

**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 Function size |                | 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

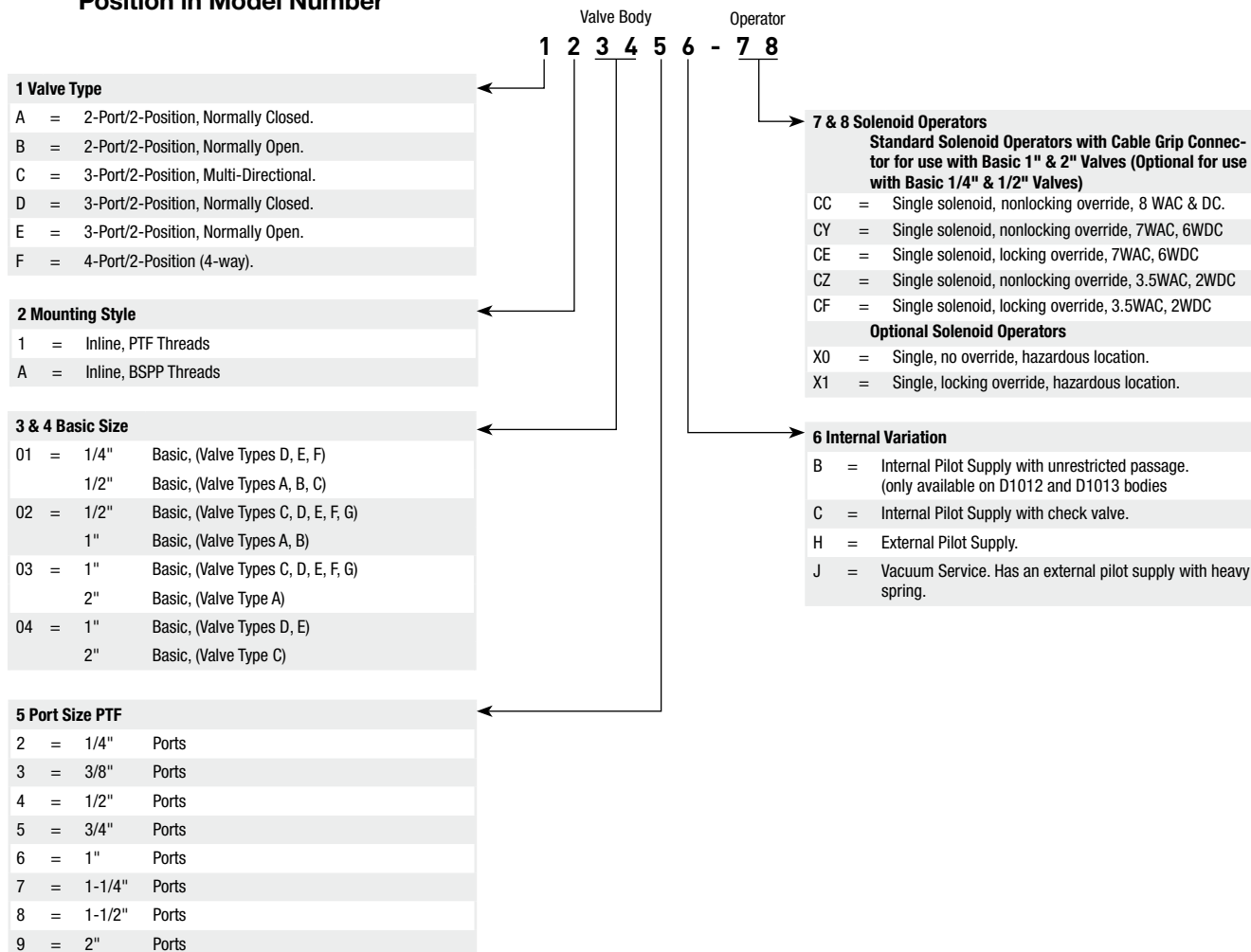
| Operator | Basic 1/4" 4-way | Valve body Basic 1/2" 3-way | Basic 1" 3-way |
|----------|------------------|-----------------------------|----------------|
| CC       | 3.4 ms           | 15.2 ms                     | 32.2 ms        |
| CE       | 4.0 ms           | 21.0 ms                     | 42.0 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.

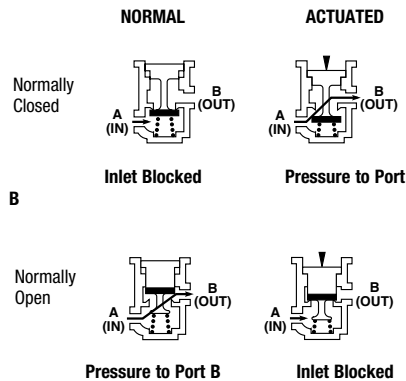
Position in Model Number



## 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

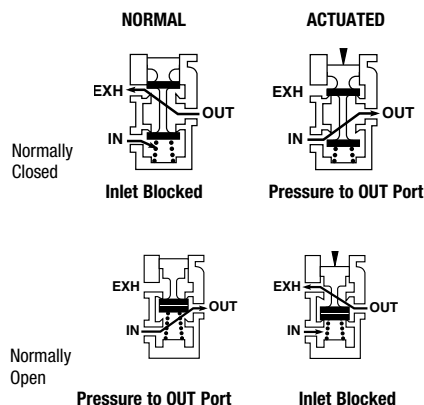


## 3-Port/2-Position

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).

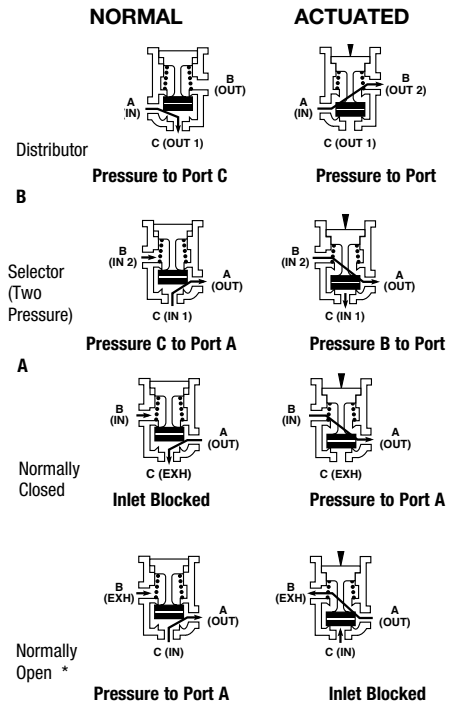
### Flow Diagrams



## 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



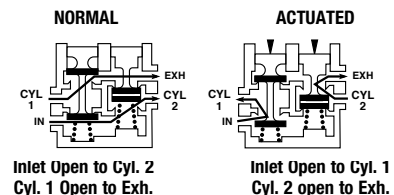
\* Normally open valves require an external pilot supply.

## 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

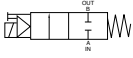


The 4-port/2-position (4-way) valve is also available with an optional air or solenoid twin operator, which allows independent operation of each valve element.

## 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  
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-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         |

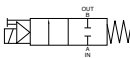
#### Examples:

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:

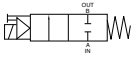
A1012C-CE 120VAC, changed to a 12 VDC option, order A1012C-CE1W1

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

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:

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:

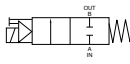
A1012C-CC 120VAC, changed to a 24VAC option, order A1012C-CC1WC

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.

BSPP 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

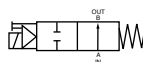


## Standard Wattage Version

### 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:

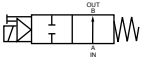
B1012C-CE 120VAC, changed to a 12 VDC option, order B1012C-CE1W1

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.

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:

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 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:

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

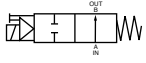
B1025H-CC1WA 24 VDC, change to a 220/240V, 50/60Hz option,

order B1025H-CC1WB

## Hazardous Location Versions

### 2/2 Normally Open 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.

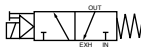
\*\* External pilot service replace the 6 digit "C" with a "H", operating pressure will now go to 0, but a minimum of 30 psig and/or greater than supply pressure, required for external pilot supply.

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.

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:**

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:**

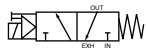
D1012B-CF 24 VDC, changed to a 12 VDC option, order D1012B-CF1WF

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.

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:

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:

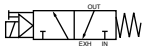
D1012B-CE 120VAC, changed to a 24VAC option, order D1012B-CE1W4

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.

BSPPTthreads 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 | 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        |

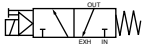
**Examples:**

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.

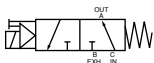
\*\* External pilot service replace the 6 digit "B" or "C" with a "H", operating pressure will now go to 0, but a minimum of 30 psig and/or greater than supply pressure, required for external pilot supply.

BSPP 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 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       | 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 | Volatge 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

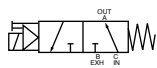


## Standard Wattage Version

### 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 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       | 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:

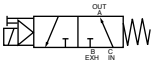
E1012B-CE 120VAC, changed to a 24VAC option, order E1012B-CE1W4

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 | 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        |

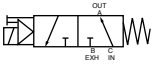
**Examples:**

E1012B-CC 120VAC, changed to a 24VAC option, order E1012B-CC1WA  
 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 |
|--|--------------|------------|----------------|----------------|--------------------|---------------------|-----------------|------------|
|  <p>Distributor</p>     | 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   |
|  <p>Selector</p>        | 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   |
|  <p>Normally Closed</p> | 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   |
|  <p>Normally Open</p>   | 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   |
|  <p>Normally Open</p>   | 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:

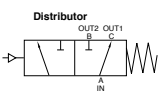
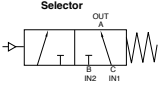
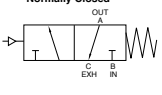
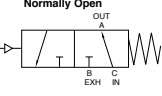
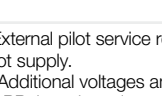
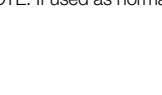
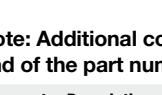
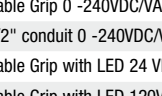
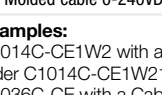
C1012C-CF 24 VDC, changed to a 12 VDC option, order C1012C-CF1WF

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 |
|--|--------------|------------|----------------|----------------|------------------|---------------------|-----------------|------------|
|  <p>Distributor</p>     | 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   |
|  <p>Selector</p>        | 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   |
|  <p>Normally Closed</p> | 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   |
|  <p>Normally Open</p>   | 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   |
|  <p>Normally Open</p>   | 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.

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       | 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

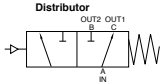
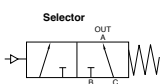
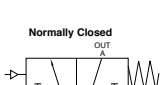

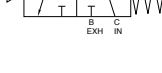
C1025H-CC1WA 24 VDC, change to a 220/240V, 50/60Hz option,

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 |
|--|--------------|------------|----------------|----------------|-------------------|---------------------|-----------------|------------|
|  <p>Distributor</p>     | 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   |
|  <p>Selector</p>        | 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   |
|  <p>Normally Closed</p> | 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   |
|  <p>Normally Open</p>   | 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   |
|  <p>Normally Open</p>   | 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.

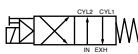
BSPP threads replace the 2 digit "1" with an "A".

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

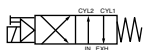
F1025H-CF1WH 120Vac, change to a 220/240V, 50/60Hz option, order F1025H-CF1WN

## 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.

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 |
|--------------------------------|----------------|------------------|
| 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

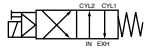
F1025H-CC1WA 24 VDC, change to a 220/240V, 50/60Hz option,

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".