

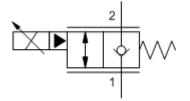


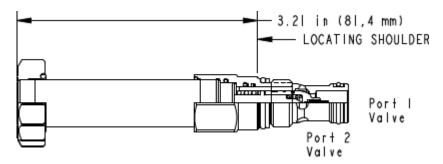
FLeX Series pilot-operated, normally closed, electro-proportional throttle with reverse flow check - flow 2-1

CAPACITY: 5 gpm / CAVITY: T-162A



sunhydraulics.com/model/FPBG





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. The check will allow flow from 1 to 2 in either the open or closed condition.

## **TECHNICAL DATA** NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Maximum Operating Pressure	5000 psi
Hysteresis (with dither)	15%
Linearity (with dither)	3%
Repeatability (with dither)	3%
Recommended dither frequency	140 Hz
Check Cracking Pressure	100 psi
Deadband, nominal (as a percentage of input)	48%
Maximum Valve Leakage at 110 SUS (24 cSt)	0.004 in³/min.@5000 psi
Viscosity Range	35 - 2000 SUS
Response Time - Typical	50 ms
Switching Frequency	15,000 max. cycles/hr
Seal kit - Cartridge	Buna: 990-162-007
Seal kit - Cartridge	Viton: 990-162-006

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
CONTROL

Model Code Example: FPBGXDN

FLOW RATE

(X)

(D)

SEAL MATERIAL

(N) COIL \*

No coil

X No Manual Override

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

N Buna-NV Viton

Additional coil options are available

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