2-way, pilot-to-shift directional valve with drain to port 4 - normally open

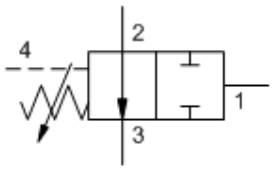
Capacity:
.5 gpm (2 L/min.)

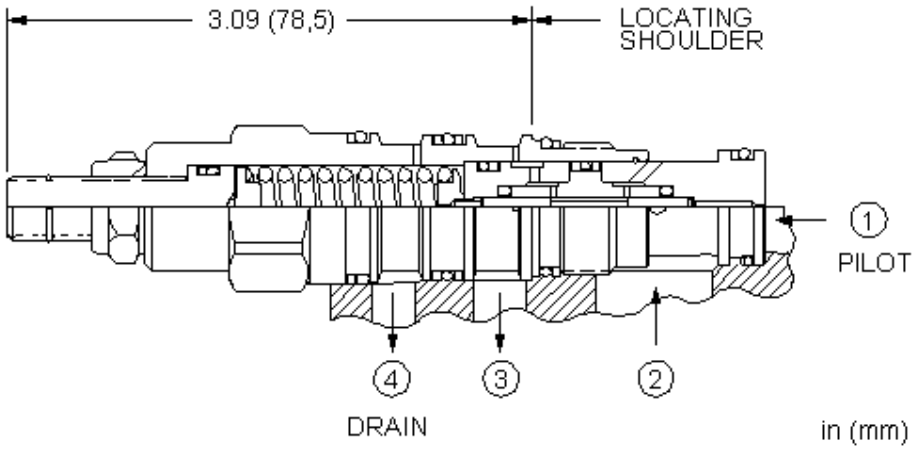
Functional Group:
Products : Cartridges : Directional; DP, DR**, DV** : 2 Way - 4 Port - Normally Open : Direct Acting – Sealed Pilot**

Model:
DRAY

Product Description

The normally-open, direct-acting 2-way directional cartridge with external drain is a pilot unloading valve used to sense pressure in one circuit to switch or unload a valve in a different circuit. When pressure at port 1 exceeds the setting of the valve, the spool shifts to block port 2 from port 3.



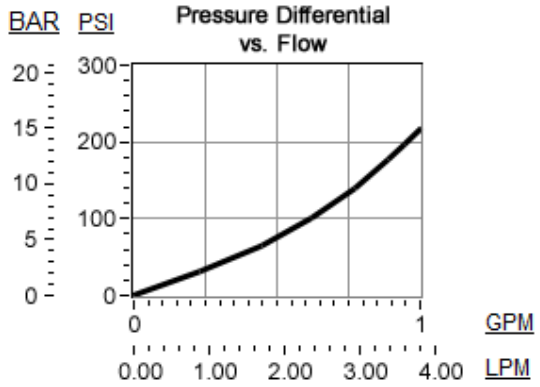


Technical Features

- The pilot area (port 1) and the spring chamber drain (port 4) are positively sealed.
- There is spool leakage between the work ports (ports 2 and 3)of less than 20 drops/min (1,4 cc/min).
- The valve is designed to not modulate and is the equivalent of a hydraulic pressure switch.
- 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-21A	
Capacity	.5 gpm	2 L/min.
Maximum Operating Pressure	5000 psi	350 bar
Maximum Valve Leakage at Reseat	20 drops/min.	
Series (from Cavity)	Series 1	
Reseat	>85% of Set Pressure	
Valve Hex Size	7/8 in.	22,2 mm
Valve Installation Torque	30 - 35 lbf ft	40 - 50 Nm
Adjustment Screw Internal Hex Size	5/32 in.	4 mm
Adjustment Locknut/Cap Hex Size	9/16 in.	15 mm
Adjustment Nut Torque	80 - 90 lbf in.	9 - 10 Nm
Seal Kits - Cartridge	Buna: 990-021-007	
Seal Kits - Cartridge	Viton: 990-021-006	
Model Weight	0.44 lb.	0.20 kg.



DRAY-LAN

Control	Adjustment Range	Seal Material
Standard Options	**Standard Options**	**Standard Options**
L Standard Screw Adjustment	**A** 1000 - 3000 psi (70 - 210 bar), 1000 psi (70 bar) Standard Setting	**N** Buna-N
	C 2000 - 6000 psi (140 - 420 bar), 2000 psi (140 bar) Standard Setting	**V** Viton

Customer specified setting stamped on hex.