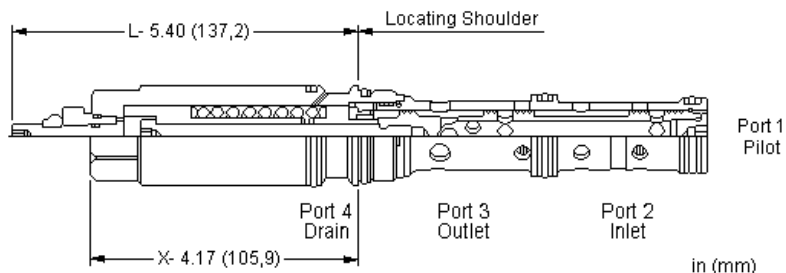
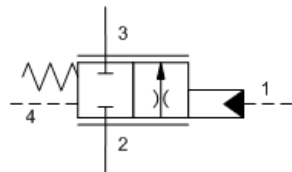


MODEL
FTFA

2-way, pilot shifted, dual path, proportional throttle
CAPACITY: 200 L/min. | CAVITY: T-53AD



CONFIGURATION

X	Control	Not Adjustable
C	Spool Configuration	Normally Closed
N	Seal Material	Buna-N
(none)	Material/Coating	Standard Material/Coating

NOTES

When installed in Sun's standard T-53A line mount manifold, plug unused ports and expect higher pressure drops.

This valve is a 2-way, 2 position, proportional throttle. Ports 2 and 3 are normally closed. Pilot pressure at port 1 opposes the spring and creates a variable metering orifice between port 2 and 3 that is proportional to the pressure at 1. The force balance of the flow forces, spring and pilot pressure results in a degree of partial self-compensation as the load pressure changes.

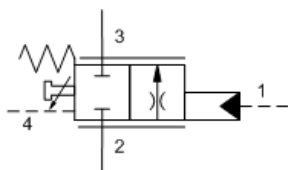
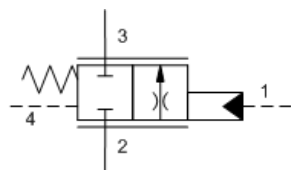
Pressure at port 4 directly opposes pressure at port 1.

The valve uses a dual path design. Ports 2 and 3 incorporate a double port area.

TECHNICAL DATA

Cavity	T-53AD
Series	3
Capacity	200 L/min.
Minimum Pilot Pressure Required to Shift Valve	4 bar
Pilot Pressure Required for Full Shift at Rated Flow	20 bar
Maximum Operating Pressure	350 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	160 cc/min.@70 bar
Pilot Volume Displacement	1,6 cc
Adjustment - Number of Counterclockwise Turns - Fully Closed to Fully Open	5
Hysteresis	± 2 %
Valve Hex Size	31,8 mm
Valve Installation Torque	203 - 217 Nm
Adjustment Screw Internal Hex Size	4 mm
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990-053-007
Seal kit - Cartridge	Viton: 990-053-006
Model Weight	1.31 kg.

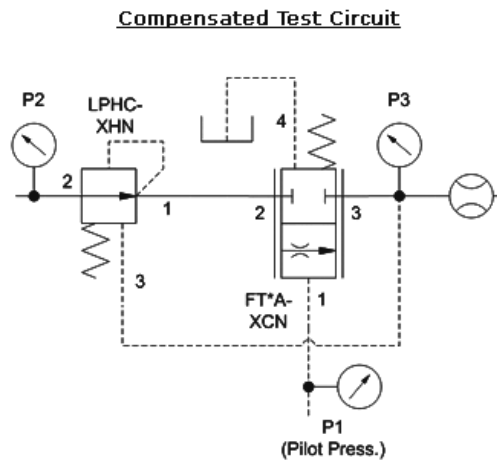
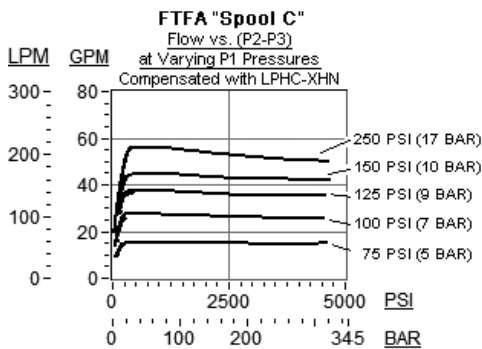
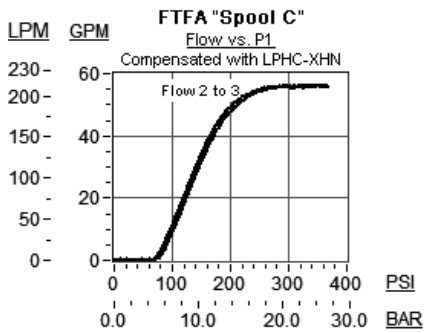
SYMBOLS

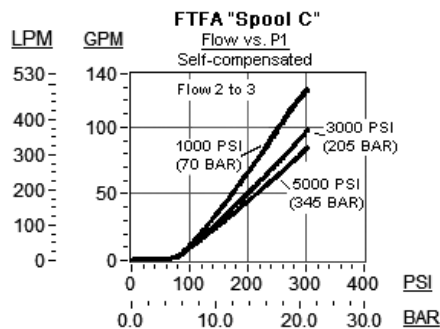


TECHNICAL FEATURES

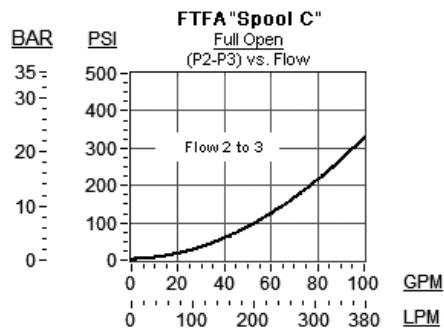
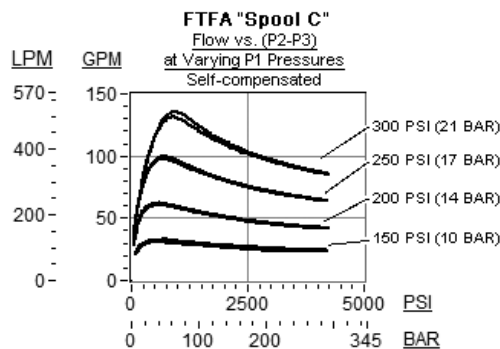
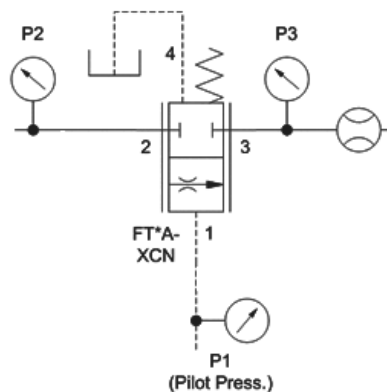
- These valves may be pressure compensated by an external, modulating, logic element. Use LR_C-XHN for a bypass circuit or LP_C-XHN for a restrictive circuit.
- The valve provides a degree of self-compensation and may be used as a flow control. To increase the accuracy of flow control, an external, modulating, logic element can be used to maintain a constant flow over a wider range of flows and pressures. See performance curves for additional information.
- The optional L control is a stroke adjustment that limits maximum flow.
- Ports 1 and 4 should be limited to 500 psi (35 bar).
- Pressure at port 4 directly opposes pressure at port 1.
- 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.

PERFORMANCE CURVES





Self-Compensated Test Circuit



CONFIGURATION OPTIONS

CONTROL

Standard Options	L	Stroke Adjustment
	X	Not Adjustable

SPOOL CONFIGURATION

Standard Options	C	Normally Closed
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SEAL MATERIAL

Standard Options	N	Buna-N
	V	Viton

MATERIAL/COATING

Standard Options		Standard Material/Coating
	/AP	Stainless Steel, Passivated

RELATED MODELS

FTFAZ

2-way, pilot shifted, dual path, proportional throttle with position switch