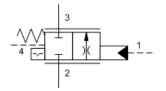


MODEL FTFAZ

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



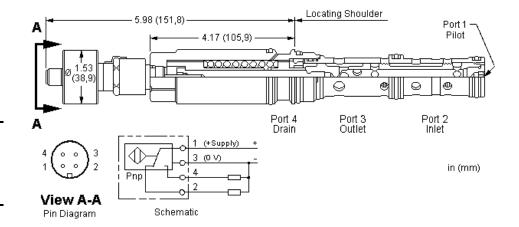
CONFIGURATION

C Spool Normally Closed Configuration

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. Ports 2 and 3 are normally closed. 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 confirmation that the valve is closed.

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		
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

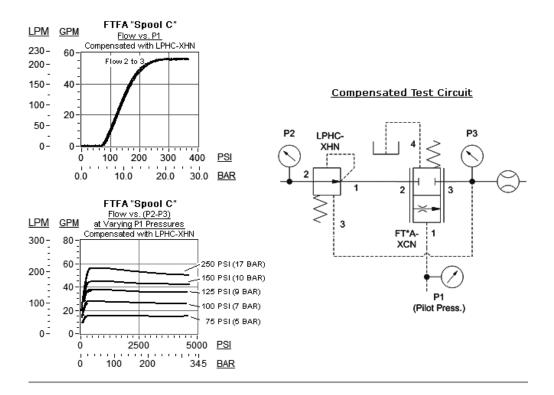
Supply Voltage	20-30 VDC
Reverse Polarity Protection	Yes
Maximum Output Load	≤ 400 mA, Duty Ratio 100%
Short Circuit Protection	Yes, Load Short Unlimited
Turn On Time	≤ 25 ms
Hysteresis	≤ .002 in.
Operating Temperature Range	-25 to 80 °C
Thermal Shift - 0 to 80 °C ≤ ±	0,1 mm

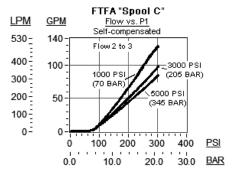
EMC	DIN EN 61000-6-1/2/3/4
Vibration	≥ 50g, 0-500 impulses/sec
Shock	>50 g, 1ms
Connector	M12 X 1 (4) Pin
Connector Environment Rating	IP65

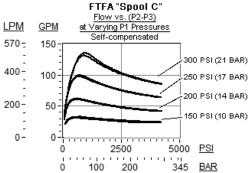
TECHNICAL FEATURES

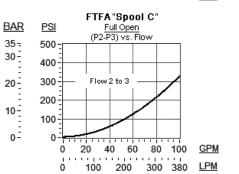
- This cartridge is supplied as a sealed, factory set unit and is not field serviceable. Any tampering will violate the product warranty.
- Position switch is CE approved.
- When torquing this cartridge into its cavity, a crow's foot wrench or similar will be required since the position switch precludes 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

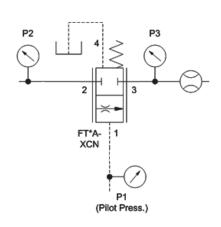








Self-Compensated Test Circuit



CONFIGURATION OPTIONS

SPOOL CONFIGURATION

Standard Options	С	Normally Closed	
	SEAL MATERIAL		
Standard Options	N	Buna-N	
	٧	Viton	

RELATED MODELS

<u>FTFA</u>

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

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