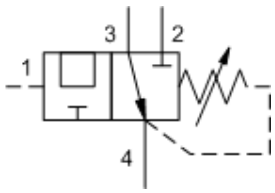
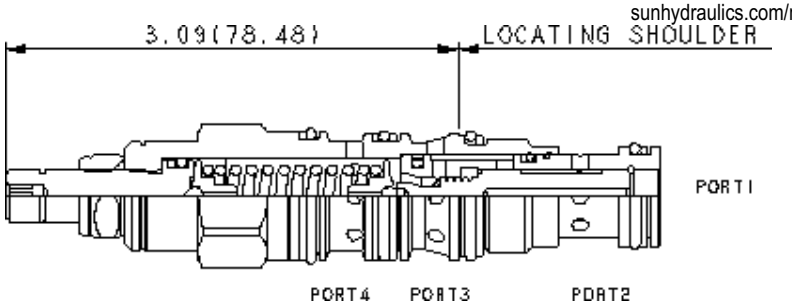
MODEL
**DRBR**

3-way, direct-acting, directional valve with drain to port 4 (3 to 4 open, port 2 blocked)
**SERIES 1 / CAPACITY: 28 L/min. / CAVITY: T-21A**

sunhydraulics.com/model/DRBR




## CONFIGURATION

| | | |
|---|---|---|
| **L** | Control | Standard Screw Adjustment |
| **E** | Adjustment Range | 25 - 400 psi (1,7 - 28 bar), 200 psi (14 bar) Standard Setting |
| **N** | Seal Material | Buna-N |
| **(none)** | Material/Coating | |

Direct-acting, 3-way directional cartridges (3 to 4 open, 2 blocked) 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. |
| 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 |
| 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. |

## CONFIGURATION OPTIONS

**Model Code Example: DRBRLEN**

**CONTROL (L)**

- **L** Standard Screw Adjustment
- **C** Tamper Resistant - Factory Set
- **K** Handknob
- **O** Handknob with Panel Mount

**ADJUSTMENT RANGE (E)**

- **E** 25 - 400 psi (1,7 - 28 bar), 200 psi (14 bar) Standard Setting
- **N** 60 - 800 psi (4 - 55 bar), 200 psi (14 bar) Standard Setting
- **S** 25 - 200 psi (1,7 - 14 bar), 100 psi (7 bar) Standard Setting

**SEAL MATERIAL (N)**

- **N** Buna-N
- **V** Viton

**MATERIAL/COATING**

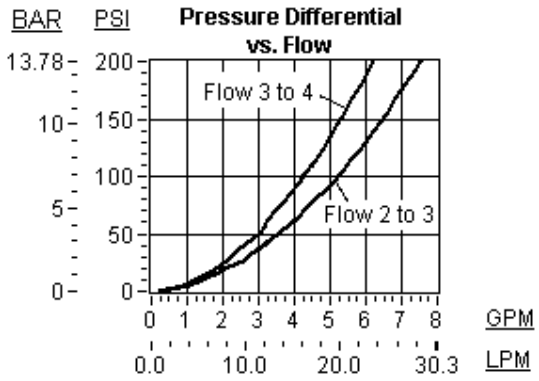
- Standard Material/Coating
- **/AP** Stainless Steel, Passivated
- **/LH** Mild Steel, Zinc-Nickel

## TECHNICAL FEATURES

- Note: 800 psi (55 bar) is the highest setting possible with this valve.
- Maximum pressure at port 3 should be limited to 3000 psi (210 bar). This is due to fatigue strength limits not hydraulic operating limits.
- 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.
- This valve is not bistable; it is capable of modulating between the two positions shown.
- 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.

## PERFORMANCE CURVES

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## RELATED MODELS

- DRBRX 3-way, direct-acting, fixed setting, directional valve with drain to port 4 (3 to 4 open, port 2 blocked)

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