



3-way 3-position proportional throttle valve with center bleed down and load sense

Functional Group:

Products : Cartridges : Directional, Proportional : 3 Way : 3-way, 3-position with Center Bleed Down and Load Sense

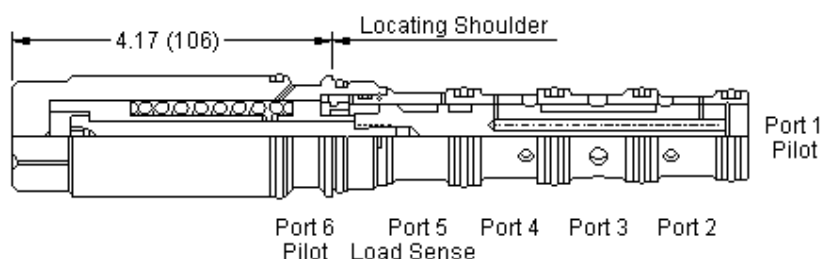
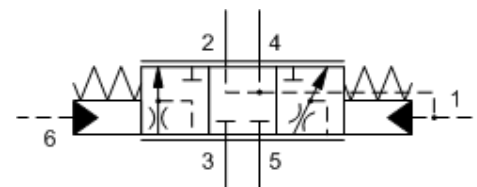
Capacity:
40 gpm (160 L/min.)

Model:
FTFK

Product Description

This valve is a 3-way, 3 position, proportional directional valve. Port 3 is closed in the center position and port 2 and port 4 are drained to port 1. Pilot pressure at port 1 creates a metering orifice between ports 3 and 4 that is proportional to the pressure at 1. Piloting 6 opens 3 to 2. The force balance of the flow forces, spring and pilot pressure results in a degree of partial self compensation as the load pressure changes.

Load sense is available at port 5 when the spool is shifted to either port 2 or 4.

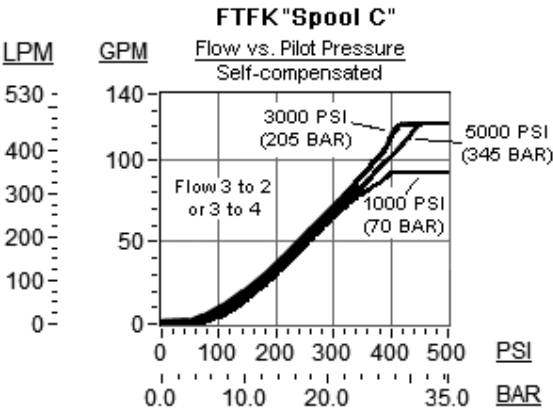
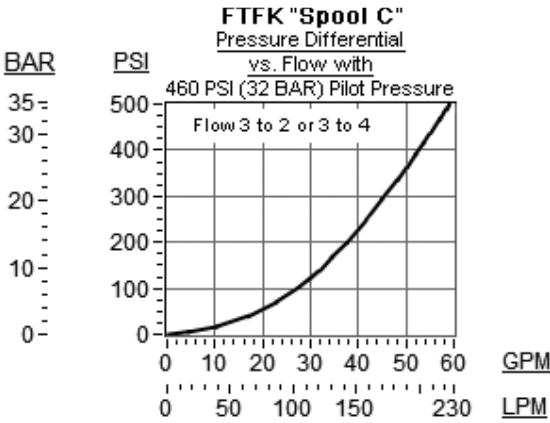


Technical Features

- Nominal operating pressures for port 1 and port 6 should not exceed 500 psi (35 bar).
- These valves may be pressure compensated by an external, modulating, logic element. Use LR_C-XHN for a bypass circuit or LP_C-XHN for a restrictive circuit.
- The valve provides a degree of self-compensation and may be used as a flow control. To increase the accuracy of flow control, an external, modulating, logic element can be used to maintain a constant flow over a wider range of flows and pressures. See performance curves for additional information.
- Pressure at ports 1 and 6 directly oppose each other.
- 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-53A	
Capacity	40 gpm	160 L/min.
Minimum Pilot Pressure Required to Shift Valve	60 psi	4 bar
Pilot Pressure Required for Full Shift at Rated Flow	300 psi	20 bar
Maximum Operating Pressure	5000 psi	350 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	2 in ³ /min.	30 cc/min.
Pilot Volume Displacement	.04 in ³	0,66 cc
Series (from Cavity)	Series 3	
Hysteresis	± 2 %	
Valve Hex Size	1 1/4 in.	31,8 mm
Valve Installation Torque	150 - 160 lbf ft	200 - 215 Nm
Seal Kits - Cartridge	Buna: 990-053-007	
Seal Kits - Cartridge	Viton: 990-053-006	
Model Weight	3.10 lb.	1.41 kg.



FTFK-XCN

Control

Standard Options

X Not Adjustable

Spool Configuration

Standard Options

C Normally Closed

Seal Material

Standard Options

N Buna-N
V Viton