F25C2122C3F	1 17/32	7/8	1 15/16	2 7/8	1 13/16	1 3/4	3/8
06F25C2122C3F	1 17/32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

** 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*	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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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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2-Way Direct Acting - High Pressure - 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												
1/8	1/16	0.11	0	1000	1000	1000	10	165	PCTFE	7121KBN1GF00	7	A65
1/8	3/32	0.24	0	725	725	725	22	210	RUBY	7121KBN1LR00	8	A65
1/8	3/32	0.24	0	500	500	500	10	210	RUBY	7121KBN1LR00	7	A65
1/8	1/8	0.31	0	365	365	365	10	165	PCTFE	7121KBN1NF00	7	A65
1/4	1/16	0.11	0	1450	1450	1450	22	210	RUBY	7121KBN2GR00	8	A65
1/4	1/16	0.11	0	1100	1100	1100	10	210	RUBY	7121KBN2GR00	7	A65
1/4	1/16	0.11	0	1000	1000	1000	10	165	PCTFE	7121KBN2GF00	7	A65
1/4	5/64	0.17	0	1030	1030	1030	22	210	RUBY	7121KBN2JR00	8	A65
1/4	5/64	0.17	0	700	700	700	10	210	RUBY	7121KBN2JR00	7	A65
1/4	3/32	0.24	0	725	725	725	22	210	RUBY	7121KBN2LR00	8	A65
1/4	3/32	0.24	0	500	500	500	10	210	RUBY	7121KBN2LR00	7	A65
1/4	1/8	0.31	0	525	525	525	22	210	RUBY	7121KBN2NR00	8	A65
1/4	1/8	0.31	0	365	365	365	10	165	PCTFE	7121KBN2NF00	7	A65
1/4	1/8	0.31	0	365	365	365	10	210	RUBY	7121KBN2NR00	7	A65
DC TECHNICAL SPECIFICATIONS												
1/8	1/16	0.11	0	700	700	700	22	165	PCTFE	7121KBN1GF00	8	A65
1/8	1/16	0.11	0	435	435	435	10	165	PCTFE	7121KBN1GF00	7	A65
1/8	3/32	0.24	0	320	320	320	22	210	RUBY	7121KBN1LR00	8	A65
1/8	3/32	0.24	0	175	175	175	10	210	RUBY	7121KBN1LR00	7	A65
1/8	1/8	0.31	0	205	205	205	22	165	PCTFE	7121KBN1NF00	8	A65
1/8	1/8	0.31	0	125	125	125	10	165	PCTFE	7121KBN1NF00	7	A65
1/4	1/16	0.11	0	800	800	800	22	210	RUBY	7121KBN2GR00	8	A65
1/4	1/16	0.11	0	700	700	700	22	165	PCTFE	7121KBN2GF00	8	A65
1/4	1/16	0.11	0	435	435	435	10	210	RUBY	7121KBN2GR00	7	A65
1/4	1/16	0.11	0	435	435	435	10	165	PCTFE	7121KBN2GF00	7	A65
1/4	5/64	0.17	0	460	460	460	22	210	RUBY	7121KBN2JR00	8	A65
1/4	5/64	0.17	0	260	260	260	10	210	RUBY	7121KBN2JR00	7	A65
1/4	3/32	0.24	0	320	320	320	22	210	RUBY	7121KBN2LR00	8	A65
1/4	3/32	0.24	0	175	175	175	10	210	RUBY	7121KBN2LR00	7	A65
1/4	1/8	0.31	0	220	220	220	22	210	RUBY	7121KBN2NR00	8	A65
1/4	1/8	0.31	0	205	205	205	22	165	PCTFE	7121KBN2NF00	8	A65
1/4	1/8	0.31	0	125	125	125	10	210	RUBY	7121KBN2NR00	7	A65
1/4	1/8	0.31	0	125	125	125	10	165	PCTFE	7121KBN2NF00	7	A65

*RUBY Seals: Allowable Seat leakage is 90 cc/min on air and inert gas at rated pressure: 7121KBNxxRxx

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2-Way Direct Acting - High Pressure - 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												
1/8	1/32	0.021	0	3000	3000	3000	10	185	NYLON	71216SN1BL00	7	A60
1/8	3/64	0.037	0	1500	1500	1500	10	185	RULON	71216SN1FU00	7	A60
1/8	3/64	0.060	0	1000	1000	1000	10	165	PCTFE	71215SN1EF00	7	A60
1/8	1/16	0.070	0	1250	1250	1250	10	185	NYLON	71216SN1GL00	7	A60
1/8	1/16	0.100	0	700	700	700	10	165	PCTFE	71215SN1GF00	7	A60
1/8	5/64	0.090	0	500	500	500	10	185	PTFE	71216SN1JT00	7	A60
1/8	3/32	0.180	0	650	650	650	22	165	PCTFE	71215SN1KF00	8	A60
1/8	3/32	0.180	0	260	260	260	10	165	PCTFE	71215SN1KF00	7	A60
1/8	1/8	0.280	0	520	520	520	22	165	PCTFE	71215SN1MF00	8	A60
1/8	1/8	0.280	0	200	200	200	10	165	PCTFE	71215SN1MF00	7	A60
1/4	1/32	0.021	0	3000	3000	3000	10	185	NYLON	71216SN2BL00	7	A60
1/4	3/64	0.037	0	1500	1500	1500	10	185	RULON	71216SN2FU00	7	A60
1/4	3/64	0.060	0	1000	1000	1000	10	165	PCTFE	71215SN2EF00	7	A60
1/4	1/16	0.070	0	1250	1250	1250	10	185	NYLON	71216SN2GL00	7	A60
1/4	5/64	0.090	0	500	500	500	10	185	PTFE	71216SN2JT00	7	A60
1/4	1/16	0.100	0	700	700	700	10	165	PCTFE	71215SN2GF00	7	A60
1/4	3/32	0.180	0	650	650	650	22	165	PCTFE	71215SN2KF00	8	A60
1/4	3/32	0.180	0	260	260	260	10	165	PCTFE	71215SN2KF00	7	A60
1/4	1/8	0.280	0	520	520	520	22	165	PCTFE	71215SN2MF00	8	A60
1/4	1/8	0.280	0	200	200	200	10	165	PCTFE	71215SN2MF00	7	A60
DC TECHNICAL SPECIFICATIONS												
1/8	1/32	0.020	0	3000	3000	3000	22	185	NYLON	71216SN1BL00	8	A60
1/8	1/32	0.020	0	2500	2500	2500	10	185	NYLON	71216SN1BL00	7	A60
1/8	3/64	0.040	0	1000	1000	1000	10	185	RULON	71216SN1FU00	7	A60
1/8	3/64	0.060	0	1000	1000	1000	22	165	PCTFE	71215SN1EF00	8	A60
1/8	3/64	0.060	0	520	520	520	10	165	PCTFE	71215SN1EF00	7	A60

* NYLON Seals: Allowable Seat leakage is 50 cc/min on air and inert gas at rated pressure: 71216SNxxLxx
RULON Seals: Allowable Seat leakage is 20 cc/min on air and inert gas at rated pressure: 71216SNxxUxx
PTFE Seals: Allowable Seat leakage is 20 cc/min on air and inert gas at rated pressure: 71216SNxxTxx

2-Way Direct Acting - High Pressure - Normally Closed - Stainless Steel (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												
1/8	3/64	0.04	0	1500	1500	1500	22	185	RULON	71216SN1FU00	8	A60
1/8	1/16	0.07	0	1000	1000	1000	22	185	NYLON	71216SN1GL00	8	A60
1/8	1/16	0.07	0	500	500	500	10	185	NYLON	71216SN1GL00	7	A60
1/8	5/64	0.09	0	400	400	400	22	185	PTFE	71216SN1JT00	8	A60
1/8	5/64	0.09	0	200	200	200	10	185	PTFE	71216SN1JT00	7	A60
1/8	1/16	0.10	0	700	700	700	22	165	PCTFE	71215SN1GF00	8	A60
1/8	1/16	0.10	0	350	350	350	10	165	PCTFE	71215SN1GF00	7	A60
1/8	3/32	0.18	0	300	300	300	22	165	PCTFE	71215SN1KF00	8	A60
1/8	3/32	0.18	0	130	130	130	10	165	PCTFE	71215SN1KF00	7	A60
1/8	1/8	0.28	0	200	200	200	22	165	PCTFE	71215SN1MF00	8	A60
1/8	1/8	0.28	0	100	100	100	10	165	PCTFE	71215SN1MF00	7	A60
1/4	1/32	0.02	0	3000	3000	3000	22	185	NYLON	71216SN2BL00	8	A60
1/4	1/32	0.02	0	2500	2500	2500	10	185	NYLON	71216SN2BL00	7	A60
1/4	3/64	0.06	0	1000	1000	1000	22	165	PCTFE	71215SN2EF00	8	A60
1/4	3/64	0.06	0	520	520	520	10	165	PCTFE	71215SN2EF00	7	A60
1/4	3/64	0.04	0	1500	1500	1500	22	185	RULON	71216SN2FU00	8	A60
1/4	3/64	0.04	0	1000	1000	1000	10	185	RULON	71216SN2FU00	7	A60
1/4	1/16	0.07	0	1000	1000	1000	22	185	NYLON	71216SN2GL00	8	A60
1/4	1/16	0.07	0	500	500	500	10	185	NYLON	71216SN2GL00	7	A60
1/4	5/64	0.09	0	400	400	400	22	185	PTFE	71216SN2JT00	8	A60
1/4	5/64	0.09	0	200	200	200	10	185	PTFE	71216SN2JT00	7	A60
1/4	1/16	0.10	0	700	700	700	22	165	PCTFE	71215SN2GF00	8	A60
1/4	1/16	0.10	0	350	350	350	10	165	PCTFE	71215SN2GF00	7	A60
1/4	3/32	0.18	0	300	300	300	22	165	PCTFE	71215SN2KF00	8	A60
1/4	3/32	0.18	0	130	130	130	10	165	PCTFE	71215SN2KF00	7	A60
1/4	1/8	0.28	0	200	200	200	22	165	PCTFE	71215SN2MF00	8	A60
1/4	1/8	0.28	0	100	100	100	10	165	PCTFE	71215SN2MF00	7	A60

* NYLON Seals: Allowable Seat leakage is 50 cc/min on air and inert gas at rated pressure: 71216SNxxLxx
RULON Seals: Allowable Seat leakage is 20 cc/min on air and inert gas at rated pressure: 71216SNxxUxx
PTFE Seals: Allowable Seat leakage is 20 cc/min on air and inert gas at rated pressure: 71216SNxxTxx

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2-Way Direct Acting - High Pressure - 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												
1/8	1/16	0.11	0	435	435	435	10	165	PCTFE	7122KBN1GF00	7	A65
1/8	3/32	0.21	0	175	175	175	10	165	PCTFE	7122KBN1LF00	7	A65
1/4	1/16	0.11	0	435	435	435	10	165	PCTFE	7122KBN2GF00	7	A65
1/4	3/32	0.21	0	175	175	175	10	165	PCTFE	7122KBN2LF00	7	A65
DC TECHNICAL SPECIFICATIONS												
1/8	1/16	0.11	0	435	435	435	10	165	PCTFE	7122KBN1GF00	7	A65
1/8	3/32	0.21	0	175	175	175	10	165	PCTFE	7122KBN1LF00	7	A65
1/4	1/16	0.11	0	435	435	435	10	165	PCTFE	7122KBN2GF00	7	A65
1/4	3/32	0.21	0	175	175	175	10	165	PCTFE	7122KBN2LF00	7	A65

2-Way Direct Acting - High Pressure - 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												
1/8	3/64	0.05	0	750	750	750	10	165	PCTFE	71225SN1EF00	7	A64
1/8	1/16	0.11	0	400	400	400	10	165	PCTFE	71225SN1GF00	7	A64
1/8	3/32	0.15	0	170	170	170	10	165	PCTFE	71225SN1KF00	7	A64
1/4	3/64	0.05	0	750	750	750	10	165	PCTFE	71225SN2EF00	7	A64
1/4	1/16	0.11	0	400	400	400	10	165	PCTFE	71225SN2GF00	7	A64
1/4	3/32	0.15	0	170	170	170	10	165	PCTFE	71225SN2KF00	7	A64
DC TECHNICAL SPECIFICATIONS												
1/8	3/64	0.05	0	750	750	750	10	165	PCTFE	71225SN1EF00	7	A64
1/8	1/16	0.11	0	400	400	400	10	165	PCTFE	71225SN1GF00	7	A64
1/8	3/32	0.15	0	170	170	170	10	165	PCTFE	71225SN1KF00	7	A64
1/4	3/64	0.05	0	750	750	750	10	165	PCTFE	71225SN2EF00	7	A64
1/4	1/16	0.11	0	400	400	400	10	165	PCTFE	71225SN2GF00	7	A64
1/4	3/32	0.15	0	170	170	170	10	165	PCTFE	71225SN2KF00	7	A64

2-Way Internal Pilot Operated - High Pressure - 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	1500	1500	1500	10	210	PTFE	73216BN2MT00	7	A61
1/4	5/16	1.50	15	1500	1500	1500	11	200	DEL	04F28C1D20ACF	4	A56
1/4	5/16	2.50	5	600	600	600	10	185	NBR	7321HBN2SN00	7	A63
3/8	5/16	1.50	15	1500	1500	1500	11	200	DEL	06F28C1D20ACF	4	A57
3/8	7/16	3.50	5	600	600	600	10	185	NBR	7321HBN3TN00	7	A63
1/2	3/8	3.20	25	1500	1500	1500	11	200	DEL	08F28C1D24ACF	4	A58
1/2	9/16	4.10	5	600	600	600	10	185	NBR	7321HBN4UN00	7	A63
3/4	3/4	7.80	25	1000	1000	1000	11	200	DEL	12F28C1D48BCF	4	A59
DC TECHNICAL SPECIFICATIONS												
1/4	5/16	2.50	5	600	600	600	22	185	NBR	7321HBN2SN00	8	A63
1/4	5/16	2.50	5	435	435	435	10	185	NBR	7321HBN2SN00	7	A63
1/4	1/4	0.76	5	1500	1500	1500	22	210	PTFE	73216BN2MT00	8	A61
1/4	1/4	0.76	5	800	800	800	10	210	PTFE	73216BN2MT00	7	A61
3/8	7/16	3.50	5	600	600	600	22	185	NBR	7321HBN3TN00	8	A63
3/8	7/16	3.50	5	435	435	435	10	185	NBR	7321HBN3TN00	7	A63
1/2	3/8	3.20	25	500	500	500	11.5	150	DEL	08F28C1D24A3F	6	A58
1/2	9/16	4.10	5	600	600	600	22	185	NBR	7321HBN4UN00	8	A63
1/2	9/16	4.10	5	435	435	435	10	185	NBR	7321HBN4UN00	7	A63
3/4	3/4	7.80	25	450	450	450	11.5	150	DEL	12F28C1D48A3F	6	A59

* PTFE Seals: Allowable Seat leakage is 50 cc/min on air and inert gas at rated pressure: 73216BNxxTxx
DELRIN Seals: Allowable Seat leakage is 472 cc/min on air and inert gas at rated pressure: xxF28C1Dxxxx

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2-Way Internal Pilot Operated - High Pressure - 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	1500	1500	1500	10	210	PTFE	73216SN2MT00	7	A62
DC TECHNICAL SPECIFICATIONS												
1/4	1/4	0.76	5	1500	1500	1500	22	210	PTFE	73216SN2MT00	8	A62
1/4	1/4	0.76	5	800	800	800	10	210	PTFE	73216SN2MT00	7	A62

* PTFE Seals: Allowable Seat leakage is 50 cc/min on air and inert gas at rated pressure: 73216BNxxTxx
DELRIN Seals: Allowable Seat leakage is 472 cc/min on air and inert gas at rated pressure: xxF28C1Dxxxx

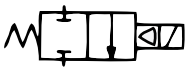
2-Way Internal Pilot Operated - High Pressure - Normally Opened - Brass

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	5/16	2.50	5	600	600	600	10	185	FKM	7322HBN2SV00	7	A63
3/8	7/16	3.50	5	600	600	600	10	185	NBR	7322HBN3TN00	7	A63
1/2	3/8	3.20	25	1000	1000	1000	11	200	DEL	08F28O1D24ACF	4	A58
1/2	9/16	4.10	5	600	600	600	10	185	NBR	7322HBN4UN00	7	A63
3/4	3/4	7.80	25	500	500	500	11	200	DEL	12F28O1D48BCF	4	A59
DC TECHNICAL SPECIFICATIONS												
1/4	5/16	2.50	5	600	600	600	10	185	FKM	7322HBN2SV00	7	A63
3/8	7/16	3.50	5	600	600	600	10	185	NBR	7322HBN3TN00	7	A63
1/2	9/16	4.10	5	600	600	600	10	185	NBR	7322HBN4UN00	7	A63

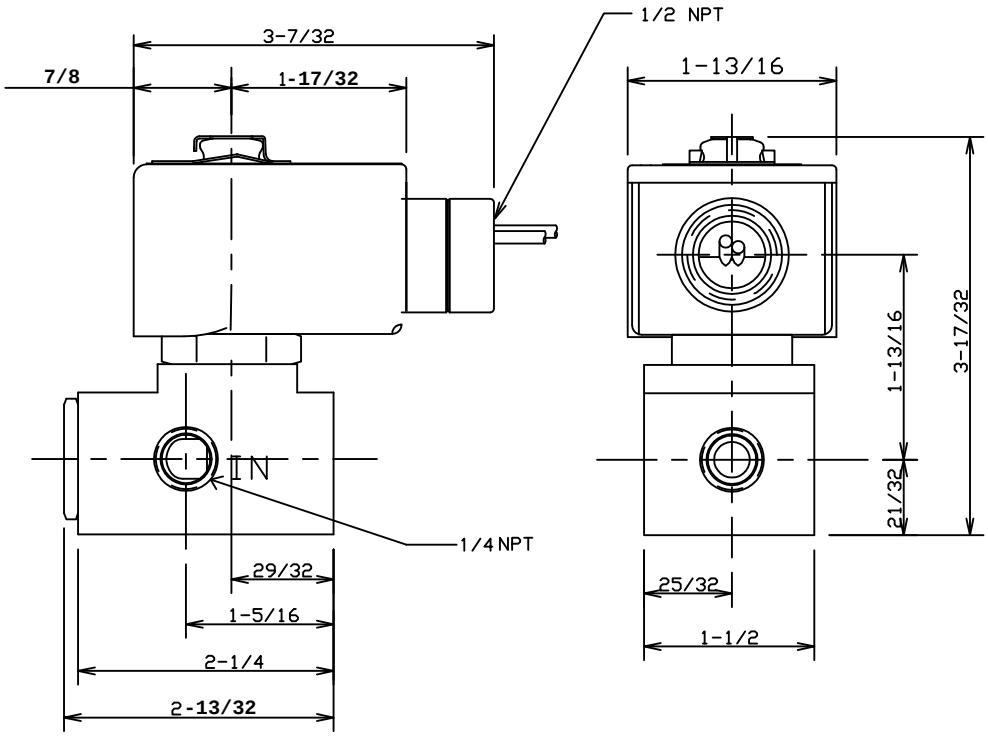
* PTFE Seals: Allowable Seat leakage is 50 cc/min on air and inert gas at rated pressure: 73216BNxxTxx
DELRIN Seals: Allowable Seat leakage is 472 cc/min on air and inert gas at rated pressure: xxF28O1Dxxxx

Valve Reference A56



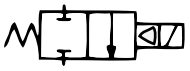


2-Way Normally Closed
04F28Cxxx
Port Identification:
IN-IN/ OUT-OUT

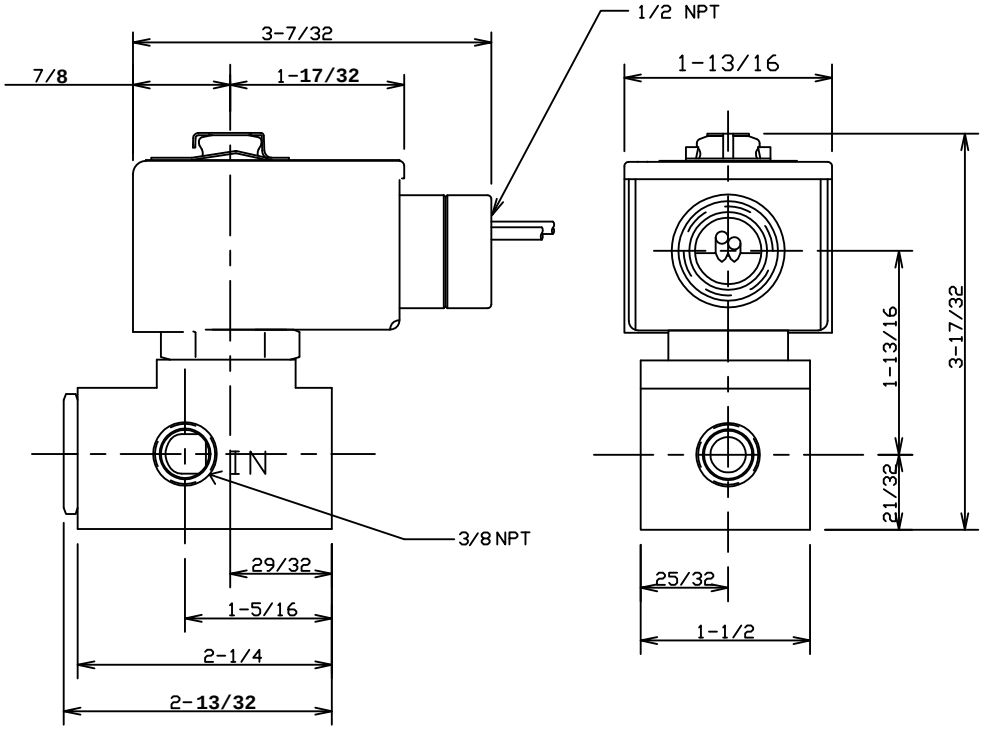


Valve Reference A57





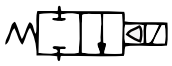
2-Way Normally Closed
06F28Cxxx
Port Identification:
IN-IN/ OUT-OUT



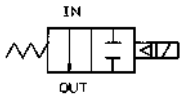
Parker Hannifin Corporation
Fluid Control Division
1 800 825 8305 (1 800 Valve05)
www.parker.com/fcd

Valve Reference A58

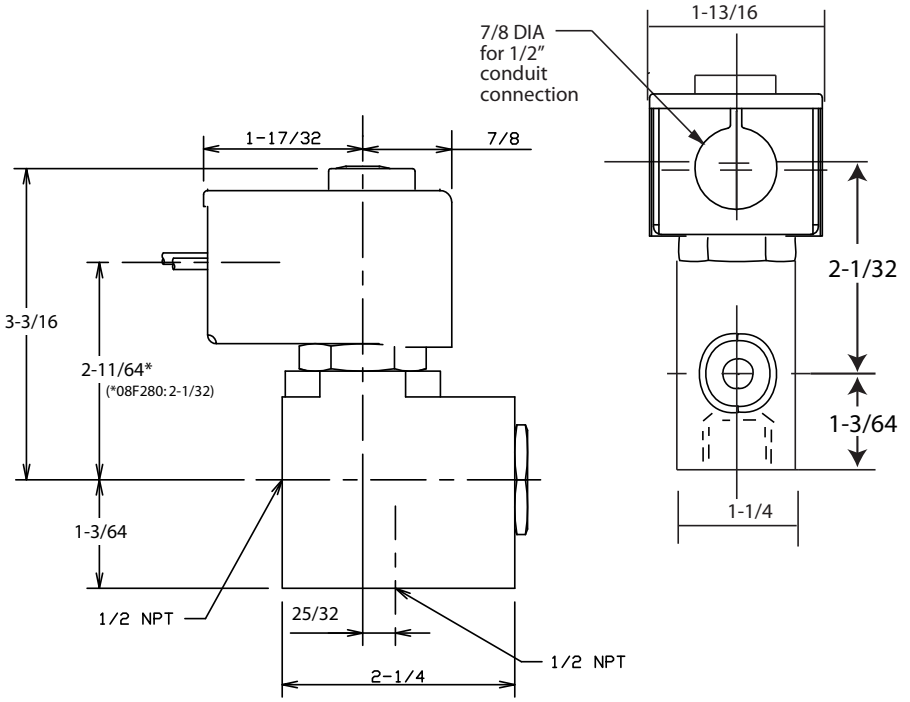




2-Way Normally Closed
08F28Cxx

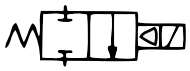


2-Way Normally Open
08F28Oxx
Port Identification:
IN-IN/ OUT-OUT

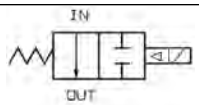


Valve Reference A59



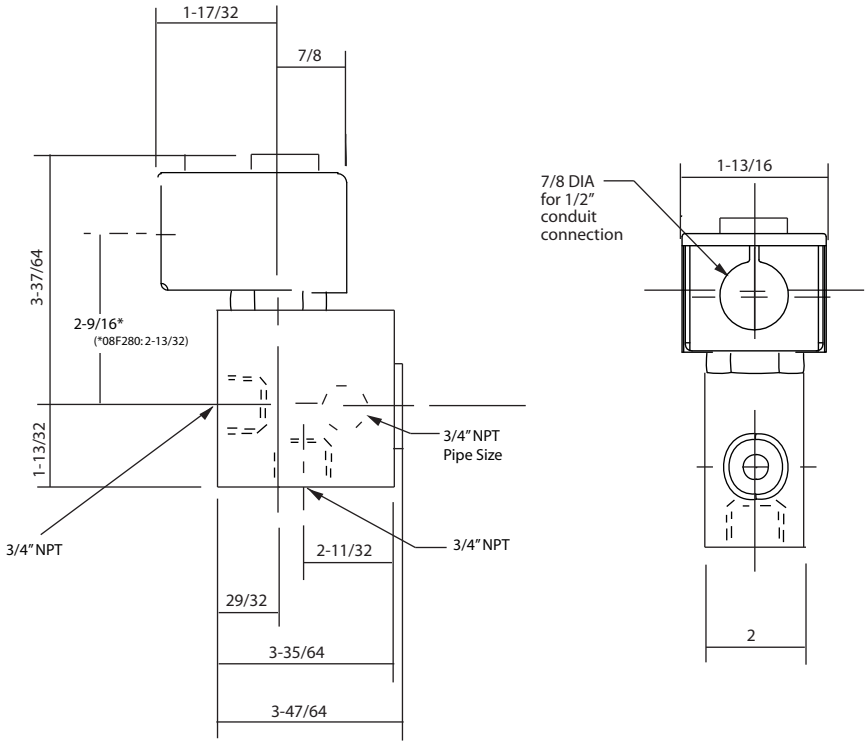


2-Way Normally Closed
12F28Cxx



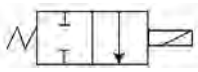
2-Way Normally Open
12F28Oxx

Port Identification:
IN-IN/ OUT-OUT

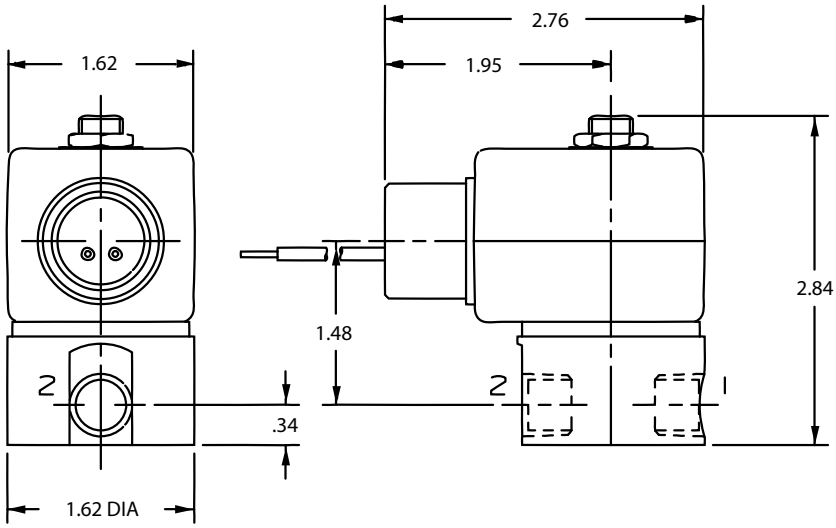


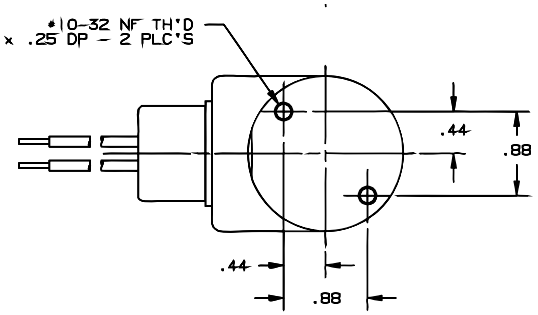
Valve Reference A60





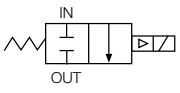
2-Way Normally Closed
Port Identification:
1-OUT/ 2-IN



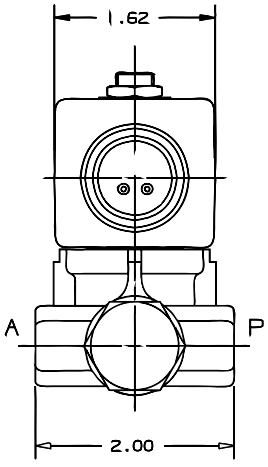


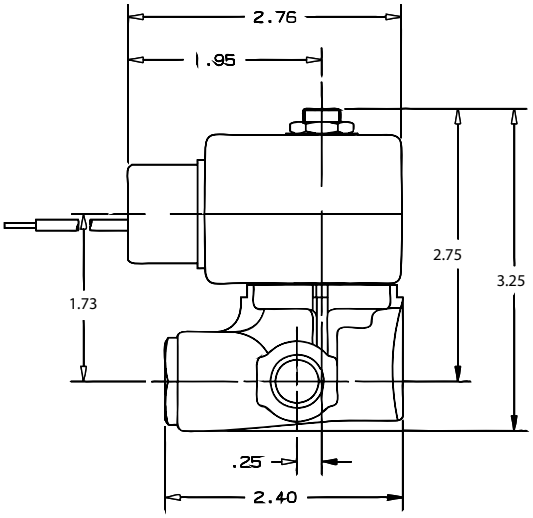
Valve Reference A61





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

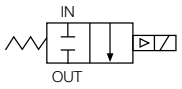




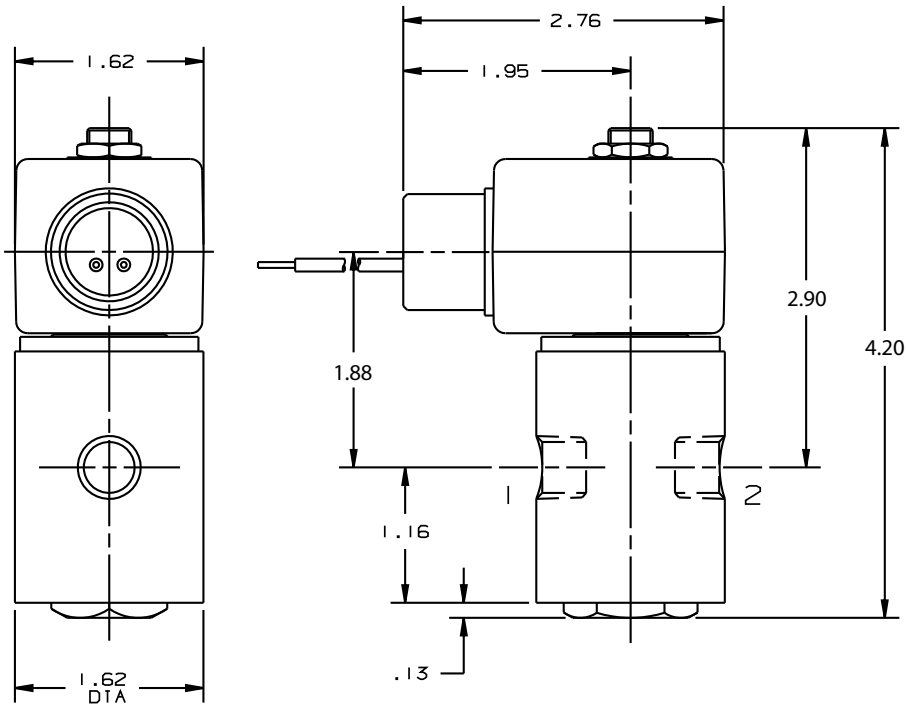
Parker Hannifin Corporation
Fluid Control Division
1 800 825 8305 (1 800 Valve05)
www.parker.com/fcd

Valve Reference A62



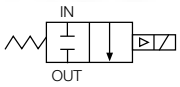


2-Way Normally Closed
Port Identification:
2-IN/ 1-OUT

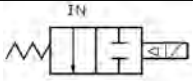


Valve Reference A63



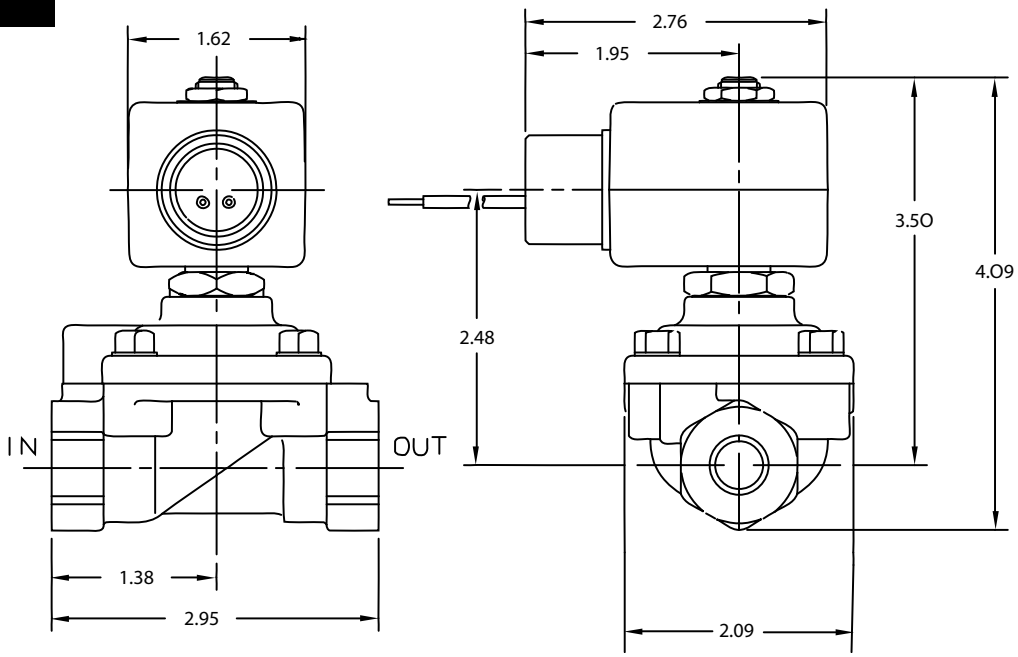


2-Way Normally Closed
7321HBxx



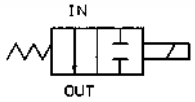
2-Way Normally Open
7322HBxx

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

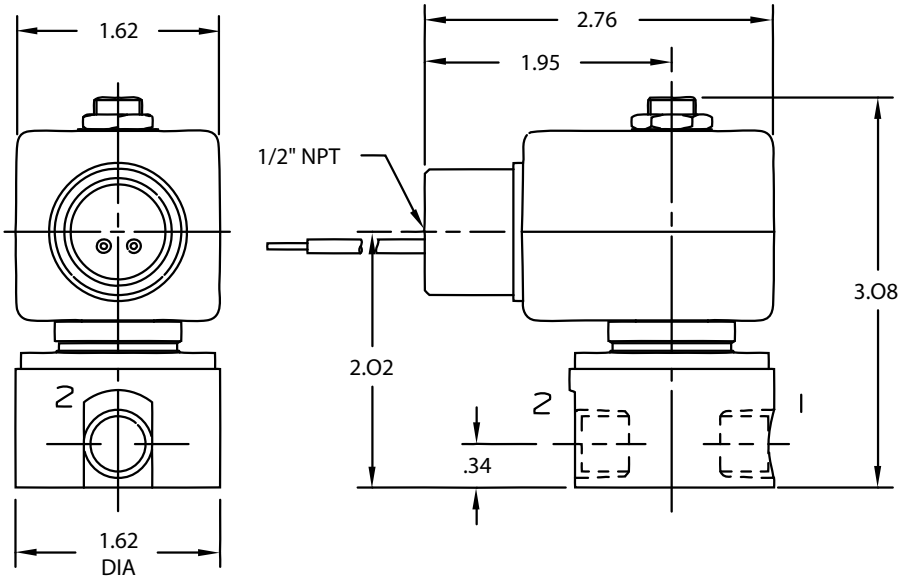


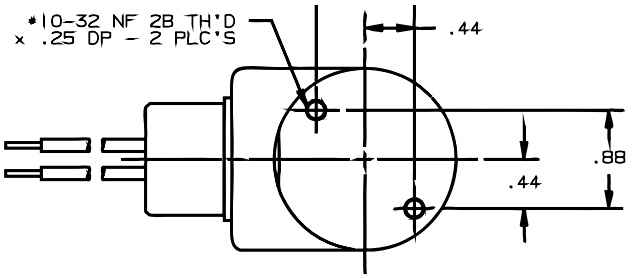
Valve Reference A64





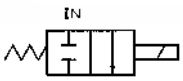
2-Way Normally Open
Port Identification:
2-IN/ 1-OUT



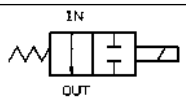


Valve Reference A65

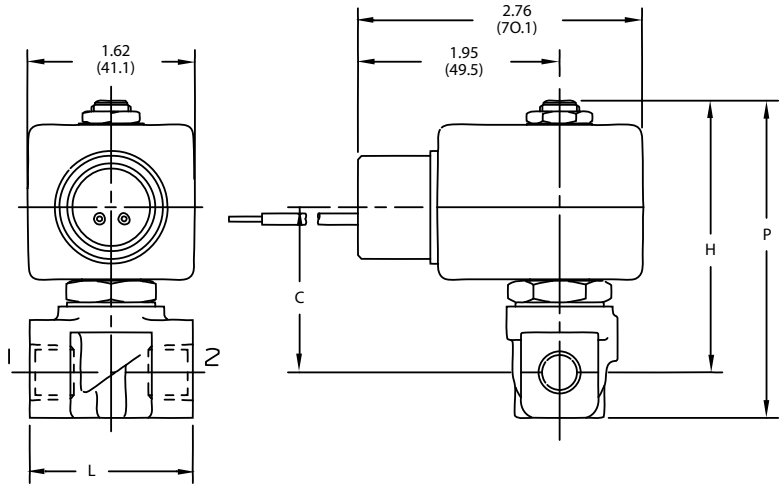




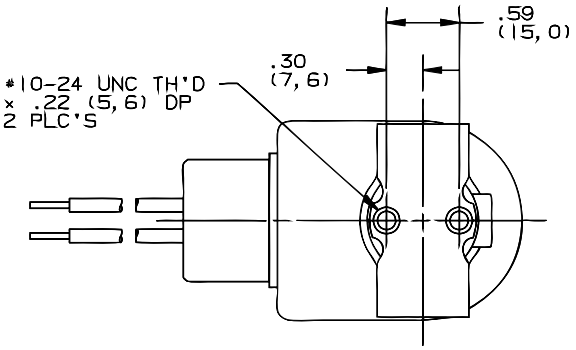
2-Way Normally Closed
7121KBNxx



2-Way Normally Open
7122KBNxx
Port Identification:
1-IN/2-OUT



Valve	Dimensions			
	H	P	C	L
7121KBN1XXXX 7121KBN2XXXX 7122KBN1XXXX 7122KBN2XXXX	2.63	3.07	1.61	1.57
7121KBN3XXXX	2.57	3.08	1.55	1.97



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2-Way Direct Acting Materials of Construction**

Product*	Wattage	Type	Port Size	Body	Sleeve Tube	Sleeve Stop	Sleeve Flange	"Plunger Blank"	Plunger Spring	Shading Ring	Max. Ambient Temp.
71215SN	10	2WNC	1/8 - 3/8	430F	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
71215SN	22	2WNC	1/8 - 3/8	430F	304SS	430FR	430F	430FR	18-8SS	Copper	77°F
71216SN	10	2WNC	1/8 - 1/4	430F	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
71216SN	22	2WNC	1/8 - 1/4	430F	304SS	430FR	430F	430FR	18-8SS	Copper	77°F
7121KBN	10	2WNC	1/8 - 3/8	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
7121KBN	22	2WNC	1/8 - 3/8	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	77°F
71225SN	10	2WNO	1/8 - 1/4	430F	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
71225SN	22	2WNO	1/8 - 1/4	430F	304SS	430FR	430F	430FR	18-8SS	Copper	77°F
7122KBN	10	2WNO	1/8 - 1/4	Brass	304SS	430FR	430F	430FR	301SS	Copper	150°F
7122KBN	22	2WNO	1/8 - 1/4	Brass	304SS	430FR	430F	430FR	301SS	Copper	77°F
73216BN	10	2WNC	1/4	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
73216BN	22	2WNC	1/4	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	77°F
73216SN	10	2WNC	1/4	316SS	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
73216SN	22	2WNC	1/4	316SS	304SS	430FR	430F	430FR	18-8SS	Copper	77°F
7321HBN	10	2WNC	1/4 - 1/2	Brass	304SS	430FR	430F	430FR	301SS	Copper	150°F
7321HBN	22	2WNC	1/4 - 1/2	Brass	304SS	430FR	430F	430FR	301SS	Copper	77°F
7322HBN	10	2WNO	1/4 - 1/2	Brass	304SS	430FR/ 4106	430F/ 4144	430FR	301SS	Copper	150°F
7322HBN	22	2WNO	1/4 - 1/2	Brass	304SS	430FR/ 4106	430F/ 4144	430FR	301SS	Copper	77°F
04F28C1	11	2WNC	1/4	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	130°F
06F28C1	11	2WNC	3/8	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	130°F
08F28C1	11	2WNC	1/2	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	130°F
08F28C1	11.5	2WNC	1/2	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	77°F
08F28O1	11	2WNO	1/2	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	130°F
12F28C1	11.5	2WNC	3/4	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	77°F
12F28C1	11	2WNC	3/4	Brass	305SS	430FR	12L14 Plated	430FR	302SS	Copper	130°F
12F28O1	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.

Notes

Parker Hannifin Corporation
Fluid Control Division
1 800 825 8305 (1 800 Valve05)
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2-Way

Anti-Water Hammer & Slow Closing Valves
3/8" - 2" NPT



General Description:

2-way Anti-Water Hammer and Slow Closing valves are designed for liquid applications where the installation is susceptible to shock waves caused by the abrupt closing of the valves. Anti-water hammer valves have integral speed control so that the valve closes in a more controlled and slower manner, thus eliminating the shock to the system piping. Pilot operated valves require the minimum pressure differential specified for proper valve operation.

Installation
Valves should be mounted with solenoid coils vertical and upright.

Standard Materials of Construction
Please refer to page A80

Compatible Fluids
Water, hydraulic fluids and other non-compressible media.



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 A80 for details.

Applications:

- Used in applications on water or other non-compressible liquids where normal operation may cause a 'water hammer' effect which results in shockwaves to the system that can damage the piping or other components.

Parker Hannifin Corporation
Fluid Control Division
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2-Way Pilot Operated - Anti-Water Hammer - 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.	Water and other non-compressible media					Coil	Valve
AC TECHNICAL SPECIFICATIONS										
3/8	7/16	2.5	3	150	10	185	NBR	7321KBN3SNW0	7	A66
1/2	7/16	2.5	3	150	10	185	NBR	7321KBN4SNW0	7	A66
3/4	19/32	5.5	0	230	10	185	NBR	7221GBN51NC0*	7	A67
3/4	25/32	9.6	5	230	10	185	NBR	7321GBN53NMC	7	A68
1	1	12.5	5	230	10	185	NBR	7321GBN64NMC	7	A68
1	1	11.7	0	230	10	185	NBR	7221GBN64NC0*	7	A67
1 1/4	1 1/8	19.3	5	230	10	185	NBR	7321GBN76NMC	7	A68
1 1/2	1 9/16	29.0	5	230	10	185	NBR	7321GBN88NMC	7	A68
2	1 9/16	38.6	5	230	10	185	NBR	7321GBN99NMC	7	A68
DC TECHNICAL SPECIFICATIONS										
3/8	7/16	2.5	3	150	22	185	NBR	7321KBN3SNW0	8	A66
3/8	7/16	2.5	3	60	10	185	NBR	7321KBN3SNW0	7	A66
1/2	7/16	2.5	3	150	22	185	NBR	7321KBN4SNW0	8	A66
1/2	7/16	2.5	3	60	10	185	NBR	7321KBN4SNW0	7	A66
3/4	3/4	9.6	5	230	10	185	NBR	7321GBN53NMC	7	A68
3/4	19/32	5.5	0	100	22	185	NBR	7221GBN51NC0*	8	A67
1	1	12.5	5	230	10	185	NBR	7321GBN64NMC	7	A68
1	1	11.7	0	85	22	185	NBR	7221GBN64NC0*	8	A67
1 1/4	1 1/8	19.3	5	230	10	185	NBR	7321GBN76NMC	7	A68
1 1/2	1 9/16	29.0	5	230	22	185	NBR	7321GBN88NMC	8	A68
1 1/2	1 9/16	29.0	5	200	10	185	NBR	7321GBN88NMC	7	A68
2	1 9/16	38.6	5	230	22	185	NBR	7321GBN99NMC	8	A68
2	1 9/16	38.6	5	200	10	185	NBR	7321GBN99NMC	7	A68

*** These are direct lift valves that will open at zero pressure differential, but not fully open until approximately 5 psi differential is achieved.**

**** Mechanical Options indicated in pressure vessel catalog number (eleventh and twelfth digits) are as follows: C0=four-step adjustable closing, MC=manual override with four-step adjustable closing, W0=non-adjustable control**

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2-Way Pilot Operated - Anti-Water Hammer - Normally Open - Brass

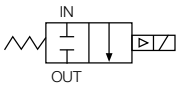
Port Size NPT	Orifice Size in.	Flow Factor Cv	Operating Pressure Differential (MOPD) PSI		Watt	Max. Media Temp. °F	Seal	Pressure Vessel Number**	Reference	
			Min.	Water and other non-compressible media					Coil	Valve
AC TECHNICAL SPECIFICATIONS										
3/4	25/32	9.6	5	230	10	185	NBR	7322GBN53NC0	7	A68
1	1	12.5	5	230	10	185	NBR	7322GBN64NC0	7	A68
1 1/4	1 1/8	19.3	5	230	10	185	NBR	7322GBN76NC0	7	A68
1 1/2	1 9/16	29.0	5	170	10	185	NBR	7322GBN88NC0	7	A68
2	1 9/16	38.6	5	170	10	185	NBR	7322GBN99NC0	7	A68
DC TECHNICAL SPECIFICATIONS										
3/4	25/32	9.6	5	230	10	185	NBR	7322GBN53NC0	7	A68
1	1	12.5	5	230	10	185	NBR	7322GBN64NC0	7	A68
1 1/4	1 1/8	19.3	5	230	10	185	NBR	7322GBN76NC0	7	A68
1 1/2	1 9/16	29.0	5	170	10	185	NBR	7322GBN88NC0	7	A68
2	1 9/16	38.6	5	170	10	185	NBR	7322GBN99NC0	7	A68

****Mechanical Options indicated in pressure vessel catalog number (eleventh and twelfth digits) are as follows: C0=four-step adjustable closing, MC=manual override with four-step adjustable closing, W0=non-adjustable control**

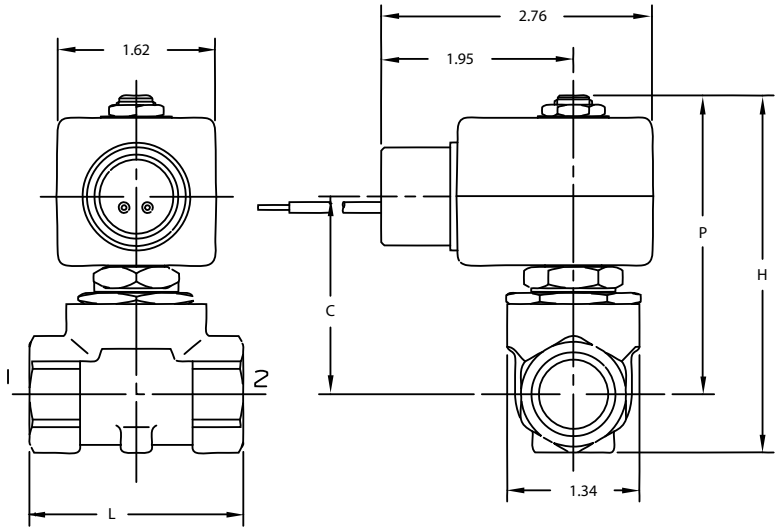
Response Time		
Valve Type	Opening Time Range (Seconds)	Closing Time Range (Seconds)
7221GBN51NC0	0.03	0.2-1.7
7221GBN64NC0	0.07-0.17	0.5-4.0
7321KBN3SNW0	0.015	0.85
7321KBN4SNW0	0.015	0.85
7321GBN53NMC	0.1 - 0.25	0.6-4.5
7321GBN64NMC	0.1 - 0.25	0.6-4.5
7321GBN76NMC	0.2 - 0.5	0.8-5.8
7321GBN88NMC	0.2 - 0.4	1.5-9.0
7321GBN99NMC	0.25 - 0.45	1.5-9.5
7322GBN53NC0	0.1 - 0.25	0.6-4.5
7322GBN64NC0	0.1 - 0.25	0.6-4.5
7322GBN76NC0	0.2 - 0.5	0.8-5.8
7322GBN88NC0	0.2 - 0.4	1.5-9.0
7322GBN99NC0	0.25 - 0.45	1.5-9.5

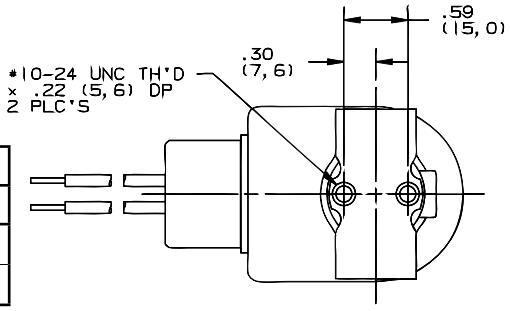
Valve Reference A66





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

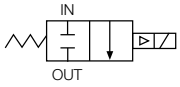




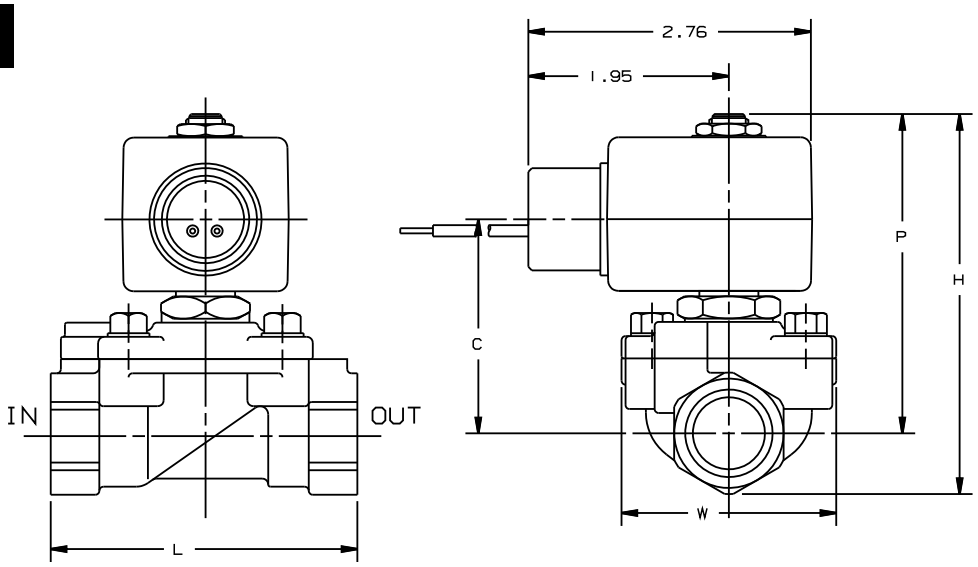
Valve	Dimensions			
	H	P	C	L
7321KBN3SNW0	3.56	2.97	1.96	2.17
7321KBN4SNW0	3.56	2.97	1.96	1.97

Valve Reference A67





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

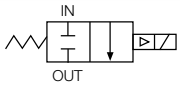


Valve	Dimensions				
	H	P	C	L	W
7221GBN51XXX	3.75	3.07	2.06	3.15	2.09
7221GBN64XXX	4.25	3.35	2.34	3.94	2.75

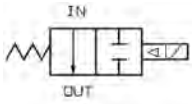
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Valve Reference A68



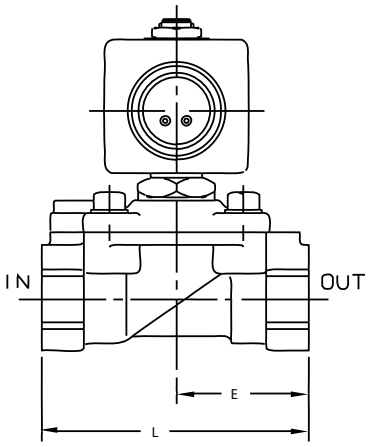


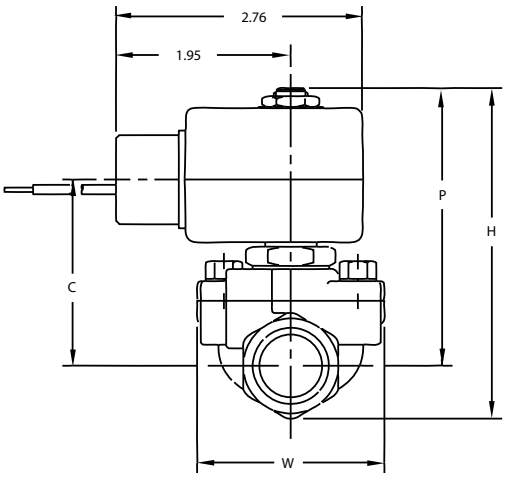
2-Way Normally Closed
7321GBNxx



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
7321GBN53NMC 7322GBN53NCO 7321GBN64NMC 7322GBN64NCO	4.75	3.86	2.84	3.94	1.97	2.75
7321GBN76NMC 7322GBN76NCO	5.41	4.11	3.09	4.33	2.17	2.75
7321GBN88NMC 7322GBN88NCO	5.66	4.37	3.35	5.51	2.95	3.90
7321GBN99NMC 7322GBN99NCO	6.25	4.60	3.58	5.91	3.15	3.90

2-Way Pilot Operated Anti-Water Hammer-Materials of Construction**

Product*	Watt	Type	Port Size	Body	Sleeve Tube	Sleeve Stop	Sleeve Flange	"Plunger Blank"	Plunger Spring	Shading Ring	Max. Ambient Temp.
7221GBN	10	2WNC	3/4	Brass	304SS	430FR	430F	430FR	301SS	Copper	150°F
7221GBN	22	2WNC	3/4	Brass	304SS	430FR	430F	430FR	301SS	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	3/8 - 1/2	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
7321KBN	22	2WNC	3/8 - 1/2	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

* 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.

Notes

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3-Way Miniature

Direct Acting Valves
1/8" NPT



General Description:

3-way Miniature Direct Acting valves are suitable for low to medium pressure applications that do not require a minimum operating pressure differential, for actuation. Available in normally open, normally closed, or universal operation. Tested to 20 million cycles under lab conditions. Standard with 303 stainless steel bodies and FKM seals.

Installation
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 B4.

Compatible Fluids
Lubricated Air, Inert Gases, Water, Light Oil (300 SSU) and additional fluids compatible with materials of construction.

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
For other voltages – consult factory



Coil Classification:
Class F standard
Class H available
AC & DC coils are interchangeable on the same pressure vessel.

Agency Approvals:
Standard valves with NEMA 4X are C-UL-US listed and CSA certified.
For additional details, consult factory.

Maximum Ambient Temperature
135°F (AC); 125°F (DC)
In the absence of moisture, applications as low as -20°F are possible.

Please refer to Page B4 for details.

Applications:

- Single acting spring return cylinder control
- Selection or diversion of process media
- HVAC damper control
- Instrumentation
- Pneumatic positioning
- Automatic dispensing equipment
- Small compressors
- Water treatment
- Air dryers
- Medical & dental equipment
- Damper control

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3-Way Miniature Direct Acting - 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	
	In	Exh.	In	Exh.	Min.	Air, Inert Gas	Water	Light Oil					Coil	Valve
AC TECHNICAL SPECIFICATIONS														
1/8	1/32	1/32	0.02	0.02	0	250	250	250	10	240	FKM	30CC02AV4	9	B1
1/8	3/64	3/64	0.05	0.05	0	200	200	200	10	240	FKM	30CC02EV4	9	B1
1/8	1/16	1/16	0.09	0.10	0	130	130	130	10	240	FKM	30CC02GV4	9	B1
1/8	5/64	5/64	0.15	0.14	0	90	90	90	10	240	FKM	30CC02JV4	9	B1
1/8	3/32	3/32	0.19	0.20	0	75	75	75	10	240	FKM	30CC02LV4	9	B1
1/8	7/64	3/32	0.25	0.20	0	50	50	50	10	240	FKM	30CC02MV4	9	B1
1/8	1/8	3/32	0.32	0.20	0	40	40	40	10	240	FKM	30CC02PV4	9	B1
1/8	5/32	3/32	0.38	0.20	0	25	25	25	10	240	FKM	30CC02QV4	9	B1
DC TECHNICAL SPECIFICATIONS														
1/8	1/32	1/32	0.02	0.02	0	250	250	250	8	240	FKM	30CC02AV4	9	B1
1/8	3/64	3/64	0.05	0.05	0	200	200	200	8	240	FKM	30CC02EV4	9	B1
1/8	1/16	1/16	0.09	0.10	0	130	130	130	8	240	FKM	30CC02GV4	9	B1
1/8	5/64	5/64	0.15	0.14	0	90	90	90	8	240	FKM	30CC02JV4	9	B1
1/8	3/32	3/32	0.19	0.20	0	75	75	75	8	240	FKM	30CC02LV4	9	B1
1/8	7/64	3/32	0.25	0.20	0	50	50	50	8	240	FKM	30CC02MV4	9	B1
1/8	1/8	3/32	0.32	0.20	0	40	40	40	8	240	FKM	30CC02PV4	9	B1
1/8	5/32	3/32	0.38	0.20	0	25	25	25	8	240	FKM	30CC02QV4	9	B1

3-Way Miniature Direct Acting - 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	
	In	Exh.	In	Exh.	Min.	Air, Inert Gas	Water	Light Oil					Coil	Valve
AC TECHNICAL SPECIFICATIONS														
1/8	1/32	1/32	0.02	0.02	0	375	375	375	10	240	FKM	30CF02AV4	9	B1
1/8	3/64	3/64	0.05	0.05	0	230	230	230	10	240	FKM	30CF02EV4	9	B1
1/8	1/16	1/16	0.10	0.09	0	150	150	150	10	240	FKM	30CF02GV4	9	B1
1/8	5/64	5/64	0.14	0.15	0	105	105	105	10	240	FKM	30CF02JV4	9	B1
1/8	3/32	3/32	0.20	0.19	0	80	80	80	10	240	FKM	30CF02LV4	9	B1
DC TECHNICAL SPECIFICATIONS														
1/8	1/32	1/32	0.02	0.02	0	375	375	375	8	240	FKM	30CF02AV4	9	B1
1/8	3/64	3/64	0.05	0.05	0	230	230	230	8	240	FKM	30CF02EV4	9	B1
1/8	1/16	1/16	0.10	0.09	0	150	150	150	8	240	FKM	30CF02GV4	9	B1
1/8	5/64	5/64	0.14	0.15	0	105	105	105	8	240	FKM	30CF02JV4	9	B1
1/8	3/32	3/32	0.20	0.19	0	80	80	80	8	240	FKM	30CF02LV4	9	B1

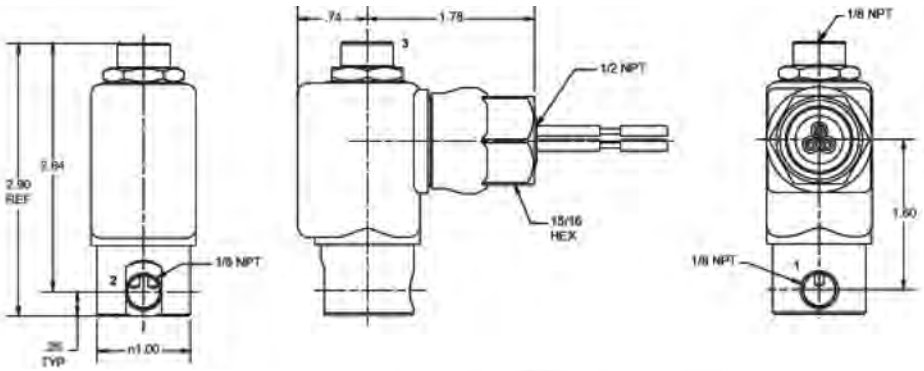
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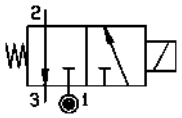
3-Way Miniature Direct Acting - Universal - Stainless Steel

Port Size NPT	Orifice Size In.		Flow Factor Cv		Operating Pressure Differential (MOPD) PSI				Watt	Max. Media Temp. °F	Seal	Pressure Vessel Number	Reference	
	NC	NO	NC	NO	Min.	Air, Inert Gas	Water	Light Oil					Coil	Valve
AC TECHNICAL SPECIFICATIONS														
1/8	1/32	1/32	0.02	0.02	0	200	200	200	10	240	FKM	30CU02AV4	9	B1
1/8	3/64	3/64	0.05	0.05	0	150	150	150	10	240	FKM	30CU02EV4	9	B1
1/8	1/16	1/16	0.09	0.10	0	100	100	100	10	240	FKM	30CU02GV4	9	B1
1/8	5/64	5/64	0.15	0.14	0	70	70	70	10	240	FKM	30CU02JV4	9	B1
1/8	3/32	3/32	0.19	0.20	0	50	50	50	10	240	FKM	30CU02LV4	9	B1
1/8	7/64	3/32	0.25	0.20	0	40	40	40	10	240	FKM	30CU02MV4	9	B1
1/8	1/8	3/32	0.32	0.20	0	30	30	30	10	240	FKM	30CU02PV4	9	B1
1/8	5/32	3/32	0.38	0.20	0	20	20	20	10	240	FKM	30CU02QV4	9	B1
DC TECHNICAL SPECIFICATIONS														
1/8	1/32	1/32	0.02	0.02	0	200	200	200	8	240	FKM	30CU02AV4	9	B1
1/8	3/64	3/64	0.05	0.05	0	150	150	150	8	240	FKM	30CU02EV4	9	B1
1/8	1/16	1/16	0.09	0.10	0	100	100	100	8	240	FKM	30CU02GV4	9	B1
1/8	5/64	5/64	0.15	0.14	0	70	70	70	8	240	FKM	30CU02JV4	9	B1
1/8	3/32	3/32	0.19	0.20	0	50	50	50	8	240	FKM	30CU02LV4	9	B1
1/8	7/64	3/32	0.25	0.20	0	40	40	40	8	240	FKM	30CU02MV4	9	B1
1/8	1/8	3/32	0.32	0.20	0	30	30	30	8	240	FKM	30CU02PV4	9	B1
1/8	5/32	3/32	0.38	0.20	0	20	20	20	8	240	FKM	30CU02QV4	9	B1

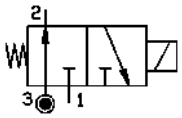
Valve Reference B1



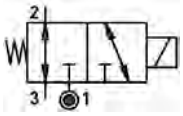




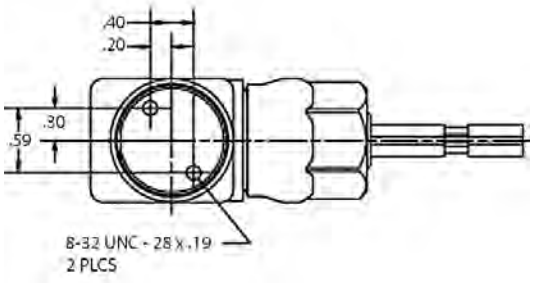
3-Way Normally Closed
30CCxx
Port Identification:
Press - 1/CYL - 2 /EXH - 3



3-Way Normally Open
30CFxx
Port Identification:
Press -3/ CYL - 2 /EXH - 1



3-Way Universal
30CUxx
Port Identification:
Pressure can be applied at either port.



3-Way

3-Way Miniature Direct Acting Materials of Construction**

Product*	Watt	Type	Port Size	Body	Sleeve Tube	Sleeve Stop	Sleeve Flange	"Plunger Blank"	Plunger Spring	Shading Ring	Max. Ambient Temp.
30CC02	10 (AC)	3WNC	1/8	303SS	304SS	430FR	430FR	430FR	18-8SS	Copper	135°F
30CC02	8 (DC)	3WNC	1/8	303SS	304SS	430FR	430FR	430FR	18-8SS	Copper	125°F
30CF02	10 (AC)	3WNO	1/8	303SS	304SS	430FR	430FR	430FR	18-8SS	Copper	135°F
30CF02	8 (DC)	3WNO	1/8	303SS	304SS	430FR	430FR	430FR	18-8SS	Copper	125°F
30CU02	10 (AC)	3WU	1/8	303SS	304SS	430FR	430FR	430FR	18-8SS	Copper	135°F
30CU02	8 (DC)	3WU	1/8	303SS	304SS	430FR	430FR	430FR	18-8SS	Copper	125°F

* Shows the first 6 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.

Check out the 2-Way and 3-Way Manifold Mounted Miniature Catridge valves in the Specialty Section of this catalog.





Product Features:

- Space saving approach
- Less manifold machining equals lower manifold cost
- No manifold orifices to machine or press in
- Easy to assemble & disassemble with a 5/32" hex wrench (Torque = 25-35 in-lbs)
- Cartridge valves are 100% tested
- No loose parts: sleeve, plunger, spring and orifice are pressed together as one unit
- Available with all coils/enclosures from Chart 9 in the Coil Section of this catalog

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3-Way

Direct Acting Valves
1/8" - 1/4" NPT



General Description:

3-way Direct Acting valves are suitable for low to medium pressure applications that do not require a minimum operating pressure differential. Available in normally open, normally closed and universal operation.

Installation
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 B23.

Compatible Fluids
Lubricated Air, Inert Gases, Water, Light Oil (300 SSU) and additional fluids compatible with materials of construction.

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
Class B Coils (Std. on A-Series Valves)

Agency Approvals:

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

SIL-3 Capable (Models 7131Txx, 7132Txx, 7133Txx). See Certificate in Technical Section Page F19.

Maximum Ambient Temperature
167°F

Please refer to Page B23 for details.

Applications:

- Single acting spring return cylinder control
- Selection or diversion of process media
- HVAC damper control
- Instrumentation
- Pneumatic positioning
- Automatic dispensing equipment
- Gas sampling
- Small compressors
- Water treatment
- Air dryers

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3-Way Direct Acting - 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	
	In	Exh.	In	Exh.	Min.	Air, Inert Gas	Water	Light Oil					Coil	Valve
AC TECHNICAL SPECIFICATIONS														
1/8	3/64	3/64	0.05	0.05	0	200	200	200	6	180	NBR	02F30C1103AAF	1	B8
1/8	1/16	1/16	0.08	0.08	0	125	125	125	6	180	NBR	02F30C1104AAF	1	B8
1/8	1/16	1/16	0.11	0.11	0	215	215	215	10	185	FKM	7131KBN1GV00	7	B12
1/8	3/32	3/32	0.12	0.12	0	100	100	100	6	180	NBR	02F30C1106AAF	1	B8
1/8	1/8	1/8	0.21	0.21	0	40	40	40	6	180	NBR	02F30C1108AAF	1	B8
1/8	3/32	3/32	0.24	0.24	0	100	100	100	10	185	FKM	7131KBN1LV00	7	B12
1/4	1/32	1/32	0.02	0.02	0	580	580	580	10	165	PCTFE	7131KBN2BF00	7	B12
1/4	1/16	1/16	0.08	0.08	0	125	125	125	6	180	NBR	04F30C2104AAF	1	B16
1/4	1/16	1/16	0.09	0.09	0	235	235	235	16	200	NBR	04F30C2104ADF	5	B17
1/4	1/16	1/16	0.11	0.11	0	215	215	215	10	185	FKM	7131KBN2GV00	7	B12
1/4	3/32	3/32	0.12	0.12	0	140	140	140	11	200	NBR	04F30C2106ACF	4	B17
1/4	5/64	5/64	0.17	0.24	0	150	150	150	10	185	FKM	7131KBN2JV00	7	B12
1/4	5/64	1/8	0.17	0.31	0	150	150	150	10	185	FKM	7131TBN2JV00	7	B13
1/4	3/32	3/32	0.21	0.21	0	250	250	250	16	180	NBR	A3LB2252	*	B18
1/4	3/32	9/64	0.24	0.38	0	110	110	110	10	185	FKM	7131TBN2LV00	7	B13
1/4	3/32	3/32	0.24	0.24	0	100	100	100	10	185	FKM	7131KBN2LV00	7	B12
1/4	1/8	1/8	0.25	0.25	0	70	70	70	11	200	NBR	04F30C2108ACF	4	B17
1/4	1/8	1/8	0.35	0.35	0	175	175	175	16	180	NBR	A3LB2177	*	B18
1/4	11/64	11/64	0.35	0.35	0	40	40	40	11	200	NBR	04F30C2111ACF	4	B17
1/4	5/32	5/32	0.45	0.45	0	125	125	125	16	180	NBR	A3LB2127	*	B18
1/4	3/16	1/4	0.49	0.63	0	30	30	30	10	185	FKM	7131TBN2RV00	7	B13

***Ordering A Series Valves:**

A Series Valves must be ordered as complete part numbers (These are Class B coils).

1) Select pressure vessel part number from above (i.e. A3LB2252)
2) Choose coil/enclosure part number from table below for required voltage

Voltage	24/60	120/60	240/60	12VDC	24VDC
Coil Code	AB2A44	AB6A46	AB8A48	DC1A22	DC2A23
Coil Part Number*	AB720S24	AB728S24	AB731S24	A7724F24	A7727F24

*When ordering a replacement coil, use Coil Part Number (not Coil Code)

3) Complete P/N for 120/60 is A3LB2252AB6A46

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3-Way Direct Acting - 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	
	In	Exh.	In	Exh.	Min.	Air, Inert Gas	Water	Light Oil					Coil	Valve
DC TECHNICAL SPECIFICATIONS														
1/8	3/64	3/64	0.05	0.05	0	200	200	200	9.5	120	NBR	02F30C1103A1F	3	B8
1/8	1/16	1/16	0.08	0.08	0	125	125	125	9.5	120	NBR	02F30C1104A1F	3	B8
1/8	1/16	1/16	0.11	0.11	0	215	215	215	10	185	FKM	7131KBN1GV00	7	B12
1/8	3/32	3/32	0.12	0.12	0	100	100	100	9.5	120	NBR	02F30C1106A1F	3	B8
1/8	3/32	3/32	0.24	0.24	0	100	100	100	10	185	FKM	7131KBN1LV00	7	B12
1/8	1/8	1/8	0.21	0.21	0	40	40	40	9.5	120	NBR	02F30C1108A1F	3	B8
1/4	1/32	1/32	0.02	0.02	0	580	580	580	10	165	PCTFE	7131KBN2BF00	7	B12
1/4	1/16	1/16	0.08	0.08	0	125	125	125	9.5	120	NBR	04F30C2104A1F	3	B16
1/4	1/16	1/16	0.09	0.09	0	160	160	160	11.5	150	NBR	04F30C2104A3F	6	B17
1/4	1/16	1/16	0.11	0.11	0	215	215	215	10	185	FKM	7131KBN2GV00	7	B12
1/4	3/32	3/32	0.12	0.12	0	115	115	115	11.5	150	NBR	04F30C2106A3F	6	B17
1/4	5/64	5/64	0.17	0.24	0	150	150	150	10	185	FKM	7131KBN2JV00	7	B12
1/4	5/64	1/8	0.17	0.31	0	150	150	150	10	185	FKM	7131TBN2JV00	7	B13
1/4	3/32	3/32	0.21	0.21	0	250	250	250	14	180	NBR	A36LB2251	*	B18
1/4	3/32	9/64	0.24	0.38	0	110	110	110	10	185	FKM	7131TBN2LV00	7	B13
1/4	3/32	3/32	0.24	0.24	0	100	100	100	10	185	FKM	7131KBN2LV00	7	B12
1/4	1/8	1/8	0.25	0.25	0	60	60	60	11.5	150	NBR	04F30C2108A3F	6	B17
1/4	1/8	1/8	0.35	0.35	0	175	175	175	14	180	NBR	A36LB2176	*	B18
1/4	11/64	11/64	0.35	0.35	0	25	25	25	11.5	150	NBR	04F30C2111A3F	6	B17
1/4	5/32	5/32	0.45	0.45	0	125	125	125	14	180	NBR	A36LB2126	*	B18
1/4	3/16	1/4	0.49	0.63	0	30	30	30	10	185	FKM	7131TBN2RV00	7	B13

***Ordering A Series Valves:**

A Series Valves must be ordered as complete part numbers (These are Class B coils).

1) Select pressure vessel part number from above (i.e. A3LB2252)
2) Choose coil/enclosure part number from table below for required voltage

Voltage	**24/60**	**120/60**	**240/60**	**12VDC**	**24VDC**
Coil Code	**AB2A44**	**AB6A46**	**AB8A48**	**DC1A22**	**DC2A23**
Coil Part Number*	**AB720S24**	**AB728S24**	**AB731S24**	**A7724F24**	**A7727F24**

*When ordering a replacement coil, use Coil Part Number (not Coil Code)

3) Complete P/N for 120/60 is A3LB2252AB6A46

3-Way Direct Acting - 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	
	In	Exh.	In	Exh.	Min.	Air, Inert Gas	Water	Light Oil					Coil	Valve
AC TECHNICAL SPECIFICATIONS														
1/8	3/64	1/16	0.060	0.095	0	250	250	250	10	185	NBR	71315SN1ENJ1	7	B5
1/8	3/64	1/16	0.060	0.095	0	250	250	250	10	185	NBR	71315SN1EN00	7	B5
1/8	3/64	3/64	0.060	0.060	0	200	200	200	6	180	NBR	02F30C3103AAF	1	B8
1/8	1/16	1/16	0.090	0.090	0	125	125	125	6	180	NBR	02F30C3104AAF	1	B8
1/8	1/16	1/16	0.110	0.095	0	200	200	200	10	185	NBR	71315SN1GNJ1	7	B5
1/8	1/16	1/16	0.110	0.095	0	200	200	200	10	185	NBR	71315SN1GN00	7	B5
1/8	3/32	3/32	0.170	0.170	0	125	125	125	10	185	NBR	71315SN1KNJ1	7	B5
1/8	3/32	3/32	0.170	0.170	0	125	125	125	10	185	NBR	71315SN1KN00	7	B5
1/8	1/8	3/32	0.230	0.170	0	90	90	90	10	185	NBR	71315SN1MNJ1	7	B5
1/8	1/8	3/32	0.230	0.170	0	90	90	90	10	185	NBR	71315SN1MN00	7	B5
1/8	3/16	3/32	0.380	0.170	0	25	25	25	10	185	NBR	71315SN1SNJ1	7	B5
1/8	3/16	3/32	0.380	0.170	0	25	25	25	10	185	NBR	71315SN1SN00	7	B5
*1/8	1/4	3/32	0.670	0.170	0	VAC	N/A	N/A	10	185	NBR	71315SN1VNJ1	7	B5
1/4	3/64	1/16	0.062	0.095	0	250	250	250	10	185	NBR	71315SN2ENJ1	7	B5
1/4	3/64	1/16	0.062	0.095	0	250	250	250	10	185	NBR	71315SN2EN00	7	B5
1/4	1/16	1/16	0.090	0.090	0	125	125	125	6	180	NBR	04F30C3104AAF	1	B14
1/4	1/16	1/16	0.110	0.095	0	200	200	200	10	185	NBR	71315SN2GNJ1	7	B5
1/4	1/16	1/16	0.110	0.095	0	200	200	200	10	185	NBR	71315SN2GN00	7	B5
1/4	1/16	1/16	0.110	0.095	0	200	200	200	10	185	NBR	7131TVN2GV00	7	B11
1/4	3/32	3/32	0.120	0.120	0	150	150	150	11	200	NBR	04F30C3106ACF	4	B15
1/4	3/32	3/32	0.170	0.170	0	125	125	125	10	185	NBR	71315SN2KNJ1	7	B5
1/4	3/32	3/32	0.170	0.170	0	125	125	125	10	185	NBR	71315SN2KN00	7	B5
1/4	5/64	5/64	0.180	0.180	0	150	150	150	10	185	FKM	7131TVN2JV00	7	B11
1/4	3/32	3/32	0.190	0.190	0	110	110	110	10	185	NBR	7131TVN2LV00	7	B11
1/4	1/8	3/32	0.230	0.170	0	90	90	90	10	185	NBR	71315SN2MNJ1	7	B5
1/4	1/8	1/8	0.230	0.170	0	90	90	90	10	185	NBR	71315SN2MN00	7	B5
1/4	1/8	1/8	0.250	0.250	0	85	85	85	11	200	NBR	04F30C3108ACF	4	B15
1/4	1/8	1/8	0.320	0.320	0	70	70	70	10	185	FKM	7131TVN2NV00	7	B11
1/4	3/16	3/32	0.380	0.170	0	25	25	25	10	185	NBR	71315SN2SNJ1	7	B5
1/4	3/16	3/32	0.380	0.170	0	25	25	25	10	185	NBR	71315SN2SN00	7	B5
*1/4	1/4	3/32	0.670	0.170	0	VAC	N/A	N/A	10	185	NBR	71315SN2VNJ1	7	B5

*Note: Vacuum source should be connected to outlet/cylinder port.

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3-Way Direct Acting - Normally Closed - Stainless Steel (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	
	In	Exh.	In	Exh.	Min.	Air, Inert Gas	Water	Light Oil					Coil	Valve
DC TECHNICAL SPECIFICATIONS														
1/8	3/64	3/64	0.060	0.060	0	200	200	200	9.5	120	NBR	02F30C3103A1F	3	B8
1/8	3/64	1/16	0.062	0.095	0	250	250	250	10	185	NBR	71315SN1ENJ1	7	B5
1/8	3/64	1/16	0.062	0.095	0	250	250	250	10	185	NBR	71315SN1EN00	7	B5
1/8	1/16	1/16	0.090	0.090	0	125	125	125	9.5	120	NBR	02F30C3104A1F	3	B8
1/8	1/16	1/16	0.110	0.095	0	200	200	200	10	185	NBR	71315SN1GNJ1	7	B5
1/8	1/16	1/16	0.110	0.095	0	200	200	200	10	185	NBR	71315SN1GN00	7	B5
1/8	3/32	3/32	0.170	0.170	0	125	125	125	10	185	NBR	71315SN1KNJ1	7	B5
1/8	3/32	3/32	0.170	0.170	0	125	125	125	10	185	NBR	71315SN1KN00	7	B5
1/8	1/8	3/32	0.230	0.170	0	90	90	90	10	185	NBR	71315SN1MNJ1	7	B5
1/8	1/8	3/32	0.230	0.170	0	90	90	90	10	185	NBR	71315SN1MN00	7	B5
1/8	3/16	3/32	0.380	0.170	0	25	25	25	10	185	NBR	71315SN1SNJ1	7	B5
1/8	3/16	3/32	0.380	0.170	0	25	25	25	10	185	NBR	71315SN1SN00	7	B5
*1/8	1/4	3/32	0.670	0.170	0	VAC	N/A	N/A	10	185	NBR	71315SN1VNJ1	7	B5
1/4	3/64	1/16	0.062	0.095	0	250	250	250	10	185	NBR	71315SN2ENJ1	7	B5
1/4	3/64	1/16	0.062	0.095	0	250	250	250	10	185	NBR	71315SN2EN00	7	B5
1/4	1/16	1/16	0.090	0.090	0	125	125	125	9.5	150	NBR	04F30C3104A1F	3	B14
1/4	1/16	1/16	0.110	0.095	0	200	200	200	10	185	NBR	71315SN2GNJ1	7	B5
1/4	1/16	1/16	0.110	0.095	0	200	200	200	10	185	NBR	71315SN2GN00	7	B5
1/4	1/16	1/16	0.110	0.095	0	200	200	200	10	185	NBR	7131TVN2GV00	7	B11
1/4	3/32	3/32	0.120	0.120	0	115	115	115	11.5	150	NBR	04F30C3106A3F	6	B15
1/4	3/32	3/32	0.170	0.170	0	125	125	125	10	185	NBR	71315SN2KNJ1	7	B5
1/4	3/32	3/32	0.170	0.170	0	125	125	125	10	185	NBR	71315SN2KN00	7	B5
1/4	3/32	3/32	0.190	0.190	0	110	110	110	10	185	NBR	7131TVN2LV00	7	B11
1/4	5/64	5/64	0.180	0.180	0	150	150	150	10	185	FKM	7131TVN2JV00	7	B11
1/4	1/8	3/32	0.230	0.170	0	90	90	90	10	185	NBR	71315SN2MNJ1	7	B5
1/4	1/8	1/8	0.230	0.170	0	90	90	90	10	185	NBR	71315SN2MN00	7	B5
1/4	1/8	1/8	0.250	0.250	0	60	60	60	11.5	150	NBR	04F30C3108A3F	6	B15
1/4	1/8	1/8	0.320	0.320	0	70	70	70	10	185	FKM	7131TVN2NV00	7	B11
1/4	3/16	3/32	0.380	0.170	0	25	25	25	10	185	NBR	71315SN2SNJ1	7	B5
1/4	3/16	3/32	0.380	0.170	0	25	25	25	10	185	NBR	71315SN2SN00	7	B5
*1/4	1/4	3/32	0.670	0.170	0	VAC	N/A	N/A	10	185	NBR	71315SN2VNJ1	7	B5

*Note: Vacuum source should be connected to outlet/cylinder port.

3-Way Direct Acting - 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	
	In	Exh.	In	Exh.	Min.	Air, Inert Gas	Water	Light Oil					Coil	Valve
AC TECHNICAL SPECIFICATIONS														
1/8	3/64	3/64	0.06	0.06	0	200	200	200	6	180	NBR	02F30O1103AAF	1	B8
1/8	1/16	1/16	0.09	0.09	0	125	125	125	6	180	NBR	02F30O1104AAF	1	B8
1/8	3/32	3/32	0.12	0.12	0	100	100	100	6	180	NBR	02F30O1106AAF	1	B8
1/4	1/16	1/16	0.09	0.09	0	235	250	250	16	200	NBR	04F30O2104ADF	5	B17
1/4	3/32	3/32	0.12	0.12	0	140	140	140	11	200	NBR	04F30O2106ACF	4	B17
1/4	1/8	1/8	0.25	0.25	0	70	70	70	11	200	NBR	04F30O2108ACF	4	B17
1/4	1/8	1/8	0.35	0.35	0	175	175	175	16	180	NBR	A5LB2177	*	B18
1/4	11/64	11/64	0.35	0.35	0	40	40	40	11	200	NBR	04F30O2111ACF	4	B17
1/4	5/32	5/32	0.45	0.45	0	125	125	125	16	180	NBR	A5LB2127	*	B18
1/4	5/32	1/8	0.31	0.41	0	150	150	150	22	185	FKM	7132TBN2NV00	8	B4
DC TECHNICAL SPECIFICATIONS														
1/8	3/64	3/64	0.06	0.06	0	200	200	200	9.5	120	NBR	02F30O1103A1F	1	B8
1/8	1/16	1/16	0.09	0.09	0	200	200	200	9.5	120	NBR	02F30O1104A1F	1	B8
1/8	3/32	3/32	0.12	0.12	0	100	100	100	9.5	120	NBR	02F30O1106A1F	1	B8
1/4	1/16	1/16	0.09	0.09	0	160	160	160	11.5	150	NBR	04F30O2104A3F	6	B17
1/4	3/32	3/32	0.12	0.12	0	100	100	100	11.5	150	NBR	04F30O2106A3F	6	B17
1/4	1/8	1/8	0.25	0.25	0	55	55	55	11.5	150	NBR	04F30O2108A3F	6	B17
1/4	1/8	1/8	0.35	0.35	0	175	175	175	14	180	NBR	A56LB2176	*	B18
1/4	11/64	11/64	0.35	0.35	0	30	30	30	11.5	150	NBR	04F30O2111A3F	6	B17
1/4	5/32	5/32	0.45	0.45	0	125	125	125	14	180	NBR	A56LB2126	*	B18

***Ordering A Series Valves:**

A Series Valves must be ordered as complete part numbers (These are Class B coils).

1) Select pressure vessel part number from above (i.e. A3LB2252)
2) Choose coil/enclosure part number from table below for required voltage

Voltage	**24/60**	**120/60**	**240/60**	**12VDC**	**24VDC**
Coil Code	**AB2A44**	**AB6A46**	**AB8A48**	**DC1A22**	**DC2A23**
Coil Part Number*	**AB720S24**	**AB728S24**	**AB731S24**	**A7724F24**	**A7727F24**

*When ordering a replacement coil, use Coil Part Number (not Coil Code)

3) Complete P/N for 120/60 is A3LB2252AB6A46

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3-Way Direct Acting - 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	
	In	Exh.	In	Exh.	Min.	Air, Inert Gas	Water	Light Oil					Coil	Valve
AC TECHNICAL SPECIFICATIONS														
1/8	3/64	1/16	0.052	0.10	0	250	250	250	10	185	NBR	71395SN1ENJ1	7	B6
1/8	1/16	1/8	0.100	0.28	0	150	150	150	10	185	NBR	71395SN1GNJ1	7	B6
1/8	3/32	1/8	0.280	0.28	0	125	125	125	10	185	NBR	71395SN1KNJ1	7	B6
1/4	3/64	1/16	0.052	0.10	0	250	250	250	10	185	NBR	71395SN2ENJ1	7	B6
1/4	1/16	1/8	0.100	0.28	0	150	150	150	10	185	NBR	71395SN2GNJ1	7	B6
1/4	3/32	3/32	0.120	0.12	0	150	140	140	11	200	NBR	04F30O3106ACF	4	B15
1/4	3/32	1/8	0.170	0.28	0	125	125	125	10	185	NBR	71395SN2KNJ1	7	B6
1/4	1/8	1/8	0.250	0.25	0	70	70	70	11	200	NBR	04F30O3108ACF	4	B15
DC TECHNICAL SPECIFICATIONS														
1/8	3/64	1/16	0.052	0.10	0	250	250	250	10	185	NBR	71395SN1ENJ1	7	B6
1/8	1/16	1/8	0.100	0.28	0	150	150	150	10	185	NBR	71395SN1GNJ1	7	B6
1/8	3/32	1/8	0.280	0.28	0	125	125	125	10	185	NBR	71395SN1KNJ1	7	B6
1/4	3/64	1/16	0.052	0.10	0	250	250	250	10	185	NBR	71395SN2ENJ1	7	B6
1/4	1/16	1/8	0.100	0.28	0	150	150	150	10	185	NBR	71395SN2GNJ1	7	B6
1/4	3/32	3/32	0.120	0.12	0	100	100	100	11.5	150	NBR	04F30O3106A3F	6	B15
1/4	3/32	1/8	0.170	0.28	0	125	125	125	10	185	NBR	71395SN2KNJ1	7	B6
1/4	1/8	1/8	0.250	0.25	0	55	55	55	11.5	150	NBR	04F30O3108A3F	6	B15

3-Way Direct Acting - 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	
	N.C.	N.O.	N.C.	N.O.	Min.	Air, Inert Gas	Water	Light Oil					Coil	Valve
AC TECHNICAL SPECIFICATIONS														
1/8	3/64	3/64	0.06	0.06	0	175	175	175	10.2	180	NBR	02F30U1103ABF	2	B8
1/8	1/16	1/16	0.09	0.09	0	100	100	100	10.2	180	NBR	02F30U1104ABF	2	B8
1/8	1/16	1/16	0.11	0.11	0	150	150	150	10	185	FKM	7133KBN1GVJ1	7	B9
1/8	3/32	3/32	0.12	0.12	0	50	50	50	6	180	NBR	02F30U1106AAF	1	B8
1/8	5/64	5/64	0.15	.015	0	100	100	100	10	185	FKM	7133KBN1JVJ1	7	B9
1/8	1/8	1/8	0.21	0.21	0	30	30	30	10.2	180	NBR	02F30U1108ABF	2	B8
1/4	1/32	1/32	0.02	0.02	0	435	435	435	10	185	FKM	7133KBN2BVJ1	7	B9
1/4	1/16	1/16	0.09	0.09	0	125	130	130	11	200	NBR	04F30U2104ACF	4	B17
1/4	1/16	1/16	0.10	0.10	0	150	150	150	10	185	FKM	7133KBN2GVJ1	7	B9
1/4	3/32	3/32	0.12	0.12	0	100	100	100	16	200	NBR	04F30U2106ADF	5	B17
1/4	5/64	5/64	0.15	0.15	0	100	100	100	10	185	FKM	7133KBN2JVJ1	7	B9
1/4	5/64	5/64	0.17	0.17	0	100	100	100	10	185	FKM	7133TBN2JV00	7	B10
1/4	1/8	1/8	0.25	0.25	0	50	50	50	16	200	NBR	04F30U2108ADF	5	B17
1/4	1/8	1/8	0.31	0.31	0	30	30	30	10	185	FKM	7133TBN2NV00	7	B10
1/4	11/64	11/64	0.35	0.35	0	20	20	20	11	200	NBR	04F30U2111ACF	4	B17
1/4	5/32	5/32	0.45	0.45	0	75	75	75	16	180	NBR	A4LB2077	*	B18
DC TECHNICAL SPECIFICATIONS														
1/8	3/64	3/64	0.06	0.06	0	125	130	130	9.5	120	NBR	02F30U1103A1F	3	B8
1/8	1/16	1/16	0.09	0.09	0	65	65	65	9.5	120	NBR	02F30U1104A1F	3	B8
1/8	1/16	1/16	0.11	0.11	0	150	150	150	10	185	FKM	7133KBN1GVJ1	7	B9
1/8	3/32	3/32	0.12	0.12	0	50	50	50	9.5	120	NBR	02F30U1106A1F	3	B8
1/8	5/64	5/64	0.15	.015	0	100	100	100	10	185	FKM	7133KBN1JVJ1	7	B9
1/8	1/8	1/8	0.21	0.21	0	20	20	20	9.5	120	NBR	02F30U1108A1F	3	B8
1/4	1/32	1/32	0.02	0.02	0	435	435	435	10	185	FKM	7133KBN2BVJ1	7	B9
1/4	1/16	1/16	0.09	0.09	0	75	75	75	11.5	150	NBR	04F30U2104A3F	6	B17
1/4	1/16	1/16	0.10	0.10	0	150	150	150	10	185	FKM	7133KBN2GVJ1	7	B9
1/4	3/32	3/32	0.12	0.12	0	60	60	60	11.5	150	NBR	04F30U2106A3F	6	B17
1/4	5/64	5/64	0.15	0.15	0	100	100	100	10	185	FKM	7133KBN2JVJ1	7	B9
1/4	5/64	5/64	0.17	0.17	0	100	100	100	10	185	FKM	7133TBN2JV00	7	B10
1/4	1/8	1/8	0.25	0.25	0	25	25	25	11.5	150	NBR	04F30U2108A3F	6	B17
1/4	1/8	1/8	0.31	0.31	0	30	30	30	10	185	FKM	7133TBN2NV00	7	B10
1/4	11/64	11/64	0.35	0.35	0	12	12	12	11.5	150	NBR	04F30U2111A3F	6	B17
1/4	5/32	5/32	0.45	0.45	0	75	75	75	14	180	NBR	A46LB2076	*	B18

***Refer to "Ordering A Series Valves" on bottom of page B10.**

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3-Way Direct Acting - Universal - Stainless Steel

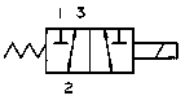
Port Size NPT	Orifice Size In.		Flow Factor Cv		Operating Pressure Differential (MOPD) PSI				Watt	Max. Media Temp. °F	Seal	Pressure Vessel Number	Reference	
	N.C.	N.O.	N.C.	N.O.	Min.	Air, Inert Gas	Water	Light Oil					Coil	Valve
AC TECHNICAL SPECIFICATIONS														
1/8	3/64	3/64	0.052	0.052	0	180	180	180	10	185	NBR	71335SN1ENJ1	7	B3
1/8	1/16	1/16	0.090	0.090	0	100	100	100	10.2	180	NBR	02F30U3104ABF	2	B8
1/8	1/16	1/16	0.095	0.095	0	115	115	115	10	185	NBR	71335SN1GNJ1	7	B3
1/8	3/32	3/32	0.170	0.170	0	80	80	80	10	185	NBR	71335SN1KNJ1	7	B3
1/8	1/8	1/8	0.210	0.210	0	30	30	30	10.2	180	NBR	02F30U3108ABF	2	B8
1/4	1/32	1/32	0.024	0.024	0	400	400	400	10	185	NBR	71335SN2ANJ1	7	B3
1/4	3/64	3/64	0.052	0.052	0	180	180	180	10	185	NBR	71335SN2ENJ1	7	B3
1/4	1/16	1/16	0.090	0.090	0	100	100	100	10.2	180	NBR	04F30U3104ABF	2	B14
1/4	1/16	1/16	0.095	0.095	0	115	115	115	10	185	NBR	71335SN2GNJ1	7	B3
1/4	1/16	1/16	0.095	0.095	0	150	150	150	10	185	FKM	7133TVN2GV00	7	B2
1/4	3/32	3/32	0.120	0.120	0	100	100	100	16	200	NBR	04F30U3106ADF	5	B15
1/4	3/32	3/32	0.170	0.170	0	80	80	80	10	185	NBR	71335SN2KNJ1	7	B3
1/4	5/64	5/64	0.180	0.180	0	100	100	100	10	185	FKM	7133TVN2JV00	7	B2
1/4	1/8	1/8	0.250	0.250	0	50	50	50	16	200	NBR	04F30U3108ADF	5	B15
1/4	1/8	1/8	0.320	0.320	0	30	30	30	10	185	FKM	7133TVN2NV00	7	B2
DC TECHNICAL SPECIFICATIONS														
1/8	3/64	3/64	0.052	0.052	0	180	180	180	10	185	NBR	71335SN1ENJ1	7	B3
1/8	1/16	1/16	0.090	0.090	0	65	65	65	9.5	120	NBR	02F30U3104A1F	3	B8
1/8	1/16	1/16	0.095	0.095	0	115	115	115	10	185	NBR	71335SN1GNJ1	7	B3
1/8	3/32	3/32	0.170	0.170	0	80	80	80	10	185	NBR	71335SN1KNJ1	7	B3
1/8	1/8	1/8	0.210	0.210	0	25	25	25	9.5	120	NBR	02F30U3108A1F	3	B8
1/4	1/32	1/32	0.024	0.024	0	400	400	400	10	185	NBR	71335SN2ANJ1	7	B3
1/4	3/64	3/64	0.052	0.052	0	180	180	180	10	185	NBR	71335SN2ENJ1	7	B3
1/4	1/16	1/16	0.090	0.090	0	65	65	65	9.5	120	NBR	04F30U3104A1F	3	B14
1/4	1/16	1/16	0.095	0.095	0	150	150	150	10	185	FKM	7133TVN2GV00	7	B2
1/4	1/16	1/16	0.095	0.095	0	115	115	115	10	185	NBR	71335SN2GNJ1	7	B3
1/4	3/32	3/32	0.120	0.120	0	60	60	60	11.5	150	NBR	04F30U3106A3F	6	B15
1/4	3/32	3/32	0.170	0.170	0	80	80	80	10	185	NBR	71335SN2KNJ1	7	B3
1/4	5/64	5/64	0.180	0.180	0	100	100	100	10	185	FKM	7133TVN2JV00	7	B2
1/4	1/8	1/8	0.250	0.250	0	25	25	25	11.5	150	NBR	04F30U3108A3F	6	B15
1/4	1/8	1/8	0.320	0.320	0	30	30	30	10	185	FKM	7133TVN2NV00	7	B2

3-Way Direct Acting - Diverting - Stainless Steel

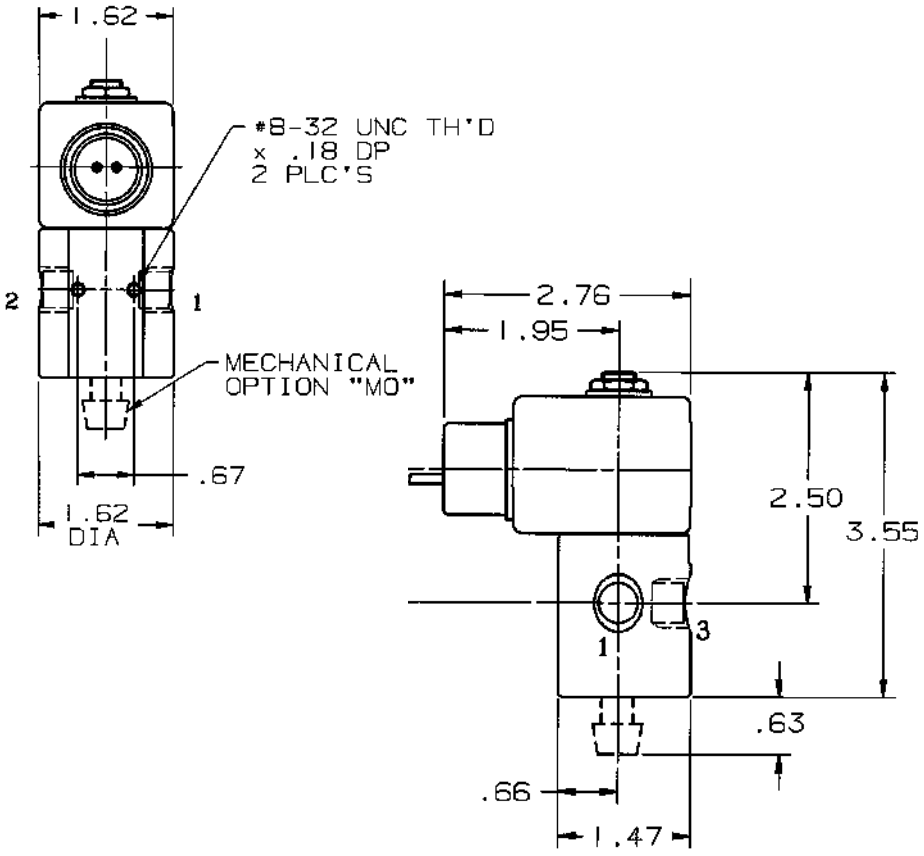
Port Size NPT	Orifice Size In. N.C.	Orifice Size In. N.O.	Flow Factor Cv N.C.	Flow Factor Cv N.O.	Operating Pressure Differential (MOPD) PSI Min.	Air, Inert Gas	Water	Light Oil	Watt	Max. Media Temp. °F	Seal	Pressure Vessel Number	Reference Coil	Reference Valve
AC TECHNICAL SPECIFICATIONS														
1/8	1/8	3/32	0.230	0.170	0	125	125	125	10	185	NBR	71385SN1MNJ1	7	B7
1/4	1/16	1/16	0.095	0.095	0	235	235	235	10	185	NBR	71385SN2GNJ1	7	B7
1/4	1/8	3/32	0.230	0.170	0	125	125	125	10	185	NBR	71385SN2MNJ1	7	B7
DC TECHNICAL SPECIFICATIONS														
1/8	1/8	3/32	0.230	0.170	0	125	125	125	10	185	NBR	71385SN1MNJ1	7	B7
1/4	1/16	1/16	0.095	0.095	0	235	235	235	10	185	NBR	71385SN2GNJ1	7	B7
1/4	1/8	3/32	0.230	0.170	0	125	125	125	10	185	NBR	71385SN2MNJ1	7	B7

Valve Reference B2





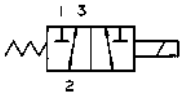
3-Way Universal
Port Identification
1-NC / 2-COMMON / 3-NO



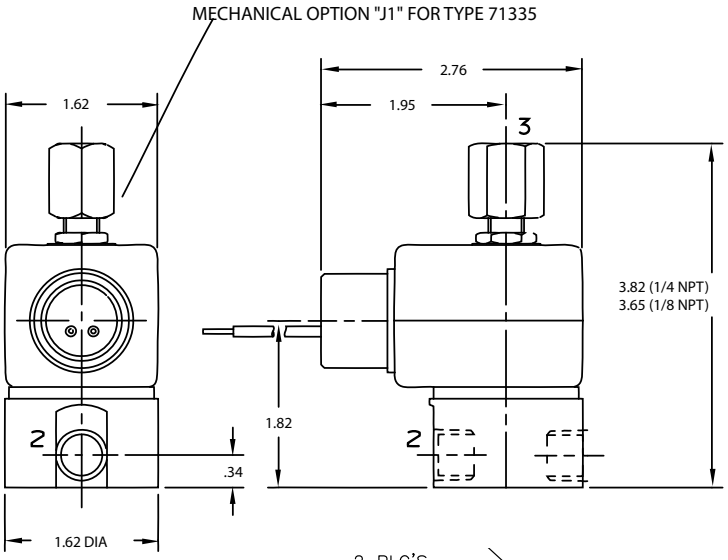
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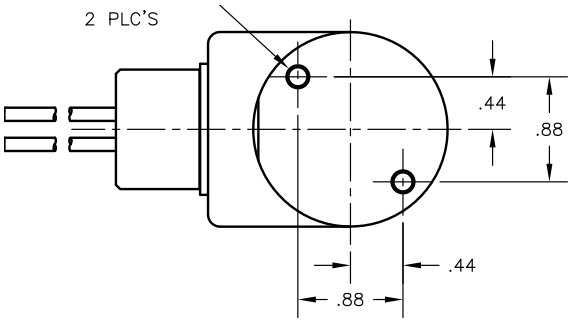
Valve Reference B3





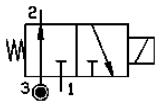
3-Way Universal
Port Identifiation
1-NC / 2-COMMON / 3-NO



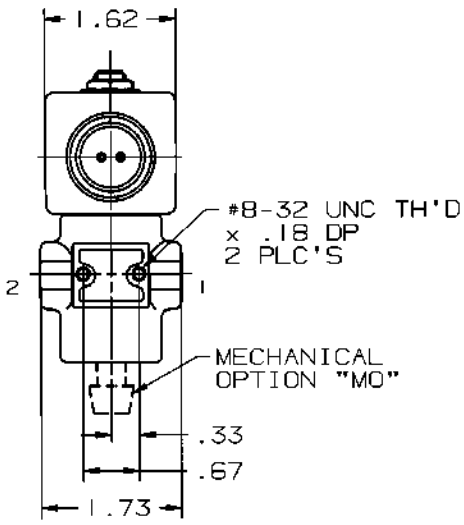


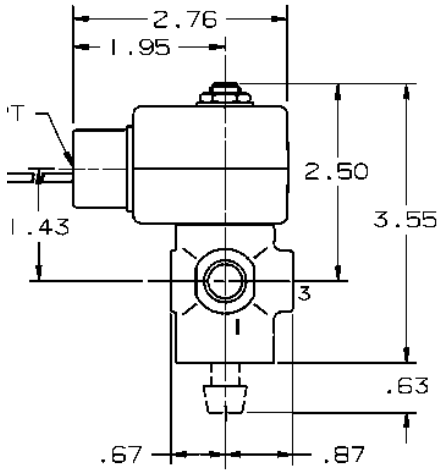
Valve Reference B4

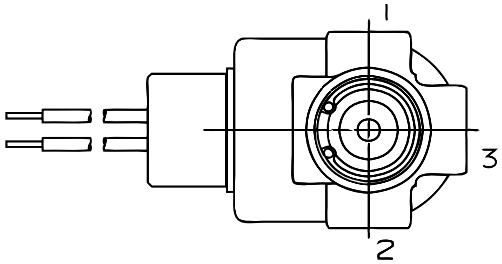




3-Way Normally Open
Port Identificaiton
1-Exhaust/ 2-Cylinder/ 3-Pressure

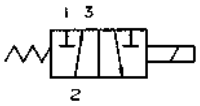




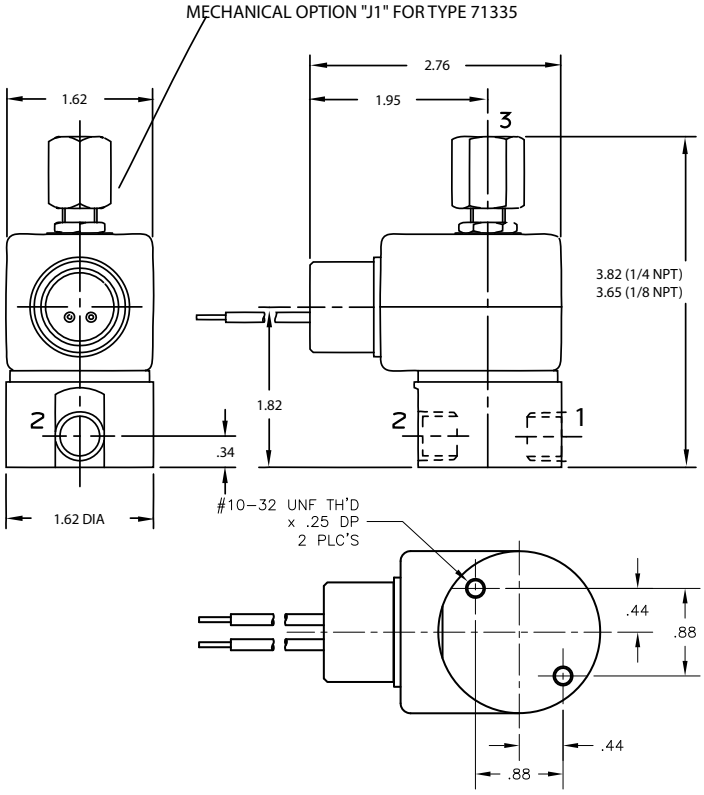


Valve Reference B5



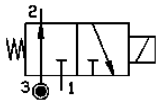


3-Way Normally Closed
Port Identification
1-Pressure / 2-Cylinder / 3-Exhaust

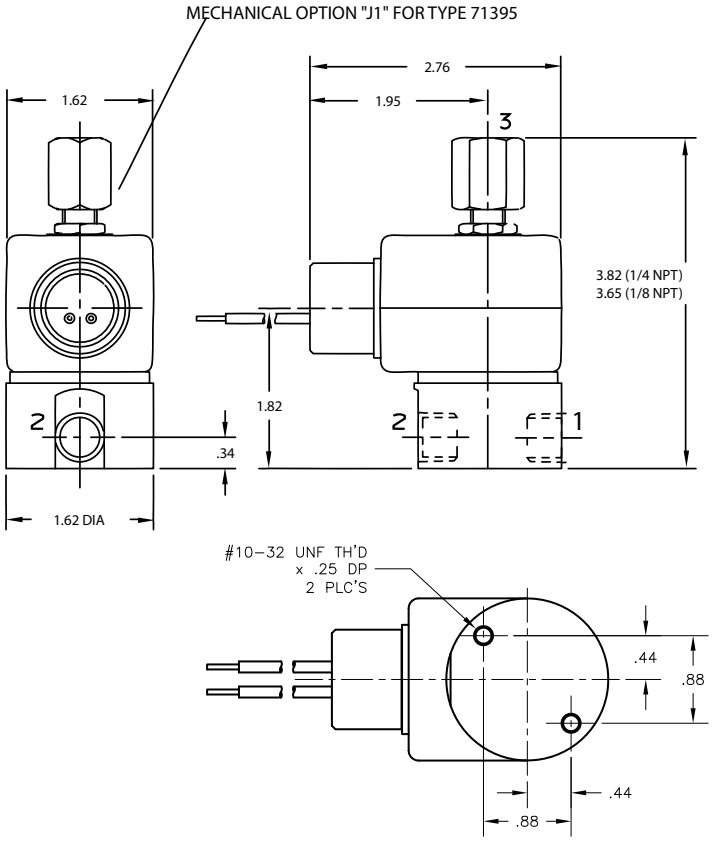


Valve Reference B6





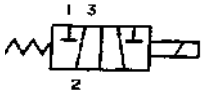
3-Way Normally Open
Port Identification
1-Exhaust / 2-Cylinder / 3-Pressure



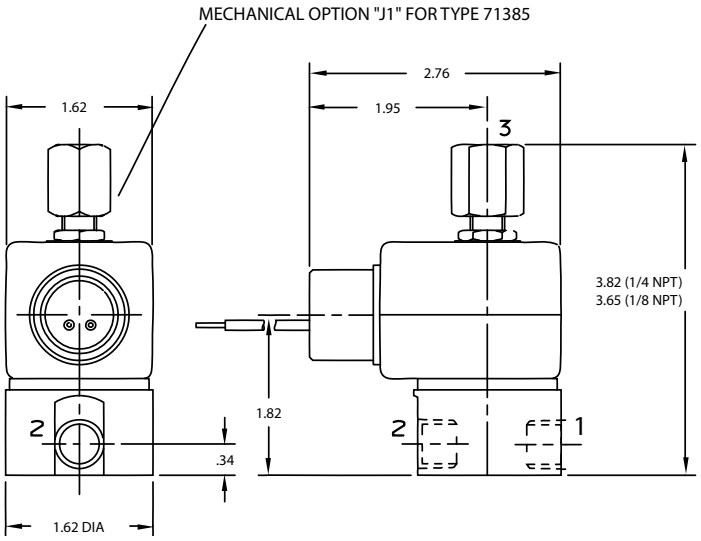
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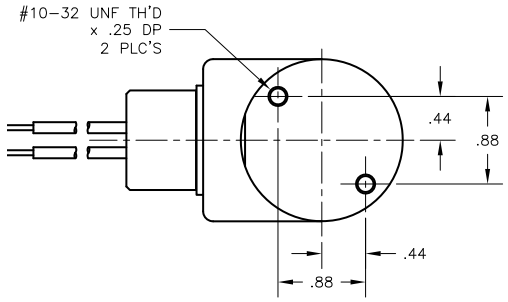
Valve Reference B7





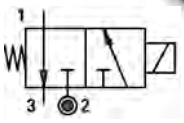
3-Way Normally Diverting
Port identification:
1-NC/ 2-IN/ 3-NO



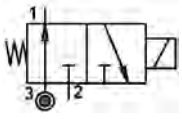


Valve Reference B8

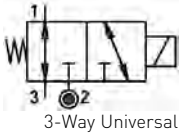




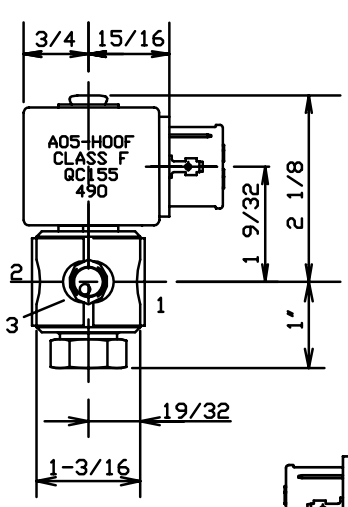
3-Way Normally Closed
02F30Cxx
Port Identification:
Press - 2 /CYL-11 / EXH-3

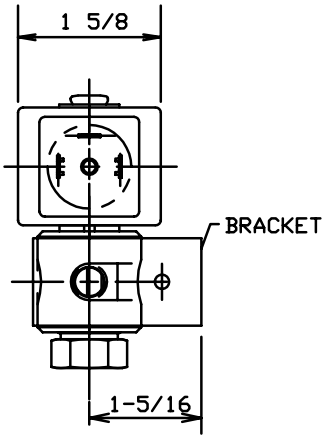


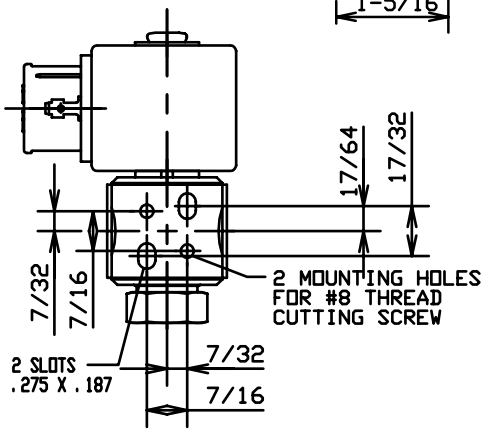
3-Way Normally Open
02F30Oxx
Port Identification:
Press - 3 / CYL -1 / EXH - 2



3-Way Universal
02F30Uxx
Port Identification:
Pressure can be applied at either port

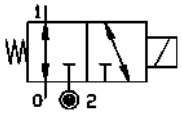




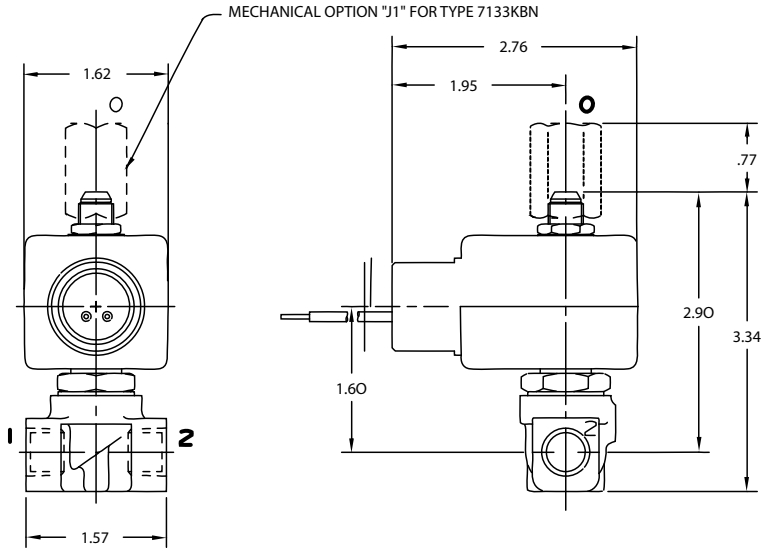


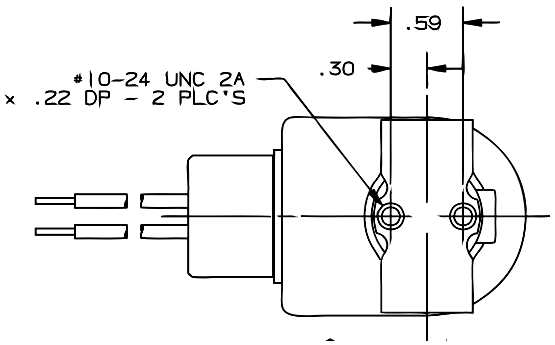
Valve Reference B9





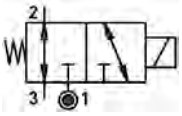
3-Way Universal
Port Identification
Pressure can be applied at either port



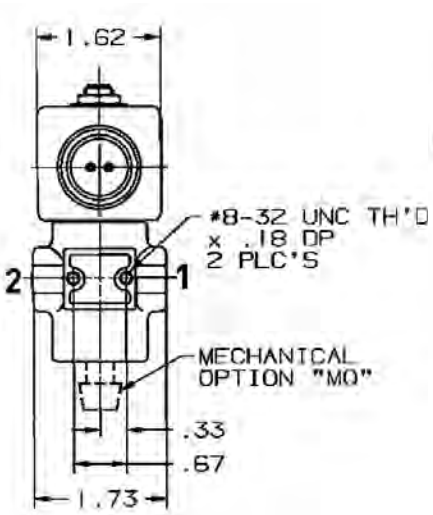


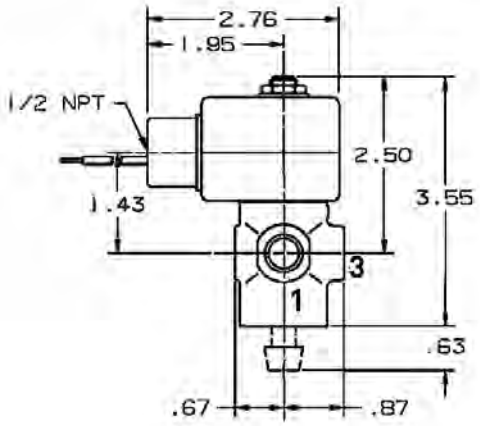
Valve Reference B10

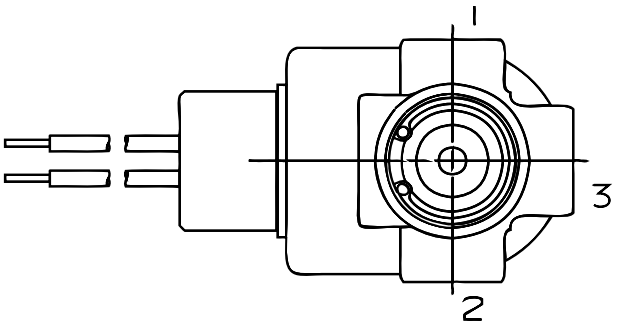




3-Way Universal
Port Identification
Pressure can be applied at either port



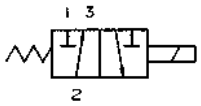




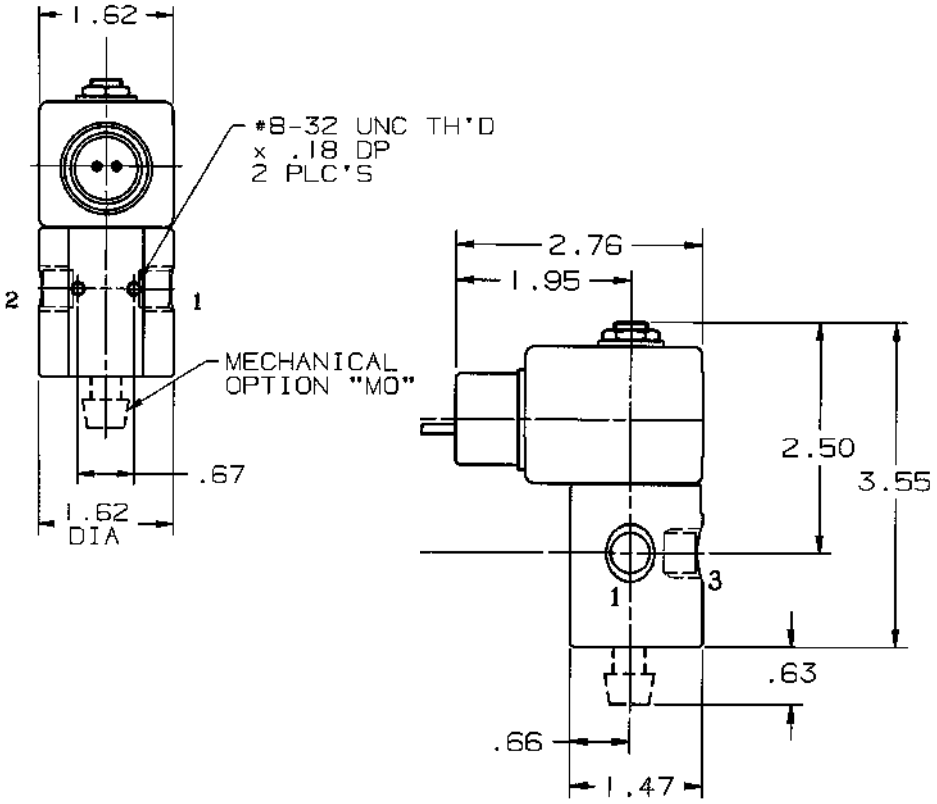
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Valve Reference B11



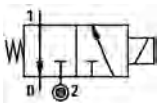


3-Way Normally Closed
Port Identification
1-Pressure / 2-Cylinder/ 3-Exhaust

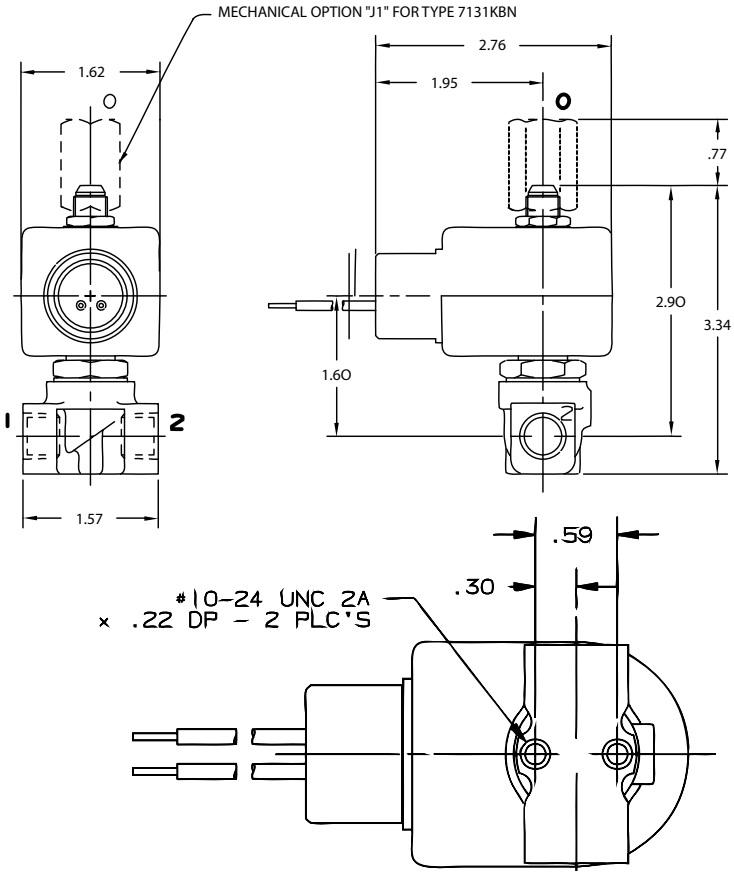


Valve Reference B12



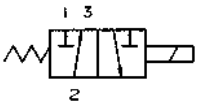


3-Way Normally Closed
Port Identification
1-Cylinder/ 2-Pressure/ 0-Exhaust

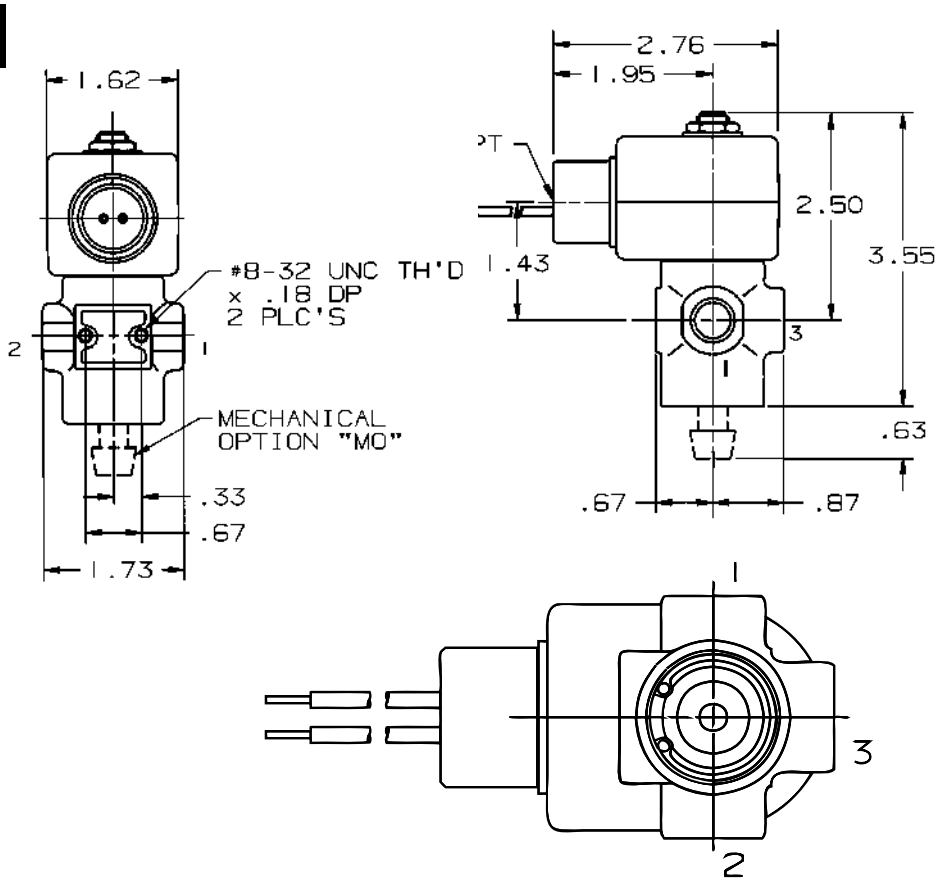


Valve Reference B13



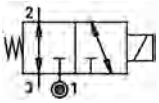


3-Way Normally Closed
Port Identification
1-Pressure/ 2-Cylinder/ 3-Exhaust

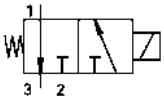


Valve Reference B14

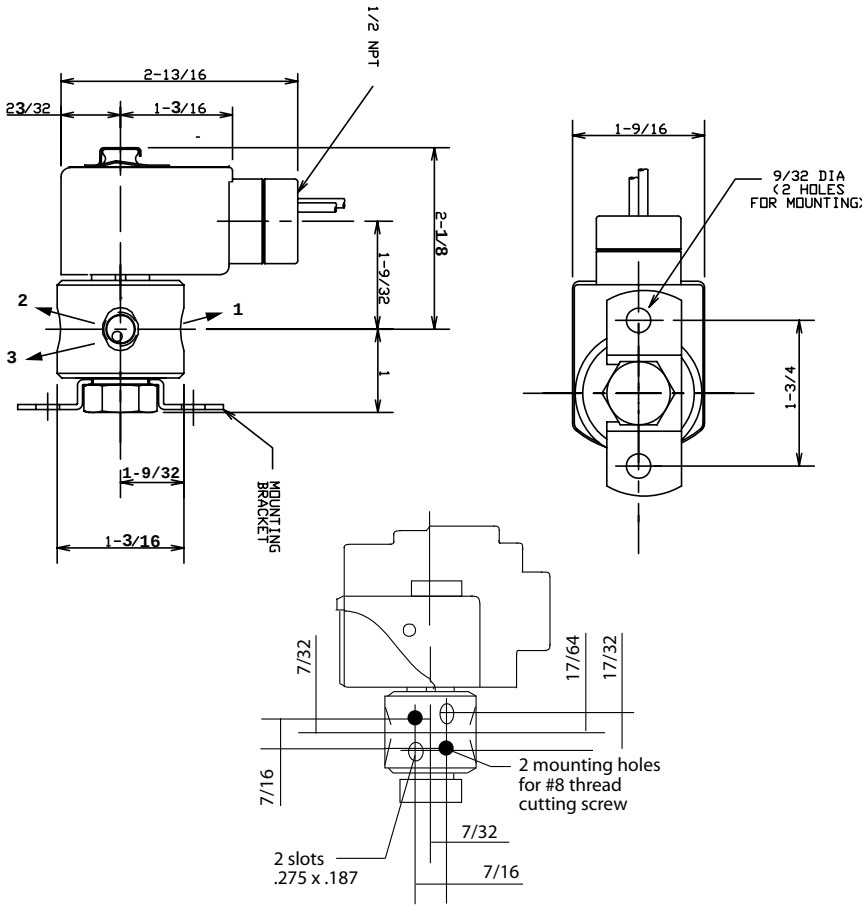




3-Way Universal
Port Identification
Pressure can be applied to either port.



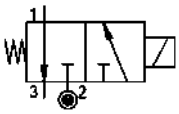
3-Way Normally Closed
Port Identification
Press - 2 | CYL-1 | EXH-3



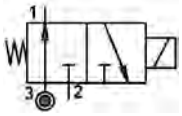
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Valve Reference B15

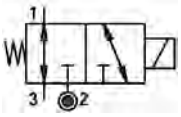




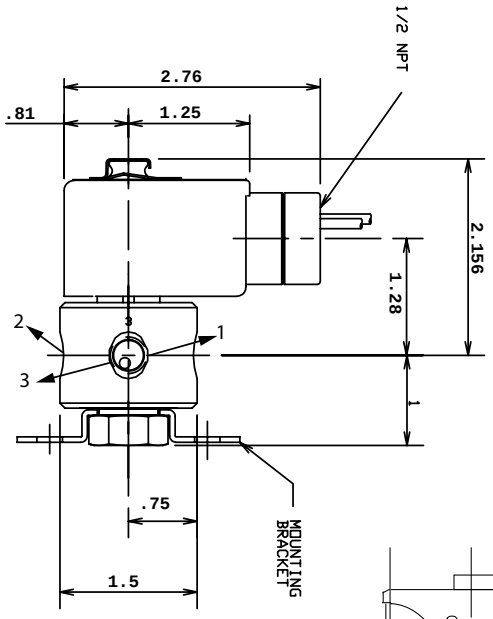
3-Way Normally Closed
04F30Cxx
Port Identification:
Press - 2 /CYL-1/EXH-3

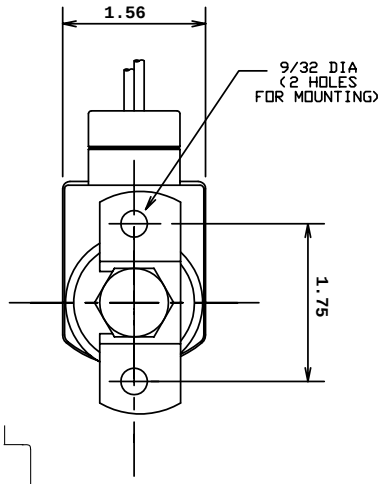


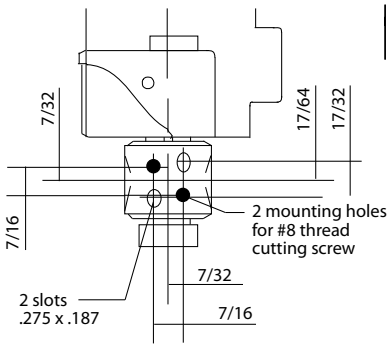
3-Way Normally Open
04F30Oxx
Port Identification:
Press - 3/CYL -1/EXH - 2



3-Way Universal
04F30Uxx
Port Identification:
Pressure can be applied at either port

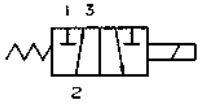




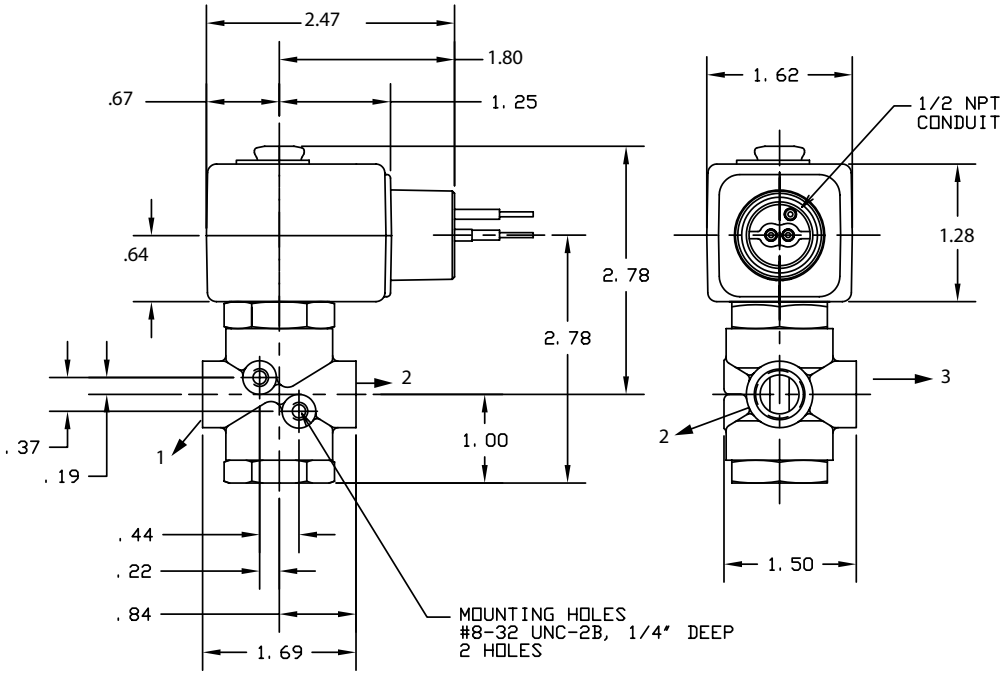


Valve Reference B16



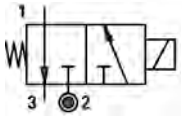


3-Way Normally Closed
Port Identification
1-Pressure/ 2-Cylinder/ 3-Exhaust

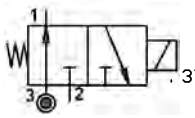


Valve Reference B17

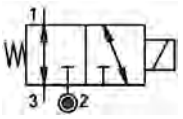




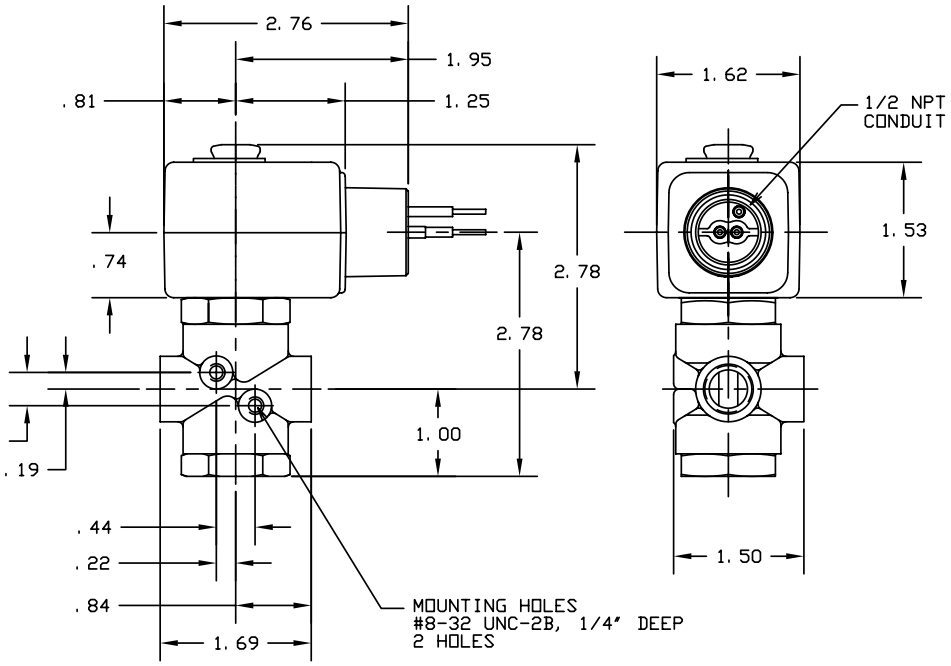
3-Way Normally Closed
04F30Cxx
Port Identification:
Press - 2 /CYL-1 / EXH-3



3-Way Normally Open
04F30Oxx
Port Identification:
Press - 3/CYL -1 /EXH - 2



3-Way Universal
04F30Uxx
Port Identification:
Pressure can be applied at either port

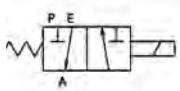


Valve Reference B18

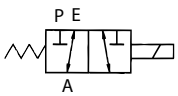




3-Way Normally Closed
A3



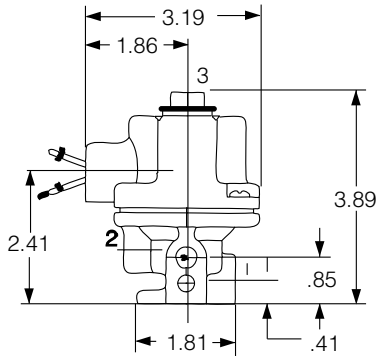
3-Way Normally Open
A5

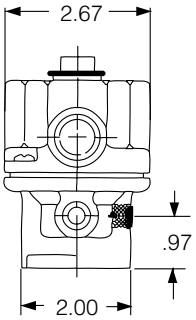


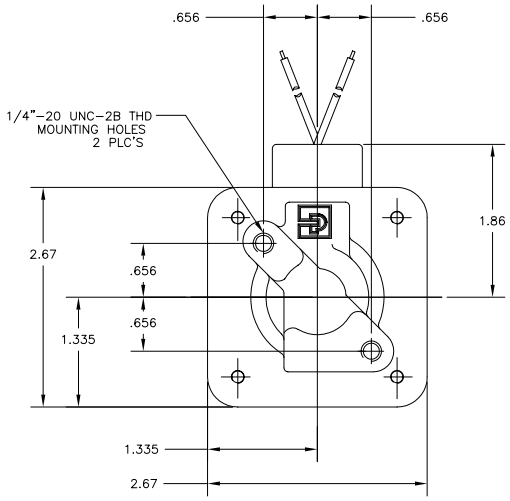
3-Way Universal
A4

Port Identification:

	A3 (NC)	A4 UNIV.	A5 (NO)
P	IN	NC	Exhaust
A	Cylinder	Common	Cylinder
E	Exhaust	NO	IN







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3-Way Direct Acting Materials of Construction**

Product*	Watt	Type	Port Size	Body	Sleeve Tube	Sleeve Stop	Sleeve Flange	"Plunger Blank"	Plunger Spring	Shading Ring	Max. Ambient Temp.
02F30C1	9.5	3WNC	1/8	Brass	305SS	430FR	416/ 430FR	430FR	17-7PH	Copper	77°F
02F30C3	9.5	3WNC	1/8	303SS	305SS	430FR	416/ 430FR	430FR	17-7PH	Silver	77°F
02F30C3	6	3WNC	1/8	303SS	305SS	430FR	12L14 Plated	430FR	17-7PH	Silver	130°F
02F30O1	9.5	3WNO	1/8	Brass	305SS	430FR	416/ 430FR	430FR	17-7PH	Copper	77°F
02F30O1	6	3WNO	1/8	Brass	305SS	430FR	12L14 Plated	430FR	17-7PH	Copper	130°F
02F30O3	9.5	3WNO	1/8	303SS	305SS	430FR	416/ 430FR	430FR	17-7PH	Silver	77°F
02F30O3	6	3WNO	1/8	303SS	305SS	430FR	12L14 Plated	430FR	17-7PH	Silver	130°F
02F30U1	9.5	3WU	1/8	Brass	305SS	430FR	416/ 430FR	430FR	17-7PH	Copper	77°F
02F30U3	6	3WU	1/8	303SS	305SS	430FR	12L14 Plated	430FR	17-7PH	Silver	130°F
02F30U3	10.2	3WU	1/8	303SS	305SS	430FR	416/ 430FR	430FR	17-7PH	Silver	77°F
04F30C3	11.5	3WNC	1/4	303SS	305SS	430FR	416/ 430FR	430FR	17-7PH	Silver	77°F
04F30C3	10.2	3WNC	1/4	303SS	305SS	430FR	416/ 430FR	430FR	17-7PH	Silver	77°F
04F30C3	11	3WNC	1/4	303SS	305SS	430FR	416/ 430FR	430FR	17-7PH	Silver	130°F
04F30O2	11.5	3WNO	1/4	Brass	305SS	430FR	416/ 430FR	430FR	17-7PH	Copper	77°F
04F30O2	11	3WNO	1/4	Brass	305SS	430FR	416/ 430FR	430FR	17-7PH	Copper	130°F
04F30O2	16	3WNO	1/4	Brass	305SS	430FR	416/ 430FR	430FR	17-7PH	Copper	77°F
04F30O3	11.5	3WNO	1/4	303SS	305SS	430FR	416/ 430FR	430FR	17-7PH	Silver	77°F
04F30O3	11	3WNO	1/4	303SS	305SS	430FR	416/ 430FR	430FR	17-7PH	Silver	130°F
04F30U2	11.5	3WU	1/4	Brass	305SS	430FR	416/ 430FR	430FR	17-7PH	Copper	77°F
04F30U3	16	3WU	1/4	303SS	305SS	430FR	416/ 430FR	430FR	17-7PH	Silver	77°F
71315SN	10	3WNC	1/8 - 1/4	430F	304SS	430FR	430F	430FR	18-8SS	Copper	150°F

* Shows first 7 digits of pressure vessel.

** 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.

3-Way Direct Acting 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.
7131KBN	10	3WNC	1/8 - 1/4	Brass	304SS	430FR	430F	430FR/ 4106	301SS	Copper	150°F
7131TBN	10	3WNC	1/4	Brass	304SS	430FR	430F	430FR/ 4106	301SS	Copper	150°F
7131TVN	10	3WNC	1/4	303	304SS	430FR	430F	430FR/ 4106	18-8SS	Copper	150°F
7133KBN	10	3WU	1/8 - 1/4	Brass	304SS	430FR	430F	430FR/ 4106	301SS	Copper	150°F
7133TBN	10	3WU	1/4	Brass	304SS	430FR	430F	430FR/ 4106	301SS	Copper	150°F
7133TVN	10	3WU	1/4	303	304SS	430FR	430F	430FR/ 4106	18-8SS	Copper	150°F
71335SN	10	3WU	1/8 - 1/4	430F	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
71385SN	10	3WD	1/8 - 1/4	430F	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
71395SN	10	3WNO	1/8 - 1/4	430F	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
A3	16	3WNC	1/4	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	122°F
A36	14	3WNC	1/4	Brass	304SS	430FR	430F	430FR	18-8SS	None	122°F
A4	16	3WU	1/4	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	122°F
A46	14	3WU	1/4	Brass	304SS	430FR	430F	430FR	18-8SS	None	122°F
A5	16	3WNO	1/4	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	122°F
A56	14	3WNO	1/4	Brass	304SS	430FR	430F	430FR	18-8SS	None	122°F

* Shows first 7, 2 or 3 digits of pressure vessel.

** 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.

Notes

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3-Way

Pilot & Remote Operated Valves
1/4" - 3/4" NPT



General Description:

3-Way Pilot Operated valves are used in general industrial applications and control valve pilot actuation where higher pressures and flows are required. Pilot operated valves require the minimum operating pressure differential specified to ensure proper operation.

Installation
Valves can be mounted in any position. The preferred orientation is with the coil vertical and upright.

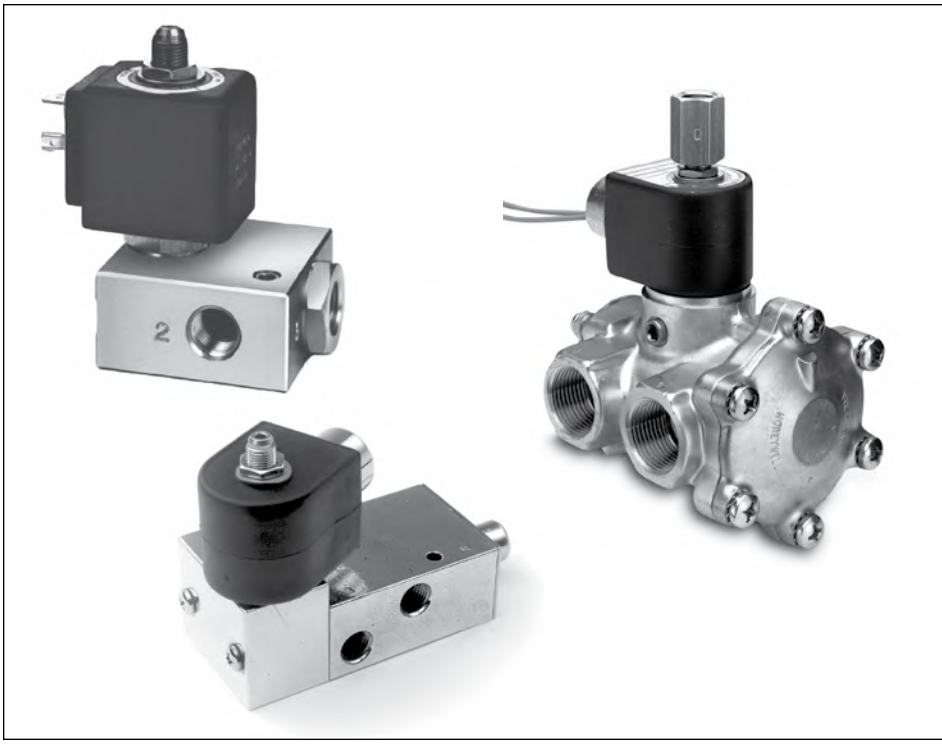
Standard Materials of Construction
Please refer to page B40.

Compatible Fluids
Lubricated Air, Inert Gases, Water, Light Oil (300 SSU) and additional fluids compatible with materials of construction, as listed in the product specifications charts.

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.

SIL-3 Capable (Models 73317xx, 74317xx). See Certificate in Technical Section Page F20 For additional details, consult factory.

Maximum Ambient Temperature
167° F

Mininum Ambient Temperature
-40°F for Models 73317xx and 74317xx. Dew Point must be more than 7°F below ambient.

Applications:

- Pilot valve actuation of larger control valves
- Oil and gas including off-shore installations
- Single acting spring return cylinder control
- Compressor unloaders
- Turbines

External Piloted 74332xxx
- Controlling Contaminated Fluids
- Controlling Pressures under 10 PSI
- Operating valves on vacuum

Please refer to page B40 for details

ENGINEERING YOUR SUCCESS.

3-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												
3/8	3/8	2.10	10	180	180	180	10	185	NBR	73312BN3RNJ0	7	B19
3/8	3/8	2.10	10	180	180	180	10	185	NBR	73312BN3RNJ1	7	B24
1/2	1/2	3.60	10	180	180	180	10	185	NBR	73312BN4UNJ0	7	B19
1/2	1/2	3.60	10	180	180	180	10	185	NBR	73312BN4UNJ1	7	B24
3/4	3/4	7.30	10	180	180	180	10	185	NBR	73312BN52NJ0	7	B25
3/4	3/4	7.30	10	180	180	180	10	185	NBR	73312BN52NJ1	7	B26
DC TECHNICAL SPECIFICATIONS												
3/8	3/8	2.10	10	180	180	180	10	185	NBR	73312BN3RNJ0	7	B19
3/8	3/8	2.10	10	180	180	180	10	185	NBR	73312BN3RNJ1	7	B24
1/2	1/2	3.60	10	180	180	180	10	185	NBR	73312BN4UNJ0	7	B19
1/2	1/2	3.60	10	180	180	180	10	185	NBR	73312BN4UNJ1	7	B24
3/4	3/4	7.30	10	180	180	180	10	185	NBR	73312BN52NJ0	7	B25
3/4	3/4	7.30	10	180	180	180	10	185	NBR	73312BN52NJ1	7	B26

3-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												
3/8	3/8	2.10	10	180	180	180	10	185	NBR	73322BN3RNJ0	7	B27
3/8	3/8	2.10	10	180	180	180	10	185	NBR	73322BN3RNJ1	7	B28
1/2	1/2	3.60	10	180	180	180	10	185	NBR	73322BN4UNJ0	7	B27
1/2	1/2	3.60	10	180	180	180	10	185	NBR	73322BN4UNJ1	7	B28
3/4	3/4	7.30	10	180	180	180	10	185	NBR	73322BN52NJ0	7	B29
3/4	3/4	7.30	10	180	180	180	10	185	NBR	73322BN52NJ1	7	B20

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3-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												
3/8	3/8	2.10	10	180	180	180	10	185	NBR	73322BN3RNJ0	7	B27
3/8	3/8	2.10	10	180	180	180	10	185	NBR	73322BN3RNJ1	7	B28
1/2	1/2	3.60	10	180	180	180	10	185	NBR	73322BN4UNJ0	7	B27
1/2	1/2	3.60	10	180	180	180	10	185	NBR	73322BN4UNJ1	7	B28
3/4	3/4	7.30	10	180	180	180	10	185	NBR	73322BN52NJ0	7	B29
3/4	3/4	7.30	10	180	180	180	10	185	NBR	73322BN52NJ1	7	B20

3-Way Internal Pilot Operated - Diverting - 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	3/8	2.10	10	180	180	180	10	185	NBR	73382BN3RNJ1	7	B30
1/2	1/2	3.60	10	180	180	180	10	185	NBR	73382BN4UNJ1	7	B30
3/4	3/4	7.30	10	180	180	180	10	185	NBR	73382BN52NJ1	7	B21
DC TECHNICAL SPECIFICATIONS												
3/8	3/8	2.10	10	180	180	180	10	185	NBR	73382BN3RNJ1	7	B30
1/2	1/2	3.60	10	180	180	180	10	185	NBR	73382BN4UNJ1	7	B30
3/4	3/4	7.30	10	180	180	180	10	185	NBR	73382BN52NJ1	7	B21

3-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	3/8	2.10	0	170	170	170	10	185	NBR	74332BN3RNJ1	7	B31
1/2	1/2	3.60	0	170	170	170	10	185	NBR	74332BN4UNJ1	7	B31
3/4	3/4	7.30	0	170	170	170	10	185	NBR	74332BN52NJ1	7	B32
DC TECHNICAL SPECIFICATIONS												
3/8	3/8	2.10	0	170	170	170	10	185	NBR	74332BN3RNJ1	7	B31
1/2	1/2	3.60	0	170	170	170	10	185	NBR	74332BN4UNJ1	7	B31
3/4	3/4	7.30	0	170	170	170	10	185	NBR	74332BN52NJ1	7	B32

***Minumum external pilot pressure must be main line pressure plus 10 psi; 180 psi maximum; 165 psi maximun for vacuum applications.**

External Pilot Pressure Valves
When an application requires the separation of the fluid in the main line from the pilot operator, it is necessary to control the pilot externally.

Examples include:
- Controlling contaminated fluids up to 170 PSI
- Controlling pressures below the minimum
- Operating valves on vacuum

For such applications, the following 3-way multipurpose valves are provided with connections for external pressure to operate the pilot. The minimum external pilot pressure required is the main line pressure plus 10 PSI. The maximum external pilot pressure is 180 PSI for pressure applications, and 165 PSI for vacuum applications.

For vacuum service the vacuum line must be connected to the normally open port, and pilot pressure must be connected to the normally closed pilot port.

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3/2, 3-Way 2 Position Single Solenoid - In Line - Brass

Port Size NPT	Orifice Size in.	Flow Factor Cv	Operating Pressure Differential (MOPD) PSI		Watt	Max. Media Temp. °F	Seal	Pressure Vessel Number without Manual Override	Pressure Vessel Number with Locking Manual Override	Pressure Vessel Number with Momentary Manual Override	Reference	
			Min.	Air, Inert Gas							Coil	Valve
AC/DC TECHNICAL SPECIFICATIONS												
1/4	11/64	0.55	30	150	10	167	NBR	73317BN2KN00	73317BN2KNM0	73317BN2KN7A	7	B22
1/4	11/64	0.55	30	150	1.5	150	NBR	73317BN2KN00	73317BN2KNM0	73317BN2KN7A	11	B22
1/4	1/4	1.20	30	150	10	167	NBR	73317BN2PN00	73317BN2PNM0	73317BN2PN7A	7	B22
1/4	1/4	1.20	30	150	1.5	150	NBR	73317BN2PN00	73317BN2PNM0	73317BN2PN7A	11	B22
1/4	1/4	1.20	30	150	0.6	150	NBR	73317BN2PN90	-	-	12	B22
1/2	5/8	4.00	30	150	10	167	NBR	73317BN4UN00	-	-	7	B33
1/2	5/8	4.00	30	150	1.5	150	NBR	73317BN4UN00	-	-	11	B33
1/2	5/8	4.00	30	150	0.6	150	NBR	73317BN4UN90	-	-	12	B33

3/2, 3-Way 2 Position Single Solenoid - Brass - External Pilot*

Port Size NPT	Orifice Size in.	Flow Factor Cv	Operating Pressure Differential (MOPD) PSI		Watt	Max. Media Temp. °F	Seal	Pressure Vessel Number without Manual Override	Pressure Vessel Number with Locking Manual Override	Pressure Vessel Number with Momentary Manual Override	Reference	
			Min.	Air, Inert Gas							Coil	Valve
AC/DC TECHNICAL SPECIFICATIONS												
1/4	11/64	0.55	0	150	10	167	NBR	74317BN2KN00	-	-	7	B34
1/4	11/64	0.55	0	150	1.5	150	NBR	74317BN2KN00	-	-	11	B34
1/4	1/4	1.20	0	150	10	167	NBR	74317BN2PN00	-	-	7	B34
1/4	1/4	1.20	0	150	1.5	150	NBR	74317BN2PN00	-	-	11	B34
1/2	5/8	4.00	30	150	10	167	MBR	74317BN4UN00	-	-	7	B35
1/2	5/8	4.00	30	150	1.5	167	MBR	74317BN4UN00	-	-	11	B35

* External pilot pressure to operate valve must be 30 - 150 psi
* These valves operate at 0 PSI, however a 2 PSI pressure differential is required to actuate the pressure operated quick exhaust poppet.

3/2, 3-Way 2 Position Single Solenoid - In Line - 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 without Manual Override	Pressure Vessel Number with Locking Manual Override	Pressure Vessel Number with Momentary Manual Override	Reference	
			Min.	Air, Inert Gas							Coil	Valve
AC/DC TECHNICAL SPECIFICATIONS												
1/4	11/64	0.55	30	150	10	167	NBR	73317VN2KN00	-	-	7	B22
1/4	11/64	0.55	30	150	1.5	150	NBR	73317VN2KN00	-	-	11	B22
1/4	11/64	0.55	30	150	0.6	150	NBR	73317VN2KN90	-	-	12	B22
1/4	1/4	1.20	30	150	10	167	NBR	73317VN2PN00	-	-	7	B22
1/4	1/4	1.20	30	150	1.5	150	NBR	73317VN2PN00	-	-	11	B22

3/2, 3-Way 2 Position Single Solenoid - Stainless Steel - External Pilot*

Port Size NPT	Orifice Size in.	Flow Factor Cv	Operating Pressure Differential (MOPD) PSI		Watt	Max. Media Temp. °F	Seal	Pressure Vessel Number without Manual Override	Pressure Vessel Number with Locking Manual Override	Pressure Vessel Number with Momentary Manual Override	Reference	
			Min.	Air, Inert Gas							Coil	Valve
AC/DC TECHNICAL SPECIFICATIONS												
1/4	11/64	0.55	0	150	10	167	NBR	74317VN2KN00	-	-	7	B34
1/4	11/64	0.55	0	150	1.5	150	NBR	74317VN2KN00	-	-	11	B34

***External pilot pressure to operate valve must be 30-150 psi**

3-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 without Manual Override	Pressure Vessel Number with Locking Manual Override	Pressure Vessel Number with Momentary Manual Override	Reference	
			Min.	Air, Inert Gas							Coil	Valve
3/8	3/8	2.1	0	180	--	185	NBR	75332BN3RN00	-	-	-	B36
1/2	1/2	2.1	0	180	--	185	NBR	75332BN4UN00	-	-	-	B36
3/4	3/4	3.6	0	180	--	185	NBR	75332BN52N00	-	-	-	B36

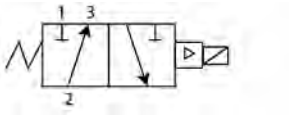
Remote Operated Valve Port Connections

Valve Type	Main Line Supply	Remote Control Valve Hookup				3-Way Pilot Valve Hookup		
		Normally Closed Port	Normally Open Port	Common Port	Pilot Inlet Port 1/8" NPT	Normally Closed Port	Normally Open Port	Common Port
Normally Open	0-180 PSIG	Media Exhaust	Media Inlet	Cylinder	Connect to Common Port of 3-Way Pilot	Main Line Pressure +10 PSI Min.	Pilot Exhaust	1/8" NPT Pilot of Remote Control Valve
	Vacuum	Atmosphere	Vacuum	Cylinder		10 PSI Min.	Vacuum	
Normally Closed	0-180 PSIG	Media Inlet	Media Exhaust	Cylinder		Main Line Pressure +10 PSI Min.	Pilot Exhaust	
	Vacuum	Vacuum	Atmosphere	Cylinder		10 PSI Min.	Vacuum	
Directional Control	0-180 PSIG	Media Outlet	Media Outlet	Media Inlet		Main Line Pressure +10 PSI Min.	Pilot Exhaust	
	Vacuum	Inlet	Inlet	Vacuum		10 PSI Min.	Vacuum	

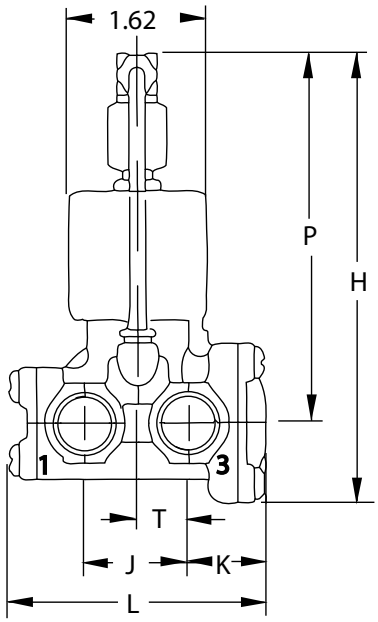
Parker Hannifin Corporation
Fluid Control Division
1 800 825 8305 (1 800 Valve05)
www.parker.com/fcd

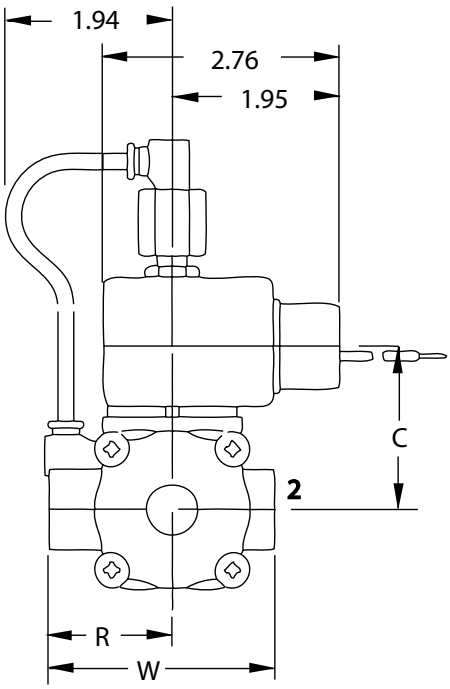
Valve Reference B19





3-Way Normally Closed
Port Identification
1-Pressure/ 2-Cylinder/ 3-Exhaust

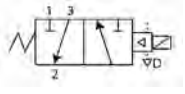




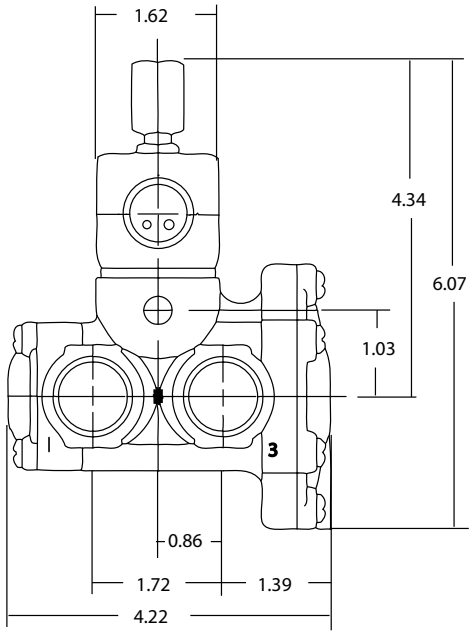
Valve	Dimensions								
	H	P	C	L	W	T	R	J	K
73312BN3RNJ0	5.34	4.41	1.96	2.97	2.62	0.59	1.44	1.22	0.91
73312BN4UNJ0	5.62	4.56	2.08	3.38	3.09	0.69	1.66	1.41	1.06

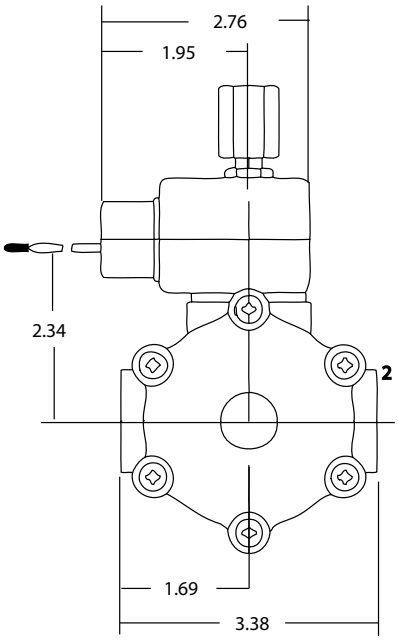
Valve Reference B20





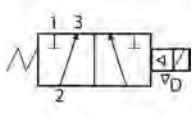
3-Way Normally Open
Port Identification
1-Exhaust/ 2-Cylinder/ 3-Pressure



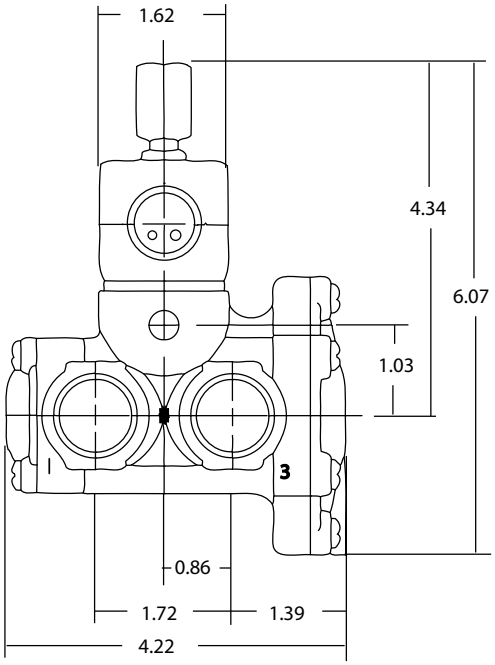


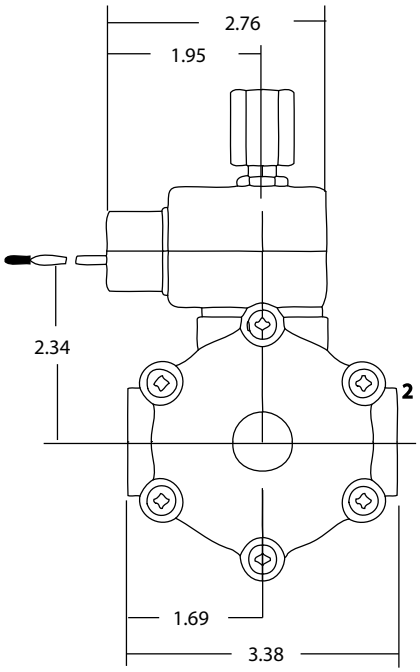
Valve Reference B21





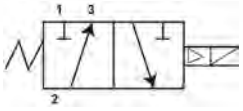
3-Way Diverting
Port Identification
1-NC/ 2-IN/ 3-NO



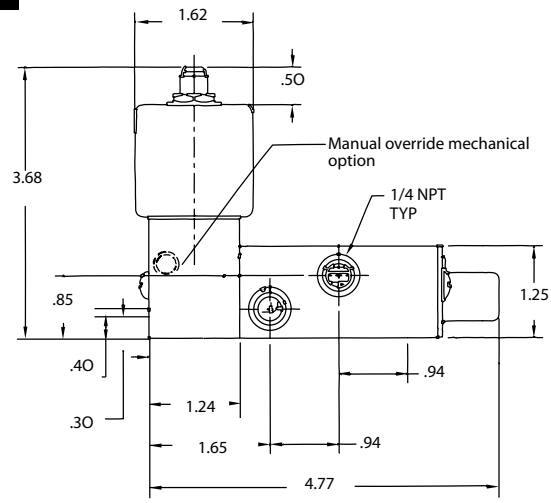


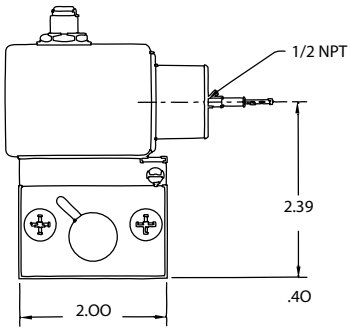
Valve Reference B22

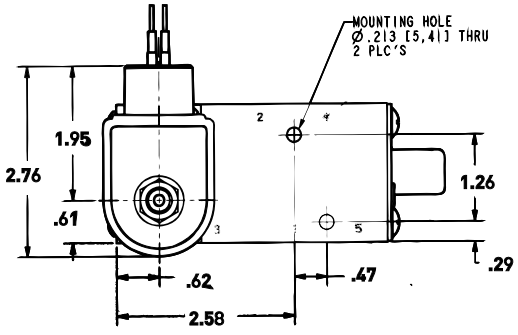


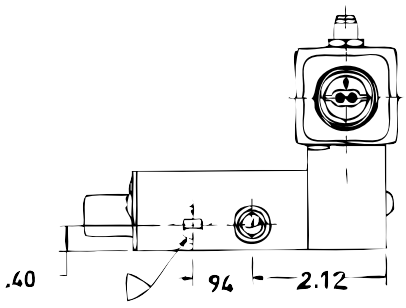


3-Way Normally Closed
Port Identification
2-Cylinder/ 1-Pressure/ 3-Exhaust





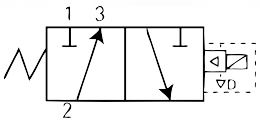




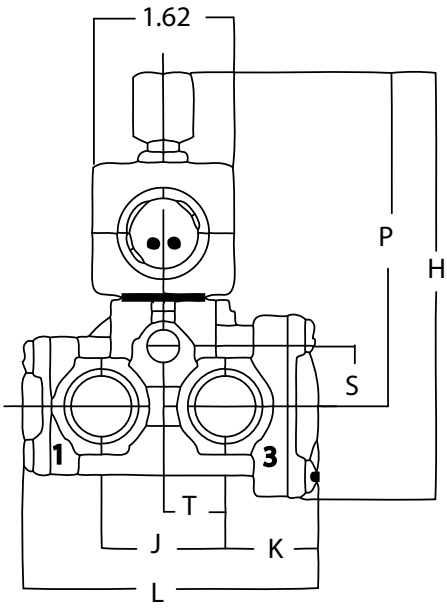
Parker Hannifin Corporation
Fluid Control Division
1 800 825 8305 (1 800 Valve05)
www.parker.com/fcd

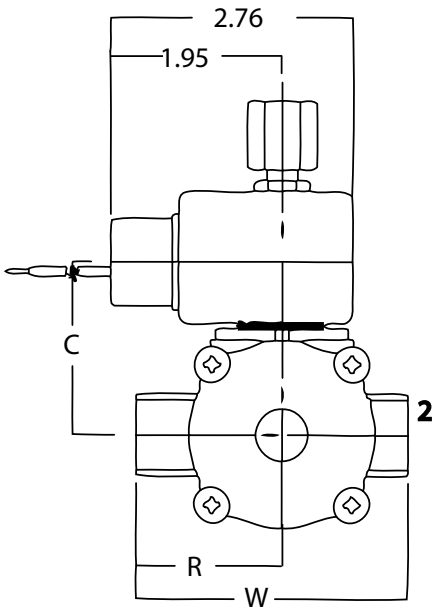
Valve Reference B24





3-Way Normally Closed
Port Identification
1-Pressure/ 2-Cylinder/ 3-Exhaust

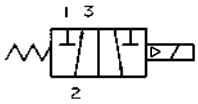




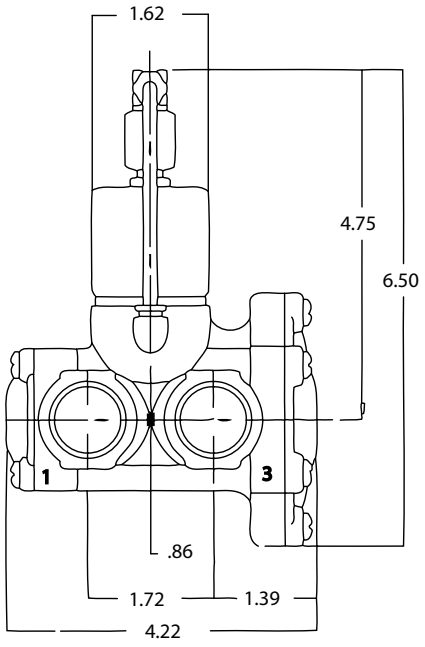
Valve	Dimensions									
	H	P	C	L	W	S	T	R	J	K
73312BN3RNJ1	4.89	3.98	1.96	2.97	2.62	0.65	0.59	1.44	1.22	0.91
73312BN4UNJ1	5.10	4.08	2.08	3.38	3.09	0.78	0.69	1.66	1.44	1.06

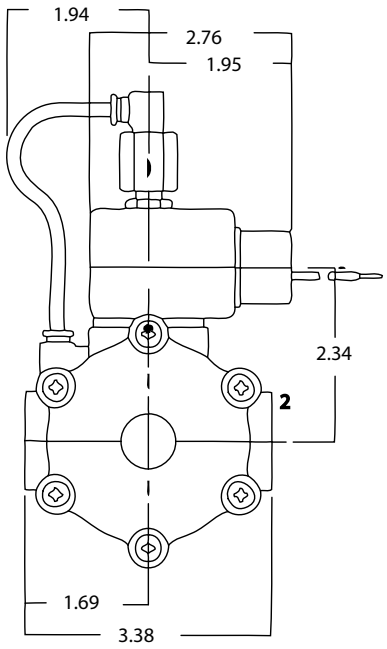
Valve Reference B25





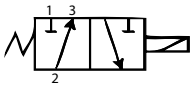
3-Way Normally Closed
Port Identification
1-Pressure/ 2-Cylinder/ 3-Exhaust



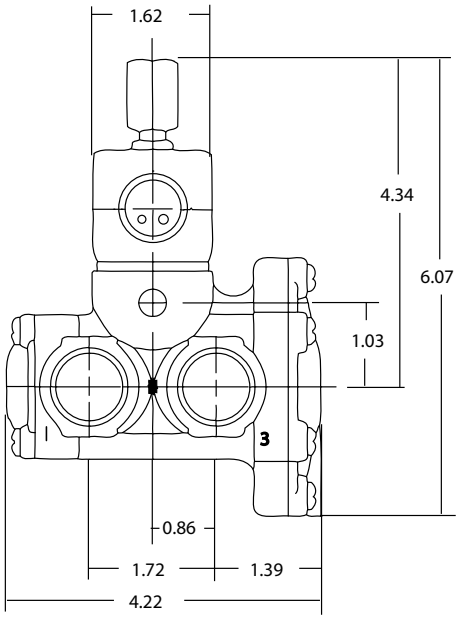


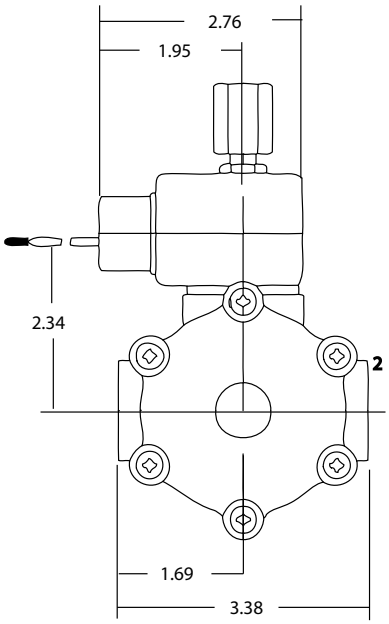
Valve Reference B26





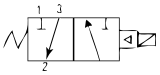
3-Way Normally Closed
Port Identification
1-Pressure/ 2-Cylinder/ 3-Exhaust



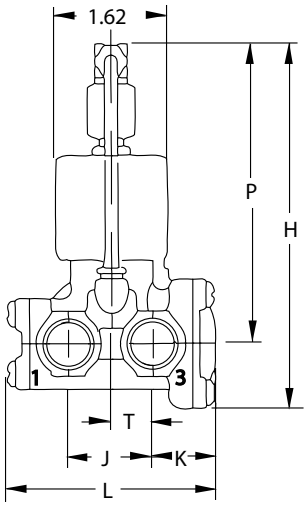


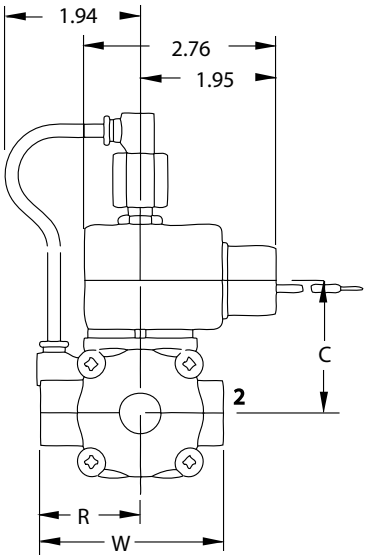
Valve Reference B27





3-Way Normally Open
Port Identification
1-Exhaust/ 2-Cylinder/ 3-Pressure



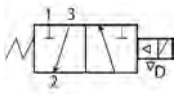


Valve	Dimensions								
	H	P	C	L	W	T	R	J	K
73322BN3RNJ0	5.34	4.41	1.96	2.97	2.62	0.59	1.44	1.22	0.91
73322BN4UNJ0	5.62	4.56	2.08	3.38	3.09	0.69	1.66	1.41	1.06

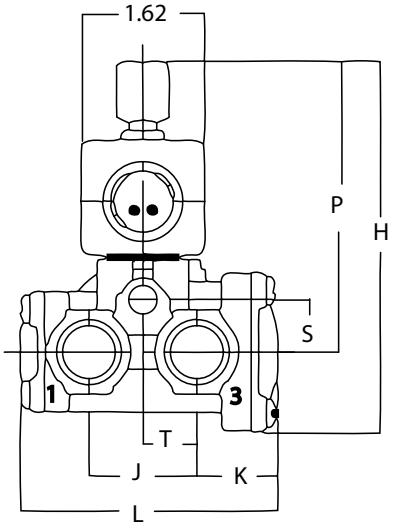
Parker Hannifin Corporation
Fluid Control Division
1 800 825 8305 (1 800 Valve05)
www.parker.com/fcd

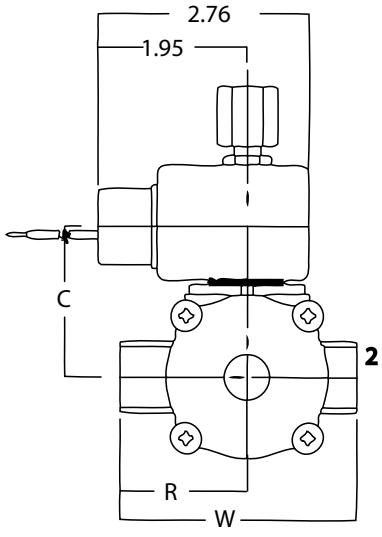
Valve Reference B28





3-Way Normally Open
Port Identification
1-Exhaust/ 2-Cylinder/ 3-Pressure

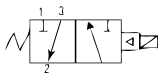




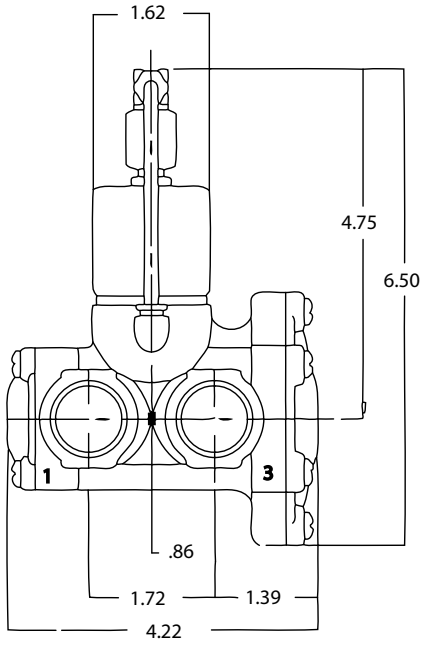
Valve	Dimensions									
	H	P	C	L	W	S	T	R	J	K
73322BN3RNJ1	4.98	3.98	1.96	2.97	2.62	0.65	0.59	1.44	1.22	0.91
73322BN4UNJ1	5.10	4.08	2.08	3.38	3.09	0.78	0.69	1.66	1.44	1.06

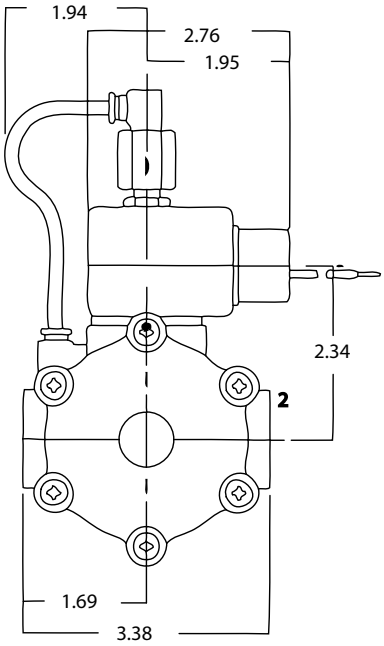
Valve Reference B29





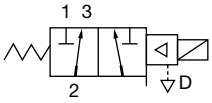
3-Way Normally Open
Port Identification
1-Exhaust/ 2-Cylinder/ 3-Pressure



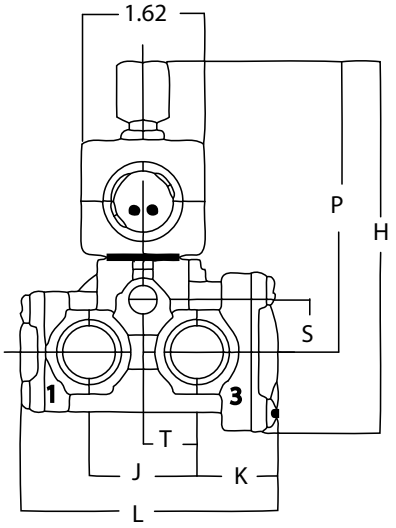


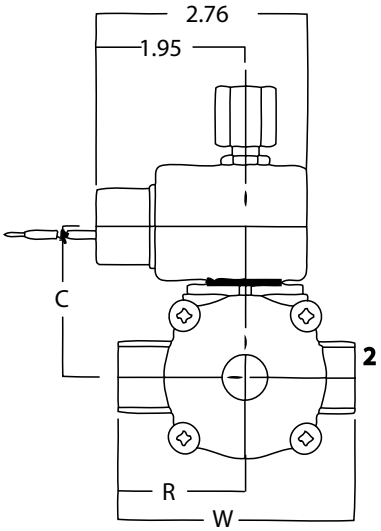
Valve Reference B30





3-Way Diverting
Port Identification
1-NC/ 2-IN/ 3-NO

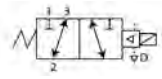




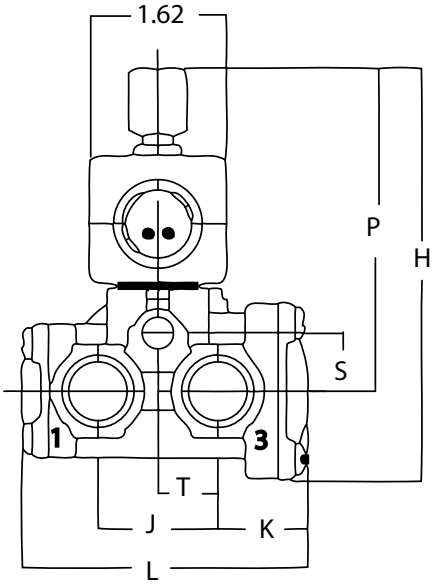
Valve	Dimensions									
	H	P	C	L	W	S	T	R	J	K
73382BN3RNJ1	4.89	3.98	1.96	2.97	2.62	0.65	0.59	1.44	1.22	0.91
73382BN4UNJ1	5.10	4.08	2.08	3.38	3.09	0.78	0.69	1.66	1.44	1.06

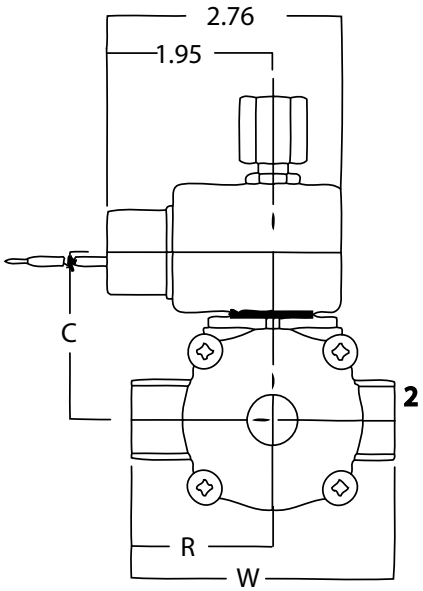
Valve Reference B31





3-Way Universal
Pressure can be applied at
either port.



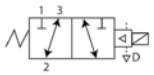


Valve	Dimensions									
	H	P	C	L	W	S	T	R	J	K
74332BN3RNJ1	4.72	3.79	1.96	2.97	2.62	0.65	0.59	1.44	1.22	0.91
74332BN4UNJ1	4.93	3.91	2.08	3.38	3.09	0.78	0.69	1.66	1.44	1.06

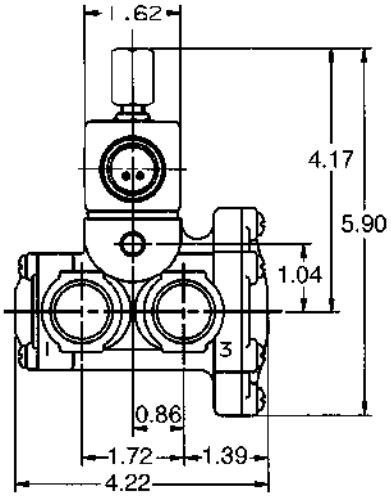
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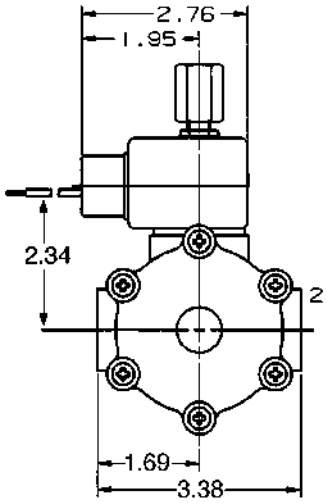
Valve Reference B32





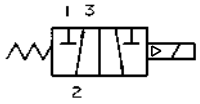
3-Way Universal
Pressure can be applied at
either port.



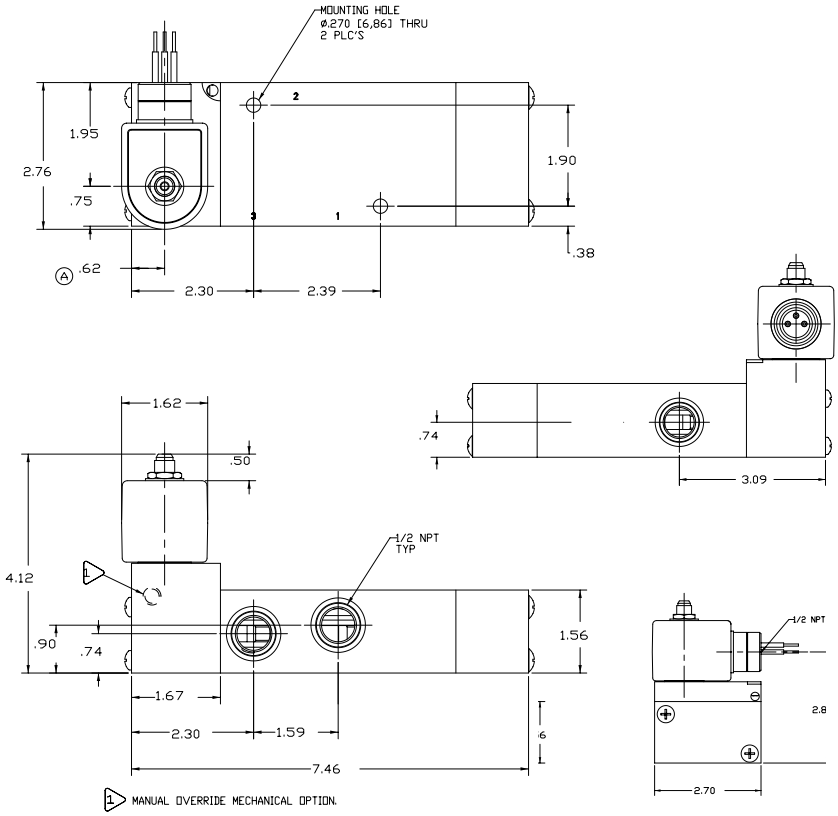


Valve Reference B33



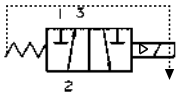


3-Way Normally Closed
Port Identification
2-Cylinder / 1-Pressure/ 3-Exhaust

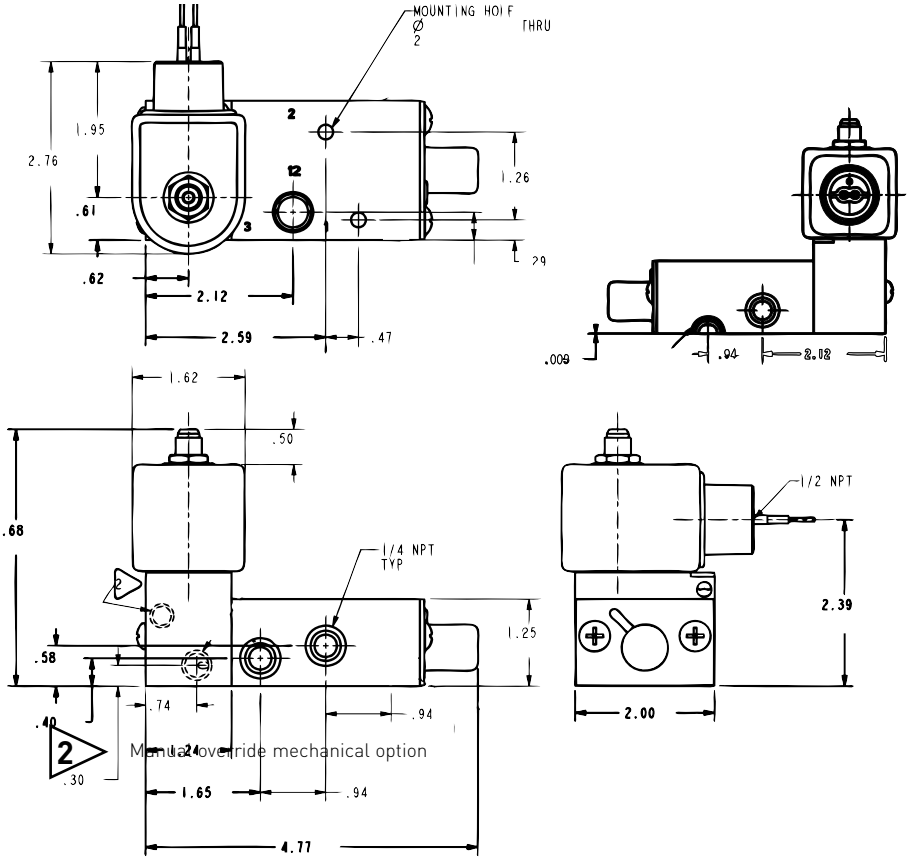


Valve Reference B34





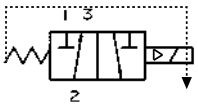
3-Way Normally Closed
Port Identification
1-Pressure/ 2-Cylinder/ 3-Exhaust



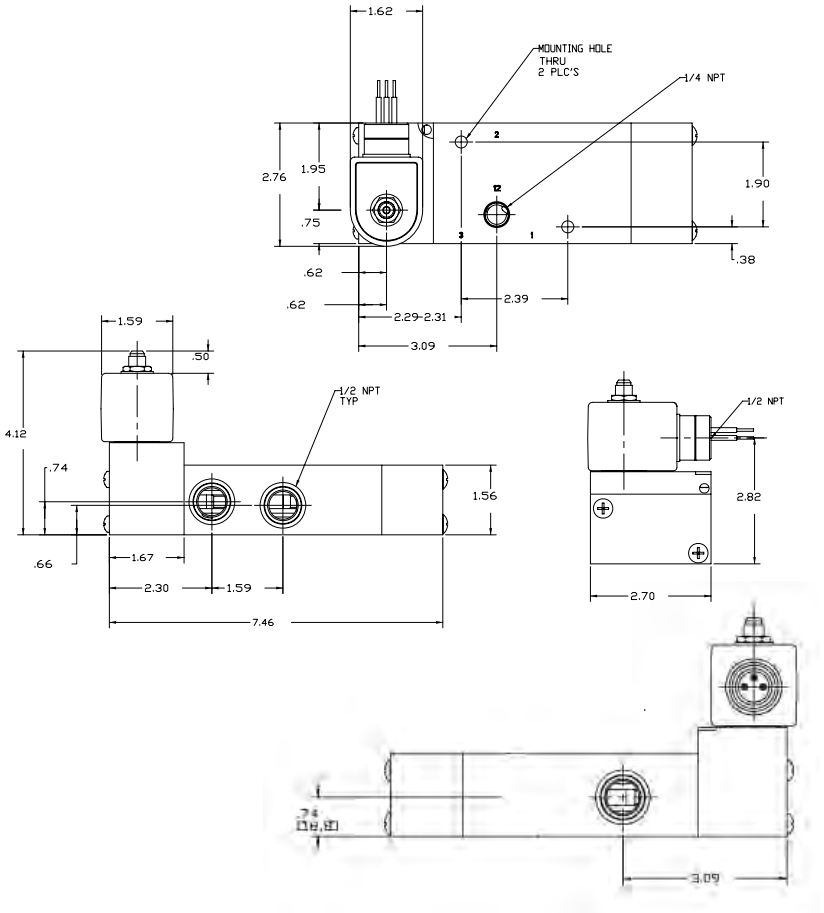
Manual override mechanical option

Valve Reference B35





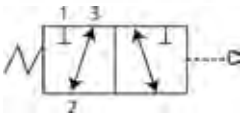
3-Way Normally Closed
1-Pressure/ 2-Cylinder/ 3-Exhaust



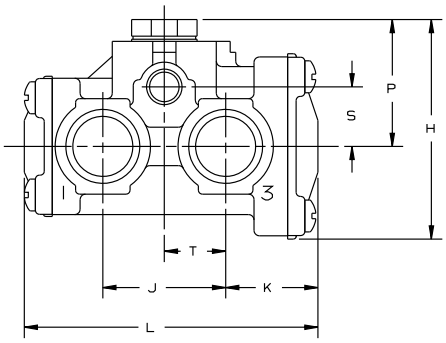
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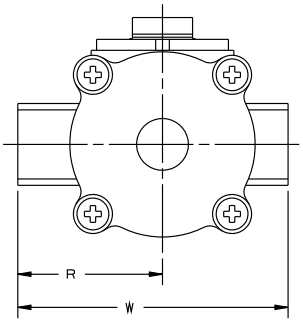
Valve Reference B36

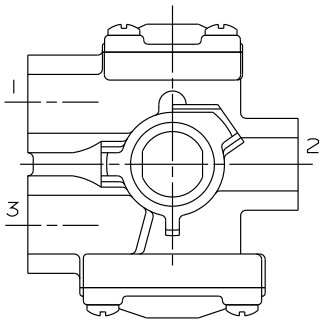




Port Identification
Normally Closed: 1-press/2-cylinder/3-Exh.
Normally Open: 3 - press/2- cylinder/3 - Exh.
Directional Control: 2 - press/3 - N.O./1 - N.C.







Valve	Dimension								
	H	P	L	W	S	T	R	J	K
**75332BN3RN00	2.42	1.49	2.97	2.62	.65	.59	1.44	1.22	.91
**75332BN4UN00	2.3	1.61	3.38	3.09	.78	.69	1.66	1.41	1.06
*75332BN52N00	3.60	1.87	4.22	3.38	1.03	.86	1.69	1.72	1.39

* 6-Bolt cover pattern as shown in photo
** 4-bolt cover pattern as shown in dimensional drawings

3-Way Pilot Operated Materials of Construction**

Product*	Watt	Type	Port Size	Body	Sleeve Tube	Sleeve Stop	Sleeve Flange	"Plunger Blank"	Plunger Spring	Shading Ring	Max. Ambient Temp.
73312BN	10	3WNC	3/8 - 3/4	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
73322BN	10	3WNO	3/8 - 3/4	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
73382BN	10	3WD	3/8 - 3/4	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
74332BN	10	3WU	3/8 - 3/4	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
73317BN	10	3WNC	1/4	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	167°F
73317BN	10	3WNC	1/2	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	167°F
73317VN	10	3WNC	1/4	303	304SS	430FR	430F	430FR	18-8SS	Copper	167°F
71315AK	10	3WNC	1/4	Alum	304SS	430FR	430F	430FR	18-8SS	Copper	167°F
74317VN	10	3WNC	1/4	303	304SS	430FR	430F	430FR	18-8SS	Copper	167°F
75332***	--	UNIV	3/8 - 1/4	Brass	N/A	N/A	N/A	N/A	18-8SS	N/A	--

* Shows first 7 digits of pressure vessel

** 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 valves are remotely piloted. No coil required.

Notes

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3-Way

Direct Acting High Pressure Valves
1/8" - 1/4" NPT



General Description:

3-way Direct Acting High Pressure valves are used in general industrial application and control valve pilot actuation where higher pressures and flows are required. No minimum operating pressure differential required to ensure proper operation.

Installation
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 B44.

Compatible Fluids
Lubricated Air, Inert Gases, Water, Light Oil (300 SSU) and additional fluids compatible with materials of construction, as listed in the product specifications charts.

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 B44 for details.

Applications:

- Pilot valve actuation of larger control valves
- Oil and gas including off-shore installations
- Single acting spring return cylinder control
- Compressor unloaders
- Turbines
- Machining equipment
- High pressure compressors

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3-Way Normally Closed High Pressure - 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	
	In	Exh.	In	Exh.	Min.	Air, Inert Gas	Water	Light Oil					Coil	Valve
AC TECHNICAL SPECIFICATIONS														
1/4	1/32	1/32	0.020	0.020	0	1100	1100	1100	10	210	RUBY	7131KBN2BR00	7	B39
1/4	1/32	1/32	0.020	0.020	0	580	580	580	10	165	PCTFE	7131KBN2BF00	7	B39
DC TECHNICAL SPECIFICATIONS														
1/4	1/32	1/32	0.020	0.020	0	1100	1100	1100	10	210	RUBY	7131KBN2BR00	7	B39
1/4	1/32	1/32	0.020	0.020	0	580	580	580	10	165	PCTFE	7131KBN2BF00	7	B39

3-Way Universal High Pressure - 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	
	In	Exh.	In	Exh.	Min.	Air, Inert Gas	Water	Light Oil					Coil	Valve
AC TECHNICAL SPECIFICATIONS														
1/4	1/32	1/32	0.020	0.020	0	435	435	435	10	185	FKM	7133KBN2BVJ1	7	B39
DC TECHNICAL SPECIFICATIONS														
1/4	1/32	1/32	0.020	0.020	0	435	435	435	10	185	FKM	7133KBN2BVJ1	7	B39

3-Way Universal High Pressure - Stainless Steel

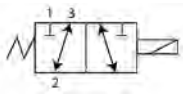
Port Size NPT	Orifice Size In.		Flow Factor Cv		Operating Pressure Differential (MOPD) PSI				Watt	Max. Media Temp. °F	Seal	Pressure Vessel Number	Reference	
	In	Exh.	In	Exh.	Min.	Air, Inert Gas	Water	Light Oil					Coil	Valve
AC TECHNICAL SPECIFICATIONS														
1/8	1/32	1/32	0.024	0.024	0	400	400	400	10	185	NBR	71335SN1ANJ1	7	B38
1/4	1/32	1/32	0.024	0.024	0	400	400	400	10	185	NBR	71335SN2ANJ1	7	B38
DC TECHNICAL SPECIFICATIONS														
1/8	1/32	1/32	0.024	0.024	0	400	400	400	10	185	NBR	71335SN1ANJ1	7	B38
1/4	1/32	1/32	0.024	0.024	0	400	400	400	10	185	NBR	71335SN2ANJ1	7	B38

*** PCTFE Seals: Allowable Seat leakage is 20 cc/min on air and inert gas at rated pressure: 7131KBNxxFxx**
RUBY Seals: Allowable Seat leakage is 100 cc/min on air and inert gas at rated pressure: 7131KBNxxRxx

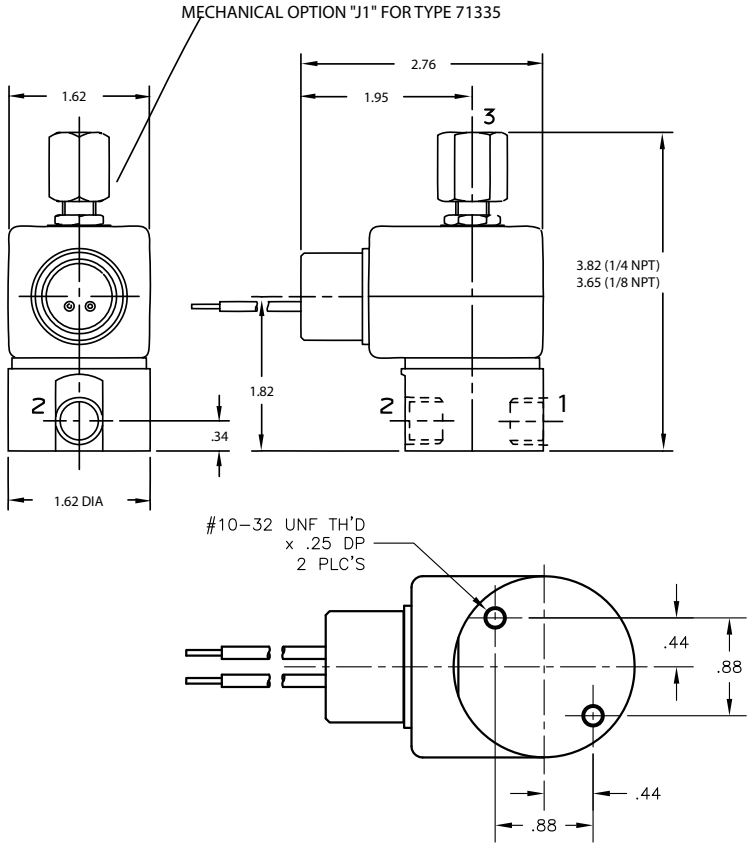
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Valve Reference B38



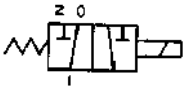


3-Way Universal
Pressure can be applied at
either port.

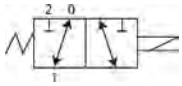


Valve Reference B39

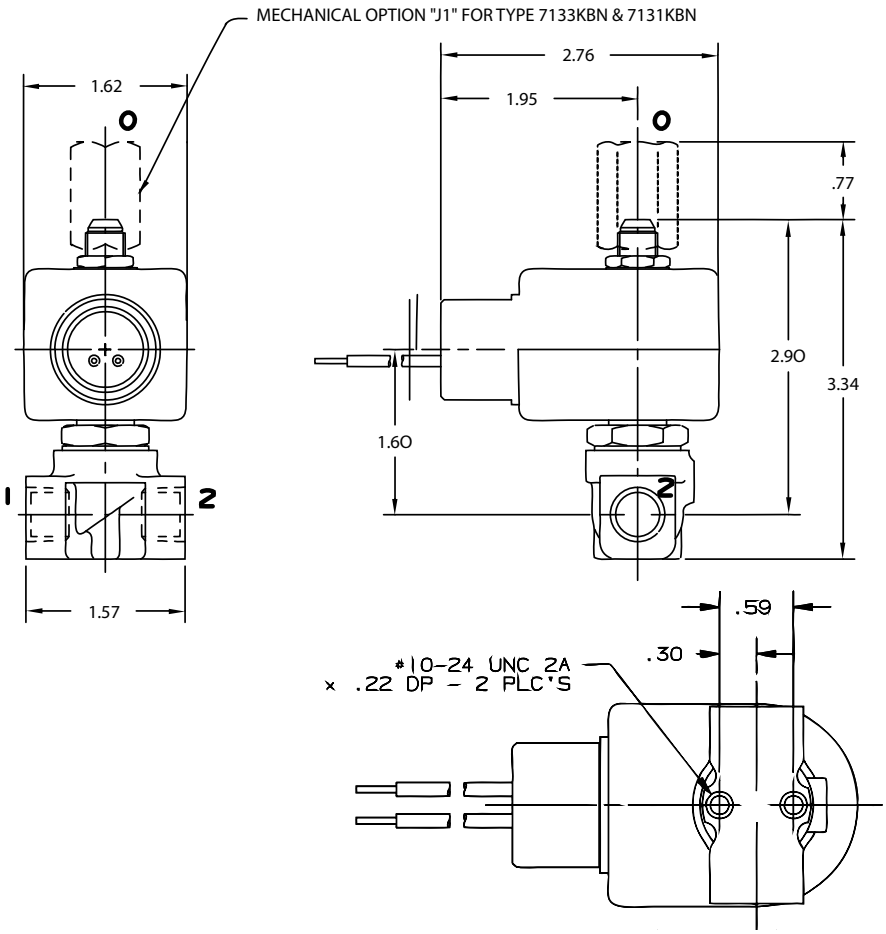




3-Way Normally Closed
Port Identification
1-Cylinder/ 2-Pressure/ 0-Exhaust



3-Way Universal
Port Identification
Pressure can be applied at
either port



3-Way Direct Acting High Pressure Materials of Construction**

Product*	Watt	Type	Port Size	Body	Sleeve Tube	Sleeve Stop	Sleeve Flange	"Plunger Blank"	Plunger Spring	Shading Ring	Max. Ambient Temp.
7131KBN	10	3WNC	1/8 - 1/4	Brass	304SS	430FR	430F	430FR	301SS	Copper	150°F
7133KBN	10	3WU	1/8 - 1/4	Brass	304SS	430FR	430F	430FR	301SS	Copper	150°F
71335SN	10	3WU	1/8 - 1/4	430F	304SS	430FR	430F	430FR	18-8SS	Copper	150°F

* Shows first 7, 2 or 3 digits of pressure vessel.

** 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.

Notes

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3-Way

Direct Acting & Pilot Operated Quick Exhaust Valves 1/4" - 3/8" NPT



General Description:

3-Way Direct Acting & Pilot Operated Quick Exhaust Valves are designed to provide a large orifice for quick exhaust. Increased exhaust capacity significantly reduces cycle time for single acting spring return actuators. Pilot operated valves require the minimum operating pressure differential specified to ensure proper operation. Direct acting valves do not require a pressure differential.

Installation
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 B50.

Compatible Fluids
Lubricated air, inert gases, water, light oil (300 SSU) and additional fluids compatible with materials of construction, as listed in the product specifications.

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
180° F

Please refer to Page B50 for details.

Applications:

- Pilot valve actuation of larger control valves
- Oil and gas including off-shore installations
- Single acting spring return cylinder control
- Compressor unloaders
- Turbines

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3-Way Normally Closed - Quick Exhaust - 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	
	Body NC	Body NO	Sleeve Size	In	Exh.	Min.	Air, Inert Gas	Water	Light Oil					Coil	Valve
AC TECHNICAL SPECIFICATIONS															
1/4	3/32	1/4	-	0.20	0.73	5	150	150	95	11	180	NBR	04F35C1116ACF	4	B41
1/4	3/32	1/4	3/32	0.20	1.10	0	100	100	100	10	185	NBR	7131EBN2LN00*	7	B40
1/4	3/32	1/4	3/32	0.20	1.10	0	100	100	100	10	185	NBR	7131EBN2LNJ1*	7	B40
1/4	9/32	11/32	-	0.80	1.20	10	200	200	200	6	180	NBR	04F38C1122AAF	1	B42
3/8	9/32	11/32	-	0.80	1.20	10	200	200	200	6	180	NBR	06F38C1122AAF	1	B42
DC TECHNICAL SPECIFICATIONS															
1/4	3/32	1/4	-	0.20	0.73	5	115	115	60	11.5	104	NBR	04F35C1116A3F	6	B41
1/4	3/32	1/4	3/32	0.20	1.10	0	100	100	100	10	185	NBR	7131EBN2LN00*	7	B40
1/4	3/32	1/4	3/32	0.20	1.10	0	100	100	100	10	185	NBR	7131EBN2LNJ1*	7	B40
1/4	9/32	11/32	-	0.80	1.20	10	200	200	200	9.5	120	NBR	04F38C1122A1F	3	B42
3/8	9/32	11/32	-	0.80	1.20	10	200	200	200	9.5	120	NBR	06F38C1122A1F	3	B42

3-Way Normally Closed - Quick Exhaust - 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	
	Body NC	Body NO	Sleeve Size	In	Exh.	Min.	Air, Inert Gas	Water	Light Oil					Coil	Valve
AC TECHNICAL SPECIFICATIONS															
1/4	3/64	1/8	3/32	0.052	0.35	0	250	250	250	10	185	NBR	71313SN2EN00*	7	B43
1/4	3/64	1/8	3/32	0.052	0.35	0	250	250	250	10	185	NBR	71313SN2ENJ1*	7	B43
1/4	1/16	1/8	3/32	0.090	0.35	0	200	200	200	10	185	NBR	71313SN2GN00*	7	B43
1/4	1/16	1/8	3/32	0.090	0.35	0	200	200	200	10	185	NBR	71313SN2GNJ1*	7	B43
1/4	3/32	1/8	3/32	0.110	0.35	0	125	125	125	10	185	NBR	71313SN2KN00*	7	B43
1/4	3/32	1/8	3/32	0.110	0.35	0	125	125	125	10	185	NBR	71313SN2KNJ1*	7	B43
1/4	1/8	1/8	3/32	0.130	0.35	0	90	90	90	10	185	NBR	71313SN2MN00*	7	B43
1/4	1/8	1/8	3/32	0.130	0.35	0	90	90	90	10	185	NBR	71313SN2MNJ1*	7	B43

***These valves operate at 0 PSI, however, a 2 PSI pressure differential is required to activate the pressure operated quick exhaust poppet.**

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3-Way Normally Closed - Quick Exhaust - Stainless Steel (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	
	Body NC	Body NO	Sleeve Size	In	Exh.	Min.	Air, Inert Gas	Water	Light Oil					Coil	Valve
DC TECHNICAL SPECIFICATIONS															
1/4	3/64	1/8	3/32	0.052	0.35	0	250	250	250	10	185	NBR	71313SN2EN00*	7	B43
1/4	3/64	1/8	3/32	0.052	0.35	0	250	250	250	10	185	NBR	71313SN2ENJ1*	7	B43
1/4	1/16	1/8	3/32	0.090	0.35	0	200	200	200	10	185	NBR	71313SN2GN00*	7	B43
1/4	1/16	1/8	3/32	0.090	0.35	0	200	200	200	10	185	NBR	71313SN2GNJ1*	7	B43
1/4	3/32	1/8	3/32	0.110	0.35	0	125	125	125	10	185	NBR	71313SN2KN00*	7	B43
1/4	3/32	1/8	3/32	0.110	0.35	0	125	125	125	10	185	NBR	71313SN2KNJ1*	7	B43
1/4	1/8	1/8	3/32	0.130	0.35	0	90	90	90	10	185	NBR	71313SN2MN00*	7	B43
1/4	1/8	1/8	3/32	0.130	0.35	0	90	90	90	10	185	NBR	71313SN2MNJ1*	7	B43

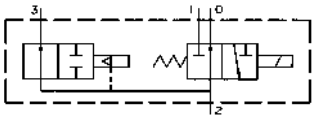
3-Way Normally Open - Quick Exhaust - Brass

Port Size NPT	Orifice Size In.			Flow Factor Cv		Operating Pressure Differential (MOPD) PSI				Watt	Max. Media Temp. °F	Seal	Pressure Vessel Number	Reference	
	Body NC	Body NO	Sleeve Size	In	Exh.	Min.	Air, Inert Gas	Water	Light Oil					Coil	Valve
AC TECHNICAL SPECIFICATIONS															
1/4	3/32	1/4	-	0.20	0.73	5	160	160	95	11	180	NBR	04F35O1116ACF	4	B41
1/4	9/32	11/32	-	0.80	1.20	10	200	200	200	11	180	NBR	04F38O1122ACF	4	B42
3/8	9/32	11/32	-	0.80	1.20	10	200	200	200	11	180	NBR	06F38O1122ACF	4	B42
DC TECHNICAL SPECIFICATIONS															
1/4	3/32	1/4	-	0.20	0.73	5	100	100	50	11.5	180	NBR	04F35O1116A3F	6	B41
1/4	9/32	11/32	-	0.80	1.20	10	200	200	200	11.5	180	NBR	04F38O1122A3F	6	B42
3/8	9/32	11/32	-	0.80	1.20	10	200	200	200	11.5	180	NBR	06F38O1122A3F	6	B42

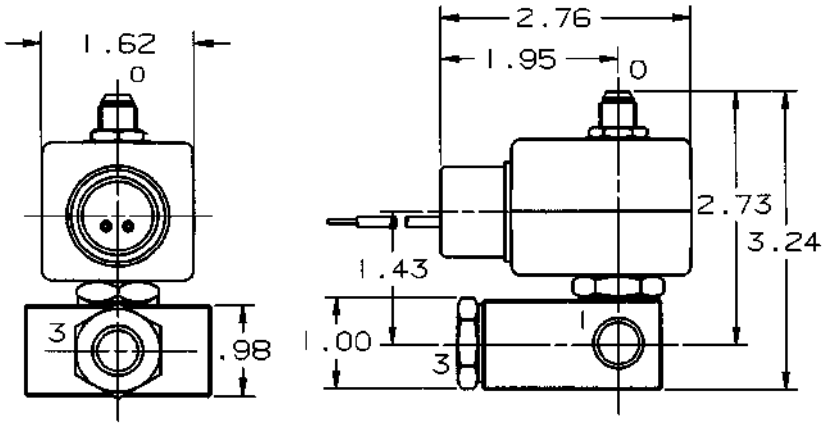
***These valves operate at 0 PSI, however, a 2 PSI pressure differential is required to activate the pressure operated quick exhaust poppet.**

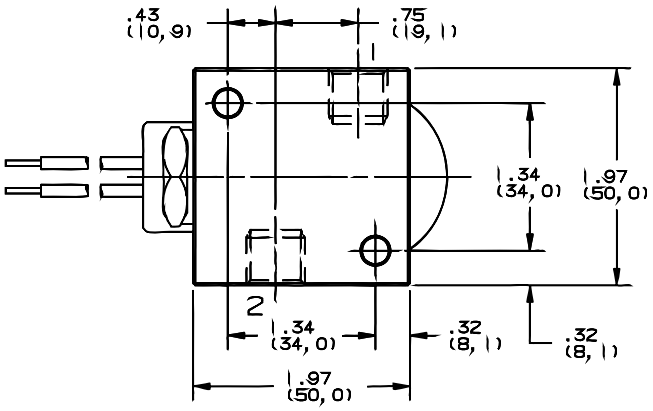
Valve Reference B40





3-Way Normally Closed
Port Identification
1-Pressure/ 2-Cylinder/ 3-Exhaust

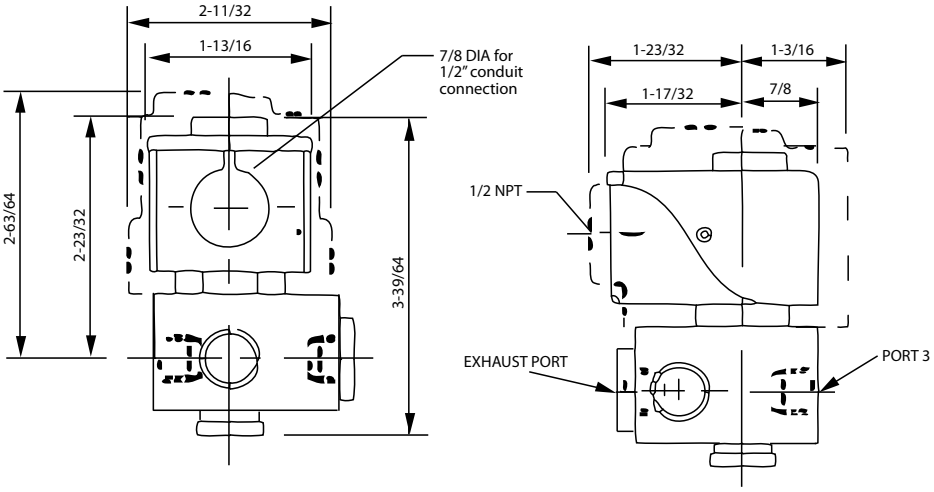


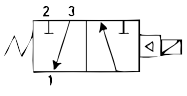


Valve Reference B41

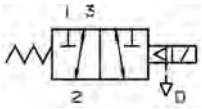


3-Way Normally Closed
04F35Cxx
Port identification:
Pressure is at 2 | **CYL. 1**





3-Way Normally Open
04F350xx
Port identification:
Pressure is at 3 | **CYL. 1**

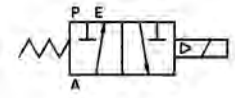


3-Way Universal
04F35Uxx
Port identification:
Pressure can be applied at either port

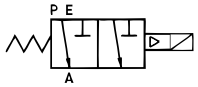
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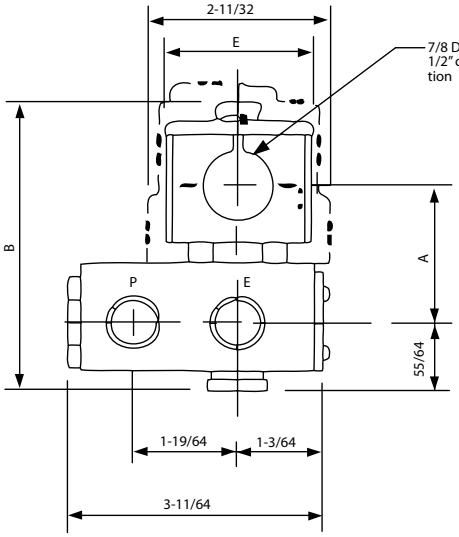


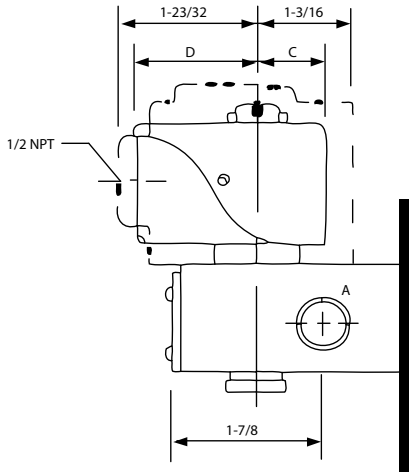


3-Way Normally Closed
04F38Cxx and 06F38Cxx



3-Way Normally Open
04F38Oxx and 06F38Oxx



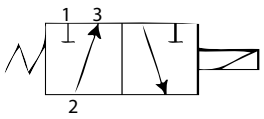


Port Identification:
P - PRESSURE | A - CYL. | E- EXH

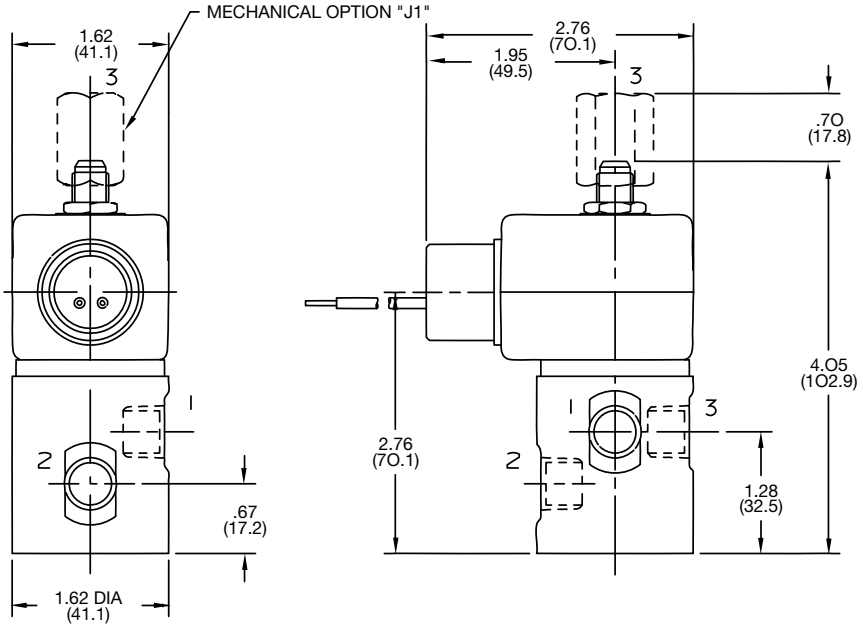
	Normally Closed	Normally Open
A	1 - 21/32	1 - 23/32
B	3 - 33/64	3 - 37/64
C	23/32	7/8
D	1 - 5/16	1 - 17/32
E	1 - 9/16	1 - 13/16

Valve Reference B43





3-way Normally closed
Port identification:
1-pressure/2-cylinder/3-exhaust



3-Way Quick Exhaust Materials of Construction**

Product*	Watt	Type	Port Size	Body	Sleeve Tube	Sleeve Stop	Sleeve Flange	"Plunger Blank"	Plunger Spring	Shading Ring	Max. Ambient Temp.
7131EBN	10	3WNC	1/4	Brass	304SS	430FR	430F	430FR	301SS	Copper	150°F
71313SN	10	3WNC	1/8 - 1/4	430F	304SS	430FR	430F	430FR	18-8SS	Copper	150°F
04F35C1	11.5	3WNC	1/4	Brass	305SS	430FR	430F	430FR	302SS	Copper	180°F
04F35O1	6	3WNO	1/4	Brass	305SS	430FR	430F	430FR	302SS	Copper	180°F
04F38C1	6	3WNC	1/4	Brass	305SS	430FR	430F	430FR	302SS	Copper	180°F
04F38O1	6	3WNO	1/4	Brass	305SS	430FR	430F	430FR	302SS	Copper	180°F
06F38C1	11.5	3WNC	3/8	Brass	305SS	430FR	430F	430FR	302SS	Copper	180°F
06F38O1	11.5	3WNO	3/8	Brass	305SS	430FR	430F	430FR	302SS	Copper	180°F
04F35C1	11.5	3WNC	1/4	Brass	305SS	430FR	430F	430FR	302SS	Copper	104°F
04F35O1	11.5	3WNO	1/4	Brass	305SS	430FR	430F	430FR	302SS	Copper	104°F
04F38C1	11.5	3WNC	1/4	Brass	305SS	430FR	430F	430FR	302SS	Copper	120°F
04F38O1	11.5	3WNO	1/4	Brass	305SS	430FR	430F	430FR	302SS	Copper	120°F
06F38C1	11.5	3WNC	3/8	Brass	305SS	430FR	430F	430FR	302SS	Copper	120°F
06F38O1	11.5	3WNO	3/8	Brass	305SS	430FR	430F	430FR	302SS	Copper	120°F

* Shows first 7 digits of pressure vessel.

** 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.

Notes

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4-Way

Direct Acting & Pilot Operated Valves
1/8" - 1/2" NPT



General Description:

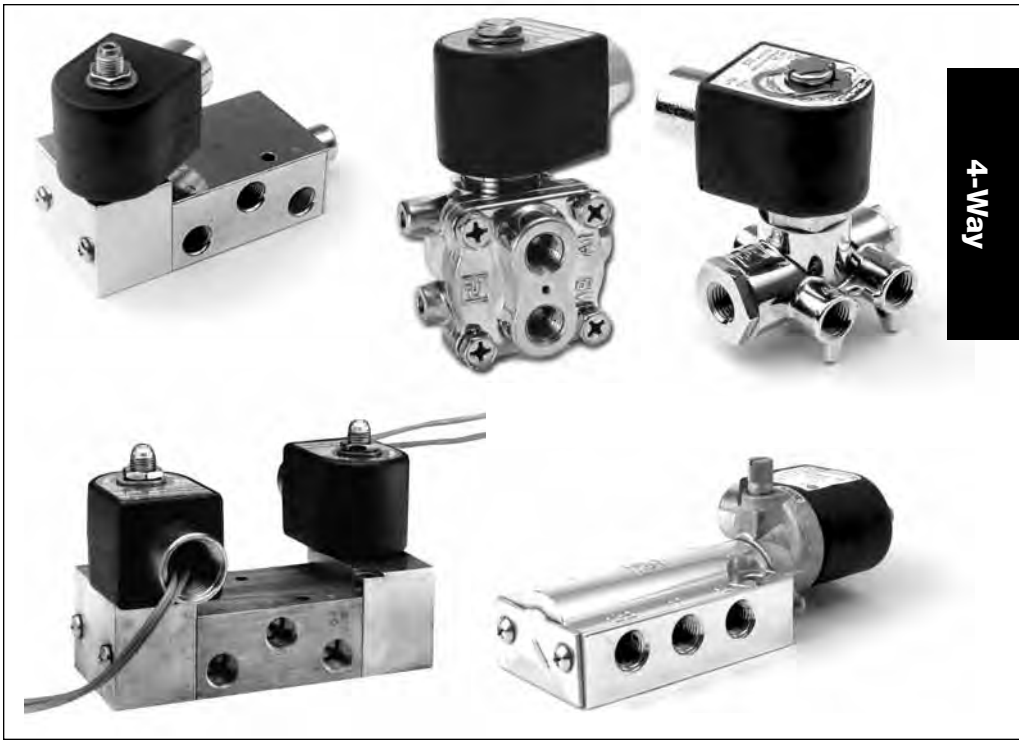
4-Way Direct Acting and Pilot Operated valves are used in applications for actuation of double acting cylinders and piloting of larger control valves. Pilot operated valves require the minimum operating pressure differential specified to ensure proper operation. Direct Acting valves do not have a minimum pressure differential requirement.

Installation
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 C15.

Compatible Fluids
Lubricated Air, Inert Gases, Water, Light Oil (300 SSU) and additional fluids compatible with materials of construction, as shown in the product specification charts.

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
Class B standard on V9xx models

Agency Approvals:
Standard valves with NEMA 4X or explosion proof solenoid enclosures are UL Listed and CSA Certified. (Consult Factory for Approvals on Models V933, V935 and V955).

SIL-3 Capable (Models 73417xx, 74417xx, 73477xx). See certificate on page F20 in the Technical section of this catalog. For additional details, consult factory.

Maximum Ambient Temperature
167°F

Minimum Ambient Temperature
-40°F for models 73417xx, 74417xx and 73477xx. Dew point must be more than 7°F below ambient.

Applications:

- Pilot valve actuation of control valves
- Oil and gas including off-shore
- Double acting cylinder control
- Air vises and Air motors
- Damper control

Please refer to page C15 for details.

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4/2, 4-Way 2 Position Single Solenoid - Brass*

Port Size NPT	Orifice Size in.	Flow Factor Cv**	Operating Pressure Differential (MOPD) PSI		Watt	Max. Media Temp. °F	Seal	Pressure Vessel Number	Pressure Vessel Number with Metering	Pressure Vessel Number with Manual Operator	Reference	
			Min.	Air, Inert Gas, Water & light oil							Coil	Valve
AC TECHNICAL SPECIFICATIONS (Available ONLY in AC)												
1/4	3/16	0.75	0	125	24	160	NBR	71417BN2SN00	71417BN2SNR1	71417BN2SNM0	10	C9
3/8	3/16	0.75	0	125	24	160	NBR	71417BN3SN00	71417BN3SNR1	71417BN3SNM0	10	C9

***Minimum ambient temperature: -40°F (-40°C). Dew point must be more than 7° F below ambient temperature.**
**** Cv=0.45 with built-in metering control (Digits 11 and 12 are R1)**

4/2, 4-Way 2 Position Dual Solenoid - Brass*

Port Size NPT	Orifice Size in.	Flow Factor Cv**	Operating Pressure Differential (MOPD) PSI		Watt	Max. Media Temp. °F	Seal	Pressure Vessel Number	Pressure Vessel Number with Metering	Pressure Vessel Number with Manual Operator	Reference	
			Min.	Air, Inert Gas, Water & light oil							Coil	Valve
AC TECHNICAL SPECIFICATIONS												
1/4	3/16	0.75	0	125	24	160	NBR	71477BN2SN00	71477BN2SNR1	-	10	C9
3/8	3/16	0.75	0	125	24	160	NBR	71477BN3SN00	71477BN3SNR1	-	10	C9

*** Minimum ambient temperature: -40°F (-40°C). Dew point must be more than 7° F below ambient temperature.**
**** Cv=0.45 with built-in metering control (Digits 11 and 12 are R1)**

4/2, 4-Way 2 Position Single Solenoid - Brass

Port Size NPT	Orifice Size in.		Flow Factor Cv	Operating Pressure Differential PSI				Watt	Max. Fluid Temp. °F	Seal	Pressure Vessel	Reference	
	In	Exh.		Min.	Air, Inert Gas	Water	Light Oil (300 SSU)					Coil	Valve
AC TECHNICAL SPECIFICATIONS													
1/4	1/16	1.59	0.09	10	150	150	150	11	180	NBR	04F48S2106ACF	4	C8
DC TECHNICAL SPECIFICATIONS													
1/4	1/16	1.59	0.09	10	100	100	100	11.5	104	NBR	04F48S2106A3F	6	C8

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4-Way Direct Acting Normally Closed - Normally Closed Aluminum

Port Size NPT	Orifice Size in. Valve #1 Normally Closed		Cv Flow Factor Valve #1 Normally Closed		Orifice Size in. Valve #2 Normally Closed		Cv Flow Factor Valve #2 Normally Closed		Operating Pressure Differential PSI		Watt	Max. Fluid Temp. °F	Seal	Pressure Vessel Number without Metering	Pressure Vessel Number with Inlet and Exaust Metering	Reference	
	In	Exh.	In	Exh.	In	Exh.	In	Exh.	Min.	Air, Inert Gas						Coil	Valve
AC/DC TECHNICAL SPECIFICATIONS																	
1/4	3/64	1/16	0.05	0.10	3/64	1/16	0.05	0.10	0	150	10	130	NBR	V933LB2150	V933LEF2150	*	C5
1/4	1/16	3/32	0.10	0.14	1/16	3/32	0.10	0.14	0	100	10	130	NBR	V933LB2100	V933LEF2100	*	C5
1/4	3/32	3/32	0.16	0.14	3/32	3/32	0.16	0.14	0	75	10	130	NBR	V933LB2075	V933LEF2075	*	C5

4-Way Direct Acting Normally Closed - Normally Open Aluminum

Port Size NPT	Orifice Size in. Valve #1 Normally Closed		Cv Flow Factor Valve #1 Normally Closed		Orifice Size in. Valve #2 Normally Closed		Cv Flow Factor Valve #2 Normally Closed		Operating Pressure Differ-ential PSI		Watt	Max. Fluid Temp. °F	Seal	Pressure Vessel Number without Metering	Pressure Vessel Number with Inlet and Exaust Metering	Reference	
	In	Exh.	In	Exh.	In	Exh.	In	Exh.	Min.	Air, Inert Gas						Coil	Valve
AC/DC TECHNICAL SPECIFICATIONS																	
1/4	3/64	1/16	0.05	0.10	3/64	1/16	0.05	0.10	0	150	10	130	NBR	V935LB2150	V935LEF2150	*	C5
1/4	1/16	3/32	0.10	0.14	1/16	1/8	0.08	0.18	0	100	10	130	NBR	V935LB2100	V935LEF2100	*	C5
1/4	3/32	3/32	0.16	0.14	3/32	1/8	0.14	0.21	0	75	10	130	NBR	V935LB2075	V935LEF2075	*	C5

4-Way Direct Acting Normally Open - Normally Open Aluminum

Port Size NPT	Orifice Size in. Valve #1 Normally Closed		Cv Flow Factor Valve #1 Normally Closed		Orifice Size in. Valve #2 Normally Closed		Cv Flow Factor Valve #2 Normally Closed		Operating Pressure Differential PSI		Watt	Max. Fluid Temp. °F	Seal	Pressure Vessel Number without Metering	Pressure Vessel Number with Inlet and Exaust Metering	Reference	
	In	Exh.	In	Exh.	In	Exh.	In	Exh.	Min.	Air, Inert Gas						Coil	Valve
AC/DC TECHNICAL SPECIFICATIONS																	
1/4	3/64	1/16	0.05	0.10	3/64	1/16	0.05	0.10	0	150	10	130	NBR	V955LB2150	V955LEF2150	*	C5
1/4	1/16	1/8	0.08	0.18	1/16	1/8	0.08	0.18	0	100	10	130	NBR	V955LB2100	V955LEF2100	*	C5
1/4	3/32	1/8	0.14	0.18	3/32	1/8	0.14	0.21	0	75	10	130	NBR	V955LB2075	V955LEF2075	*	C5

***Fig. 1**

Voltage	24/60	120/60	240/60	12VDC	24VDC
Coil Code	AB2A7W	AB6A0Z	AB8B6A	DC1A3X	DC2A4Y
Coil Part Number*	V57724F24	V57731F24	V57734F24	V57727F24	V57730F24

*When ordering a replacement coil, use Coil Part Number (not Coil Code)
Select the series V9 pressure vessel number from above and follow with the coil/enclosure number based on voltage from Fig. 1. Example V935LB2150 for 120/60 becomes part number V935LB2150AB6A0Z.

AC Power Consumption Rating	
VA Holding	VA Inrush
17.5	32.5

DC Power Consumption Rating		
12 VDC	24 VDC	120 VDC
0.71	0.35	0.07

5/2, 4-Way 2 Position Single Solenoid - Brass

Port Size NPT	Orifice Size in.	Flow Factor Cv	Operating Pressure Differential (MOPD) PSI		Watt	Max. Media Temp. °F	Seal	Pressure Vessel Number without Manual Override	Pressure Vessel Number with Locking Manual Override	Pressure Vessel Number with Momentary Manual Override	Reference	
			Min.	Air, Inert Gas							Coil	Valve
AC/DC TECHNICAL SPECIFICATIONS												
1/4	11/64	0.55	30	150	10	167	NBR	73417BN2KN00	73417BN2KNM0	73417BN2KN7A	7	C1
1/4	11/64	0.55	30	150	1.5	150	NBR	73417BN2KN00	73417BN2KNM0	73417BN2KN7A	11	C1
1/4	1/4	1.20	30	150	10	167	NBR	73417BN2PN00	73417BN2PNM0	73417BN2PN7A	7	C1
1/4	1/4	1.20	30	150	1.5	150	NBR	73417BN2PN00	73417BN2PNM0	73417BN2PN7A	11	C1
1/4	1/4	1.20	30	150	0.6	150	NBR	73417BN2PN90	-	-	12	C1
1/2	5/8	4.00	30	150	10	167	NBR	73417BN4UN00	73417BN4UNM0	-	7	C10
1/2	5/8	4.00	30	150	1.5	150	NBR	73417BN4UN00	73417BN4UNM0	-	11	C10
1/2	5/8	4.00	30	150	0.6	150	NBR	73417BN4UN90	-	-	12	C10

5/2, 4-Way 2 Position Dual Solenoid - Brass

Port Size NPT	Orifice Size in.	Flow Factor Cv	Operating Pressure Differential (MOPD) PSI		Watt	Max. Media Temp. °F	Seal	Pressure Vessel Number without Manual Override	Pressure Vessel Number with Locking Manual Override	Pressure Vessel Number with Momentary Manual Override	Reference	
			Min.	Air, Inert Gas							Coil	Valve
AC/DC TECHNICAL SPECIFICATIONS												
1/4	11/64	0.55	30	150	10	167	NBR	73477BN2KN00	73477BN2KNM0	73477BN2KN7A	7	C3
1/4	11/64	0.55	30	150	1.5	150	NBR	73477BN2KN00	73477BN2KNM0	73477BN2KN7A	11	C3
1/4	1/4	1.20	30	150	10	167	NBR	73477BN2PN00	73477BN2PNM0	73477BN2PN7A	7	C3
1/4	1/4	1.20	30	150	1.5	150	NBR	73477BN2PN00	73477BN2PNM0	73477BN2PN7A	11	C3
1/4	1/4	1.20	30	150	0.6	150	NBR	73477BN2PN90	-	-	12	C3
1/2	5/8	4.00	30	150	10	167	NBR	73477BN4UN00	73477BN4UNM0	73477BN4UN7A	7	C11
1/2	5/8	4.00	30	150	1.5	150	NBR	73477BN4UN00	73477BN4UNM0	73477BN4UN7A	11	C11
1/2	5/8	4.00	30	150	0.6	150	NBR	73477BN4UN90	-	-	12	C11

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5/2, 4-Way 2 Position Single Solenoid - Brass External Pilot*

Port Size NPT	Orifice Size in.	Flow Factor Cv	Operating Pressure Differential (MOPD) PSI		Watt	Max. Media Temp. °F	Seal	Pressure Vessel Number without Manual Override	Pressure Vessel Number with Locking Manual Override	Pressure Vessel Number with Momentary Manual Override	Reference	
			Min.	Air, Inert Gas							Coil	Valve
AC/DC TECHNICAL SPECIFICATIONS												
1/4	1/4	1.20	0	150	10	167	NBR	74417BN2PN00	-	-	7	C4
1/4	1/4	1.20	0	150	1.5	150	NBR	74417BN2PN00	-	-	11	C4

* External pilot pressure to operate valve must be 30 - 150 psi.

5/2, 4-Way 2 Position Single Solenoid - 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 without Manual Override	Pressure Vessel Number with Locking Manual Override	Pressure Vessel Number with Momentary Manual Override	Reference	
			Min.	Air, Inert Gas							Coil	Valve
AC/DC TECHNICAL SPECIFICATIONS												
1/4	11/64	0.55	30	150	10	167	NBR	73417VN2KN00	73417VN2KNM0	73417VN2KN7A	7	C1
1/4	11/64	0.55	30	150	1.5	150	NBR	73417VN2KN00	73417VN2KNM0	73417VN2KN7A	11	C1
1/4	11/64	0.55	30	150	0.6	150	NBR	73417VN2KN90	-	-	12	C1
1/4	1/4	1.20	30	150	10	167	NBR	73417VN2PN00	73417VN2PNM0	73417VN2PN7A	7	C1
1/4	1/4	1.20	30	150	1.5	150	NBR	73417VN2PN00	73417VN2PNM0	73417VN2PN7A	11	C1

5/2, 4-Way 2 Position Dual Solenoid - Stainless Steel

Port Size NPT	Orifice Size in.	Flow Factor Cv	Operating Pressure Differential (MOPD) PSI			Max. Media Temp. °F	Seal	Pressure Vessel Number without Manual Override	Pressure Vessel Number with Locking Manual Override	Pressure Vessel Number with Momentary Manual Override	Reference	
			Min.	Air, Inert Gas	Watt						Coil	Valve
AC/DC TECHNICAL SPECIFICATIONS												
1/4	11/64	0.55	30	150	10	167	NBR	73477VN2KN00	73477VN2KNM0	73477VN2KN7A	7	C3
1/4	11/64	0.55	30	150	1.5	150	NBR	73477VN2KN00	73477VN2KNM0	73477VN2KN7A	11	C3
1/4	11/64	0.55	30	150	0.6	150	NBR	73477VN2KN90	-	-	12	C3
1/4	1/4	1.20	30	150	10	167	NBR	73477VN2PN00	73477VN2PNM0	73477VN2PN7A	7	C3
1/4	1/4	1.20	30	150	1.5	150	NBR	73477VN2PN00	73477VN2PNM0	73477VN2PN7A	11	C3

5/2, 4-Way 2 Position Single Solenoid - Stainless Steel - External Pilot*

Port Size NPT	Orifice Size in.	Flow Factor Cv	Operating Pressure Differential (MOPD) PSI		Watt	Max. Media Temp. °F	Seal	Pressure Vessel Number without Manual Override	Pressure Vessel Number with Locking Manual Override	Pressure Vessel Number with Momentary Manual Override	Reference	
			Min.	Air, Inert Gas							Coil	Valve
AC/DC TECHNICAL SPECIFICATIONS												
1/4	11/64	0.55	0	150	10	167	NBR	74417VN2KN00	-	-	7	C4
1/4	11/64	0.55	0	150	1.5	150	NBR	74417VN2KN00	-	-	11	C4
1/4	1/4	1.20	0	150	10	167	NBR	74417VN2PN00	-	-	7	C4
1/4	1/4	1.20	0	150	1.5	150	NBR	74417VN2PN00	-	-	11	C4

* External pilot pressure to operate valve must be 30 - 150 psi.

5/2, 4-Way 2 Position Single Solenoid - Aluminum

Port Size NPT	Orifice Size in.	Flow Factor Cv	Operating Pressure Differential (MOPD) PSI			Max. Media Temp. °F	Seal	Pressure Vessel Number without Manual Override	Pressure Vessel Number with Locking Manual Override	Pressure Vessel Number with Momentary Manual Override	Reference	
			Min.	Air, Inert Gas	Watt						Coil	Valve
AC/DC TECHNICAL SPECIFICATIONS												
1/8	5/32	0.35	15	150	10	167	NBR	-	7341LAN1HNM0	-	7	C6
1/4	1/4	1.00	30	150	10	167	NBR	73419AN2NN00	73419AN2NNM0	-	7	C2

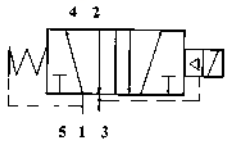
5/2, 4-Way 2 Position Single Solenoid - Zinc Alloy (Epoxy Coated)

Port Size NPT	Orifice Size in.	Flow Factor Cv	Operating Pressure Differential (MOPD) PSI			Max. Media Temp. °F	Seal	Pressure Vessel Number without Manual Override	Pressure Vessel Number with Locking Manual Override	Pressure Vessel Number with Momentary Manual Override	Reference	
			Min.	Air, Inert Gas	Watt						Coil	Valve
AC/DC TECHNICAL SPECIFICATIONS												
1/4	5/16	1.40	15	150	10	167	NBR	-	7341LMN2NNM0	-	7	C7

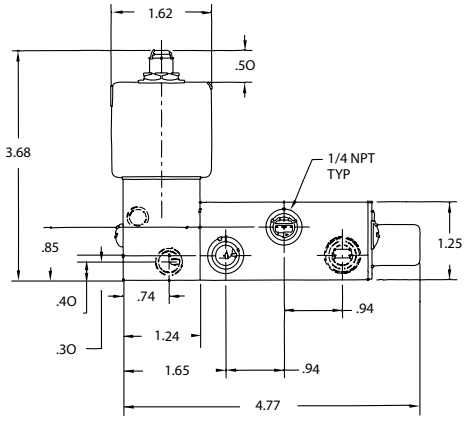
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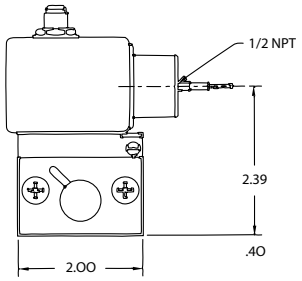
Valve Reference C1

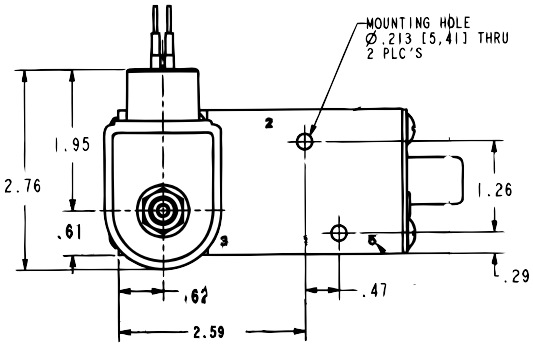


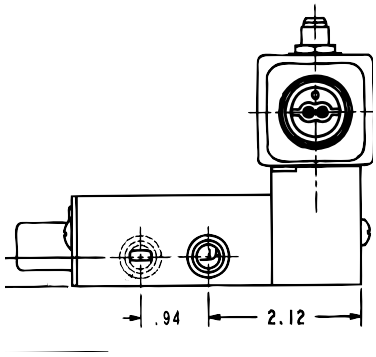


4-Way 2 position single solenoid
Port identification:
Press-1/Cyl - 2,4/ EXH - 3,5





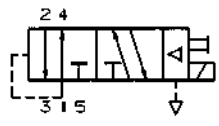




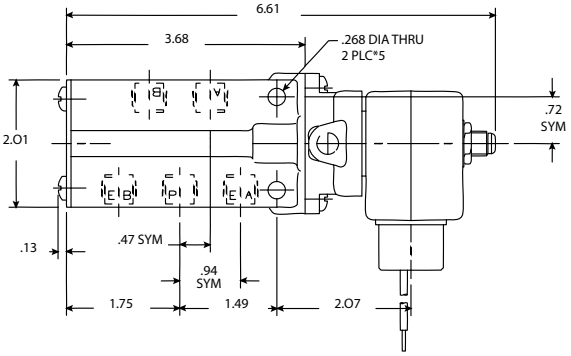
4-Way

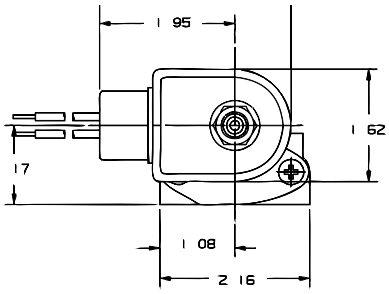
Valve Reference C2

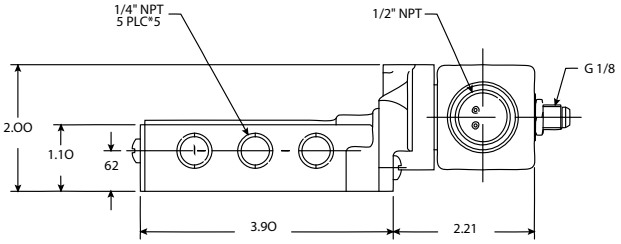




4-Way 2 position single solenoid
Port identification:
Press-P/A-Cylinder/ EA-Exhaust/
B-Cylinder/ EB- Exhaust

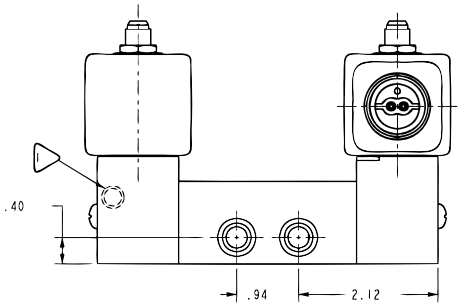




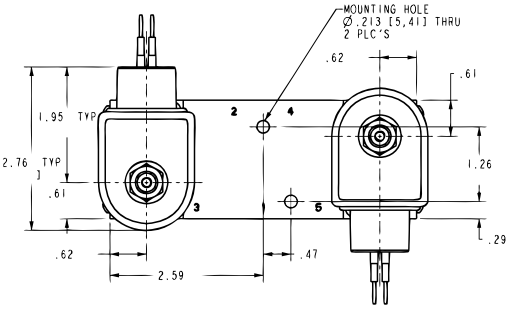


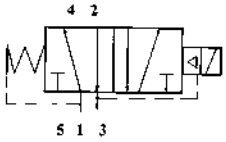
Valve Reference C3



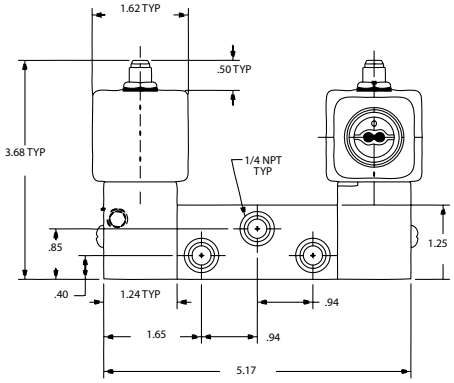


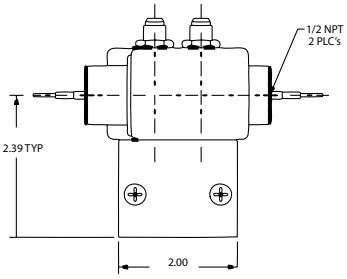
1 Manual override mechanical option





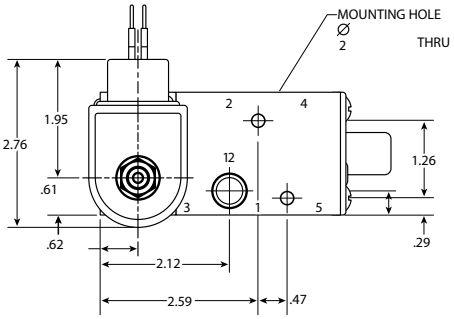
4-Way 2 position dual solenoid
Port Identification:
Press-1/CYL-2,4/EXH - 3,5

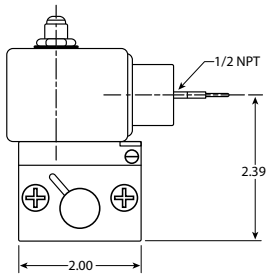


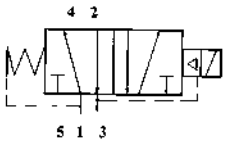


Valve Reference C4



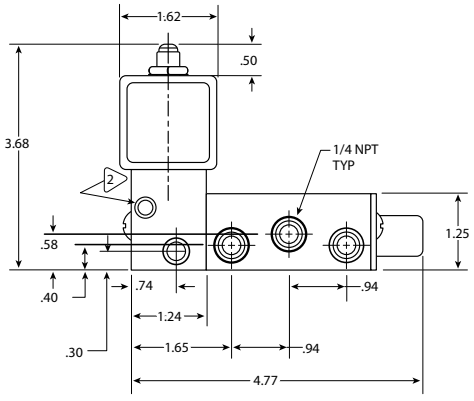




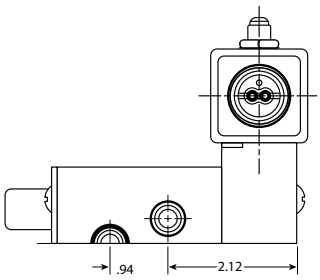


4-Way 2 position solenoid
external pilot

Port Identification:
Press-1/CYL-2,4/EXH - 3,5



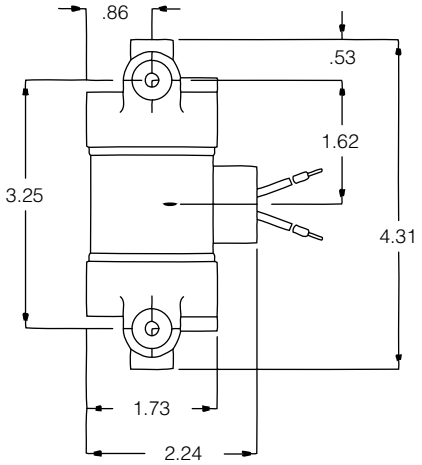
2 Manual override mechanical option

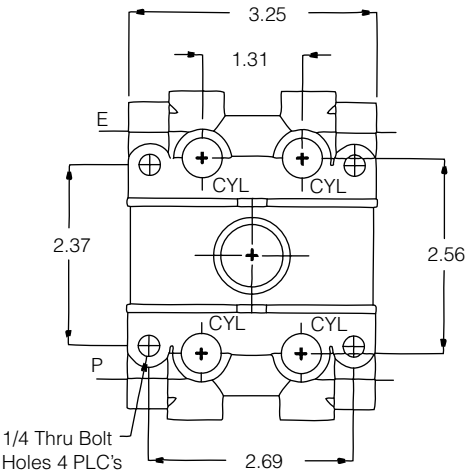


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Valve Reference C5

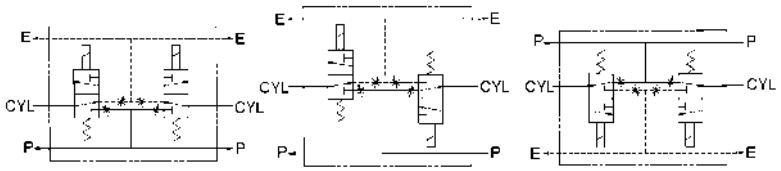






4-way direct acting

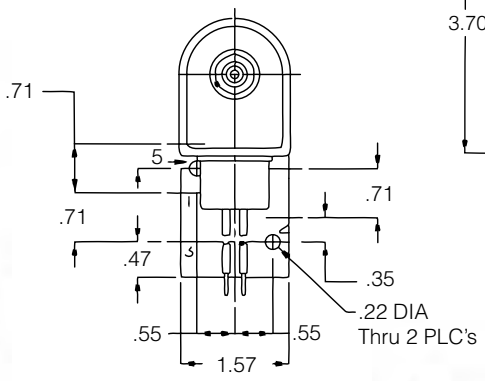
V933xx: Normally Closed-Normally Closed
v935xx: Normally Closed-Normally Open
v955xx: Normally Open-Normally Open

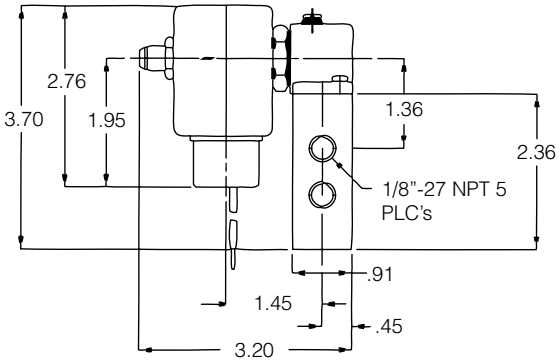


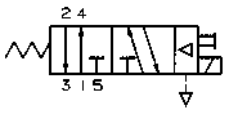
4-Way

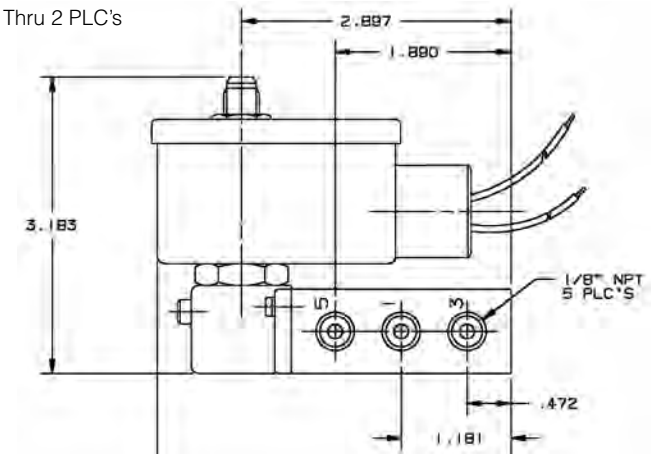
Valve Reference C6







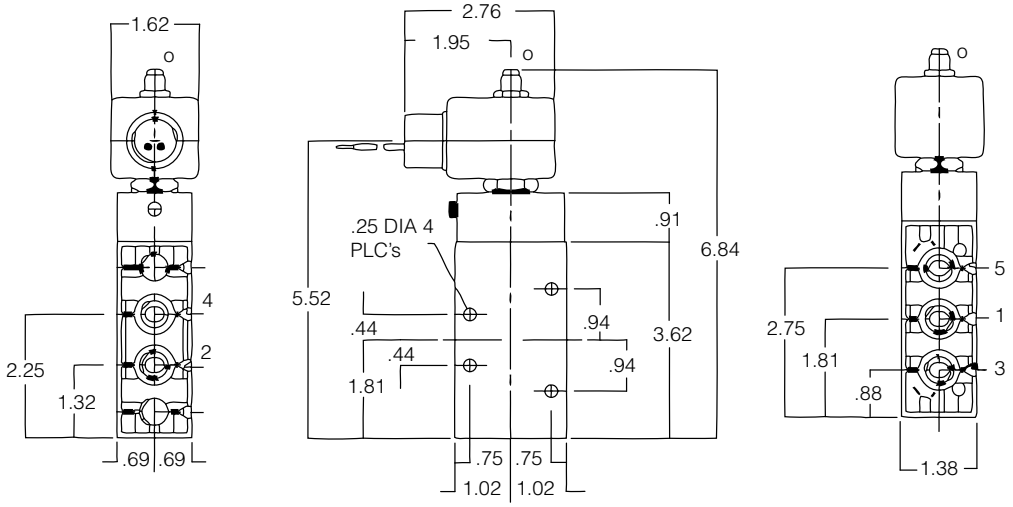


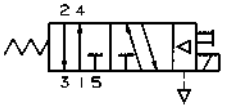


4-way 2 position single solenoid
Port identification:
pressure-1/cyl.A-2/cyl.B-4/exh.A-3/exh. B-5

Valve Reference C7



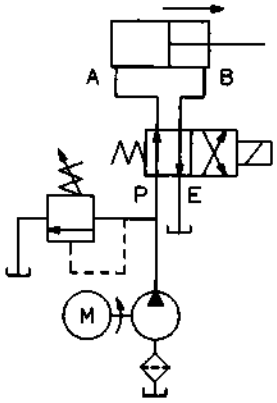


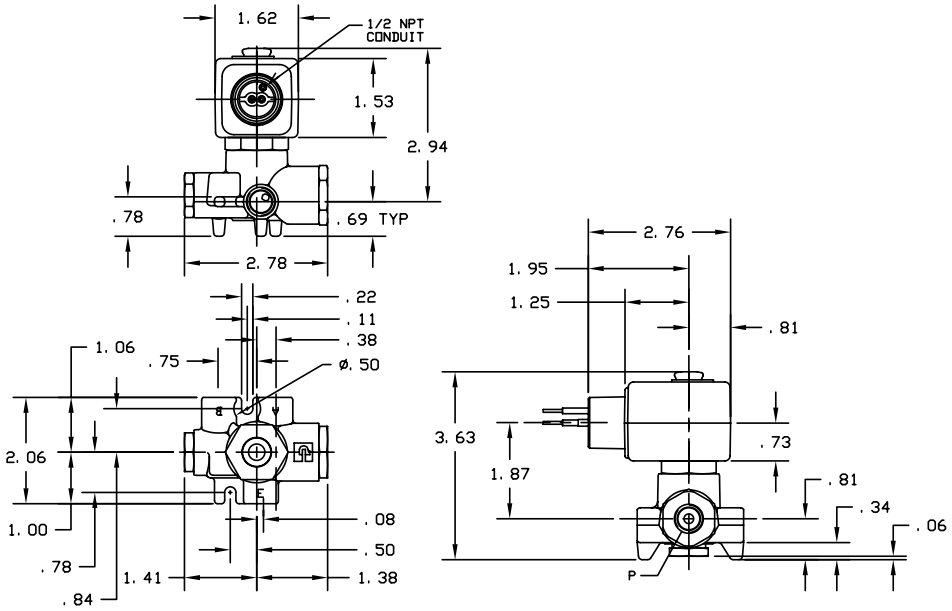


4-Way 2 position single solenoid
Port identification:
pressure-1/cyl.A-2/cyl.B-4/Exh.A-3/Exh. B-5

Valve Reference C8







4-Way 2 position single solenoid
Port identification:

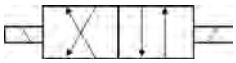
de-energized:	pressure to A B to exhaust
energized:	pressure to B A to exhaust

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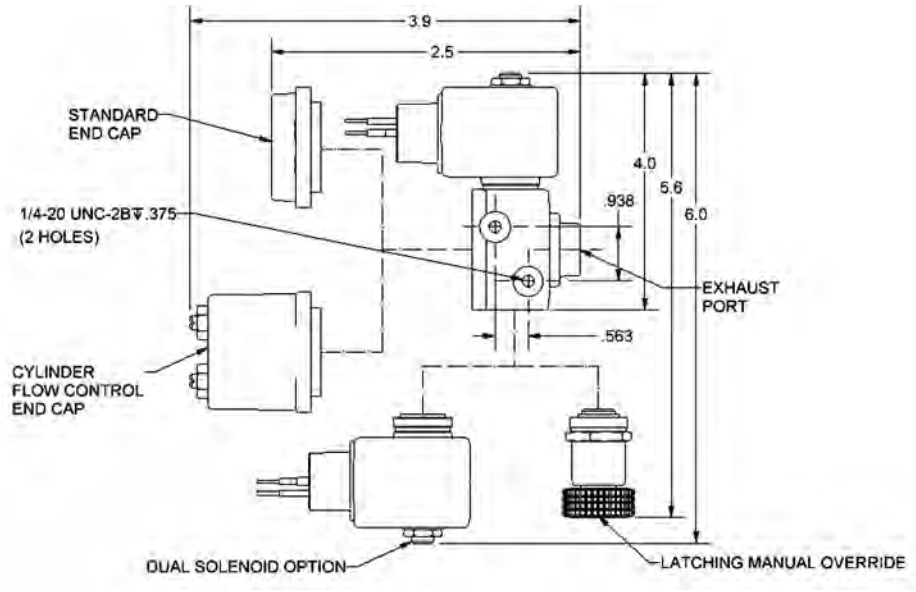
Valve Reference C9



4-Way 2 position single solenoid



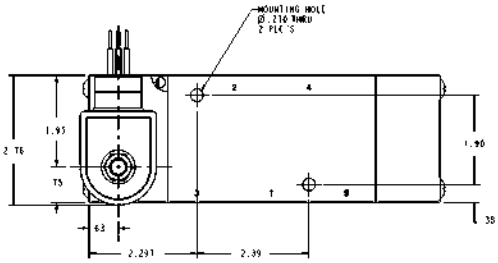
4-Way 2 position dual solenoid
Port Identification:
Press-P/CYL-A,B/EXH - E

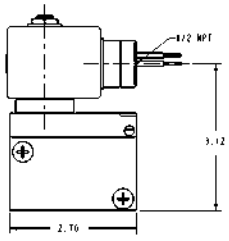


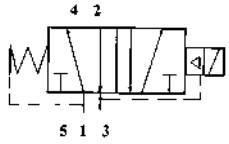
4-Way

Valve Reference C10

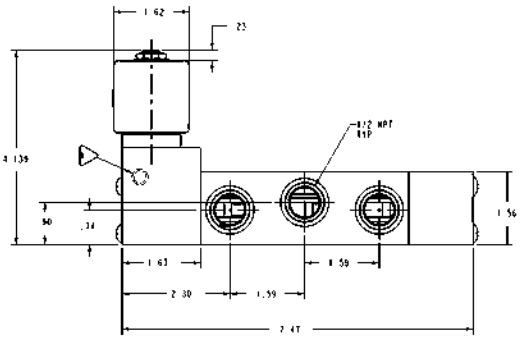


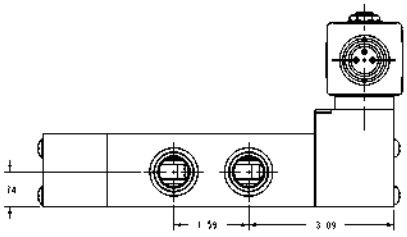






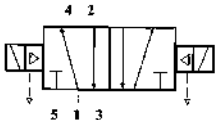
4-Way 2 position single solenoid
Port Identification:
Press-1/CYL-2,4/EXH - 3,5





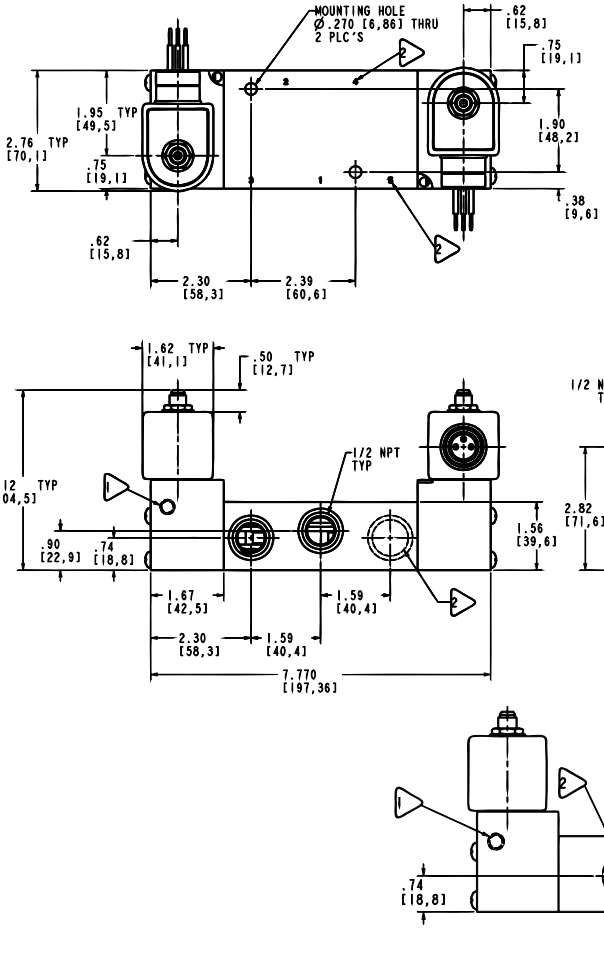
Valve Reference C11





4-Way 2 position dual solenoid

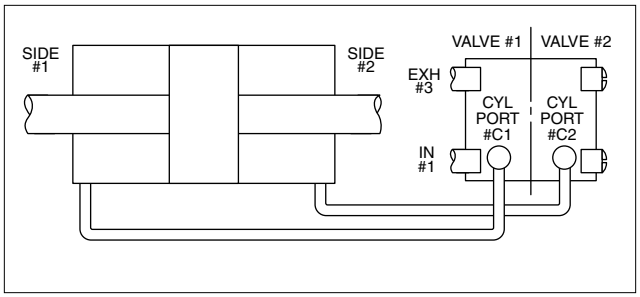
Port Identification:
1-Pressure/2, 4-Cylinder/3, 5-Exhaust



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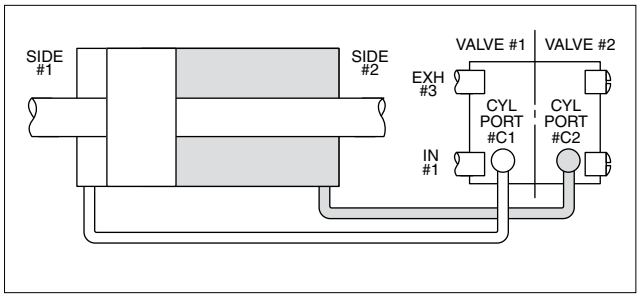
V933 Four-Way Normally Closed - Normally Closed Valves

When de-energized, both inlet ports are closed by the two plungers preventing flow from the common inlet through both of the valves. The cylinder port in each valve is open to the common exhaust, permitting flow from the cylinders to the exhaust. When the coils are energized, both valve plungers rise, opening the inlet orifices, and at the same time closing the orifices in the sleeves. This stops flow from the cylinder ports to the exhaust, and permits flow from the inlet to the cylinder ports.

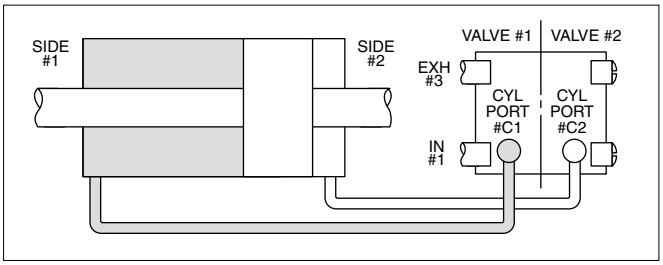


Typical cylinder operation with V933 Valves

Both coils de-energized. The inlet pressure is closed to both sides of a double-acting cylinder. Side #1 and Side #2 of the cylinder are open to exhaust through cylinder ports #C1 and #C2. The piston can be shifted manually.



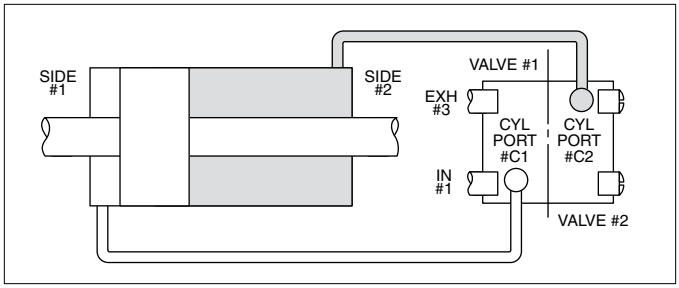
Coil of valve #1 energized; coil of valve #2 de-energized. The inlet pressure is open to side #1 of the double-acting cylinder through cylinder port #C1, the exhaust is closed off by the plunger insert. Side #2 of the cylinder is open to exhaust through cylinder port #C2, the inlet is closed off by the plunger insert. The piston moves to the right.



Coil of valve #1 de-energized; coil of valve #1 energized. The inlet pressure is closed off to side #1 of the double-acting cylinder; the exhaust is open through cylinder port #C1. Side #2 of the cylinder is closed to the exhaust and open to inlet pressure through cylinder port #C2. The piston moves to the left.

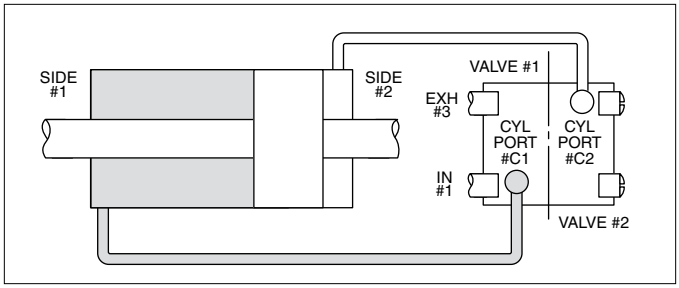
V935 Four-Way Normally Closed - Normally Open Valves

The plungers of the two valves are at opposite positions in both the energized and de-energized conditions - one normally open while the other is normally closed. When de-energized, fluid flows from the inlet of the valve through the inlet port of the normally open valve, through the sleeve, and out the cylinder port of the valve. At the same time, the normally closed valve inlet orifice is closed, but the orifice in the sleeve is opened, permitting flow from its cylinder port to the common exhaust. Therefore, fluid flows from the inlet of the valve to the cylinder port of the normally open valve and from the cylinder port of the normally closed valve to the exhaust. When energized, the two valves reverse in position.



Typical cylinder operation with V935 Valves

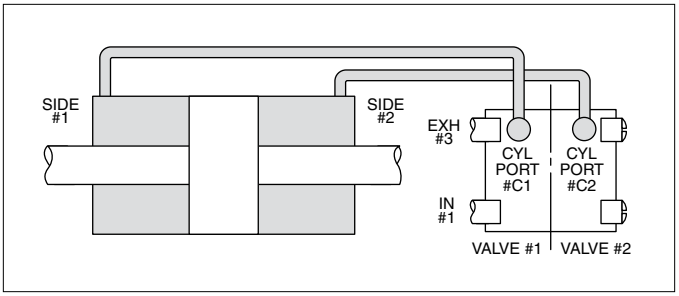
Both coils de-energized. The inlet pressure is open to side #2 of the double-acting cylinder through cylinder port #C2 and the plunger insert closes off the exhaust. Side #1 of the cylinder is open to exhaust through cylinder port #C1 and the inlet pressure is closed off. This causes the piston in the cylinder to move to the left.



Both coils energized. The inlet pressure is open to side #1 of the cylinder through cylinder port #C1 and the exhaust is closed off. Side #2 of the cylinder is open to the exhaust through cylinder port #C2 and the inlet pressure is closed off by the plunger insert. The piston moves to the right.

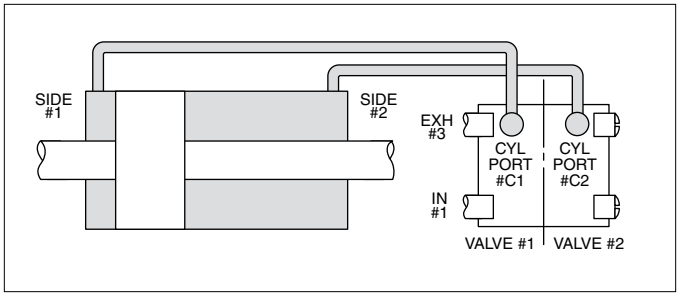
V955 Four-Way Normally Open - Normally Open Valves

Both plungers are in the same position when the coils are de-energized. In this condition, fluid flows through the common inlet of the body, up through the sleeves of both valves, and out the cylinder ports of the valves. Both orifices in the sleeve stops are closed to the exhaust ports by the plunger. In the energized position, both valve plungers operate together to close the inlet ports, stopping flow into the valve. At the same time, the orifices in the sleeves are opened permitting flow from the cylinder ports to the common exhaust port in the body.



Typical cylinder operation with V955 Valves

Both coils de-energized. The inlet pressure is open to both sides of the double-acting cylinder through cylinder port #C2 and the plunger insert closes off the exhaust. Side #1 of the cylinder is open to exhaust through cylinder port #C1 and the inlet pressure is closed off. This causes the piston in the cylinder to move to the left.



Coil of valve #1 energized; coil of valve #2 de-energized. The inlet pressure is closed to side #1 of the double-acting cylinder and open to exhaust through cylinder port #C1. Side #2 of the cylinder is open to the inlet pressure, through cylinder port #C2. The exhaust is closed off by the plunger insert. The piston moves to the left.

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4-Way Direct Acting Materials of Construction**

Product*	Watt	Type	Port Size	Body	Sleeve Tube	Sleeve Stop	Sleeve Flange	"Plunger Blank"	Plunger Spring	Shading Ring	Max. Ambient Temp.
71417BN	24	4/2	1/4 - 3/8	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	140°F
71477BN	24	4/2	1/4 - 3/8	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	140°F
V933	20	NC-NC	1/4	Aluminum	304SS	430FR	430F	430FR	18-8SS	Copper	122°F
V935	20	NC-NO	1/4	Aluminum	304SS	430FR	430F	430FR	18-8SS	Copper	122°F
V955	20	NC-NC	1/4	Aluminum	304SS	430FR	430F	430FR	18-8SS	Copper	122°F

4-Way Pilot Piped Materials of Construction**

Product*	Watt	Type	Port Size	Body	Sleeve Tube	Sleeve Stop	Sleeve Flange	"Plunger Blank"	Plunger Spring	Shading Ring	Max. Ambient Temp.
73417AN	10	5/2	1/4	Alum	304SS	430FR	430F	430FR	18-8SS	Copper	167°F
73417BN	10	5/2	1/4	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	167°F
73417BN	10	5/2	1/2	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	167°F
73417VN	10	5/2	1/4	303	304SS	430FR	430F	430FR	18-8SS	Copper	167°F
73419AN	10	5/2	1/4	Alum	304SS	430FR	430F	430FR	18-8SS	Copper	167°F
7341LAN	10	5/2	1/8	Alum	304SS	430FR	430F	430FR	301SS	Copper	150°F
7341LMN	10	5/2	1/4	Zinc	304SS	430FR	430F	430FR	301SS	Copper	150°F
73477BN	10	5/2	1/4	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	167°F
73477BN	10	5/2	1/4	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	167°F
73477BN	10	5/2	1/2	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	167°F
73477VN	10	5/2	1/4	303	304SS	430FR	430F	430FR	18-8SS	Copper	167°F
74417BN	10	5/2	1/4	Brass	304SS	430FR	430F	430FR	18-8SS	Copper	167°F
04F48S2	11	4/2	1/4	Brass	305SS	430FR	430F	430FR	302SS	Copper	77°F
04F48S2	11.5	4/2	1/4	Brass	305SS	430FR	430F	430FR	302SS	Copper	77°F

* Shows first 4 or 7 digits of 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.

Notes

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