



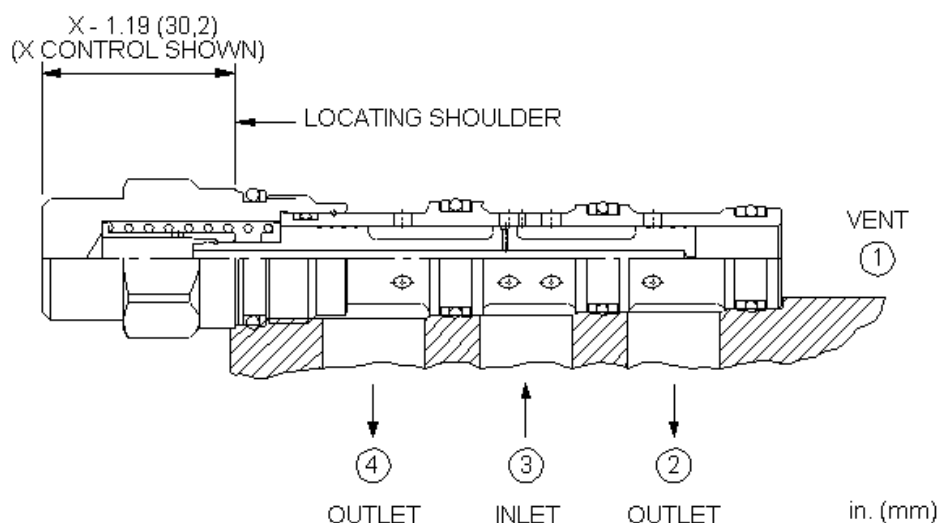
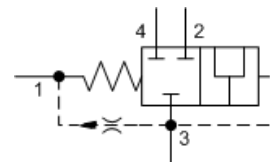
Vent-to-shift 2-position diverter valve - normally closed

Capacity:
15 gpm (60 L/min.)

Model:
DSCX

Product Description

This is a vent-to-shift, 2-position, diverter valve that is normally closed. When port 1 is vented, the pressure differential between port 3 and port 1 exceeds the spring force causing the valve to shift, thereby connecting port 3 with ports 2 and 4.



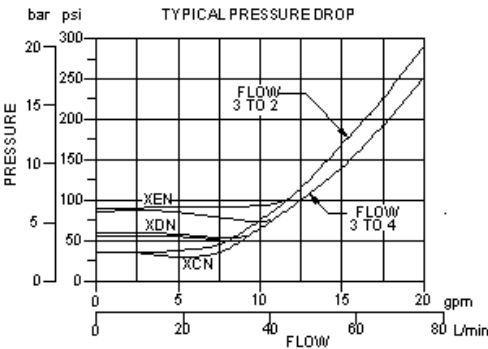
Technical Features

- This valve is not bistable; it is capable of modulating between the two positions shown.
- One pilot valve may be used to vent multiple diverter valves if blocking checks are used at port 1 of each diverter. If blocking checks are not used there will be interaction between high and low pressure legs of the circuit.
- Vent flow out of port 1 is pressure compensated and is listed in Technical Data.
- The vent-to-shift function is self cleaning and therefore insensitive to contamination.
- There must be a pressure source at port 3, relative to port 1, to shift the valve.
- Hardened spool and sleeve provide consistent and low spool leakage rates and excellent wear characteristics.
- One application of this valve is to bypass divider/combiner valves in a limited-slip tractive circuit. Closed, the oil must go through the divider/combiner valves. Open, there is a large path around the divider/combiner valves for efficient high speed operation.
- 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-31A	
Capacity	15 gpm	60 L/min.
Maximum Operating Pressure	5000 psi	350 bar
Nominal Vent Flow	23 in ³ /min.	0,38 L/min.
Series (from Cavity)	Series 1	

Valve Hex Size	7/8 in.	22,2 mm
Valve Installation Torque	30 - 35 lbf ft	40 - 50 Nm
Seal Kits - Cartridge	Buna: 990-031-007	
Seal Kits - Cartridge	Viton: 990-031-006	
Model Weight	0.36 lb.	0.16 kg.



DSCX-XEN

Control	Minimum Control Pressure	Seal Material
Standard Options	Standard Options	Standard Options
X Not Adjustable	C 30 psi (2 bar)	N Buna-N
	D 50 psi (3,5 bar)	V Viton
	E 75 psi (5 bar)	