



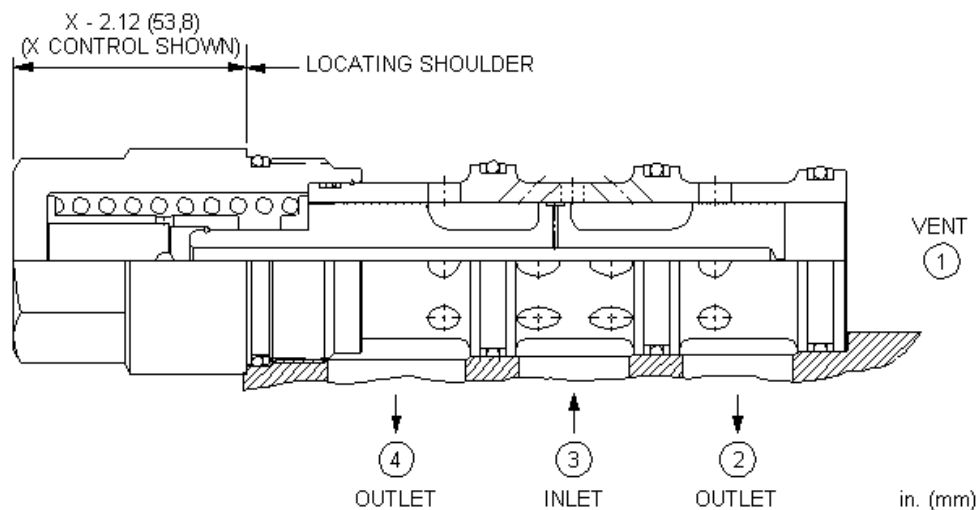
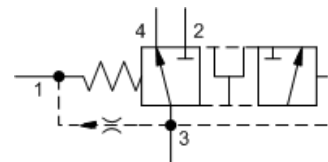
3-way, vent-to-shift, diverter valve

Capacity:
120 gpm (480 L/min.)

Model:
DSIY

Product Description

This vent-to-shift diverter valve is a 2-position, 3-way cartridge that is normally open from port 3 to port 4. 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 to port 2.



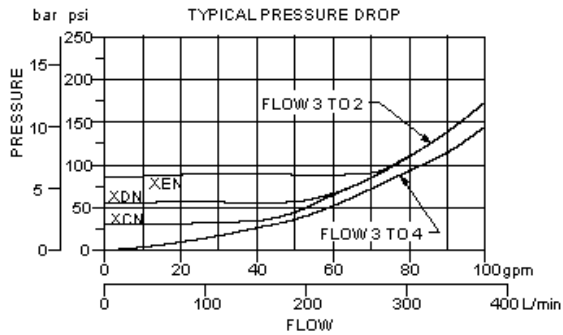
Technical Features

- 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 be used in pairs to select between 2 motors or pumps.
- 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-34A	
Capacity	120 gpm	480 L/min.
Maximum Operating Pressure	5000 psi	350 bar
Nominal Vent Flow	35 in ³ /min.	0,60 L/min.
Series (from Cavity)	Series 4	
Valve Hex Size	1 5/8 in.	41,3 mm

Valve Installation Torque	350 - 375 lbf ft	475 - 500 Nm
Seal Kits - Cartridge	Buna: 990-034-007	
Seal Kits - Cartridge	Viton: 990-034-006	
Model Weight	3.53 lb.	1.60 kg.



DSIY-XEN

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