



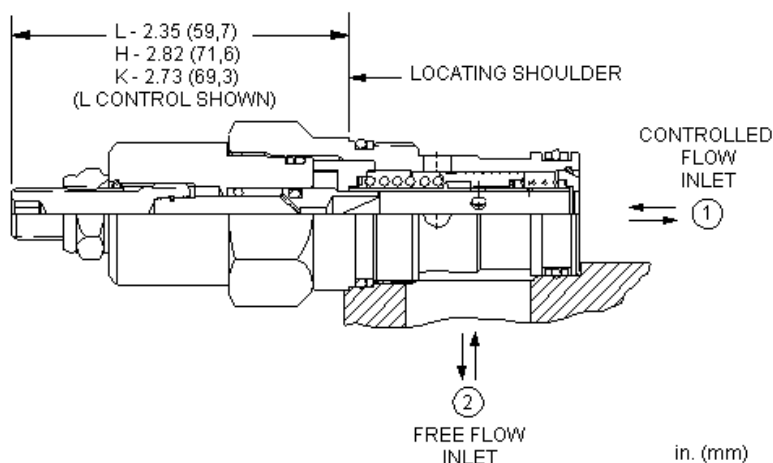
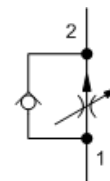
## Fully adjustable pressure compensated flow control valve with reverse flow check

Capacity:  
12 gpm (45  
L/min.)

Model:  
FDCB

### Product Description

Fully adjustable, 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. They are infinitely adjustable from nearly closed up to the maximum flow. An integral high-capacity check valve provides unrestricted flow from port 2 to port 1.

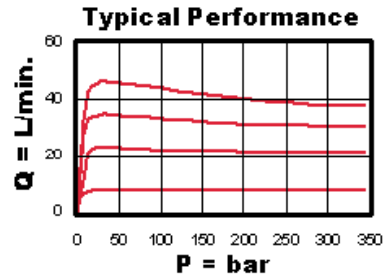
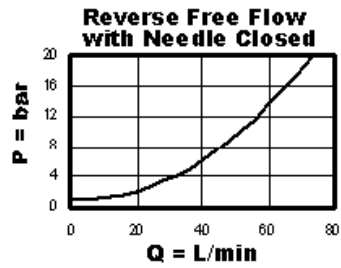
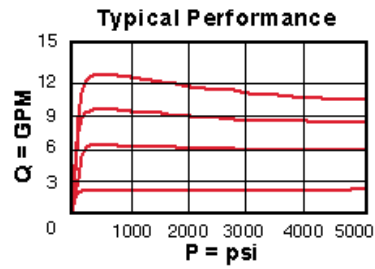
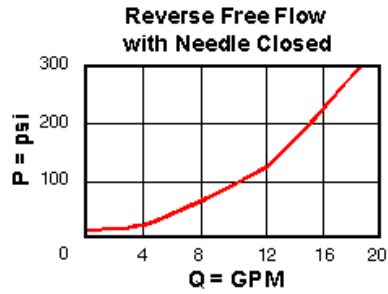


### Technical Features

- 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.
- A balanced adjustment mechanism allows for easy adjustment even at high pressures.
- The sharp-edged orifice design minimizes flow variations due to viscosity changes.

### Technical Data

|                                                                            | U.S. Units         | Metric Units |
|----------------------------------------------------------------------------|--------------------|--------------|
| Cavity                                                                     | T-5A               |              |
| Capacity                                                                   | 12 gpm             | 45 L/min.    |
| Adjustment - Number of Counterclockwise Turns - Fully Closed to Fully Open | 5                  |              |
| Maximum Operating Pressure                                                 | 5000 psi           | 350 bar      |
| Series (from Cavity)                                                       | Series 2           |              |
| U.S. Patent #                                                              | 4,630,640          |              |
| Valve Hex Size                                                             | 1 1/8 in.          | 28,6 mm      |
| Valve Installation Torque                                                  | 45 - 50 lbf ft     | 60 - 70 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: 990-203-007  |              |
| Seal Kits - Cartridge                                                      | Viton: 990-203-006 |              |
| Model Weight                                                               | 0.61 lb.           | 0.28 kg.     |



## FDCB-LAN

### Control

Preferred Options

L Standard Screw Adjustment  
Standard Options

H Calibrated Handknob with  
Detent Lock  
K Handknob

### Additional Options

#### Control

C\* Tamper Resistant - Factory Set  
O Handknob with Panel Mount

### Adjustment Range

Preferred Options

A .1 - 12 gpm (0,4 - 45 L/min.)  
Standard Options

B .1 - 3 gpm (0,4 - 11 L/min.)

W .1 - 8 gpm (0,4 - 32 L/min.)

### Seal Material

Preferred Options

N Buna-N  
Standard Options

V Viton

#### Seal Material

\* Special Setting required, specify at time of order  
Customer specified setting stamped on hex.