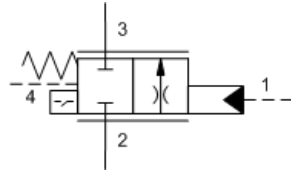


MODEL
FTEAZ

2-way, pilot shifted, dual path, proportional throttle with position switch
CAPACITY: 95 L/min. | CAVITY: T-53AD

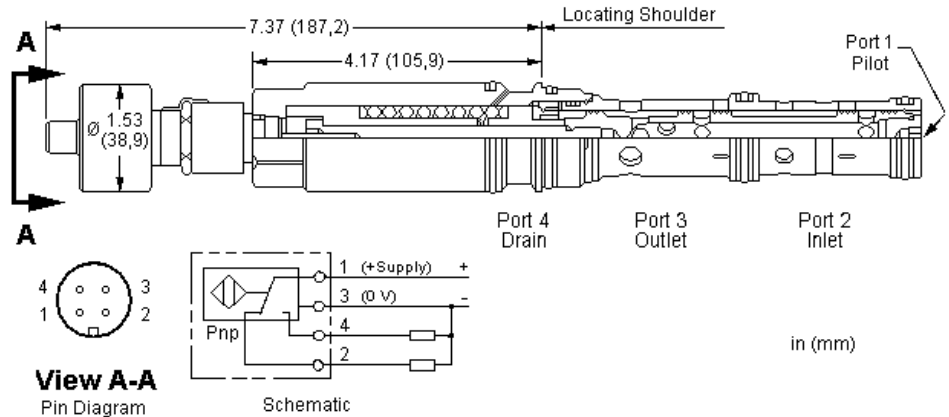


CONFIGURATION

C	Spool Configuration	Normally Closed
N	Seal Material	Buna-N

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. Pilot pressure at port 1 creates a metering orifice between port 2 and 3 that is proportional to the pressure at 1. The metering passage is self-compensating.

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

This valve incorporates a position switch to provide position confirmation.

TECHNICAL DATA

Cavity	T-53AD
Series	3
Capacity	95 L/min.
Minimum Pilot Pressure Required to Shift Valve	5,5 bar
Pilot Pressure Required for Full Shift at Rated Flow	24 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
Valve Hex Size	31,8 mm
Valve Installation Torque	203 - 217 Nm
Seal kit - Cartridge	Buna: 990-053-007
Seal kit - Cartridge	Viton: 990-053-006
Model Weight	1.69 kg.

SWITCH SPECIFICATIONS

Supply Voltage	20-30 VDC
Reverse Polarity Protection	Yes
Maximum Output Load	≤ 400 mA, Duty Ratio 100%
Short Circuit Protection	Yes, Load Short Unlimited
Turn On Time	≤ 25 ms
Hysteresis	≤ .002 in.
Operating Temperature Range	-25 to 80 °C
Thermal Shift - 0 to 80 °C ±	0,1 mm

EMC	DIN EN 61000-6-1/2/3/4
Vibration	$\geq 50g$, 0-500 impulses/sec
Shock	$>50g$, 1ms
Connector	M12 X 1 (4) Pin
Connector Environment Rating	IP65

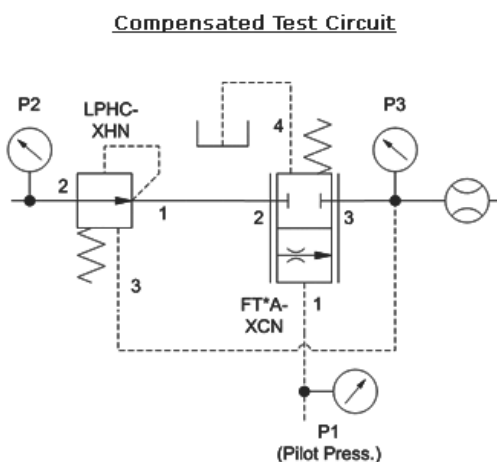
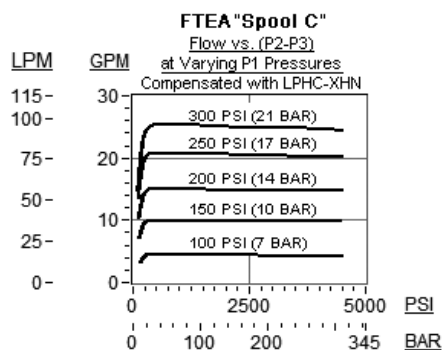
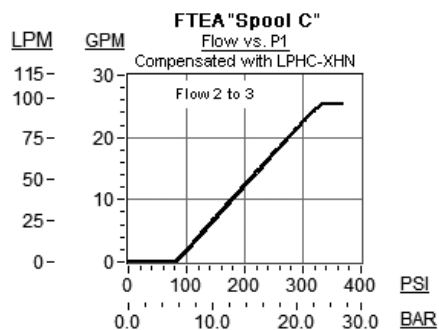
SYMBOLS

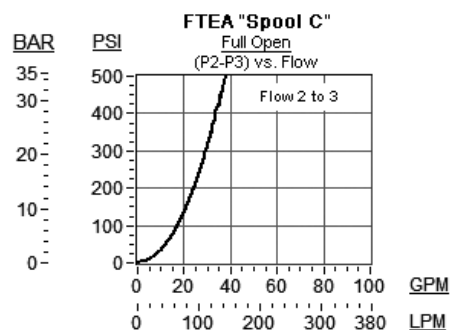
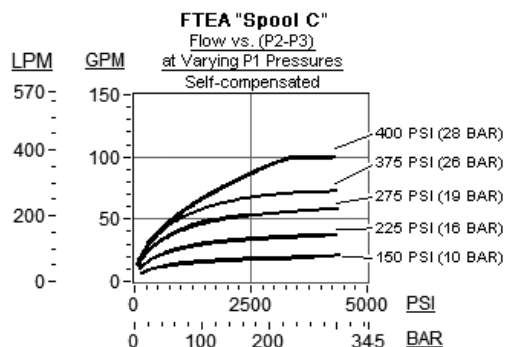
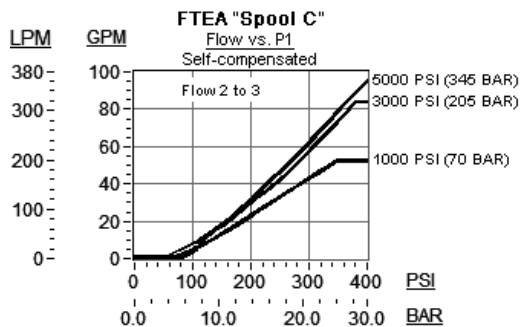


TECHNICAL FEATURES

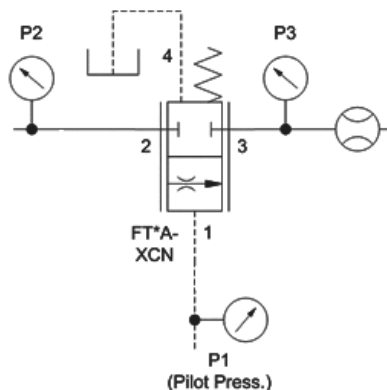
- This cartridge is supplied as a sealed, factory set unit and is not field serviceable. Any tampering will violate the product warranty.
- Position switch is CE approved.
- When torquing this cartridge into its cavity, a crow's foot wrench or similar will be required since the position switch precludes the use of a deep socket wrench.
- 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.
- An optional protective cover, with mounting hardware included, may be ordered separately. See kit number: 991-043.
- 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

SPOOL CONFIGURATION

Standard Options	C	Normally Closed
	H	Normally Open

SEAL MATERIAL

Standard Options	N	Buna-N
	V	Viton

RELATED MODELS

FTEA

2-way, pilot shifted, dual path, proportional throttle

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