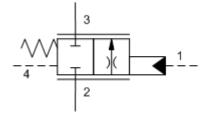


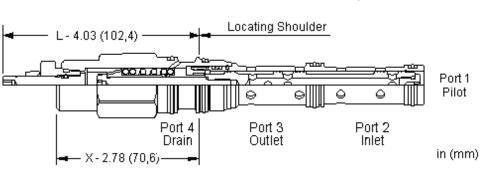
MODEL

2-way, pilot-shifted, dual path, proportional throttle CAPACITY: 30 gpm / CAVITY: T-52AD









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	30 gpm		
Maximum Operating Pressure	5000 psi		
Pilot Pressure Required to Shift Valve	50 - 120 psi		
Pilot Pressure Required for Full Shift at Rated Flow	290 - 340 psi		
Maximum Valve Leakage at 110 SUS (24 cSt)	5 in ³ /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		
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.

CO	ITROL	(L)	SPOOL CONFIGURATION ((C)	SEAL MATERIAL	(N)
L	Stroke Adjustment		C Normally Closed		N Buna-N	
Х	Not Adjustable				V Viton	

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

