


CONFIGURATION

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|---------------|------------------|---|
| L | Control | Standard Screw Adjustment |
| W | Adjustment Range | 150 - 4500 psi (10,5 - 315 bar), 1000 psi (70 bar) Standard Setting |
| N | Seal Material | Buna-N |
| (none) | Material/Coating | Standard Material/Coating |

Pilot-operated, 3-way directional cartridges (1 to 2 open, 3 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.

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|--|-------------------------|
| Cavity | T-21A |
| Series | 1 |
| Capacity | 28 L/min. |
| Factory Pressure Settings Established at | 15 L/min. |
| Maximum Operating Pressure | 350 bar |
| Control Pilot Flow | 0,11 - 0,16 L/min. |
| Maximum Valve Leakage at 110 SUS (24 cSt) | 15 cc/min.@70 bar |
| 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 | EPDM: 990021014 |
| Seal kit - Cartridge | Polyurethane: 990021002 |
| Seal kit - Cartridge | Viton: 990021006 |
| Model Weight | 0.19 kg. |

CONFIGURATION OPTIONS
Model Code Example: DPBPLWN

| CONTROL | (L) ADJUSTMENT RANGE | (W) SEAL MATERIAL | (N) MATERIAL/COATING |
|---|--|--------------------------|-----------------------------|
| L Standard Screw Adjustment | W 150 - 4500 psi (10,5 - 315 bar), 1000 psi (70 bar) Standard Setting | N Buna-N | Standard Material/Coating |
| C Tamper Resistant - Factory Set | A 100 - 3000 psi (7 - 210 bar), 1000 psi (70 bar) Standard Setting | E EPDM | /LH Mild Steel, Zinc-Nickel |
| K Handknob | B 50 - 1500 psi (3,5 - 105 bar), 1000 psi (70 bar) Standard Setting | V Viton | |
| | D 25 - 800 psi (1,7 - 55 bar), 400 psi (28 bar) Standard Setting | | |
| | E 25 - 400 psi (1,7 - 28 bar), 200 psi (14 bar) Standard Setting | | |
| | J 25 - 1500 psi (1,7 - 105 bar), 1000 psi (70 bar) Standard Setting | | |

TECHNICAL FEATURES

- Port 4 can be blocked to prevent the valve from shifting.
- Port 3 can be used as a work port.
- 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.
- Cartridges configured with EPDM seals are for use in systems with phosphate ester fluids. Exposure to petroleum based fluids, greases and lubricants will damage the seals.
- When pilot pressure exceeds the valve setting, pilot flow may be a consideration. See performance curves for pilot consumption vs. load pressure above the valve setting.
- 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

