



## CONFIGURATION

<b>L</b>	Control	Tuning Adjustment
<b>A</b>	Setting Range	Replaceable Orifice .2 - 25 gpm (0,8 - 95 L/min.)
<b>V</b>	Seal Material	Viton
<b>(none)</b>	Material/Coating	Standard Material/Coating

## TECHNICAL DATA

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

Cavity	T-17A
Series	3
Capacity	25 gpm
Maximum Operating Pressure	5000 psi
Maximum Input Flow	60 gpm
Valve Hex Size	1 1/4 in.
Valve Installation Torque	150 - 160 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: 990017007
Seal kit - Cartridge	Polyurethane: 990017002
Seal kit - Cartridge	Viton: 990017006
Model Weight	1.25 lb.

## CONFIGURATION OPTIONS

**Model Code Example: FREALAV**

CONTROL	(L) SETTING RANGE	(A) SEAL MATERIAL	(V) MATERIAL/COATING
<b>L</b> Tuning Adjustment	<b>A</b> Replaceable Orifice .2 - 25 gpm (0,8 - 95 L/min.)	<b>V</b> Viton	Standard Material/Coating
<b>K</b> Handknob		<b>N</b> Buna-N	/AP Stainless Steel, Passivated
<b>X</b> Not Adjustable			/LH Mild Steel, Zinc-Nickel

## 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).
- A tuneable adjustment control option provides up to +/- 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.

## PERFORMANCE CURVES

