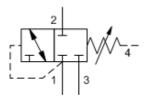
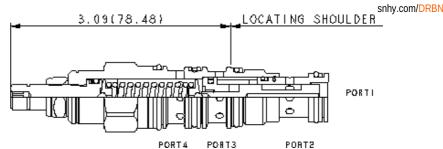
3-way, direct-acting, directional valve with drain to port 4 - normally closed SERIES 1 / CAPACITY: 28 L/min. / CAVITY: T-21A





## CONFIGURATION

L	Control	Standard Screw Adjustment	0
D	Adjustment Range	25 - 800 psi (1,7 - 55 bar), 200 psi (14 bar) Standard Setting	C
Ν	Seal Material	Buna-N	٦
(none) Material/Coating		Standard Material/Coating	Г



Normally closed, direct-acting, 3-way directional cartridges are switching devices typically used in moderate flow circuits. They can be used by themselves or to actuate larger pilot-operated directional cartridges or logic cartridges. The valve shifts when the pressure differential between port 1 and port 4 exceeds the setting.

#### **TECHNICAL DATA**

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Cavity	T-21A		
Series	1		
Capacity	28 L/min.		
Factory Pressure Settings Established at	15 L/min.		
Maximum Operating Pressure	350 bar		
Maximum Valve Leakage at 110 SUS (24 cSt)	30 cc/min.		
Adjustment - No. of CW Turns from Min. to Max. setting	5		
Valve Hex Size	22,2 mm		
Valve Installation Torque	41 - 47 Nm		
Adjustment Screw Internal Hex Size	4 mm		
Locknut Hex Size	15 mm		
Locknut Torque	9 - 10 Nm		
Seal kit - Cartridge	Buna: 990021007		
Seal kit - Cartridge	Polyurethane: 990021002		
Seal kit - Cartridge	Viton: 990021006		
Model Weight	0.18 kg.		

**NOTES** For Series 1 cartridges configured with an O control (panel mount handknob), a .75 in. (19 mm) diameter hole is required in the panel.

### **CONFIGURATION OPTIONS**

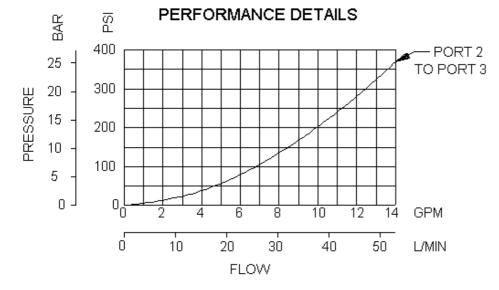
### Model Code Example: DRBNLDN

CONTROL	(L)	ADJUSTMENT RANGE (D)	SEAL MATERIAL	(N)	MATERIAL/COATING
<ul> <li>L Standard Screw Adjustment</li> <li>C Tamper Resistant - Factory Set</li> <li>K Handknob</li> <li>O Handknob with Panel Mount</li> </ul>		<ul> <li>D 25 - 800 psi (1,7 - 55 bar), 200 psi (14 bar) Standard Setting</li> <li>A 500 - 3000 psi (35 - 210 bar), 1000 psi (70 bar) Standard Setting</li> <li>B 50 - 1500 psi (3,5 - 105 bar), 200 psi (14 bar) Standard Setting</li> <li>E 25 - 400 psi (1,7 - 28 bar), 200 psi (14 bar) Standard Setting</li> <li>S 25 - 200 psi (1,7 - 14 bar), 100 psi (7 bar) Standard Setting</li> <li>W 750 - 4500 psi (50 - 315 bar), 1000 psi (70 bar) Standard Setting</li> </ul>	N Buna-N V Viton		Standard Material/Coating /AP Stainless Steel, Passivated

## **TECHNICAL FEATURES**

- Port 3 can be used as a work port.
- ٠
- The flow path between port 2 and port 3 is bidirectional. Because of their direct-acting design, these cartridges feature low internal leakage and low pilot flow consumption. •
- Direct-acting and pilot-operated versions of these valves are interchangeable. They fit the same cavities and have the same flow paths.
- Pressure at port 4 is directly additive to the setting of the valve.
- This valve is not bistable; it is capable of modulating between the two positions shown.
- Maximum pressure at port 3 should be limited to 3000 psi (210 bar). This is due to fatigue strength limits not hydraulic operating limits.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torgue and/or cavity/cartridge • machining variations.

# PERFORMANCE CURVES



# **RELATED MODELS**

DRBNX 2-way, direct-acting, fixed setting, directional valve with drain to port 4 - normally closed