

Normally open, balanced poppet, logic element - pilot-to-close

Capacity:
30 gpm (120 L/min.)

Functional Group:

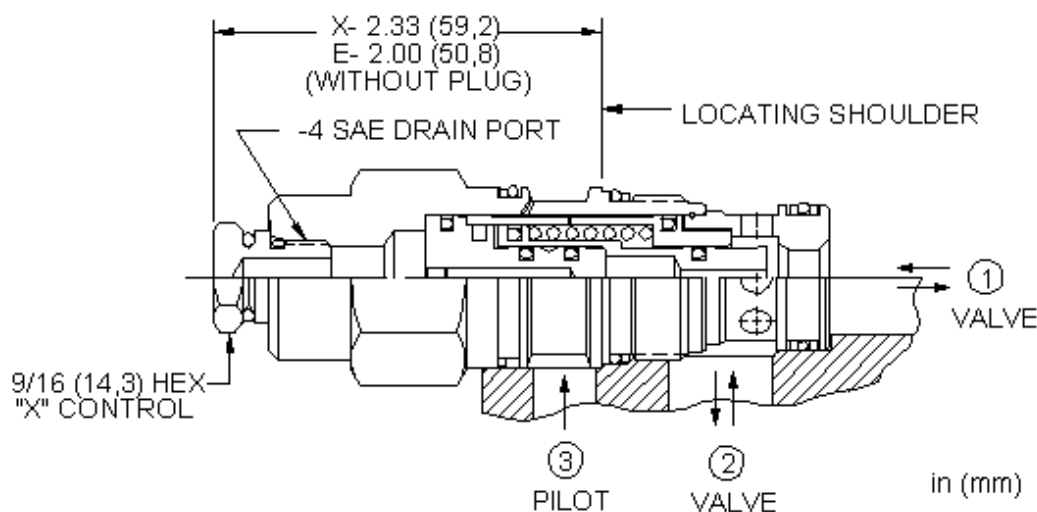
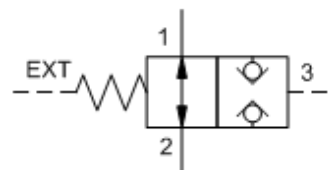
Products : Cartridges : Logic Element : Balanced Poppet, 3 Port : Normally Open, Direct Operated

Model:

DOFC

Product Description

This is a normally open, balanced poppet, switching element. Pilot pressure at port 3 shifts the valve to the closed position.

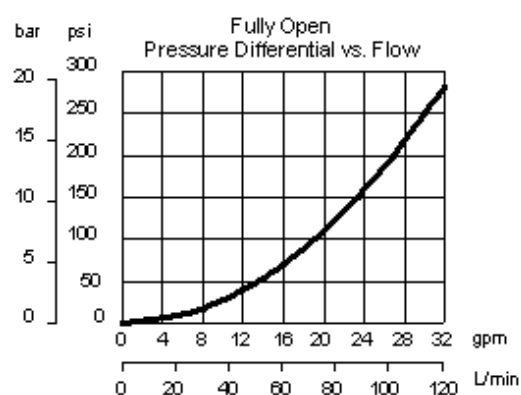


Technical Features

- Unique balanced construction provides predictable switching with 5000 psi (350 bar) at both ports 1 and 2, with the external drain open and a minimum pilot pressure of 300 psi (20 bar).
- These valves are hydraulically balanced between port 1 and port 2.
- Valve will open when the pilot pressure falls below 145 psi (10 bar).
- Leakage rate between port 1 and port 2 is very low, typically less than 10 drops/min. at 5000 psi (0,7 cc/min at 350 bar).
- These 3-port balanced logic valves use the same cavity as unbalanced logic valves of the same frame size and can be considered functional replacements.
- Port 1 and port 2 are fully sealed from port 3.
- Available in external atmospheric vent (X control) or static external drain (E control) configurations.
- All ports will accept 5000 psi (350 bar).
- Three-port vented logic elements with the X control are atmospherically referenced and considered problem solvers for existing circuits using non-vented valves. Over time, these valves will eventually leak externally and/or allow moisture into the spring chamber. Four-port valves are recommended for new applications. Alternately, the external vent port can be connected to drain if the static drain port option (control option E) is selected. Removing the vent plug will convert an X control to an E control.
- 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.

Technical Data

	U.S. Units	Metric Units
Cavity	T-2A	
Capacity	30 gpm	120 L/min.
Minimum Pilot Pressure Required to Shift Valve	300 psi	20 bar
Maximum Operating Pressure	5000 psi	350 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	5 drops/min.@5000 psi	0,3 cc/min.@350 bar
Pilot Volume Displacement	.02 in ³	0,33 cc
Series (from Cavity)	Series 2	
Valve Hex Size	1 1/8 in.	28,6 mm
Valve Installation Torque	45 - 50 lbf ft	60 - 70 Nm
Seal Kits - Cartridge	Buna: 990-202-007	
Seal Kits - Cartridge	Viton: 990-202-006	
Model Weight	0.60 lb.	0.27 kg.

**DOFC-EHN****Control****Minimum Pilot Pressure****Seal Material****Standard Options****Standard Options****Standard Options**

E External 4-SAE Drain Port
X Standard Pilot, Atmospheric Vent

H 200 psi (14 bar)

N Buna-N
V Viton