



4-way, 3-position, meter in proportional directional valve

Capacity:
35 gpm (140 L/min.)

Functional Group:

Products : Cartridges : Directional, Proportional : 4 Way : 4-way, 3-position, Meter in

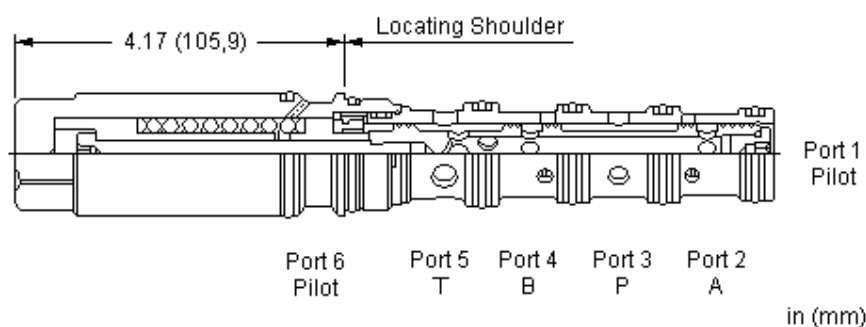
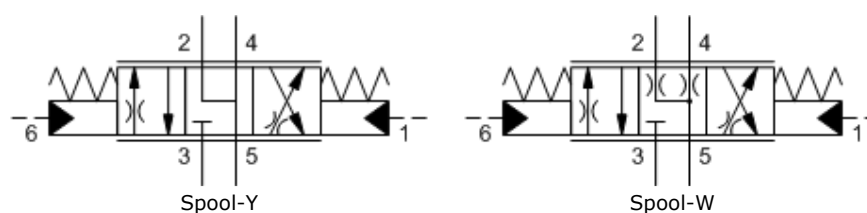
Model:

FTFC

Product Description

This valve is a 4-way, 3 position, proportional directional valve. Work ports 2 and 4 are drained to 5 in the center position and port 3 is closed. Pilot pressure at port 1 opposes the spring and creates a variable 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.

Pressure at ports 1 and 6 directly oppose each other.

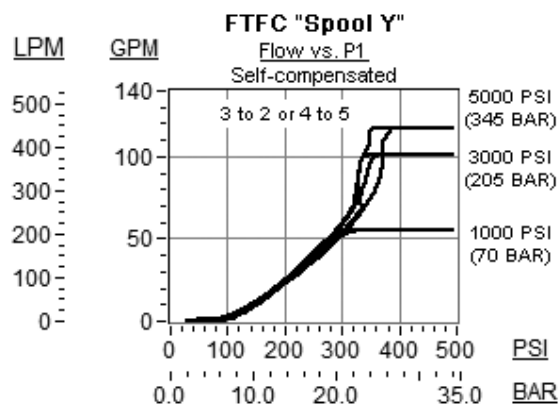
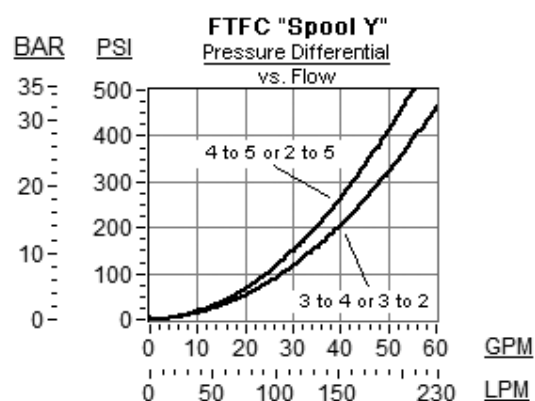
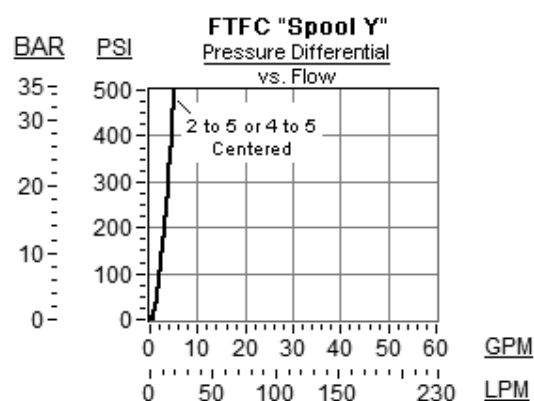


Technical Features

- 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	35 gpm	140 L/min.
Minimum Pilot Pressure Required to Shift Valve	80 psi	5,5 bar
Pilot Pressure Required for Full Shift at Rated Flow	350 psi	24 bar
Maximum Operating Pressure	5000 psi	350 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	2.5 in ³ /min.@1000 psi	41 cc/min.@70 bar
Pilot Volume Displacement	.11 in ³	1,8 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
Model Weight	3.10 lb	1,40 kg
Seal Kits - Cartridge	Buna: 990-053-007	
Seal Kits - Cartridge	Viton: 990-053-006	

**FTFC-XYN****Control****Standard Options****X** Not Adjustable**Spool Configuration****Standard Options****W** A and B Bleed to T Center**Y** A and B to T Center**Seal Material****Standard Options****N** Buna-N**V** Viton