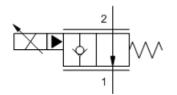


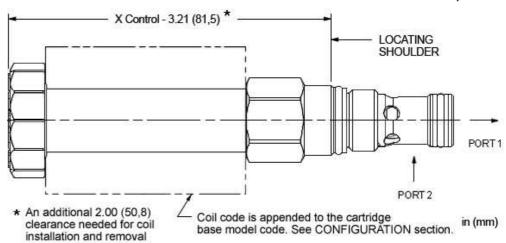


FLeX Series pilot-operated, normally open, electro-proportional throttle - flow 2-1 CAPACITY: 20 L/min. / CAVITY: T-162A



snhy.com/FPBI





This valve is a pilot-operated, normally open, electro-proportional throttle with reverse free-flow check. Energizing the coil generates a closing force on the pilot stage which pushes the main stage poppet against the seat, proportionally blocking flow from port 2 to 1. In the open condition, flow from 1 to 2 will cause the valve to autoclose 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	350 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	0,07 cc/min.@350 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: FPBIXDN

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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