



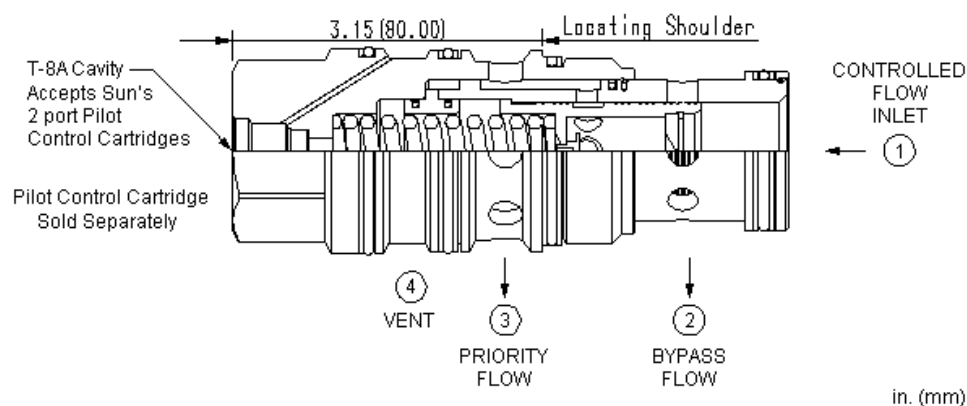
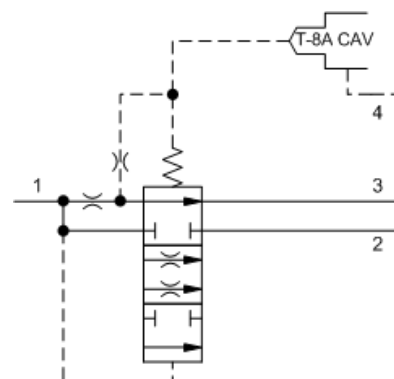
Ventable, fixed orifice, bypass/restrictive, priority, flow control valve with integral T-8A control cavity

Capacity:
50 gpm (200
L/min.)

Model:
FVFA8

Product Description

This valve is a ventable, bypass/restrictive, fixed-orifice, priority flow control with an integral pilot control cavity. The pilot control cavity will accept any T-8A pilot pressure or directional control cartridge. It takes an input flow at port 1 and uses it to satisfy the priority flow at port 3. If the input flow exceeds the priority flow requirement, the excess flow is bypassed out of port 2. Bypass flow may be used for a secondary circuit. Depending on which pilot control valve is installed in the T-8A cavity, priority flow can be selected electrically, manually, hydraulically or pneumatically.

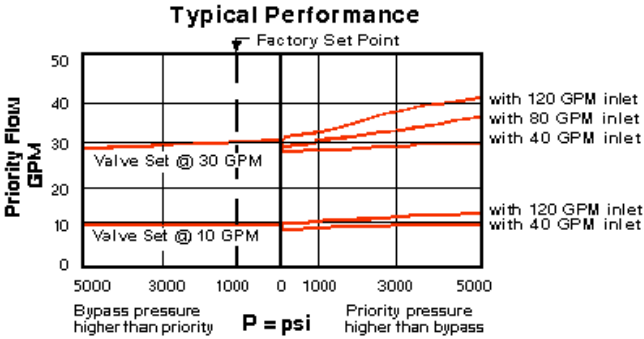


Technical Features

- Customer must specify a flow rating. Factory set flow ratings are within +/- 10% of the requested setting.
- Using a pressure control in the T-8A pilot control cavity will limit the pressure at the priority port (port 3). If pressure on the bypass port (port 2) exceeds the setting of the pressure control, priority flow will be shut off and all the flow will go out the bypass port.
- Maximum pressure at port 3 should be limited to 3000 psi (210 bar).
- NOTE: With the -8 control option, the main stage valve should first be installed to the correct torque value. The T-8A pilot control valve should then be installed into the main stage valve to its required torque value.
- 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, except when the valve is vented. When port 4 (vent) is open, all flow diverts to port 2 if pressure at port 1 (inlet) is 150 psi (10.5 bar) or higher.
- 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.
- The -8 control option allows the pilot control valve to be incorporated directly into the end of the cartridge via the T-8A cavity. These pilot control cartridges are sold separately and include electro-proportional, solenoid, air pilot, and hydraulic pilot operation. See Pilot Control Cartridges.
- 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-24A	
Capacity	50 gpm	200 L/min.
Maximum Input Flow	120 gpm	480 L/min.
Maximum Operating Pressure	5000 psi	350 bar
Nominal Vent Flow	46 in ³ /min.	0,75 L/min.
Pilot Control Cavity	T-8A	
Pilot Control Valve Hex Size	7/8 in.	22,2 mm
Pilot Control Valve Installation Torque	20 - 25 lbf ft	27 - 33 Nm
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
Seal Kits - Cartridge	Buna: 990-024-007	
Seal Kits - Cartridge	Viton: 990-024-006	
Model Weight	2.94 lb.	1.33 kg.



FVFA-8AN

Setting Range	Seal Material	
Standard Options	Standard Options	
A Replaceable Orifice .2 - 50 gpm (1 - 200 L/min.)	N	Buna-N
B Permanent Orifice .2 - 50 gpm (1 - 200 L/min.)	V	Viton

Customer specified setting stamped on hex.