



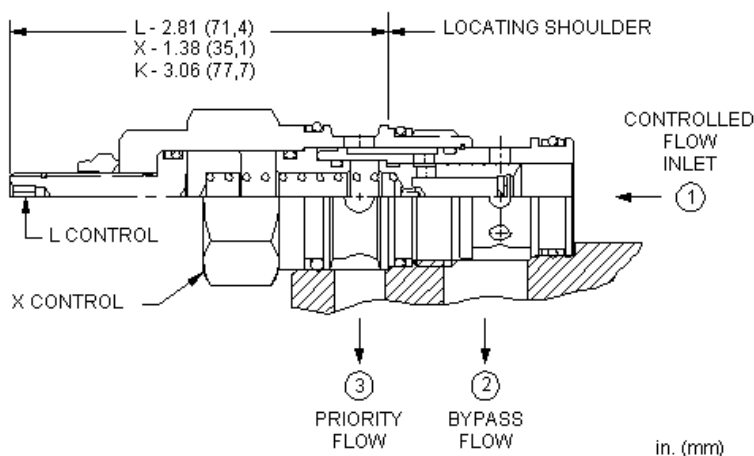
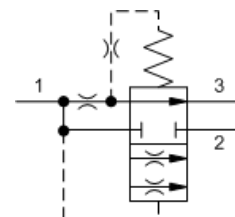
Fixed orifice, bypass/restrictive, priority, flow control valve

Capacity:
12 gpm (45 L/min.)

Model:
FRDA

Product Description

Bypass/restrictive, fixed-orifice, priority flow controls take an input flow at port 1 and use it to satisfy the priority flow at port 3. If the input flow exceeds the priority flow requirement, the excess is bypassed out port 2. The bypass flow may be used in a secondary circuit.



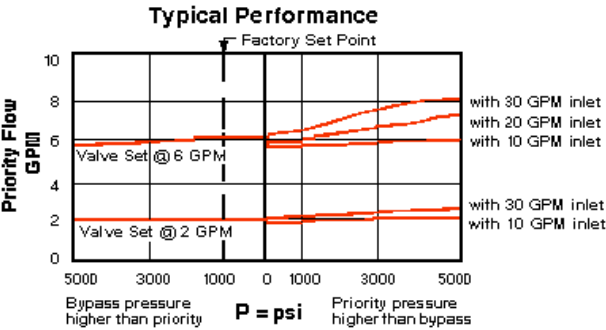
Technical Features

- Customer must specify a flow rating. Factory set flow ratings are within +/- 10% of the requested setting.
- Maximum pressure at port 3 should be limited to 3000 psi (210 bar).
- Both priority and bypass flow are usable up to the system operating pressure.
- Priority remains relatively constant regardless of variation in input flow.
- Bypass flow is not available until priority flow requirements are satisfied.
- Pressure at the bypass port (port 2) may exceed pressure at the priority port (port 3).
- The sharp-edged orifice design minimizes flow variations due to viscosity changes.
- A tuneable adjustment control option provides up to +/- 25% variation from the nominal factory pre-set flow. Adjustment is done with +/- 3 turns of the adjust screw. Screw in (CW) to increase flow.
- 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-2A
Capacity	12 gpm	45 L/min.
Maximum Input Flow	30 gpm	120 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: 990-202-007	
Seal Kits - Cartridge	Viton: 990-202-006	
Model Weight	0.45 lb.	0.20 kg.



FRDA-XAN

Control	Setting Range	Seal Material	Material/Coating Modifier
Preferred Options	Preferred Options	Preferred Options	Preferred Options
L Tuning Adjustment Standard Options	A* Replaceable Orifice .1 - 12 gpm (0,4 - 45 L/min.)	N Buna-N Standard Options	No modifier (standard material with no special coating) Special Options
K Handknob X Not Adjustable		V Viton	/ AP Stainless Steel, Passivated
			Control:C 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	Seal Material
C* Tamper Resistant - Factory Set O Handknob with Panel Mount	B* Permanent Orifice .1 - 12 gpm (0,4 - 45 L/min.)	

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

* Special Setting required, specify at time of order