



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.

CONFIGURATION

L	Control	Tuning Adjustment
A	Setting Range	Replaceable Orifice .1 - 6 gpm (0,4 - 23 L/min.)
N	Seal Material	Buna-N
(none)	Material/Coating	Standard Material/Coating

TECHNICAL DATA

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Cavity	T-11A
Series	1
Capacity	6 gpm
Maximum Operating Pressure	5000 psi
Maximum Input Flow	15 gpm
Valve Hex Size	7/8 in.
Valve Installation Torque	30 - 35 lbf ft
Adjustment Screw Internal Hex Size	5/32 in.
Locknut Hex Size	9/16 in.
Locknut Torque	80 - 90 lbf in.
Seal kit - Cartridge	Buna: 990011007
Seal kit - Cartridge	Polyurethane: 990011002
Seal kit - Cartridge	Viton: 990011006
Model Weight	0.34 lb.

CONFIGURATION OPTIONS

Model Code Example: **FRCALAN**

CONTROL	(L) SETTING RANGE	(A) SEAL MATERIAL	(N) MATERIAL/COATING
L Tuning Adjustment K Handknob X Not Adjustable	A Replaceable Orifice .1 - 6 gpm (0,4 - 23 L/min.)	N Buna-N V Viton	Standard Material/Coating /AP Stainless Steel, Passivated

TECHNICAL FEATURES

- Customer must specify a flow rating. Factory set flow ratings are within +/- 10% of the requested setting.
- 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.

PERFORMANCE CURVES

Typical Performance

