



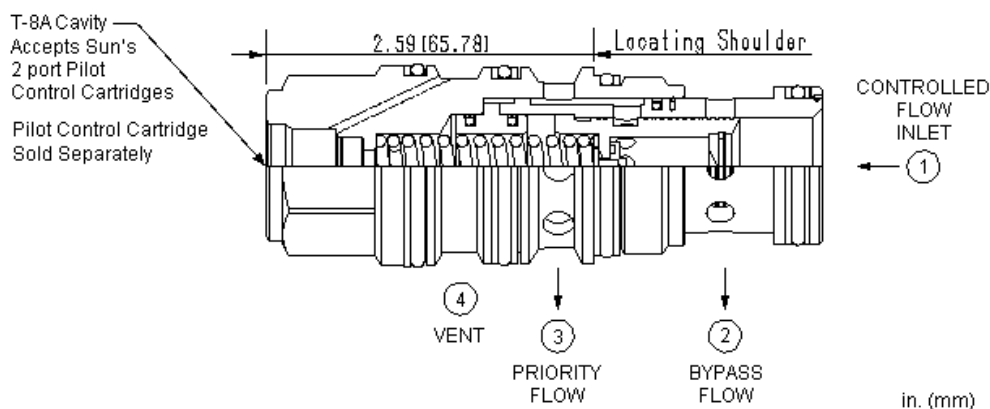
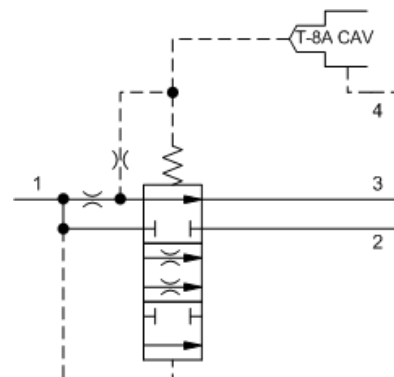
Ventable, fixed orifice, bypass/restrictive, priority, flow control valve with integral T-8A control cavity

Capacity:
25 gpm (95
L/min.)

Model:
FVEA8

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.



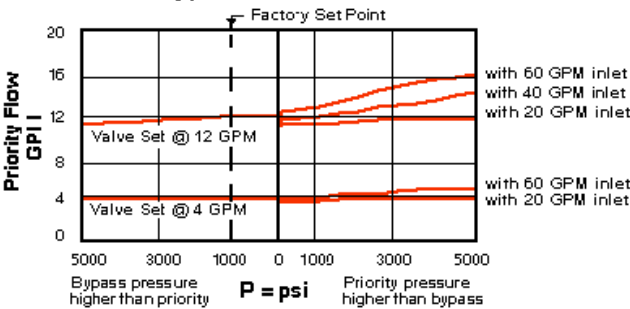
Technical Features

- Customer must specify a flow rating. Factory set flow ratings are within +/- 10% of the requested setting.
- 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.
- 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.
- Pressure at the bypass port (port 2) may exceed pressure at the priority port (port 3).
- Maximum pressure at port 3 should be limited to 3000 psi (210 bar).
- The sharp-edged orifice design minimizes flow variations due to viscosity changes.
- 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.
- 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.
- Both priority and bypass flow are usable up to the system operating pressure.
- 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.
- Priority remains relatively constant regardless of variation in input flow.

Technical Data

	U.S. Units	Metric Units
Cavity	T-23A	
Capacity	25 gpm	95 L/min.
Maximum Input Flow	60 gpm	240 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 3	
Valve Hex Size	1 1/4 in.	31,8 mm
Valve Installation Torque	150 - 160 lbf ft	200 - 215 Nm
Seal Kits - Cartridge	Buna: 990-023-007	
Seal Kits - Cartridge	Viton: 990-023-006	
Model Weight	1.32 lb.	0.60 kg.

Typical Performance



FVEA-8AN

Setting Range

Seal Material

Standard Options

Standard Options

- A* Replaceable Orifice .2 - 25 gpm (0,8 - 95 L/min.)
- B* Permanent Orifice .2 - 25 gpm (0,8 - 95 L/min.)

- N Buna-N
- V Viton

* Special Setting required, specify at time of order