



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

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

Functional Group:

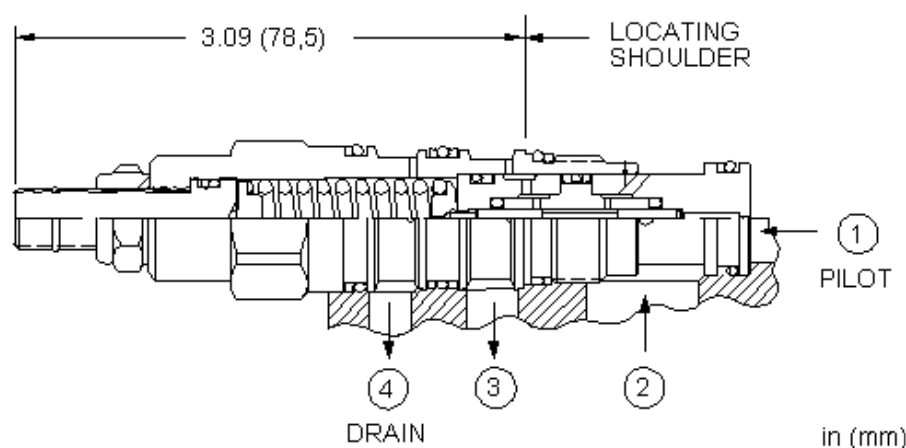
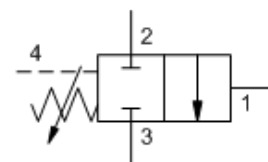
**Products : Cartridges : Directional; DP\*\*, DR\*\*, DV\*\* : 2 Way - 4 Port - Normally Closed : Direct Acting – Sealed Pilot**

Model:

**DRAX**

### Product Description

The normally-closed, 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 connect port 2 to port 3.

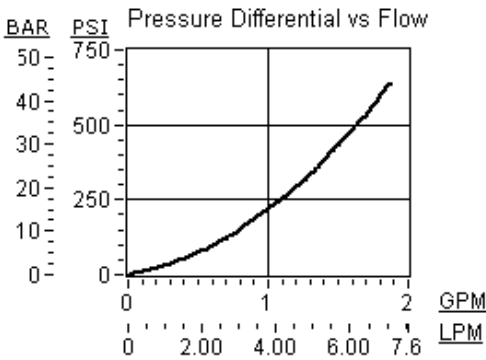


### Technical Features

- 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      |
| 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.     |



DRAX-LAN

| Control                     | Adjustment Range                                                                                                                               | Seal Material       | Material/Coating Modifier                                                                                                                                                                                                                                                             |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard Options            | Standard Options                                                                                                                               | Standard Options    | Preferred Options                                                                                                                                                                                                                                                                     |
| L Standard Screw Adjustment | A 1000 - 3000 psi (70 - 210 bar), 1000 psi (70 bar) Standard Setting<br>C 2000 - 6000 psi (140 - 420 bar), 2000 psi (140 bar) Standard Setting | N Buna-N<br>V Viton | No modifier (standard material with no special coating)<br>Special Options<br><br>/AP Stainless Steel, Passivated<br><br>Control: L<br><br>Our corrosion resistant product line is growing! If you are interested in a corrosion resistant option for this model, please contact Sun. |

When the modifier is /AP, the control must be L

Customer specified setting stamped on hex.