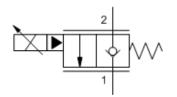


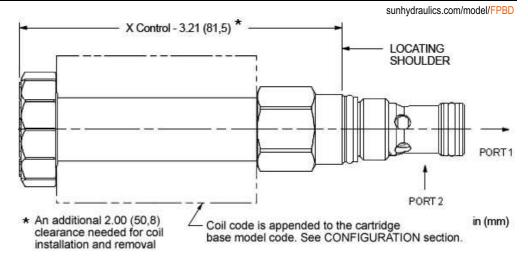


FLeX Series pilot-operated, normally closed, electro-proportional throttle - flow 2-1 - 3000 psi (210 bar)

CAPACITY: 20 L/min. / CAVITY: T-162A







This valve is a pilot-operated, normally closed, electro-proportional throttle with reverse free-flow check. Energizing the coil generates an opening force on the pilot stage which vents the main stage poppet to open proportionally, allowing flow from port 2 to 1. In the open condition, flow from 1 to 2 will cause the valve to auto-close and only pilot flow will pass from 1 to 2.

TECHNICAL DATA

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

| Hysteresis (with dither) | 15% |
|--|-----------------------|
| Linearity (with dither) | 3% |
| Repeatability (with dither) | 3% |
| Recommended dither frequency | 140 Hz |
| Maximum Operating Pressure | 210 bar |
| Maximum Valve Leakage at 110 SUS (24 cSt) | 0,07 cc/min.@210 bar |
| Check Cracking Pressure | 7 bar |
| Viscosity Range | 2,8 - 380 cSt |
| Deadband, nominal (as a percentage of input) | 48% |
| Response Time - Typical | 50 ms |
| Switching Frequency | 15,000 max. cycles/hr |
| Seal kit - Cartridge | Buna: 990162007 |
| Seal kit - Cartridge | Viton: 990162006 |

NOTES

- Please verify cartridge clearance requirements when choosing a Sun manifold. Different valve controls and coils require different clearances.
- An additional 2.00 inches (50,8 mm) beyond the valve extension is needed for coil installation and removal.

CONFIGURATION OPTIONS

Model Code Example: FPBDXDN

 CONTROL
 (X)
 FLOW RATE
 (D)
 SEAL MATERIAL
 (N)
 COIL*

X No Manual Override

D Nominal 5 gpm @ 200 psi (14 bar) differential (20 L/min.)

N Buna-N
V Viton

* Additional coil options are available

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