

Prospector Series Poppet Valves 1/4" to 2" Solenoid Pilot Actuated 2/2, 3/2, & 4/2 Inline Valves

- High flow - Cv of 1.2 to 49.5
- Durable, robust construction
- 1/4" to 2" ports (BSPP or PTF threads)
- Wide range of voltages available
- Four functional types: available in 2/2, 3/2, 3/2 multi-directional, and 4/2 configurations



Technical data

Medium:

Filtered and lubricated or non-lubricated compressed air or vacuum.

Operation:

Poppet valve solenoid pilot actuated.

Mounting:

Through-holes in valve body and subbase.

Port Size:

1/4" to 2" PTF, BSPP

Operating Pressure:

Maximum 150 psig (10.3 bar).

Flow Characteristics:

Basic size	Function	Cv*
1/4"	3/2 & 4/2	1.2 - 1.8
1/2"	2/2, 3/2 & 4/2	3.2 - 5.8
1"	2/2, 3/2 & 4/2	10.3 - 17.7
2"	2/2 & 3/2	39.6 - 49.5

Operating Temperature:

-20°F to 120°F**
(-29°C to 49°C)

**Consult Technical Service for use below 34°F (+2°C).

Materials:

Body: Aluminum alloy body, piston, poppets and subbase.

Operators: Zinc or aluminum solenoid pilot operators, stainless steel or steel, reinforced polyester, brass or polyurethane, acetal, copper wire.

Elastomers: Nitrile rubber seals. (Fluorocarbon seals are optional, contact Technical Services.)

Fluids

Filtered and lubricated compressed air or vacuum. Prospector poppet valves with A1, AA, or A4 air operators or with C, D, F, or X series solenoid operators may be used with filtered, non-lubricated compressed air or vacuum, although tests indicate that service life will be reduced. Valves with other operators must not be used in non-lubricated service.

Seal Compatibility

Prospector poppet valve seals are compatible with most good quality O-ring lubricants, including:

DC BR-2+ grease (Dow Corning)

DC 44 grease (Dow Corning)

Magnalube G (Saunders Industries)

Non-detergent mineral based oil such as Mobil DTE light oil.

Poppet valve seals are not compatible with WD-40 or commonly used deicer fluids. Consult factory to verify compatibility of lubricants or fluids not listed above.

Valve Exhaust

The valve exhaust port must not be restricted with anything more than a muffler or equal pipe size (most exhaust ports are larger than the inlet port). Back pressure on the exhaust side of the valve poppets can, under some conditions, result in failure to operate. If exhaust is to be piped away, piping should be installed horizontally or at a downward angle from the valve to provide drainage and minimize sludge formation.

Use of Speed Controls

Speed controls may be installed in the exhaust port on Norgren 3-port/2-position multi-directional poppet valves. Note: On all other poppet valves, speed controls should only be installed in the air line between the valve and the air-operated device and as close as possible to the device.

Vacuum Service

Valves that can be used in vacuum service are identified by a "J" in the 6th position of the model number.

For on-off application of vacuum, use a normally closed 2-port/2-position (2-way) valve. Connect the vacuum to the inlet port. When the valve is actuated, vacuum will be applied to the outlet port.

For selecting alternately between vacuum and pressure, use a normally open 3-port/2-position (3-way) valve. Connect the vacuum to the exhaust port and vent the inlet port. When the valve is actuated, vacuum will be applied to the outlet port.

In addition, 4-port/2-position (4-way) valves can be connected the same way as 3-port/2-position (3-way) valves for selecting alternately between vacuum and pressure or vacuum and vent. That is, connect the vacuum to the exhaust port and pressure or vent to the inlet port. When the valve is actuated, the cylinder ports (outlets) will be alternately switched between vacuum and pressure or vacuum and vent.

Representative response times @ 90 psig (6.2 bar) inlet pressure

Time lapse between solenoid energized and initial rise of outlet pressure

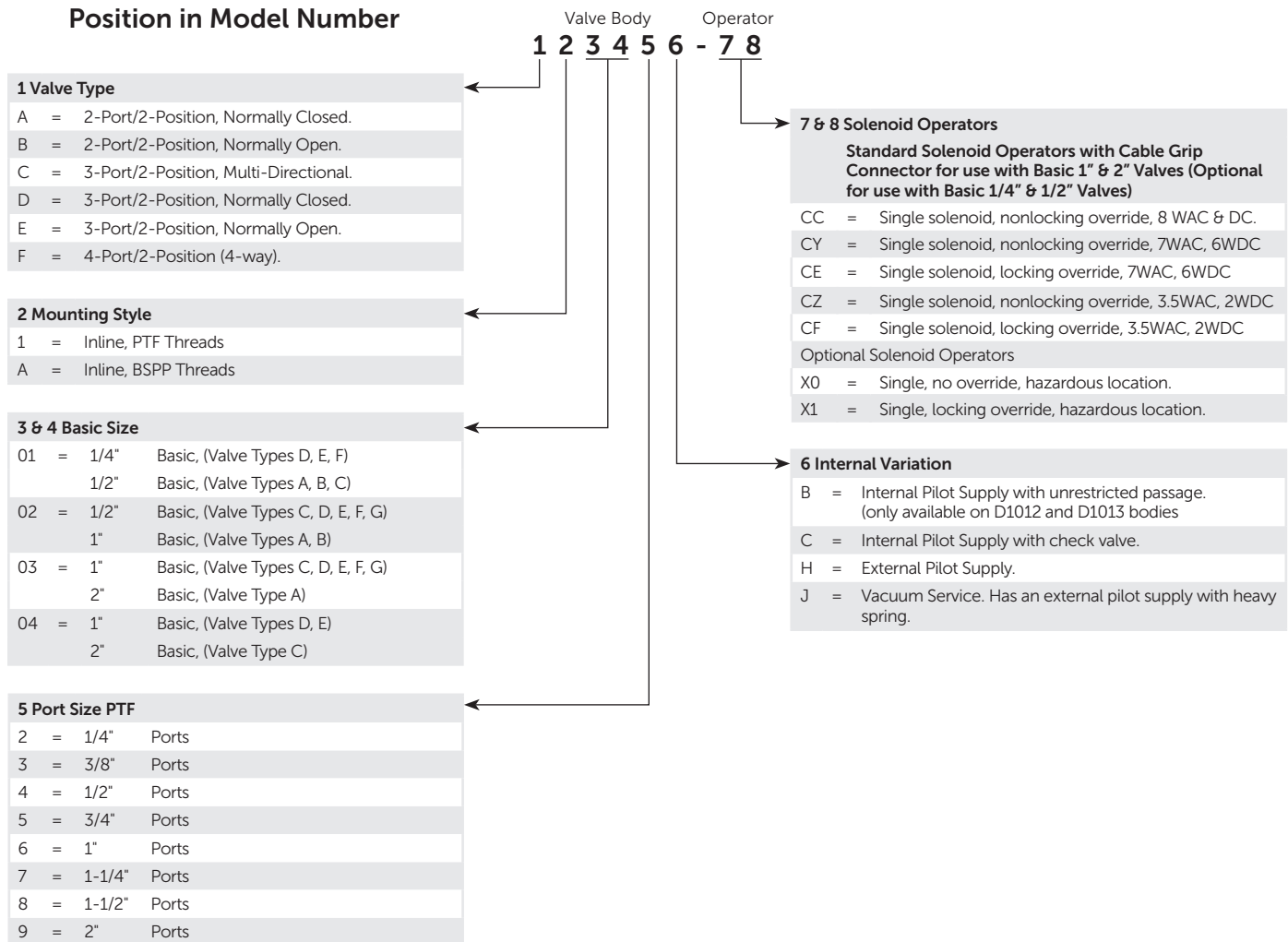
Operator	Basic 1/4" 4-way	Valve body Basic 1/2" 3-way	Basic 1" 3-way
CC	3.4 ms	15.2 ms	32.2 ms
CE	4.0 ms	21.0 ms	42.0 ms
CF	3.9 ms	38.3 ms	82.3 ms

Time lapsed between solenoid energized and outlet pressure rise to 90% of inlet pressure

Operator	Basic 1/4" 4-way	Valve body Basic 1/2" 3-way	Basic 1" 3-way
CC	28.9 ms	19.0 ms	40.3 ms
CE	37.8 ms	25.1 ms	52.4 ms
CF	80.7 ms	45.8 ms	102.8 ms

Use this chart as a product deconfigurator. It is not designed to “build” model numbers.

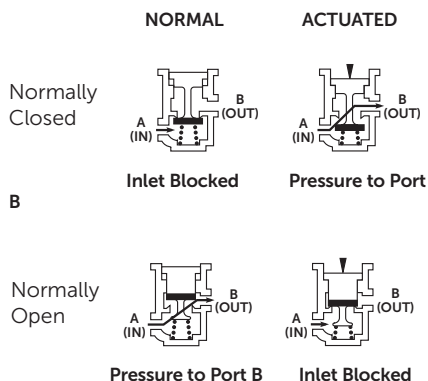
Position in Model Number



2-Port/2-Position

These 2-way valves have an inlet and outlet port and are used as shutoff valves that open or close an air line. They are available in normally closed or normally open models. The normally closed model blocks flow when in its normal position, and permits flow when it is actuated. The normally open model permits flow when in its normal position, and blocks flow when actuated. Typical applications include on-off control of main plant air, air to branch lines, systems and air motors.

Flow Diagrams

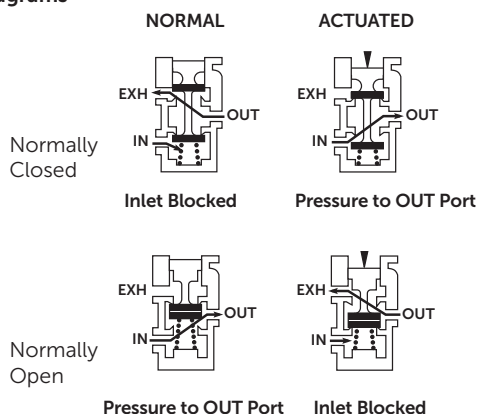


3-Port/2-Position

These 3-way valves have an inlet, outlet, and exhaust port and are typically used to pressurize and then exhaust air from such devices as single-acting cylinders. They are available in normally closed or normally open models. The normally closed model exhausts air from the device when in its normal position, and pressurizes the device when actuated. The normally open model pressurizes the device when in its normal position and exhausts air from the device when actuated.

The normally closed valve is available with two options: a position indicator pin and an air or solenoid momentary signal operator. The indicator pin can be used to operate a switch or other device to provide a signal for a control circuit. The momentary signal operator is used when it is desirable to control the valve with two alternately applied momentary signals (first signal shifts and holds the poppet; the second allows the poppet to return to its normal position).

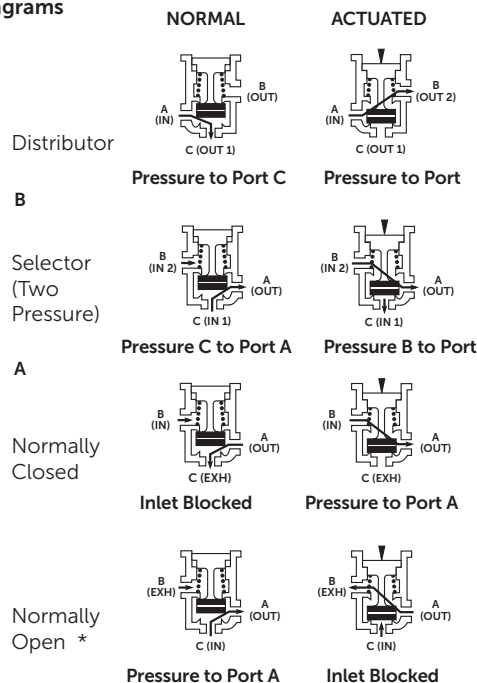
Flow Diagrams



3-Port/2-Position (Multi-Directional)

These 3-way valves can be used in four different ways — as a distributor, directing air first to one port, then to another; as a selector, directing first high, then low pressure air (or vacuum) to the same outlet; as a standard 3-port/2-position normally closed valve; and as a standard 3-port/2-position normally open * valve. Multi-directional valves are the only poppet valves with which speed controls can be installed in the exhaust port.

Flow Diagrams



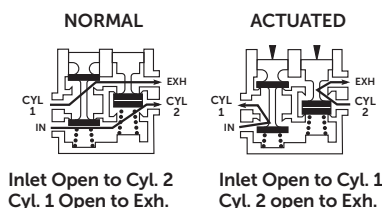
* Normally open valves require an external pilot supply.

4-Port/2-Position (4-Way)

This 4-way valve has a normally closed and a normally open 3-way valve element in a common body. Both elements are actuated simultaneously by a single operator. The valve body has an inlet, exhaust, and two outlet ports. In the normal position, pressurized air is directed to one outlet port and air is exhausted from the second outlet port. In the actuated position, the connections are reversed. Typical applications include control of double acting cylinders and reversible air motors.

This valve is available with an optional air or solenoid momentary signal operator. Momentary signal operators are used when it is desirable to control the valve with two alternately applied momentary signals. The first signal shifts and holds the valve poppets in the actuated position; the second allows the poppets to return to the normal position.

Flow Diagrams with Single and Momentary Signal Operator

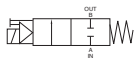


The 4-port/2-position (4-way) valve is also available with an optional air or solenoid twin operator, which allows independent operation of each valve element.

Low Wattage Version

2/2 Normally Closed solenoid to operate/spring return

Internal pilot with locking override* and cable grip connector***

	Model	Port Size	Cv Port A to B	Voltages***	Operating Pressure**	Pilot Pressure**	Repair Kit
	A1012C-CF	1/4" PTF	2.1	24 VDC 2W	30-150 psig	30-150 psig	53474-03
	A1012C-CF1WH	1/4" PTF	2.1	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53474-03
	A1013C-CF	3/8" PTF	3.4	24 VDC 2W	30-150 psig	30-150 psig	53474-03
	A1013C-CF1WH	3/8" PTF	3.4	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53474-03
	A1014C-CF	1/2" PTF	5.3	24 VDC 2W	30-150 psig	30-150 psig	53474-03
	A1014C-CF1WH	1/2" PTF	5.3	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53474-03
	A1015C-CF	3/4" PTF	6.5	24 VDC 2W	30-150 psig	30-150 psig	53474-03
	A1015C-CF1WH	3/4" PTF	6.5	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53474-03
	A1025C-CF	3/4" PTF	10.7	24 VDC 2W	30-150 psig	30-150 psig	53475-01
	A1025C-CF1WH	3/4" PTF	10.7	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53475-01
	A1026C-CF	1" PTF	13.5	24 VDC 2W	30-150 psig	30-150 psig	53475-01
	A1026C-CF1WH	1" PTF	13.5	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53475-01
	A1027C-CF	1-1/4" PTF	16.3	24 VDC 2W	30-150 psig	30-150 psig	53475-01
	A1027C-CF1WH	1-1/4" PTF	16.3	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53475-01
	A1038C-CF	1-1/2" PTF	34	24 VDC 2W	30-150 psig	30-150 psig	53822-01
	A1038C-CF1WH	1-1/2" PTF	34	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53822-01
	A1039C-CF	2" PTF	39.6	24 VDC 2W	30-150 psig	30-150 psig	53822-01
	A1039C-CF1WH	2" PTF	39.6	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53822-01

* For Non-locking override replace the -CF with a -CZ

** Vacuum service replace the 6 digit "C" with a "J", this will then allow the operating pressure down to 29" Hg, with a pilot pressure of 30-150 psig

*** External pilot service replace the 6 digit "C" with a "H", operating pressure will now go to 0, but a minimum of 30 psig and/or greater than supply pressure, required for external pilot supply

*** Additional voltages and connector option refer to below tables

BSP threads replace the 2 digit "1" with an "A"

Note: Additional connectors add the code from table below to the end of the part number

Connector Description	Connector Code	Order Separately
Cable Grip 0 -240VDC/VAC	standard	54934-01
1/2" conduit 0 -240VDC/VAC	1V3	54934-05
Cable Grip with LED 24 VDC/VAC	1V4	54934-08
Cable Grip with LED 120VAC	1VB	54934-02
6' Molded cable 0-240VDC/VAC	1V5	54934-21

Examples:

A1027C-CF1WH with a Cable Grip Connector, change to Cable Grip with LED option, order A1027C-CF1W21VB

A1039C-CF with a Cable Grip Connector, changed to a 6' molded cable option, order A1039C-CF1V5

Note: Additional voltages, add or replace the 1WH in above code with the voltage code from table below in the desired part number

Voltage Description	Voltage Code	Order Separately
12 VDC	1WF	54469-01
24 VDC	standard	54469-02
24V 50/60 Hz	1UD	54469-04
120V 50/60 Hz	1WH	54469-03
220/240V, 50/60 Hz	1WN	54469-08

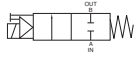
Examples:

A1012C-CF 24 VDC, changed to a 12 VDC option, order A1012C-CF1WF A1025H-CF1WH 120Vac, change to a 220/240V, 50/60Hz option, order A1025H-CF1WN

Standard Wattage Version

2/2 Normally Closed solenoid to operate/spring return

Internal pilot with locking override* and cable grip connector***

	Model	Port Size	Cv Port A to B	Voltages***	Operating Pressure**	Pilot Pressure**	Repair Kit
	A1012C-CE	1/4" PTF	2.1	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53474-03
	A1012C-CE1W2	1/4" PTF	2.1	24 VDC 6W	30-150 psig	30-150 psig	53474-03
	A1013C-CE	3/8" PTF	3.4	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53474-03
	A1013C-CE1W2	3/8" PTF	3.4	24 VDC 6W	30-150 psig	30-150 psig	53474-03
	A1014C-CE	1/2" PTF	5.3	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53474-03
	A1014C-CE1W2	1/2" PTF	5.3	24 VDC 6W	30-150 psig	30-150 psig	53474-03
	A1015C-CE	3/4" PTF	6.5	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53474-03
	A1015C-CE1W2	3/4" PTF	6.5	24 VDC 6W	30-150 psig	30-150 psig	53474-03
	A1025C-CE	3/4" PTF	10.7	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53475-01
	A1025C-CE1W2	3/4" PTF	10.7	24 VDC 6W	30-150 psig	30-150 psig	53475-01
	A1026C-CE	1" PTF	13.5	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53475-01
	A1026C-CE1W2	1" PTF	13.5	24 VDC 6W	30-150 psig	30-150 psig	53475-01
	A1027C-CE	1-1/4" PTF	16.3	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53475-01
	A1027C-CE1W2	1-1/4" PTF	16.3	24 VDC 6W	30-150 psig	30-150 psig	53475-01
	A1038C-CE	1-1/2" PTF	34	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53822-01
	A1038C-CE1W2	1-1/2" PTF	34	24 VDC 6W	30-150 psig	30-150 psig	53822-01
	A1039C-CE	2" PTF	39.6	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53822-01
	A1039C-CE1W2	2" PTF	39.6	24 VDC 6W	30-150 psig	30-150 psig	53822-01

* For Non-locking override replace the -CE with a -CY

** Vacuum service replace the 6 digit "C" with a "J", this will then allow the operating pressure down to 29" Hg, with a pilot pressure of 30-150 psig

** External pilot service replace the 6 digit "C" with a "H", operating pressure will now go to 0, but a minimum of 30 psig and/or greater than supply pressure, required for external pilot supply

*** Additional voltages and connector option refer to below tables

BSPP threads replace the 2 digit "1" with an "A"

Note: Additional connectors add the code from table below to the end of the part number

Connector Description	Connector Code	Order Separately
Cable Grip 0 -240VDC/VAC	standard	54934-01
1/2" conduit 0 -240VDC/VAC	1V3	54934-05
Cable Grip with LED 24 VDC/VAC	1V4	54934-08
Cable Grip with LED 120VAC	1VB	54934-02
6' Molded cable 0-240VDC/VAC	1V5	54934-21

Examples:

A1027C-CE1W2 with a Cable Grip Connector, change to Cable Grip with LED option, order A1027C-CE1W21V4

A1039C-CE with a Cable Grip Connector, changed to a 6' molded cable option, order A1039C-CE1V5

Note: Additional voltages, add or replace the 1W2 in above code with the voltage code from table below in the desired part number

Voltage Description	Voltage Code	Order Separately
12 VDC	1W1	54452-02
24 VDC	1W2	54452-03
24V 50/60 Hz	1W4	54452-05
220V 50/60 Hz	standard	54452-01
220/240V, 50/60 Hz	1W6	54452-07

Examples:

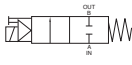
A1012C-CE 120VAC, changed to a 12 VDC option, order A1012C-CE1W1

A1025H-CE1W2 24 VDC, change to a 220/240V, 50/60Hz option, order A1025H-CE1W6

High Wattage Version

2/2 Normally Closed solenoid to operate/spring return

Internal pilot with locking override* and cable grip connector***

	Model	Port Size	Cv Port A to B	Voltages***	Operating Pressure**	Pilot Pressure**	Repair Kit
	A1012C-CC	1/4" PTF	2.1	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53474-03
	A1012C-CC1WA	1/4" PTF	2.1	24 VDC 8W	30-150 psig	30-150 psig	53474-03
	A1013C-CC	3/8" PTF	3.4	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53474-03
	A1013C-CC1WA	3/8" PTF	3.4	24 VDC 8W	30-150 psig	30-150 psig	53474-03
	A1014C-CC	1/2" PTF	5.3	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53474-03
	A1014C-CC1WA	1/2" PTF	5.3	24 VDC 8W	30-150 psig	30-150 psig	53474-03
	A1015C-CC	3/4" PTF	6.5	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53474-03
	A1015C-CC1WA	3/4" PTF	6.5	24 VDC 8W	30-150 psig	30-150 psig	53474-03
	A1025C-CC	3/4" PTF	10.7	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53475-01
	A1025C-CC1WA	3/4" PTF	10.7	24 VDC 8W	30-150 psig	30-150 psig	53475-01
	A1026C-CC	1" PTF	13.5	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53475-01
	A1026C-CC1WA	1" PTF	13.5	24 VDC 8W	30-150 psig	30-150 psig	53475-01
	A1027C-CC	1-1/4" PTF	16.3	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53475-01
	A1027C-CC1WA	1-1/4" PTF	16.3	24 VDC 8W	30-150 psig	30-150 psig	53475-01
	A1038C-CC	1-1/2" PTF	34	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53822-01
	A1038C-CC1WA	1-1/2" PTF	34	24 VDC 8W	30-150 psig	30-150 psig	53822-01
	A1039C-CC	2" PTF	39.6	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53822-01
	A1039C-CC1WA	2" PTF	39.6	24 VDC 8W	30-150 psig	30-150 psig	53822-01

** Vacuum service replace the 6 digit "C" with a "J", this will then allow the operating pressure down to 29" Hg, with a pilot pressure of 30-150 psig

** External pilot service replace the 6 digit "C" with a "H", operating pressure will now go to 0, but a minimum of 30 psig and/or greater than supply pressure, required for external pilot supply

*** Additional voltages and connector option refer to below tables

BSP threads replace the 2 digit "1" with an "A"

Note: Additional connectors add the code from table below to the end of the part number

Connector Description	Connector Code	Order Separately
Cable Grip 0 -240VDC/VAC	standard	54933-05
1/2" conduit 0 -240VDC/VAC	1V2	54933-07
Cable Grip with LED 24 VDC/VAC	1C2	54257-06
Cable Grip with LED 120VAC	1C3	54257-07
6' Molded cable 0-240VDC/VAC	1V1	54933-06

Examples:

A1027C-CC1WA with a Cable Grip Connector, change to Cable Grip with LED option, order A1027C-CC1WA1C2

A1039C-CC with a Cable Grip Connector, changed to a 6' molded cable option, order A1039C-CC1V1

Note: Additional voltages, add or replace the 1WA in above code with the voltage code from table below in the desired part number

Voltage Description	Voltage Code	Order Separately
24 VDC	1WA	40110-A03
24V 50/60 Hz	1WC	40110-A06
120 50/60 Hz	standard	40110-A04
220/240V, 50/60 Hz	1WB	40110-A05

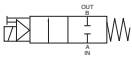
Examples:

A1012C-CC 120VAC, changed to a 24VAC option, order A1012C-CC1WC
A1025H-CC1WA 24 VDC, change to a 220/240V, 50/60Hz option, order A1025H-CC1WB

Hazardous Location Versions

2/2 Normally Closed solenoid to operate/spring return

Internal pilot with locking override*

	Model	Port Size	Cv Port A to B	Override	Voltages***	Operating Pressure**	Pilot Pressure**	Repair Kit
	A1012C-X1	1/4" PTF	2.1	Locking	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53474-03
	A1012C-X11ND	1/4" PTF	2.1	Locking	24 VDC 9.5W	30-150 psig	30-150 psig	53474-03
	A1013C-X1	3/8" PTF	3.4	Locking	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53474-03
	A1013C-X11ND	3/8" PTF	3.4	Locking	24 VDC 9.5W	30-150 psig	30-150 psig	53474-03
	A1014C-X1	1/2" PTF	5.3	Locking	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53474-03
	A1014C-X11ND	1/2" PTF	5.3	Locking	24 VDC 9.5W	30-150 psig	30-150 psig	53474-03
	A1015C-X1	3/4" PTF	6.5	Locking	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53474-03
	A1015C-X11ND	3/4" PTF	6.5	Locking	24 VDC 9.5W	30-150 psig	30-150 psig	53474-03
	A1025C-X1	3/4" PTF	10.7	Locking	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53475-01
	A1025C-X11ND	3/4" PTF	10.7	Locking	24 VDC 9.5W	30-150 psig	30-150 psig	53475-01
	A1026C-X1	1" PTF	13.5	Locking	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53475-01
	A1026C-X11ND	1" PTF	13.5	Locking	24 VDC 9.5W	30-150 psig	30-150 psig	53475-01
	A1027C-X1	1-1/4" PTF	16.3	Locking	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53475-01
	A1027C-X11ND	1-1/4" PTF	16.3	Locking	24 VDC 9.5W	30-150 psig	30-150 psig	53475-01
	A1038C-X1	1-1/2" PTF	34	Locking	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53822-01
	A1038C-X11ND	1-1/2" PTF	34	Locking	24 VDC 9.5W	30-150 psig	30-150 psig	53822-01
	A1039C-X1	2" PTF	39.6	Locking	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53822-01
	A1039C-X11ND	2" PTF	39.6	Locking	24 VDC 9.5W	30-150 psig	30-150 psig	53822-01

* For No override replace the -X1 with a -X0.

** Vacuum service replace the 6 digit "C" with a "J", this will then allow the operating pressure down to 29" Hg, with a pilot pressure of 30-150 psig.

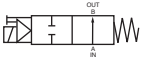
** External pilot service replace the 6 digit "C" with a "H", operating pressure will now go to 0, but a minimum of 30 psig and/or greater than supply pressure, required for external pilot supply.

BSP threads replace the 2 digit "1" with an "A".

Low Wattage Version

2/2 Normally Open solenoid to operate/spring return

Internal pilot with locking override* and cable grip connector***

	Model	Port Size	Cv Port A to B	Voltages***	Operating Pressure**	Pilot Pressure**	Repair Kit
	B1012C-CF	1/4" PTF	2.3	24 VDC 2W	30-150 psig	30-150 psig	53474-03
	B1012C-CF1WH	1/4" PTF	2.3	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53474-03
	B1013C-CF	3/8" PTF	3.8	24 VDC 2W	30-150 psig	30-150 psig	53474-03
	B1013C-CF1WH	3/8" PTF	3.8	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53474-03
	B1014C-CF	1/2" PTF	5.4	24 VDC 2W	30-150 psig	30-150 psig	53474-03
	B1014C-CF1WH	1/2" PTF	5.4	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53474-03
	B1015C-CF	3/4" PTF	6.3	24 VDC 2W	30-150 psig	30-150 psig	53474-03
	B1015C-CF1WH	3/4" PTF	6.3	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53474-03
	B1025C-CF	3/4" PTF	12.0	24 VDC 2W	30-150 psig	30-150 psig	53475-01
	B1025C-CF1WH	3/4" PTF	12.0	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53475-01
	B1026C-CF	1" PTF	15.4	24 VDC 2W	30-150 psig	30-150 psig	53475-01
	B1026C-CF1WH	1" PTF	15.4	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53475-01
	B1027C-CF	1-1/4" PTF	17.9	24 VDC 2W	30-150 psig	30-150 psig	53475-01
	B1027C-CF1WH	1-1/4" PTF	17.9	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53475-01

* For Non-locking override replace the -CF with a -CZ.

** Vacuum service replace the 6 digit "C" with a "J", this will then allow the operating pressure down to 29" Hg, with a pilot pressure of 30-150 psig.

*** External pilot service replace the 6 digit "C" with a "H", operating pressure will now go to 0, but a minimum of 30 psig and/or greater than supply pressure, required for external pilot supply.

*** Additional voltages and connector option refer to below tables.

BSPP threads replace the 2 digit "1" with an "A"

Note: Additional connectors add the code from table below to the end of the part number

Connector Description	Connector Code	Order Separately
Cable Grip 0 -240 VDC/VAC	standard	54934-01
1/2" conduit 0 -240 VDC/VAC	1V3	54934-05
Cable Grip with LED 24 VDC/VAC	1V4	54934-08
Cable Grip with LED 120VAC	1VB	54934-02
6' Molded cable 0-240 VDC/VAC	1V5	54934-21

Examples:

B1027C-CF1WH with a Cable Grip Connector, change to Cable Grip with LED option, order B1027C-CF1WH1VB

B1039C-CF with a Cable Grip Connector, changed to a 6' molded cable option, order B1039C-CF1V5

Note: Additional voltages, add or replace the 1WA in above code with the voltage code from table below in the desired part number

Voltage Description	Voltage Code	Order Separately
12 VDC	1WF	54469-01
24 VDC	standard	54469-02
24V 50/60 Hz	1UD	54469-04
120V 50/60 Hz	1WH	54469-03
220/240V, 50/60 Hz	1WN	54469-08

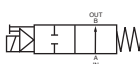
Examples:

B1012C-CF 24 VDC, changed to a 12 VDC option, order B1012C-CF1WF
B1025H-CF1WH 120Vac, change to a 220/240V, 50/60Hz option, order B1025H-CF1WN

Standard Wattage Version

2/2 Normally Open solenoid to operate/spring return

Internal pilot with locking override* and cable grip connector***

	Model	Port Size	Cv Port A to B	Voltages***	Operating Pressure**	Pilot Pressure**	Repair Kit
	B1012C-CE	1/4" PTF	2.3	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53474-03
	B1012C-CE1W2	1/4" PTF	2.3	24 VDC 6W	30-150 psig	30-150 psig	53474-03
	B1013C-CE	3/8" PTF	3.8	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53474-03
	B1013C-CE1W2	3/8" PTF	3.8	24 VDC 6W	30-150 psig	30-150 psig	53474-03
	B1014C-CE	1/2" PTF	5.4	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53474-03
	B1014C-CE1W2	1/2" PTF	5.4	24 VDC 6W	30-150 psig	30-150 psig	53474-03
	B1015C-CE	3/4" PTF	6.3	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53474-03
	B1015C-CE1W2	3/4" PTF	6.3	24 VDC 6W	30-150 psig	30-150 psig	53474-03
	B1025C-CE	3/4" PTF	12.0	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53475-01
	B1025C-CE1W2	3/4" PTF	12.0	24 VDC 6W	30-150 psig	30-150 psig	53475-01
	B1026C-CE	1" PTF	15.4	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53475-01
	B1026C-CE1W2	1" PTF	15.4	24 VDC 6W	30-150 psig	30-150 psig	53475-01
	B1027C-CE	1-1/4" PTF	17.9	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53475-01
	B1027C-CE1W2	1-1/4" PTF	17.9	24 VDC 6W	30-150 psig	30-150 psig	53475-01

* For Non-locking override replace the -CE with a -CY.

** Vacuum service replace the 6 digit "C" with a "J", this will then allow the operating pressure down to 29" Hg, with a pilot pressure of 30-150 psig.

** External pilot service replace the 6 digit "C" with a "H", operating pressure will now go to 0, but a minimum of 30 psig and/or greater than supply pressure, required for external pilot supply.

*** Additional voltages and connector option refer to below tables.

BSPP threads replace the 2 digit "1" with an "A".

Note: Additional connectors add the code from table below to the end of the part number

Connector Description	Connector Code	Order Separately
Cable Grip 0 -240VDC/VAC	standard	54934-01
1/2" conduit 0 -240VDC/VAC	1V3	54934-05
Cable Grip with LED 24 VDC/VAC	1V4	54934-08
Cable Grip with LED 120VAC	1VB	54934-02
6" Molded cable 0-240VDC/VAC	1V5	54934-21

Examples:

B1027C-CE1W2 with a Cable Grip Connector, change to Cable Grip with LED option, order B1027C-CE1W21V4

B1039C-CE with a Cable Grip Connector, changed to a 6" molded cable option, order B1039C-CE1V5

Note: Additional voltages, add or replace the 1W2 in above code with the voltage code from table below in the desired part number

Voltage Description	Voltage Code	Order Separately
12 VDC	1W1	54452-02
24 VDC	1W2	54452-03
24V 50/60 Hz	1W4	54452-05
220V 50/60 Hz	standard	54452-01
220/240V, 50/60 Hz	1W6	54452-07

Examples:

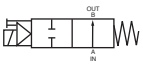
B1012C-CE 120VAC, changed to a 12 VDC option, order B1012C-CE1W1

B1025H-CE1W2 24 VDC, change to a 220/240V, 50/60Hz option, order B1025H-CE1W6

High Wattage Version

2/2 Normally Open solenoid to operate/spring return

Internal pilot with locking override* and cable grip connector***

	Model	Port Size	Cv Port A to B	Voltages***	Operating Pressure**	Pilot Pressure**	Repair Kit
	B1012C-CC	1/4" PTF	2.3	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53474-03
	B1012C-CC1WA	1/4" PTF	2.3	24 VDC 8W	30-150 psig	30-150 psig	53474-03
	B1013C-CC	3/8" PTF	3.8	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53474-03
	B1013C-CC1WA	3/8" PTF	3.8	24 VDC 8W	30-150 psig	30-150 psig	53474-03
	B1014C-CC	1/2" PTF	5.4	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53474-03
	B1014C-CC1WA	1/2" PTF	5.4	24 VDC 8W	30-150 psig	30-150 psig	53474-03
	B1015C-CC	3/4" PTF	6.3	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53474-03
	B1015C-CC1WA	3/4" PTF	6.3	24 VDC 8W	30-150 psig	30-150 psig	53474-03
	B1025C-CC	3/4" PTF	12.0	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53475-01
	B1025C-CC1WA	3/4" PTF	12.0	24 VDC 8W	30-150 psig	30-150 psig	53475-01
	B1026C-CC	1" PTF	15.4	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53475-01
	B1026C-CC1WA	1" PTF	15.4	24 VDC 8W	30-150 psig	30-150 psig	53475-01
	B1027C-CC	1-1/4" PTF	17.9	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53475-01
	B1027C-CC1WA	1-1/4" PTF	17.9	24 VDC 8W	30-150 psig	30-150 psig	53475-01

** Vacuum service replace the 6 digit "C" with a "J", this will then allow the operating pressure down to 29" Hg, with a pilot pressure of 30-150 psig.

** External pilot service replace the 6 digit "C" with a "H", operating pressure will now go to 0, but a minimum of 30 psig and/or greater than supply pressure, required for external pilot supply.

*** Additional voltages and connector option refer to below tables.

BSPB threads replace the 2 digit "1" with an "A".

Note: Additional connectors add the code from table below to the end of the part number

Connector Description	Connector Code	Order Separately
Cable Grip 0 -240VDC/VAC	standard	54933-05
1/2" conduit 0 -240VDC/VAC	1V2	54933-07
Cable Grip with LED 24 VDC/VAC	1C2	54257-06
Cable Grip with LED 120VAC	1C3	54257-07
6" Molded cable 0-240VDC/VAC	1V1	54933-06

Examples:

B1027C-CC1WA with a Cable Grip Connector, change to Cable Grip with LED option, order B1027C-CC1WA1C2

B1039C-CC with a Cable Grip Connector, changed to a 6" molded cable option, order B1039C-CC1V1

Note: Additional voltages, add or replace the 1W2 in above code with the voltage code from table below in the desired part number

Voltage Description	Voltage Code	Order Separately
24 VDC	1WA	40110-A03
24V 50/60 Hz	1WC	40110-A06
120 50/60 Hz	standard	40110-A04
220/240V, 50/60 Hz	1WB	40110-A05

Examples:

B1012C-CC 120VAC, changed to a 24VAC option, order B1012C-CC1WC

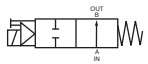
B1025H-CC1WA 24 VDC, change to a 220/240V, 50/60Hz option,

order B1025H-CC1WB

Hazardous Location Versions

2/2 Normally Closed solenoid to operate/spring return

Internal pilot with locking override*

	Model	Port Size	Cv Port A to B	Voltages***	Operating Pressure**	Pilot Pressure**	Repair Kit
	B1012C-X1	1/4" PTF	2.3	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53474-03
	B1012C-X11ND	1/4" PTF	2.3	24 VDC 9.5W	30-150 psig	30-150 psig	53474-03
	B1013C-X1	3/8" PTF	3.8	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53474-03
	B1013C-X11ND	3/8" PTF	3.8	24 VDC 9.5W	30-150 psig	30-150 psig	53474-03
	B1014C-X1	1/2" PTF	5.4	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53474-03
	B1014C-X11ND	1/2" PTF	5.4	24 VDC 9.5W	30-150 psig	30-150 psig	53474-03
	B1015C-X1	3/4" PTF	6.3	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53474-03
	B1015C-X11ND	3/4" PTF	6.3	24 VDC 9.5W	30-150 psig	30-150 psig	53474-03
	B1025C-X1	3/4" PTF	12.0	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53475-01
	B1025C-X11ND	3/4" PTF	12.0	24 VDC 9.5W	30-150 psig	30-150 psig	53475-01
	B1026C-X1	1" PTF	15.4	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53475-01
	B1026C-X11ND	1" PTF	15.4	24 VDC 9.5W	30-150 psig	30-150 psig	53475-01
	B1027C-X1	1-1/4" PTF	17.9	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53475-01
	B1027C-X11ND	1-1/4" PTF	17.9	24 VDC 9.5W	30-150 psig	30-150 psig	53475-01

* For No override replace the -X1 with a -X0.

** Vacuum service replace the 6 digit "C" with a "J", this will then allow the operating pressure down to 29" Hg, with a pilot pressure of 30-150 psig.

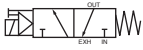
** External pilot service replace the 6 digit "C" with a "H", operating pressure will now go to 0, but a minimum of 30 psig and/or greater than supply pressure, required for external pilot supply.

BSPP threads replace the 2 digit "1" with an "A".

Low Wattage Version

3/2 Normally Closed solenoid to operate/spring return

Internal pilot with locking override* and cable grip connector***

	Model	Port Size	Cv In to Out port	Cv Out to Exh port	Voltages***	Operating Pressure**	Pilot Pressure**	Repair Kit
	D1012B-CF	1/4" PTF	1.5	1.8	24 VDC 2W	30-150 psig	30-150 psig	53473-05
	D1012B-CF1WH	1/4" PTF	1.5	1.8	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53473-05
	D1013B-CF	3/8" PTF	1.7	1.8	24 VDC 2W	30-150 psig	30-150 psig	53473-05
	D1013B-CF1WH	3/8" PTF	1.7	1.8	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53473-05
	D1022C-CF	1/4" PTF	2.7	3.9	24 VDC 2W	30-150 psig	30-150 psig	53474-03
	D1022C-CF1WH	1/4" PTF	2.7	3.9	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53474-03
	D1023C-CF	3/8" PTF	3.6	4.9	24 VDC 2W	30-150 psig	30-150 psig	53474-03
	D1023C-CF1WH	3/8" PTF	3.6	4.9	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53474-03
	D1024C-CF	1/2" PTF	4.6	5.8	24 VDC 2W	30-150 psig	30-150 psig	53474-03
	D1024C-CF1WH	1/2" PTF	4.6	5.8	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53474-03
	D1025C-CF	3/4" PTF	5.4	6.2	24 VDC 2W	30-150 psig	30-150 psig	53474-03
	D1025C-CF1WH	3/4" PTF	5.4	6.2	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53474-03
	D1035C-CF	3/4" PTF	11.2	13.3	24 VDC 2W	30-150 psig	30-150 psig	53475-01
	D1035C-CF1WH	3/4" PTF	11.2	13.3	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53475-01
	D1036C-CF	1" PTF	13.2	14.6	24 VDC 2W	30-150 psig	30-150 psig	53475-01
	D1036C-CF1WH	1" PTF	13.2	14.6	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53475-01
	D1047C-CF	1-1/4" PTF	16.6	18.4	24 VDC 2W	30-150 psig	30-150 psig	53475-01
	D1047C-CF1WH	1-1/4" PTF	16.6	18.4	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53475-01

* For Non-locking override replace the -CF with a -CZ.

** Vacuum service replace the 6 digit "B" or "C" with a "J", this will then allow the operating pressure down to 29" Hg, with a pilot pressure of 30-150 psig.

** External pilot service replace the 6 digit "B" or "C" with a "H", operating pressure will now go to 0, but a minimum of 30 psig and/or greater than supply pressure, required for external pilot supply.

*** Additional voltages and connector option refer to below tables.

BSP threads replace the 2 digit "1" with an "A".

Note: Additional connectors add the code from table below to the end of the part number

Connector Description	Connector Code	Order Separately
Cable Grip 0 -240VDC/VAC	standard	54934-01
1/2" conduit 0 -240VDC/VAC	1V3	54934-05
Cable Grip with LED 24 VDC/VAC	1V4	54934-08
Cable Grip with LED 120VAC	1VB	54934-02
6" Molded cable 0-240VDC/VAC	1V5	54934-21

Examples:

D1024C-CF1WH with a Cable Grip Connector, change to Cable Grip with LED option, order D1024C-CF1W21VB

D1036C-CF with a Cable Grip Connector, changed to a 6" molded cable option, order D1036C-CF1V5

Note: Additional voltages, add or replace the 1WH in above code with the voltage code from table below in the desired part number

Voltage Description	Voltage Code	Order Separately
12 VDC	1WF	54469-01
24 VDC	standard	54469-02
24V 50/60 Hz	1UD	54469-04
120V 50/60 Hz	1WH	54469-03
220/240V, 50/60 Hz	1WN	54469-08

Examples:

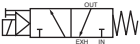
D1012B-CF 24 VDC, changed to a 12 VDC option, order D1012B-CF1WF

D1025H-CF1WH 120Vac, change to a 220/240V, 50/60Hz option, order D1025H-CF1WN

Standard Wattage Version

3/2 Normally Closed solenoid to operate/spring return

Internal pilot with locking override* and cable grip connector***

	Model	Port Size	Cv In to Out port	Cv Out to Exh port	Voltages***	Operating Pressure**	Pilot Pressure**	Repair Kit
	D1012B-CE	1/4" PTF	1.5	1.8	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53473-05
	D1012B-CE1W2	1/4" PTF	1.5	1.8	24 VDC 6W	30-150 psig	30-150 psig	53473-05
	D1013B-CE	3/8" PTF	1.7	1.8	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53473-05
	D1013B-CE1W2	3/8" PTF	1.7	1.8	24 VDC 6W	30-150 psig	30-150 psig	53473-05
	D1022C-CE	1/4" PTF	2.7	3.9	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53474-03
	D1022C-CE1W2	1/4" PTF	2.7	3.9	24 VDC 6W	30-150 psig	30-150 psig	53474-03
	D1023C-CE	3/8" PTF	3.6	4.9	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53474-03
	D1023C-CE1W2	3/8" PTF	3.6	4.9	24 VDC 6W	30-150 psig	30-150 psig	53474-03
	D1024C-CE	1/2" PTF	4.6	5.8	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53474-03
	D1024C-CE1W2	1/2" PTF	4.6	5.8	24 VDC 6W	30-150 psig	30-150 psig	53474-03
	D1025C-CE	3/4" PTF	5.4	6.2	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53474-03
	D1025C-CE1W2	3/4" PTF	5.4	6.2	24 VDC 6W	30-150 psig	30-150 psig	53474-03
	D1035C-CE	3/4" PTF	11.2	13.3	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53475-01
	D1035C-CE1W2	3/4" PTF	11.2	13.3	24 VDC 6W	30-150 psig	30-150 psig	53475-01
	D1036C-CE	1" PTF	13.2	14.6	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53475-01
	D1036C-CE1W2	1" PTF	13.2	14.6	24 VDC 6W	30-150 psig	30-150 psig	53475-01
	D1047C-CE	1-1/4" PTF	16.6	18.4	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53475-01
	D1047C-CE1W2	1-1/4" PTF	16.6	18.4	24 VDC 6W	30-150 psig	30-150 psig	53475-01

* For Non-locking override replace the -CE with a -CY.

** Vacuum service replace the 6 digit "B" or "C" with a "J", this will then allow the operating pressure down to 29" Hg, with a pilot pressure of 30-150 psig

** External pilot service replace the 6 digit "B" or "C" with a "H", operating pressure will now go to 0, but a minimum of 30 psig and/or greater than supply pressure, required for external pilot supply.

*** Additional voltages and connector option refer to below tables.

BSP threads replace the 2 digit "1" with an "A".

Note: Additional connectors add the code from table below to the end of the part number

Connector Description	Connector Code	Order Separately
Cable Grip 0 -240VDC/VAC	standard	54934-01
1/2" conduit 0 -240VDC/VAC	1V3	54934-05
Cable Grip with LED 24 VDC/VAC	1V4	54934-08
Cable Grip with LED 120VAC	1VB	54934-02
6" Molded cable 0-240VDC/VAC	1V5	54934-21

Examples:

D1024C-CE1W2 with a Cable Grip Connector, change to Cable Grip with LED option, order D1024C-CE1W21V4

D1036C-CE with a Cable Grip Connector, changed to a 6" molded cable option, order D1036C-CE1V5

Note: Additional voltages, add or replace the 1W2 in above code with the voltage code from table below in the desired part number

Voltage Description	Voltage Code	Order Separately
12 VDC	1W1	54452-02
24 VDC	1W2	54452-03
24V 50/60 Hz	1W4	54452-05
220V 50/60 Hz	standard	54452-01
220/240V, 50/60 Hz	1W6	54452-07

Examples:

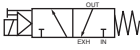
D1012B-CE 120VAC, changed to a 24VAC option, order D1012B-CE1W4

D1025H-CE1W2 24 VDC, change to a 220/240V, 50/60Hz option, order D1025H-CE1W6

High Wattage Version

3/2 Normally Closed solenoid to operate/spring return

Internal pilot with locking override* and cable grip connector***

	Model	Port Size	Cv In to Out port	Cv Out to Exh port	Voltages***	Operating Pressure**	Pilot Pressure**	Repair Kit
	D1012B-CC	1/4" PTF	1.5	1.8	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53473-05
	D1012B-CC1WA	1/4" PTF	1.5	1.8	24 VDC 8W	30-150 psig	30-150 psig	53473-05
	D1013B-CC	3/8" PTF	1.7	1.8	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53473-05
	D1013B-CC1WA	3/8" PTF	1.7	1.8	24 VDC 8W	30-150 psig	30-150 psig	53473-05
	D1022C-CC	1/4" PTF	2.7	3.9	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53474-03
	D1022C-CC1WA	1/4" PTF	2.7	3.9	24 VDC 8W	30-150 psig	30-150 psig	53474-03
	D1023C-CC	3/8" PTF	3.6	4.9	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53474-03
	D1023C-CC1WA	3/8" PTF	3.6	4.9	24 VDC 8W	30-150 psig	30-150 psig	53474-03
	D1024C-CC	1/2" PTF	4.6	5.8	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53474-03
	D1024C-CC1WA	1/2" PTF	4.6	5.8	24 VDC 8W	30-150 psig	30-150 psig	53474-03
	D1025C-CC	3/4" PTF	5.4	6.2	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53474-03
	D1025C-CC1WA	3/4" PTF	5.4	6.2	24 VDC 8W	30-150 psig	30-150 psig	53474-03
	D1035C-CC	3/4" PTF	11.2	13.3	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53475-01
	D1035C-CC1WA	3/4" PTF	11.2	13.3	24 VDC 8W	30-150 psig	30-150 psig	53475-01
	D1036C-CC	1" PTF	13.2	14.6	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53475-01
	D1036C-CC1WA	1" PTF	13.2	14.6	24 VDC 8W	30-150 psig	30-150 psig	53475-01
	D1047C-CC	1-1/4" PTF	16.6	18.4	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53475-01
	D1047C-CC1WA	1-1/4" PTF	16.6	18.4	24 VDC 8W	30-150 psig	30-150 psig	53475-01

** Vacuum service replace the 6 digit "B" or "C" with a "J", this will then allow the operating pressure down to 29" Hg, with a pilot pressure of 30-150 psig.

** External pilot service replace the 6 digit "B" or "C" with a "H", operating pressure will now go to 0, but a minimum of 30 psig and/or greater than supply pressure, required for external pilot supply.

*** Additional voltages and connector option refer to below tables.

BSPP threads replace the 2 digit "1" with an "A".

Note: Additional connectors add the code from table below to the end of the part number

Connector Description	Connector Code	Order Separately
Cable Grip 0 -240VDC/VAC	standard	54933-05
1/2" conduit 0 -240VDC/VAC	1V2	54933-07
Cable Grip with LED 24 VDC/VAC	1C2	54257-06
Cable Grip with LED 120VAC	1C3	54257-07
6" Molded cable 0-240VDC/VAC	1V1	54933-06

Examples:

D1024C-CC1WA with a Cable Grip Connector, change to Cable Grip with LED option, order D1024C-CC1WA1C2

D1036C-CC with a Cable Grip Connector, changed to a 6" molded cable option, order D1036C-CC1V1

Note: Additional voltages, add or replace the 1WA in above code with the voltage code from table below in the desired part number

Voltage Description	Voltage Code	Order Separately
24 VDC	1WA	40110-A03
24V 50/60 Hz	1WC	40110-A06
120 50/60 Hz	standard	40110-A04
220/240V, 50/60 Hz	1WB	40110-A05

Examples:

D1012B-CC 120VAC, changed to a 24VAC option, order D1012B-CC1WC
D1025H-CC1WA 24 VDC, change to a 220/240V, 50/60Hz option, order D1025H-CC1WB

Hazardous Version

3/2 Normally Closed solenoid to operate/spring return

Internal pilot with locking override*

	Model	Port Size	Cv In to Out port	Cv Out to Exh port	Voltages***	Operating Pressure**	Pilot Pressure**	Repair Kit
	D1012B-X1	1/4" PTF	1.5	1.8	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53473-05
	D1012B-X11ND	1/4" PTF	1.5	1.8	24 VDC 9.5W	30-150 psig	30-150 psig	53473-05
	D1013B-X1	3/8" PTF	1.7	1.8	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53473-05
	D1013B-X11ND	3/8" PTF	1.7	1.8	24 VDC 9.5W	30-150 psig	30-150 psig	53473-05
	D1022C-X1	1/4" PTF	2.7	3.9	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53474-03
	D1022C-X11ND	1/4" PTF	2.7	3.9	24 VDC 9.5W	30-150 psig	30-150 psig	53474-03
	D1023C-X1	3/8" PTF	3.6	4.9	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53474-03
	D1023C-X11ND	3/8" PTF	3.6	4.9	24 VDC 9.5W	30-150 psig	30-150 psig	53474-03
	D1024C-X1	1/2" PTF	4.6	5.8	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53474-03
	D1024C-X11ND	1/2" PTF	4.6	5.8	24 VDC 9.5W	30-150 psig	30-150 psig	53474-03
	D1025C-X1	3/4" PTF	5.4	6.2	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53474-03
	D1025C-X11ND	3/4" PTF	5.4	6.2	24 VDC 9.5W	30-150 psig	30-150 psig	53474-03
	D1035C-X1	3/4" PTF	11.2	13.3	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53475-01
	D1035C-X11ND	3/4" PTF	11.2	13.3	24 VDC 9.5W	30-150 psig	30-150 psig	53475-01
	D1036C-X1	1" PTF	13.2	14.6	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53475-01
	D1036C-X11ND	1" PTF	13.2	14.6	24 VDC 9.5W	30-150 psig	30-150 psig	53475-01
	D1047C-X1	1-1/4" PTF	16.6	18.4	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53475-01
	D1047C-X11ND	1-1/4" PTF	16.6	18.4	24 VDC 9.5W	30-150 psig	30-150 psig	53475-01

* For No override replace the -X1 with a -X0.

** Vacuum service replace the 6 digit "B" or "C" with a "J", this will then allow the operating pressure down to 29" Hg, with a pilot pressure of 30-150 psig.

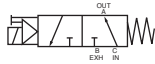
** External pilot service replace the 6 digit "B" or "C" with a "H", operating pressure will now go to 0, but a minimum of 30 psig and/or greater than supply pressure, required for external pilot supply.

BSP threads replace the 2 digit "1" with an "A".

Low Wattage Version

3/2 Normally Open solenoid to operate/spring return

Internal pilot with locking override* and cable grip connector***



	Model	Port Size	Cv In to Out port	Cv Out to Exh port	Voltages***	Operating Pressure**	Pilot Pressure**	Repair Kit
	E1012B-CF	1/4" PTF	1.5	1.8	24 VDC 2W	30-150 psig	30-150 psig	53473-05
	E1012B-CF1WH	1/4" PTF	1.5	1.8	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53473-05
	E1013B-CF	3/8" PTF	1.7	1.8	24 VDC 2W	30-150 psig	30-150 psig	53473-05
	E1013B-CF1WH	3/8" PTF	1.7	1.8	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53473-05
	E1024C-CF	1/2" PTF	4.6	5.8	24 VDC 2W	30-150 psig	30-150 psig	53474-03
	E1024C-CF1WH	1/2" PTF	4.6	5.8	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53474-03
	E1025C-CF	3/4" PTF	5.4	6.2	24 VDC 2W	30-150 psig	30-150 psig	53474-03
	E1025C-CF1WH	3/4" PTF	5.4	6.2	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53474-03
	E1036C-CF	1" PTF	13.2	14.6	24 VDC 2W	30-150 psig	30-150 psig	53475-01
	E1036C-CF1WH	1" PTF	13.2	14.6	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53475-01
	E1047C-CF	1-1/4" PTF	16.6	18.4	24 VDC 2W	30-150 psig	30-150 psig	53475-01
	E1047C-CF1WH	1-1/4" PTF	16.6	18.4	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53475-01

* For Non-locking override replace the -CF with a -CZ.

** External pilot source replace the 6 digit "B" or "C" with a "H", operating pressure will now go to 0, but a minimum of 30 psig and/or greater than supply pressure, required for external pilot supply.

*** Additional voltages and connector option refer to below tables.

Note: Additional connectors add the code from table below to the end of the part number

Connector Description	Connector Code	Order Separately
Cable Grip 0 -240VDC/VAC	standard	54934-01
1/2" conduit 0 -240VDC/VAC	1V3	54934-05
Cable Grip with LED 24 VDC/VAC	1V4	54934-08
Cable Grip with LED 120VAC	1VB	54934-02
6' Molded cable 0-240VDC/VAC	1V5	54934-21

Examples:

E1024C-CF1WH with a Cable Grip Connector, change to Cable Grip with LED option, order E1024C-CF1W21VB

E1036C-CF with a Cable Grip Connector, changed to a 6' molded cable option, order E1036C-CF1V5

Note: Additional voltages, add or replace the 1WH in above code with the voltage code from table below in the desired part number

Voltage Description	Voltage Code	Order Separately
12 VDC	1WF	54469-01
24 VDC	standard	54469-02
24V 50/60 Hz	1UD	54469-04
120V 50/60 Hz	1WH	54469-03
220/240V, 50/60 Hz	1WN	54469-08

Examples:

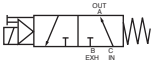
E1012B-CF 24 VDC, changed to a 12 VDC option, order E1012B-CF1WF

E1025H-CF1WH 120Vac, change to a 220/240V, 50/60Hz option, order E1025H-CF1WN

Standard Wattage Version

3/2 Normally Open solenoid to operate/spring return

Internal pilot with locking override* and cable grip connector***

	Model	Port Size	Cv In to Out port	Cv Out to Exh port	Voltages***	Operating Pressure**	Pilot Pressure**	Repair Kit
	E1012B-CE	1/4" PTF	1.5	1.8	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53473-05
	E1012B-CE1W2	1/4" PTF	1.5	1.8	24 VDC 6W	30-150 psig	30-150 psig	53473-05
	E1013B-CE	3/8" PTF	1.7	1.8	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53473-05
	E1013B-CE1W2	3/8" PTF	1.7	1.8	24 VDC 6W	30-150 psig	30-150 psig	53473-05
	E1024C-CE	1/2" PTF	4.6	5.8	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53474-03
	E1024C-CE1W2	1/2" PTF	4.6	5.8	24 VDC 6W	30-150 psig	30-150 psig	53474-03
	E1025C-CE	3/4" PTF	5.4	6.2	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53474-03
	E1025C-CE1W2	3/4" PTF	5.4	6.2	24 VDC 6W	30-150 psig	30-150 psig	53474-03
	E1036C-CE	1" PTF	13.2	14.6	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53475-01
	E1036C-CE1W2	1" PTF	13.2	14.6	24 VDC 6W	30-150 psig	30-150 psig	53475-01
	E1047C-CE	1-1/4" PTF	16.6	18.4	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53475-01
	E1047C-CE1W2	1-1/4" PTF	16.6	18.4	24 VDC 6W	30-150 psig	30-150 psig	53475-01

* For Non-locking override replace the -CE with a -CY.

** External pilot source replace the 6 digit "B" or "C" with a "H", operating pressure will now go to 0, but a minimum of 30 psig and/or greater than supply pressure, required for external pilot supply.

*** Additional voltages and connector option refer to below tables.

Note: Additional connectors add the code from table below to the end of the part number

Connector Description	Connector Code	Order Separately
Cable Grip 0 -240VDC/VAC	standard	54934-01
1/2" conduit 0 -240VDC/VAC	1V3	54934-05
Cable Grip with LED 24 VDC/VAC	1V4	54934-08
Cable Grip with LED 120VAC	1VB	54934-02
6" Molded cable 0-240VDC/VAC	1V5	54934-21

Examples:

E1024C-CE1W2 with a Cable Grip Connector, change to Cable Grip with LED option, order E1024C-CE1W21V4

E1036C-CE with a Cable Grip Connector, changed to a 6" molded cable option, order E1036C-CE1V5

Note: Additional voltages, add or replace the 1W2 in above code with the voltage code from table below in the desired part number

Voltage Description	Voltage Code	Order Separately
12 VDC	1W1	54452-02
24 VDC	1W2	54452-03
24V 50/60 Hz	1W4	54452-05
220V 50/60 Hz	standard	54452-01
220/240V, 50/60 Hz	1W6	54452-07

Examples:

E1012B-CE 120VAC, changed to a 24VAC option, order E1012B-CE1W4

E1025H-CE1W2 24 VDC, change to a 220/240V, 50/60Hz option, order E1025H-CE1W6



High Wattage Version

3/2 Normally Open solenoid to operate/spring return

Internal pilot with locking override* and cable grip connector***

	Model	Port Size	Cv In to Out port	Cv Out to Exh port	Voltages***	Operating Pressure**	Pilot Pressure**	Repair Kit
	E1012B-CC	1/4" PTF	1.5	1.8	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53473-05
	E1012B-CC1WA	1/4" PTF	1.5	1.8	24 VDC 8W	30-150 psig	30-150 psig	53473-05
	E1013B-CC	3/8" PTF	1.7	1.8	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53473-05
	E1013B-CC1WA	3/8" PTF	1.7	1.8	24 VDC 8W	30-150 psig	30-150 psig	53473-05
	E1024C-CC	1/2" PTF	4.1	5.5	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53474-03
	E1024C-CC1WA	1/2" PTF	4.1	5.5	24 VDC 8W	30-150 psig	30-150 psig	53474-03
	E1025C-CC	3/4" PTF	4.9	5.8	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53474-03
	E1025C-CC1WA	3/4" PTF	4.9	5.8	24 VDC 8W	30-150 psig	30-150 psig	53474-03
	E1036C-CC	1" PTF	11.7	13.8	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53475-01
	E1036C-CC1WA	1" PTF	11.7	13.8	24 VDC 8W	30-150 psig	30-150 psig	53475-01
	E1047C-CC	1-1/4" PTF	12	15.5	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53475-01
	E1047C-CC1WA	1-1/4" PTF	12	15.5	24 VDC 8W	30-150 psig	30-150 psig	53475-01

** External pilot service replace the 6 digit "B" or "C" with a "H", operating pressure will now go to 0, but a minimum of 30 psig and/or greater than supply pressure, required for external pilot supply

*** Additional voltages and connector option refer to below tables

Note: Additional connectors add the code from table below to the end of the part number

Connector Description	Connector Code	Order Separately
Cable Grip 0 -240VDC/VAC	standard	54933-05
1/2" conduit 0 -240VDC/VAC	1V2	54933-07
Cable Grip with LED 24 VDC/VAC	1C2	54257-06
Cable Grip with LED 120VAC	1C3	54257-07
6' Molded cable 0-240VDC/VAC	1V1	54933-06

Examples:

E1024C-CC1WA with a Cable Grip Connector, change to Cable Grip with LED option, order E1024C-CC1WA1C2

E1036C-CC with a Cable Grip Connector, changed to a 6' molded cable option, order E1036C-CC1V1

Note: Additional voltages, add or replace the 1WA in above code with the voltage code from table below in the desired part number

Voltage Description	Volatge Code	Order Separately
24 VDC	1WA	40110-A03
24V 50/60 Hz	1WC	40110-A06
120 50/60 Hz	standard	40110-A04
220/240V, 50/60 Hz	1WB	40110-A05

Examples:

E1012B-CC 120VAC, changed to a 24VAC option, order E1012B-CC1WC

E1025C-CC1WA 24 VDC, change to a 220/240V, 50/60Hz option, order E1025H-CC1WB

Hazardous Version

3/2 Normally Open solenoid to operate/spring return

Internal pilot with locking override*

	Model	Port Size	Cv In to Out port	Cv Out to Exh port	Voltages***	Operating Pressure**	Pilot Pressure**	Repair Kit
	E1012B-X1	1/4" PTF	1.5	1.8	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53473-05
	E1012B-X11ND	1/4" PTF	1.5	1.8	24 VDC 9.5W	30-150 psig	30-150 psig	53473-05
	E1013B-X1	3/8" PTF	1.7	1.8	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53473-05
	E1013B-X11ND	3/8" PTF	1.7	1.8	24 VDC 9.5W	30-150 psig	30-150 psig	53473-05
	E1024C-X1	1/2" PTF	4.6	5.8	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53474-03
	E1024C-X11ND	1/2" PTF	4.6	5.8	24 VDC 9.5W	30-150 psig	30-150 psig	53474-03
	E1025C-X1	3/4" PTF	5.4	6.2	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53474-03
	E1025C-X11ND	3/4" PTF	5.4	6.2	24 VDC 9.5W	30-150 psig	30-150 psig	53474-03
	E1036C-X1	1" PTF	13.2	14.6	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53475-01
	E1036C-X11ND	1" PTF	13.2	14.6	24 VDC 9.5W	30-150 psig	30-150 psig	53475-01
	E1047C-X1	1-1/4" PTF	16.6	18.4	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53475-01
	E1047C-X11ND	1-1/4" PTF	16.6	18.4	24 VDC 9.5W	30-150 psig	30-150 psig	53475-01

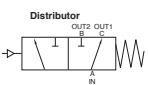
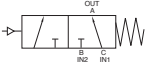
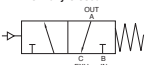
* For No override replace the -X1 with a -X0.

** External pilot service replace the 6 digit "B" or "C" with a "H", operating pressure will now go to 0, but a minimum of 30 psig and/or greater than supply pressure, required for external pilot supply.

Low Wattage Version

3/2 Multi-directional solenoid to operate/spring return

Internal pilot with locking override* and cable grip connector**

	Model	Port Size	Cv A to C port	Cv A to B port	Voltages**	Operating Pressure*	Pilot Pressure*	Repair Kit
	C1012C-CF	1/4" PTF	2.50	2.00	24 VDC 2W	30-150 psig	30-150 psig	53474-03
	C1012C-CF1WH	1/4" PTF	2.50	2.00	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53474-03
	C1013C-CF	3/8" PTF	4.00	2.70	24 VDC 2W	30-150 psig	30-150 psig	53474-03
	C1013C-CF1WH	3/8" PTF	4.00	2.70	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53474-03
	C1014C-CF	1/2" PTF	5.70	3.40	24 VDC 2W	30-150 psig	30-150 psig	53474-03
	C1014C-CF1WH	1/2" PTF	5.70	3.40	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53474-03
	C1025C-CF	3/4" PTF	6.10	4.00	24 VDC 2W	30-150 psig	30-150 psig	53474-03
	C1025C-CF1WH	3/4" PTF	6.10	4.00	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53474-03
	C1035C-CF	3/4" PTF	14.80	10.30	24 VDC 2W	30-150 psig	30-150 psig	53475-01
	C1035C-CF1WH	3/4" PTF	14.80	10.30	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53475-01
	C1036C-CF	1" PTF	17.70	13.20	24 VDC 2W	30-150 psig	30-150 psig	53475-01
	C1036C-CF1WH	1" PTF	17.70	13.20	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53475-01
	C1037C-CF	1-1/4" PTF	18.30	14.00	24 VDC 2W	30-150 psig	30-150 psig	53475-01
	C1037C-CF1WH	1-1/4" PTF	18.30	14.00	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53475-01
	C1048C-CF	1-1/2" PTF	44.80	33.10	24 VDC 2W	30-150 psig	30-150 psig	53822-01
	C1048C-CF1WH	1-1/2" PTF	44.80	33.10	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53822-01
	C1049C-CF	2" PTF	49.50	40.00	24 VDC 2W	30-150 psig	30-150 psig	53822-01
	C1049C-CF1WH	2" PTF	49.50	40.00	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53822-01

* External pilot service replace the 6 digit "C" with a "H", operating pressure will now go to 0, but a minimum of 30 psig and/or greater than supply pressure, required for external pilot supply.

** Additional voltages and connector option refer to below tables.

BSPP threads replace the 2 digit "1" with an "A".

NOTE: If used as normally open valve, an external pilot supply is required.

Note: Additional connectors add the code from table below to the end of the part number

Connector Description	Connector Code	Order Separately
Cable Grip 0 -240VDC/VAC	standard	54934-01
1/2" conduit 0 -240VDC/VAC	1V3	54934-05
Cable Grip with LED 24 VDC/VAC	1V4	54934-08
Cable Grip with LED 120VAC	1VB	54934-02
6' Molded cable 0-240VDC/VAC	1V5	54934-21

Examples:

C1014C-CF1WH with a Cable Grip Connector, change to Cable Grip with LED option, order C1014C-CF1W21VB

C1036C-CF with a Cable Grip Connector, changed to a 6' molded cable option, order C1036C-CF1V5

Note: Additional voltages, add or replace the 1WA in above code with the voltage code from table below in the desired part number

Voltage Description	Voltage Code	Order Separately
12 VDC	1WF	54469-01
24 VDC	standard	54469-02
24V 50/60 Hz	1UD	54469-04
120V 50/60 Hz	1WH	54469-03
220/240V, 50/60 Hz	1WN	54469-08

Examples:

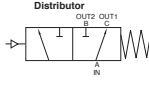
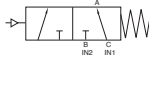
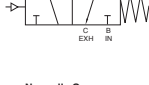
C1012C-CF 24 VDC, changed to a 12 VDC option, order C1012C-CF1WF

C1025H-CF1WH 120Vac, change to a 220/240V, 50/60Hz option, order C1025H-CF1WN

Standard Wattage Version

3/2 Multi-directional solenoid to operate/spring return

Internal pilot with locking override* and cable grip connector**

	Model	Port Size	Cv A to C port	Cv A to B port	Voltages**	Operating Pressure*	Pilot Pressure*	Repair Kit
	C1012C-CE	1/4" PTF	2.50	2.00	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53474-03
	C1012C-CE1W2	1/4" PTF	2.50	2.00	24 VDC 6W	30-150 psig	30-150 psig	53474-03
	C1013C-CE	3/8" PTF	4.00	2.70	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53474-03
	C1013C-CE1W2	3/8" PTF	4.00	2.70	24 VDC 6W	30-150 psig	30-150 psig	53474-03
	C1014C-CE	1/2" PTF	5.70	3.40	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53474-03
	C1014C-CE1W2	1/2" PTF	5.70	3.40	24 VDC 6W	30-150 psig	30-150 psig	53474-03
	C1025C-CE	3/4" PTF	6.10	4.00	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53474-03
	C1025C-CE1W2	3/4" PTF	6.10	4.00	24 VDC 6W	30-150 psig	30-150 psig	53474-03
	C1035C-CE	3/4" PTF	14.80	10.30	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53475-01
	C1035C-CE1W2	3/4" PTF	14.80	10.30	24 VDC 6W	30-150 psig	30-150 psig	53475-01
	C1036C-CE	1" PTF	17.70	13.20	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53475-01
	C1036C-CE1W2	1" PTF	17.70	13.20	24 VDC 6W	30-150 psig	30-150 psig	53475-01
	C1037C-CE	1-1/4" PTF	18.30	14.00	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53475-01
	C1037C-CE1W2	1-1/4" PTF	18.30	14.00	24 VDC 6W	30-150 psig	30-150 psig	53475-01
	C1048C-CE	1-1/2" PTF	44.80	33.10	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53822-01
	C1048C-CE1W2	1-1/2" PTF	44.80	33.10	24 VDC 6W	30-150 psig	30-150 psig	53822-01
	C1049C-CE	2" PTF	49.50	40.00	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53822-01
	C1049C-CE1W2	2" PTF	49.50	40.00	24 VDC 6W	30-150 psig	30-150 psig	53822-01

* External pilot service replace the 6 digit "C" with a "H", operating pressure will now go to 0, but a minimum of 30 psig and/or greater than supply pressure, required for external pilot supply.

** Additional voltages and connector option refer to below tables.

BSPP threads replace the 2 digit "1" with an "A".

NOTE: If used as normally open valve, an external pilot supply is required.

Note: Additional connectors add the code from table below to the end of the part number

Connector Description	Connector Code	Order Separately
Cable Grip 0 -240VDC/VAC	standard	54934-01
1/2" conduit 0 -240VDC/VAC	1V3	54934-05
Cable Grip with LED 24 VDC/VAC	1V4	54934-08
Cable Grip with LED 120VAC	1VB	54934-02
6" Molded cable 0-240VDC/VAC	1V5	54934-21

Examples:

C1014C-CE1W2 with a Cable Grip Connector, change to Cable Grip with LED option, order C1014C-CE1W21C2

C1036C-CE with a Cable Grip Connector, changed to a 6" molded cable option, order C1036C-CE1V1

Note: Additional voltages, add or replace the 1W2 in above code with the voltage code from table below in the desired part number

Voltage Description	Voltage Code	Order Separately
12 VDC	1W1	54452-02
24 VDC	1W2	54452-03
24V 50/60 Hz	1W4	54452-05
220V 50/60 Hz	standard	54452-01
220/240V, 50/60 Hz	1W6	54452-07

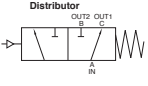
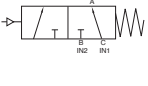
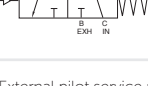
Examples:

C1012C-CE 120VAC, changed to a 24VAC option, order C1012C-CE1WC
C1025H-CE1W2 24 VDC, change to a 220/240V, 50/60Hz option, order C1025H-CE1WB

High Wattage Version

3/2 Multi-directional solenoid to operate/spring return

Internal pilot with locking override* and cable grip connector**

	Model	Port Size	Cv A to C port	Cv A to B port	Voltages**	Operating Pressure*	Pilot Pressure*	Repair Kit
	C1012C-CC	1/4" PTF	2.50	2.00	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53474-03
	C1012C-CC1WA	1/4" PTF	2.50	2.00	24 VDC 8W	30-150 psig	30-150 psig	53474-03
	C1013C-CC	3/8" PTF	4.00	2.70	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53474-03
	C1013C-CC1WA	3/8" PTF	4.00	2.70	24 VDC 8W	30-150 psig	30-150 psig	53474-03
	C1014C-CC	1/2" PTF	5.70	3.40	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53474-03
	C1014C-CC1WA	1/2" PTF	5.70	3.40	24 VDC 8W	30-150 psig	30-150 psig	53474-03
	C1025C-CC	3/4" PTF	6.10	4.00	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53474-03
	C1025C-CC1WA	3/4" PTF	6.10	4.00	24 VDC 8W	30-150 psig	30-150 psig	53474-03
	C1035C-CC	3/4" PTF	14.80	10.30	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53475-01
	C1035C-CC1WA	3/4" PTF	14.80	10.30	24 VDC 8W	30-150 psig	30-150 psig	53475-01
	C1036C-CC	1" PTF	17.70	13.20	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53475-01
	C1036C-CC1WA	1" PTF	17.70	13.20	24 VDC 8W	30-150 psig	30-150 psig	53475-01
	C1037C-CC	1-1/4" PTF	18.30	14.00	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53475-01
	C1037C-CC1WA	1-1/4" PTF	18.30	14.00	24 VDC 8W	30-150 psig	30-150 psig	53475-01
	C1048C-CC	1-1/2" PTF	44.80	33.10	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53822-01
	C1048C-CC1WA	1-1/2" PTF	44.80	33.10	24 VDC 8W	30-150 psig	30-150 psig	53822-01
	C1049C-CC	2" PTF	49.50	40.00	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53822-01
	C1049C-CC1WA	2" PTF	49.50	40.00	24 VDC 8W	30-150 psig	30-150 psig	53822-01

* External pilot service replace the 6 digit "C" with a "H", operating pressure will now go to 0, but a minimum of 30 psig and/or greater than supply pressure, required for external pilot supply.

** Additional voltages and connector option refer to below tables.

BSP threads replace the 2 digit "1" with an "A".

NOTE: If used as normally open valve, an external pilot supply is required.

Note: Additional connectors add the code from table below to the end of the part number

Connector Description	Connector Code	Order Separately
Cable Grip 0 -240VDC/VAC	standard	54933-05
1/2" conduit 0 -240VDC/VAC	1V2	54933-07
Cable Grip with LED 24 VDC/VAC	1C2	54257-06
Cable Grip with LED 120VAC	1C3	54257-07
6' Molded cable 0-240VDC/VAC	1V1	54933-06

Examples:

C1014C-CC1WA with a Cable Grip Connector, change to Cable Grip with LED option, order C1014C-CC1WA1C2

C1036C-CC with a Cable Grip Connector, changed to a 6' molded cable option, order C1036C-CC1V1

Note: Additional voltages, add or replace the 1WA in above code with the voltage code from table below in the desired part number

Voltage Description	Voltage Code	Order Separately
24 VDC	1WA	40110-A03
24V 50/60 Hz	1WC	40110-A06
120 50/60 Hz	standard	40110-A04
220/240V, 50/60 Hz	1WB	40110-A05

Examples:

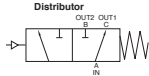
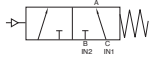
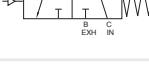
C1012C-CC 120VAC, changed to a 24VAC option, order C1012C-CC1WC

C1025H-CC1WA 24 VDC, change to a 220/240V, 50/60Hz option, order C1025H-CC1WB

Hazardous Version

3/2 Multi-directional solenoid to operate/spring return

Internal pilot with locking override*

	Model	Port Size	Cv A to C port	Cv A to B port	Voltages**	Operating Pressure*	Pilot Pressure*	Repair Kit
	C1012C-X1	1/4" PTF	2.50	2.00	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53474-03
	C1012C-X11ND	1/4" PTF	2.50	2.00	24 VDC 9.5W	30-150 psig	30-150 psig	53474-03
	C1013C-X1	3/8" PTF	4.00	2.70	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53474-03
	C1013C-X11ND	3/8" PTF	4.00	2.70	24 VDC 9.5W	30-150 psig	30-150 psig	53474-03
	C1014C-X1	1/2" PTF	5.70	3.40	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53474-03
	C1014C-X11ND	1/2" PTF	5.70	3.40	24 VDC 9.5W	30-150 psig	30-150 psig	53474-03
	C1025C-X1	3/4" PTF	6.10	4.00	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53474-03
	C1025C-X11ND	3/4" PTF	6.10	4.00	24 VDC 9.5W	30-150 psig	30-150 psig	53474-03
	C1035C-X1	3/4" PTF	14.80	10.30	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53475-01
	C1035C-X11ND	3/4" PTF	14.80	10.30	24 VDC 9.5W	30-150 psig	30-150 psig	53475-01
	C1036C-X1	1" PTF	17.70	13.20	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53475-01
	C1036C-X11ND	1" PTF	17.70	13.20	24 VDC 9.5W	30-150 psig	30-150 psig	53475-01
	C1037C-X1	1-1/4" PTF	18.30	14.00	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53475-01
	C1037C-X11ND	1-1/4" PTF	18.30	14.00	24 VDC 9.5W	30-150 psig	30-150 psig	53475-01
	C1048C-X1	1-1/2" PTF	44.80	33.10	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53822-01
	C1048C-X11ND	1-1/2" PTF	44.80	33.10	24 VDC 9.5W	30-150 psig	30-150 psig	53822-01
	C1049C-X1	2" PTF	49.50	40.00	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53822-01
	C1049C-X11ND	2" PTF	49.50	40.00	24 VDC 9.5W	30-150 psig	30-150 psig	53822-01

* For No override replace the -X1 with a -X0.

** External pilot service replace the 6 digit "C" with a "H", operating pressure will now go to 0, but a minimum of 30 psig and/or greater than supply pressure, required for external pilot supply.

BSPP threads replace the 2 digit "1" with an "A".

NOTE: If used as normally open valve, an external pilot supply is required.

Low Wattage Version

4/2 Solenoid to operate/spring return

Internal pilot with locking override* and cable grip connector***

	Model	Port Size	Cv In to CY2	Cv CY1 to Exh	Cv In to CY1	Cv CY2 to Exh	Voltages***	Operating Pressure**	Pilot Pressure**	Repair Kit
	F1012C-CF	1/4" PTF	1.2	1.6	1.2	1.6	24 VDC 2W	30-150 psig	30-150 psig	53473-05
	F1012C-CF1WH	1/4" PTF	1.2	1.6	1.2	1.6	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53473-05
	F1013C-CF	3/8" PTF	1.4	1.6	1.4	1.6	24 VDC 2W	30-150 psig	30-150 psig	53473-05
	F1013C-CF1WH	3/8" PTF	1.4	1.6	1.4	1.6	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53473-05
	F1023C-CF	3/8" PTF	3	4.5	3.1	4.3	24 VDC 2W	30-150 psig	30-150 psig	53474-06
	F1023C-CF1WH	3/8" PTF	3	4.5	3.1	4.3	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53474-06
	F1024C-CF	1/2" PTF	4	5.4	4.1	5.1	24 VDC 2W	30-150 psig	30-150 psig	53474-06
	F1024C-CF1WH	1/2" PTF	4	5.4	4.1	5.1	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53474-06
	F1025C-CF	3/4" PTF	4.8	5.8	5	5.4	24 VDC 2W	30-150 psig	30-150 psig	53474-06
	F1025C-CF1WH	3/4" PTF	4.8	5.8	5	5.4	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53474-06
	F1035C-CF	3/4" PTF	10.3	13.1	11	12.5	24 VDC 2W	30-150 psig	30-150 psig	53475-06
	F1035C-CF1WH	3/4" PTF	10.3	13.1	11	12.5	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53475-06
	F1036C-CF	1" PTF	11.3	14.3	12.9	13.4	24 VDC 2W	30-150 psig	30-150 psig	53475-06
	F1036C-CF1WH	1" PTF	11.3	14.3	12.9	13.4	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53475-06
	F1037C-CF	1-1/4" PTF	11.6	14.5	14.3	13.7	24 VDC 2W	30-150 psig	30-150 psig	53475-06
	F1037C-CF1WH	1-1/4" PTF	11.6	14.5	14.3	13.7	120 VAC 60 Hz 3.5W	30-150 psig	30-150 psig	53475-06

* For Non-locking override replace the -CF with a -CZ.

** External pilot service replace the 6 digit "C" with a "H", operating pressure will now go to 0, but a minimum of 30 psig and/or greater than supply pressure, required for external pilot supply.

*** Additional voltages and connector option refer to below tables.

BSPP threads replace the 2 digit "1" with an "A".

Note: Additional connectors add the code from table below to the end of the part number

Connector Description	Connector Code	Order Separately
Cable Grip 0 -240VDC/VAC	standard	54934-01
1/2" conduit 0 -240VDC/VAC	1V3	54934-05
Cable Grip with LED 24 VDC/VAC	1V4	54934-08
Cable Grip with LED 120VAC	1VB	54934-02
6" Molded cable 0-240VDC/VAC	1V5	54934-21

Examples:

F1023C-CF1WH with a Cable Grip Connector, change to Cable Grip with LED option, order F1023C-CF1WH1V4

F1037C-CF with a Cable Grip Connector, changed to a 6" molded cable option, order F1037C-CF1V5

Note: Additional voltages, add or replace the 1WH in above code with the voltage code from table below in the desired part number

Voltage Description	Voltage Code	Order Separately
12 VDC	1WF	54469-01
24 VDC	standard	54469-02
24V 50/60 Hz	1UD	54469-04
120V 50/60 Hz	1WH	54469-03
220/240V, 50/60 Hz	1WN	54469-08

Examples:

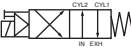
F1012C-CF 24 VDC, changed to a 12 VDC option, order F1012C-CF1WF

F1025H-CF1WH 120Vac, change to a 220/240V, 50/60Hz option, order F1025H-CF1WN

Standard Wattage Version

4/2 Solenoid to operate/spring return

Internal pilot with locking override* and cable grip connector**

	Model	Port Size	Cv In to CY2	Cv CY1 to Exh	Cv In to CY1	Cv CY2 to Exh	Voltages***	Operating Pressure**	Pilot Pressure**	Repair Kit
	F1012C-CE	1/4" PTF	1.2	1.6	1.2	1.6	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53473-05
	F1012C-CE1W2	1/4" PTF	1.2	1.6	1.2	1.6	24 VDC 6W	30-150 psig	30-150 psig	53473-05
	F1013C-CE	3/8" PTF	1.4	1.6	1.4	1.6	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53473-05
	F1013C-CE1W2	3/8" PTF	1.4	1.6	1.4	1.6	24 VDC 6W	30-150 psig	30-150 psig	53473-05
	F1023C-CE	3/8" PTF	3	4.5	3.1	4.3	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53474-06
	F1023C-CE1W2	3/8" PTF	3	4.5	3.1	4.3	24 VDC 6W	30-150 psig	30-150 psig	53474-06
	F1024C-CE	1/2" PTF	4	5.4	4.1	5.1	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53474-06
	F1024C-CE1W2	1/2" PTF	4	5.4	4.1	5.1	24 VDC 6W	30-150 psig	30-150 psig	53474-06
	F1025C-CE	3/4" PTF	4.8	5.8	5	5.4	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53474-06
	F1025C-CE1W2	3/4" PTF	4.8	5.8	5	5.4	24 VDC 6W	30-150 psig	30-150 psig	53474-06
	F1035C-CE	3/4" PTF	10.3	13.1	11	12.5	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53475-06
	F1035C-CE1W2	3/4" PTF	10.3	13.1	11	12.5	24 VDC 6W	30-150 psig	30-150 psig	53475-06
	F1036C-CE	1" PTF	11.3	14.3	12.9	13.4	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53475-06
	F1036C-CE1W2	1" PTF	11.3	14.3	12.9	13.4	24 VDC 6W	30-150 psig	30-150 psig	53475-06
	F1037C-CE	1-1/4" PTF	11.6	14.5	14.3	13.7	120 VAC 60 Hz 7W	30-150 psig	30-150 psig	53475-06
	F1037C-CE1W2	1-1/4" PTF	11.6	14.5	14.3	13.7	24 VDC 6W	30-150 psig	30-150 psig	53475-06

* For Non-locking override replace the -CE with a -CY.

** External pilot service replace the 6 digit "C" with a "H", operating pressure will now go to 0, but a minimum of 30 psig and/or greater than supply pressure, required for external pilot supply.

*** Additional voltages and connector option refer to below tables.

BSPP threads replace the 2 digit "1" with an "A".

Note: Additional connectors add the code from table below to the end of the part number

Connector Description	Connector Code	Order Separately
Cable Grip 0 -240VDC/VAC	standard	54934-01
1/2" conduit 0 -240VDC/VAC	1V3	54934-05
Cable Grip with LED 24 VDC/VAC	1V4	54934-08
Cable Grip with LED 120VAC	1VB	54934-02
6' Molded cable 0-240VDC/VAC	1V5	54934-21

Examples:

F1023C-CE1W2 with a Cable Grip Connector, change to Cable Grip with LED option, order F1023C-CE1W21V4

F1037C-CE with a Cable Grip Connector, changed to a 6' molded cable option, order F1037C-CE1V5

Note: Additional voltages, add or replace the 1W2 in above code with the voltage code from table below in the desired part number

Voltage Description	Voltage Code	Order Separately
12 VDC	1W1	54452-02
24 VDC	1W2	54452-03
24V 50/60 Hz	1W4	54452-05
220V 50/60 Hz	standard	54452-01
220/240V, 50/60 Hz	1W6	54452-07

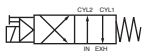
Examples:

F1012C-CE 120VAC, changed to a 12 VDC option, order F1012C-CE1W1
F1025H-CE1W2 24 VDC, change to a 220/240V, 50/60Hz option, order F1025H-CE1W6

High Wattage Version

4/2 Solenoid to operate/spring return

Internal pilot with locking override* and cable grip connector***

	Model	Port Size	Cv In to CY2	Cv CY1 to Exh	Cv In to CY1	Cv CY2 to Exh	Voltages***	Operating Pressure**	Pilot Pressure**	Repair Kit
	F1012C-CC	1/4" PTF	1.2	1.6	1.2	1.6	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53473-05
	F1012C-CC1WA	1/4" PTF	1.2	1.6	1.2	1.6	24 VDC 8W	30-150 psig	30-150 psig	53473-05
	F1013C-CC	3/8" PTF	1.4	1.6	1.4	1.6	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53473-05
	F1013C-CC1WA	3/8" PTF	1.4	1.6	1.4	1.6	24 VDC 8W	30-150 psig	30-150 psig	53473-05
	F1023C-CC	3/8" PTF	3	4.5	3.1	4.3	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53474-06
	F1023C-CC1WA	3/8" PTF	3	4.5	3.1	4.3	24 VDC 8W	30-150 psig	30-150 psig	53474-06
	F1024C-CC	1/2" PTF	4	5.4	4.1	5.1	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53474-06
	F1024C-CC1WA	1/2" PTF	4	5.4	4.1	5.1	24 VDC 8W	30-150 psig	30-150 psig	53474-06
	F1025C-CC	3/4" PTF	4.8	5.8	5	5.4	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53474-06
	F1025C-CC1WA	3/4" PTF	4.8	5.8	5	5.4	24 VDC 8W	30-150 psig	30-150 psig	53474-06
	F1035C-CC	3/4" PTF	10.3	13.1	11	12.5	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53475-06
	F1035C-CC1WA	3/4" PTF	10.3	13.1	11	12.5	24 VDC 8W	30-150 psig	30-150 psig	53475-06
	F1036C-CC	1" PTF	11.3	14.3	12.9	13.4	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53475-06
	F1036C-CC1WA	1" PTF	11.3	14.3	12.9	13.4	24 VDC 8W	30-150 psig	30-150 psig	53475-06
	F1037C-CC	1-1/4" PTF	11.6	14.5	14.3	13.7	120 VAC 60 Hz 8W	30-150 psig	30-150 psig	53475-06
	F1037C-CC1WA	1-1/4" PTF	11.6	14.5	14.3	13.7	24 VDC 8W	30-150 psig	30-150 psig	53475-06

** External pilot service replace the 6 digit "C" with a "H", operating pressure will now go to 0, but a minimum of 30 psig and/or greater than supply pressure, required for external pilot supply.

*** Additional voltages and connector option refer to below tables.

BSP threads replace the 2 digit "1" with an "A".

Note: Additional connectors add the code from table below to the end of the part number

Connector Description	Connector Code	Order Separately
Cable Grip 0 -240VDC/VAC	standard	54933-05
1/2" conduit 0 -240VDC/VAC	1V2	54933-07
Cable Grip with LED 24 VDC/VAC	1C2	54257-06
Cable Grip with LED 120VAC	1C3	54257-07
6' Molded cable 0-240VDC/VAC	1V1	54933-06

Examples:

F1023C-CC1WA with a Cable Grip Connector, change to Cable Grip with LED option, order F1032C-CC1WA1C2

F1037C-CC with a Cable Grip Connector, changed to a 6' molded cable option, order F1037C-CC1V1

Note: Additional voltages, add or replace the 1WA in above code with the voltage code from table below in the desired part number

Voltage Description	Voltage Code	Order Separately
24 VDC	1WA	40110-A03
24V 50/60 Hz	1WC	40110-A06
120 50/60 Hz	standard	40110-A04
220/240V, 50/60 Hz	1WB	40110-A05

Examples:

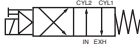
F1012C-CC 120VAC, changed to a 24VAC option, order F1012C-CC1WC

F1025H-CC1WA 24 VDC, change to a 220/240V, 50/60Hz option, order F1025H-CC1WB

Hazardous Version

4/2 Solenoid to operate/spring return

Internal pilot with locking override*

	Model	Port Size	Cv In to CY2	Cv CY1 to Exh	Cv In to CY1	Cv CY2 to Exh	Voltages***	Operating Pressure**	Pilot Pressure**	Repair Kit
	F1012C-X1	1/4" PTF	1.2	1.6	1.2	1.6	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53473-05
	F1012C-X11ND	1/4" PTF	1.2	1.6	1.2	1.6	24 VDC 9.5W	30-150 psig	30-150 psig	53473-05
	F1013C-X1	3/8" PTF	1.4	1.6	1.4	1.6	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53473-05
	F1013C-X11ND	3/8" PTF	1.4	1.6	1.4	1.6	24 VDC 9.5W	30-150 psig	30-150 psig	53473-05
	F1023C-X1	3/8" PTF	3	4.5	3.1	4.3	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53474-06
	F1023C-X11ND	3/8" PTF	3	4.5	3.1	4.3	24 VDC 9.5W	30-150 psig	30-150 psig	53474-06
	F1024C-X1	1/2" PTF	4	5.4	4.1	5.1	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53474-06
	F1024C-X11ND	1/2" PTF	4	5.4	4.1	5.1	24 VDC 9.5W	30-150 psig	30-150 psig	53474-06
	F1025C-X1	3/4" PTF	4.8	5.8	5	5.4	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53474-06
	F1025C-X11ND	3/4" PTF	4.8	5.8	5	5.4	24 VDC 9.5W	30-150 psig	30-150 psig	53474-06
	F1035C-X1	3/4" PTF	10.3	13.1	11	12.5	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53475-06
	F1035C-X11ND	3/4" PTF	10.3	13.1	11	12.5	24 VDC 9.5W	30-150 psig	30-150 psig	53475-06
	F1036C-X1	1" PTF	11.3	14.3	12.9	13.4	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53475-06
	F1036C-X11ND	1" PTF	11.3	14.3	12.9	13.4	24 VDC 9.5W	30-150 psig	30-150 psig	53475-06
	F1037C-X1	1-1/4" PTF	11.6	14.5	14.3	13.7	120 VAC 60 Hz 12W	30-150 psig	30-150 psig	53475-06
	F1037C-X11ND	1-1/4" PTF	11.6	14.5	14.3	13.7	24 VDC 9.5W	30-150 psig	30-150 psig	53475-06

* For No override replace the -X1 with a -X0.

** External pilot service replace the 6 digit "C" with a "H", operating pressure will now go to 0, but a minimum of 30 psig and/or greater than supply pressure, required for external pilot supply.

BSPP threads replace the 2 digit "1" with an "A".