



2-way, pilot shifted, proportional throttle

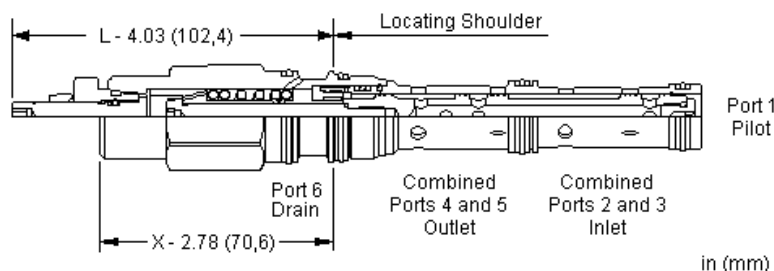
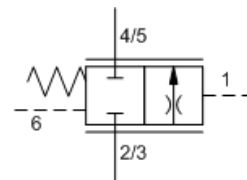
Capacity:
15 gpm (60 L/min.)

Model:
FTCA

Product Description

This valve is a 2-way, 2 position, proportional throttle. Ports 2/3 and 4/5 are normally closed. Pilot pressure at port 1 creates a metering orifice between port 2/3 and 4/5 that is proportional to the pressure at 1. The metering passage is self-compensating.

This valve uses a dual path design, Ports 2, 3, 4 and 5 are combined at the cartridge into ports 2/3 and 4/5. The paired port can be treated as an individual area.



Technical Features

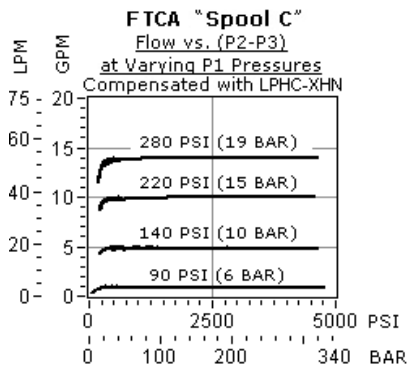
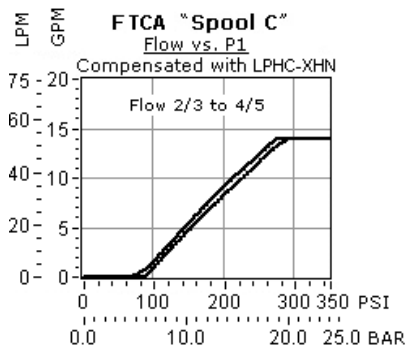
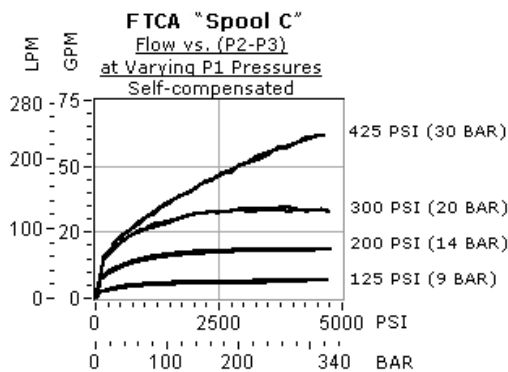
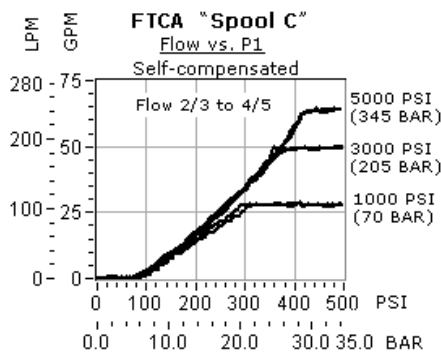
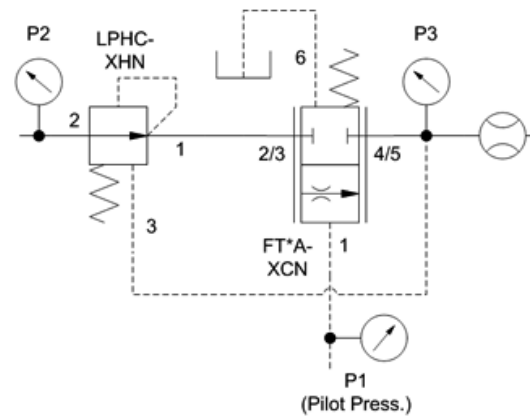
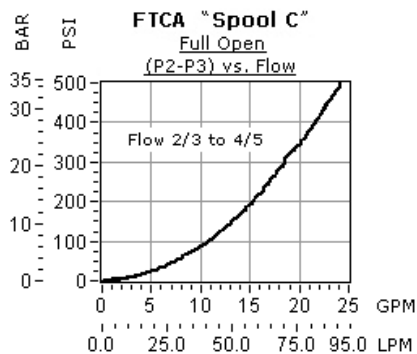
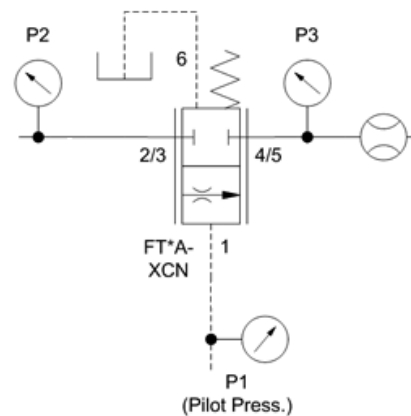
- Ports 1 and 6 should be limited to 500 psi (35 bar).
- If the flow control need is absolute, a pressure compensator is needed. If the flow control need is not absolute, as with a joystick, self-compensation may suffice.
- Pressure at port 6 directly opposes pressure at port 1.
- The L control is a stroke adjustment that limits maximum flow.
- Accurate pressure compensated control requires that a constant pressure differential be maintained across the valve.
- 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.

Special Notes

- When installed in Sun's standard T-52A line mount manifold, plug unused ports and expect higher pressure drops.

Technical Data

	U.S. Units	Metric Units
Cavity	T-52A	
Capacity	15 gpm	60 L/min.
Minimum Pilot Pressure Required to Shift Valve	50 psi	3,5 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.@1000 psi	30 cc/min.@70 bar
Pilot Volume Displacement	.05 in ³	0,82 cc
Series (from Cavity)	Series 2	
Hysteresis	± 2 %	
Valve Hex Size	1 1/8 in.	28,6 mm
Valve Installation Torque	45 - 50 lbf ft	60 - 70 Nm
Seal Kits - Cartridge	Buna: 990-062-007	
Seal Kits - Cartridge	Viton: 990-052-006	
Model Weight	1.08 lb.	0.49 kg.

Compensated Test CircuitSelf-Compensated Test Circuit

FTCA-XCN

Control	Spool Configuration	Seal Material
Standard Options	Standard Options	Standard Options
L Stroke Adjustment	C Normally Closed	N Buna-N
X Not Adjustable		V Viton