



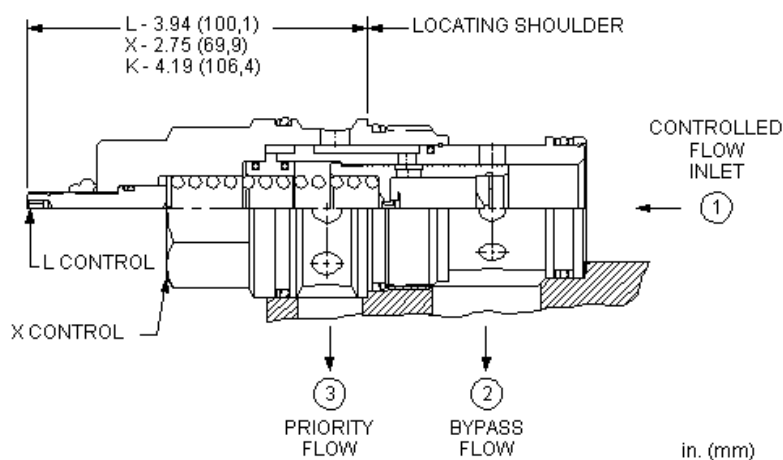
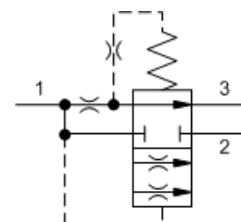
Fixed orifice, bypass/restrictive, priority, flow control valve

Capacity:
50 gpm (200 L/min.)

Model:
FRFA

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.



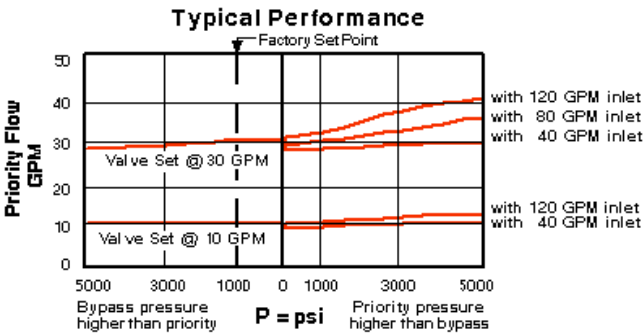
Technical Features

- Customer must specify a flow rating. Factory set flow ratings are within $\pm 10\%$ of the requested setting.
- Maximum pressure at port 3 should be limited to 3000 psi (210 bar).
- A tuneable adjustment control option provides up to $\pm 22\%$ variation from the nominal factory pre-set flow. Adjustment is done with ± 3 turns of the adjust screw. Screw in (CW) to increase flow.
- 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.
- 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-19A	
Capacity	50 gpm	200 L/min.
Maximum Input Flow	120 gpm	480 L/min.
Maximum Operating Pressure	5000 psi	350 bar
Series (from Cavity)	Series 4	

Valve Hex Size	1 5/8 in.	41,3 mm
Valve Installation Torque	350 - 375 lbf ft	475 - 500 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: 990-019-007	
Seal Kits - Cartridge	Viton: 990-019-006	
Model Weight	2.28 lb.	1.03 kg.



FRFA-XAN

Control	Setting Range	Seal Material
Preferred Options	Preferred Options	Preferred Options
L Tuning Adjustment	A* Replaceable Orifice .2 - 50	N Buna-N
Standard Options	gpm (1 - 200 L/min.)	Standard Options
K Handknob		V Viton
X Not Adjustable		
Additional Options		
Control	Setting Range	Seal Material
C* Tamper Resistant - Factory Set	B* Permanent Orifice .2 - 50 gpm (1 - 200 L/min.)	

* Special Setting required, specify at time of order