

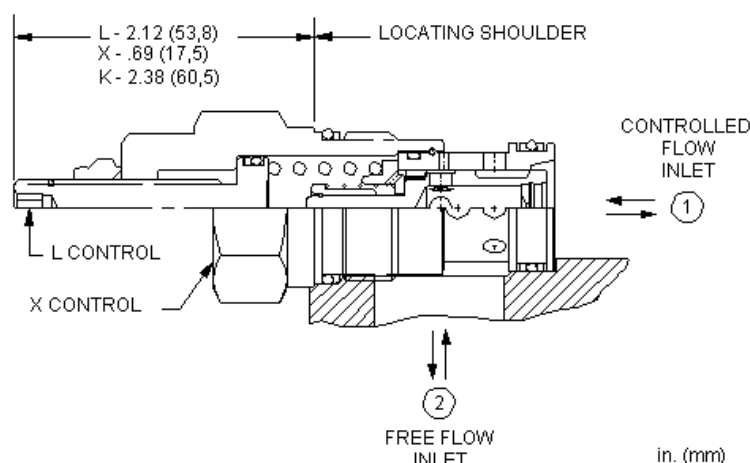
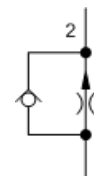


Fixed orifice pressure compensated flow control valve with reverse flow check

Capacity:
12 gpm (45 L/min.)
Model:
FCDB

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.



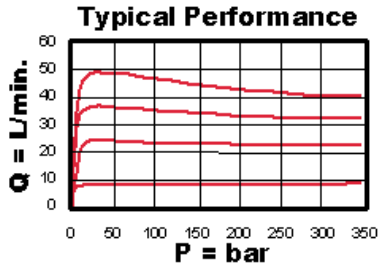
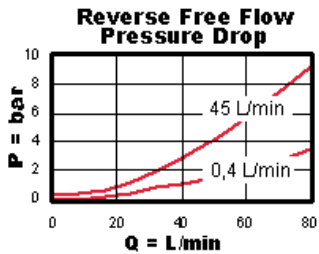
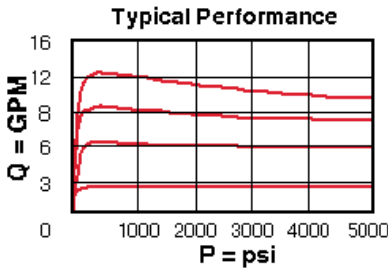
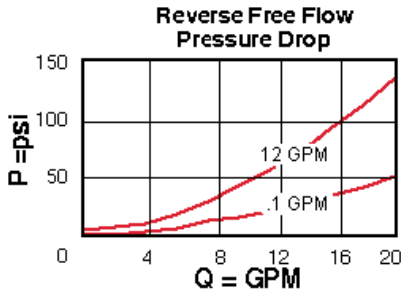
Technical Features

- 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 +/- 25% 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-5A	
Capacity	12 gpm	45 L/min.
Maximum Operating Pressure	5000 psi	350 bar
Series (from Cavity)	Series 2	
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	0.37 lb.	0.17 kg.



FCDB-XAN

Control	Setting Range	Seal Material	Material/Coating Modifier
Preferred Options	Preferred Options	Preferred Options	Preferred Options
L Tuning Adjustment	A* Replaceable Orifice .1 - 12 gpm (0,4 - 45 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
N Capped Screw Adjustment with Lockwire Holes	B* Permanent Orifice .1 - 12 gpm (0,4 - 45 L/min.)
R Lockwired Screw Adjustment	

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

* Special Setting required, specify at time of order