


[sunhydraulics.com/model/FPBF](http://sunhydraulics.com/model/FPBF)

### CONFIGURATION

<b>X</b>	Control	No Manual Override
<b>D</b>	Flow Rate	Nominal 5 gpm @ 200 psi (14 bar) differential (20 L/min.)
<b>N</b>	Seal Material	Buna-N
<b>(none)</b>	Coil	No coil

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.

Maximum Operating Pressure	350 bar
Hysteresis (with dither)	15%
Linearity (with dither)	3%
Repeatability (with dither)	3%
Recommended dither frequency	140 Hz
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: **FPBFXDN**

<b>CONTROL</b>	<b>(X)</b> FLOW RATE	<b>(D)</b> SEAL MATERIAL	<b>(N)</b> COIL *
<b>X</b> No Manual Override	<b>D</b> Nominal 5 gpm @ 200 psi (14 bar) differential (20 L/min.)	<b>N</b> Buna-N <b>V</b> Viton	<b>No coil</b> * Additional coil options are available