

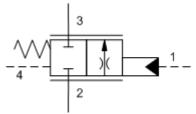


2-way, pilot-shifted, dual path, proportional throttle

CAPACITY: 15 gpm / CAVITY: T-52AD

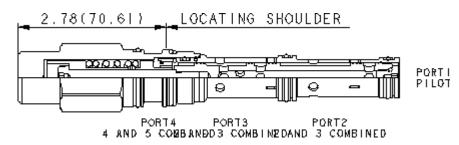


sunhydraulics.com/model/FTCA



CONFIGURATION

Х	Control	Not Adjustable
С	Spool Configuration	Normally Closed
N	Seal Material	Buna-N
	Material/Coating	



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.

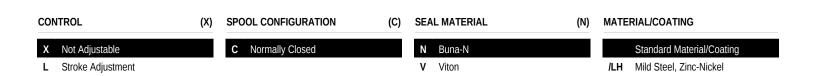
TECHNICAL DATA NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Cavity	T-52AD
Series	2
Capacity	15 gpm
Maximum Operating Pressure	5000 psi
Pilot Pressure Required to Shift Valve	60 - 130 psi
Pilot Pressure Required for Full Shift at Rated Flow	290 - 340 psi
Adjustment - No. of CCW Turns from Fully Closed to Fully Open	5
Maximum Valve Leakage at 110 SUS (24 cSt)	5 in³/min.@1000 psi
Pilot Volume Displacement	.05 in ³
Hysteresis	35 %
Valve Hex Size	1 1/8 in.
Valve Installation Torque	45 - 50 lbf ft
Adjustment Screw Internal Hex Size	5/32 in.
Locknut Hex Size	9/16 in.
Locknut Torque	80 - 90 lbf in.
Model Weight	1.05 lb.
Seal kit - Cartridge	Buna: 990-152-007
Seal kit - Cartridge	Viton: 990-152-006

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

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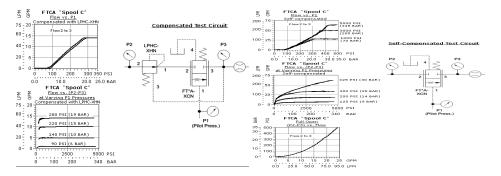
OPTION SELECTION EXAMPLE: FTCAXCN



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



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