

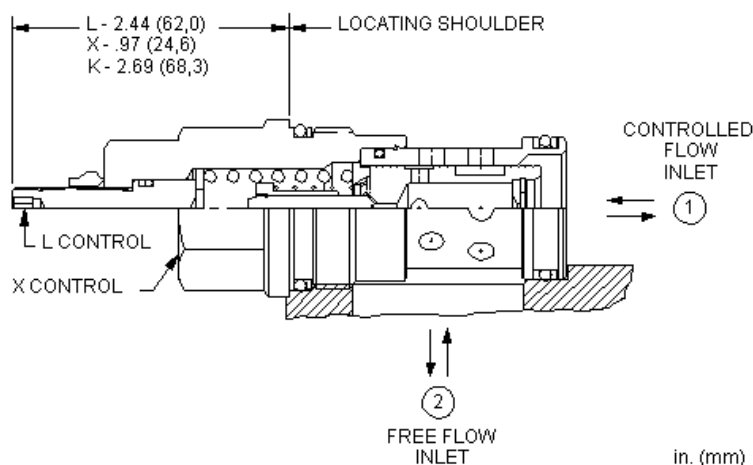
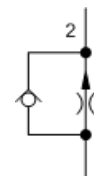


## Fixed orifice pressure compensated flow control valve with reverse flow check

Capacity:  
25 gpm (95  
L/min.)  
Model:  
FCEB

### Product Description

Fixed-orifice, pressure-compensated flow controls with reverse-flow check provide precise flow regulation for meter-in or meter-out applications where there may be wide pressure fluctuations. An integral high-capacity check valve provides unrestricted flow from port 2 to port 1. The flow setting is specified by the user and is set at the factory.



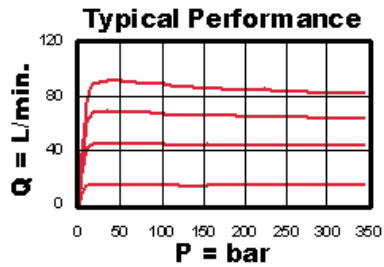
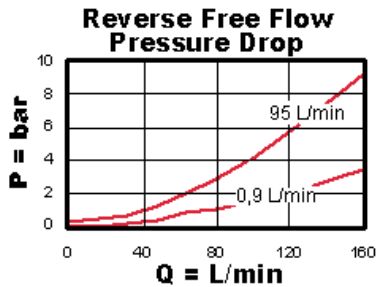
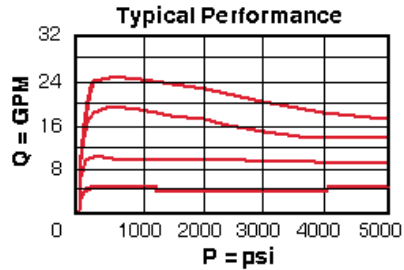
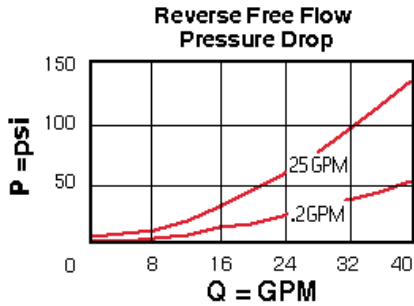
### Technical Features

- Customer must specify a flow rating. Factory set flow ratings are within +/- 10% of the requested setting.
- All 2-port flow control cartridges are physically and functionally interchangeable (i.e. same flow path, same cavity for a given frame size). However, cartridge extension dimensions from the mounting surface may vary.
- The sharp-edged orifice design minimizes flow variations due to viscosity changes.
- The tuneable control option provides +/- 22% variation from the nominal factory pre-set flow. Turn the adjustment clockwise to increase.
- Corrosion resistant cartridge valves are intended for use in corrosive environments and are identified by the model code suffix /AP (see Option Selection below). External parts are made from stainless steel with titanium or brass components, where applicable. Internal parts are made from carbon steel leaded alloy, the same as standard valves. For further details, please see the Materials of Construction page.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

### Technical Data

|                                    | U.S. Units       | Metric Units |
|------------------------------------|------------------|--------------|
| Cavity                             | T-16A            |              |
| Capacity                           | 25 gpm           | 95 L/min.    |
| Maximum Operating Pressure         | 5000 psi         | 350 bar      |
| Series (from Cavity)               | Series 3         |              |
| Valve Hex Size                     | 1 1/4 in.        | 31,8 mm      |
| Valve Installation Torque          | 150 - 160 lbf ft | 200 - 215 Nm |
| Adjustment Screw Internal Hex Size | 5/32 in.         | 4 mm         |
| Adjustment Locknut/Cap Hex Size    | 9/16 in.         | 15 mm        |
| Adjustment Nut Torque              | 80 - 90 lbf in.  | 9 - 10 Nm    |

|                       |                    |          |
|-----------------------|--------------------|----------|
| Seal Kits - Cartridge | Buna: 990-016-007  |          |
| Seal Kits - Cartridge | Viton: 990-016-006 |          |
| Model Weight          | 0.95 lb.           | 0.43 kg. |



### FCEB-XAN

| Control             | Setting Range                                        | Seal Material     | Material/Coating Modifier                                                                                                                       |
|---------------------|------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Preferred Options   | Preferred Options                                    | Preferred Options | Preferred Options                                                                                                                               |
| L Tuning Adjustment | A* Replaceable Orifice .2 - 25 gpm (0.8 - 95 L/min.) | N Buna-N          | No modifier (standard material with no special coating)                                                                                         |
| Standard Options    |                                                      | Standard Options  | Special Options                                                                                                                                 |
| K Handknob          |                                                      | V Viton           | /AP Stainless Steel, Passivated                                                                                                                 |
| X Not Adjustable    |                                                      |                   | Control:L                                                                                                                                       |
|                     |                                                      |                   | <i>Our stainless product line is growing! If you are interested in a stainless option for this model which is not shown please contact Sun.</i> |

#### Additional Options

| Control                                       | Setting Range                                      |
|-----------------------------------------------|----------------------------------------------------|
| M Capped Screw Adjustment with Lockwire Holes | B* Permanent Orifice .2 - 25 gpm (0.8 - 95 L/min.) |

When the modifier is /AP, the control must be L

\* Special Setting required, specify at time of order