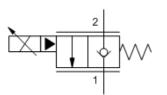
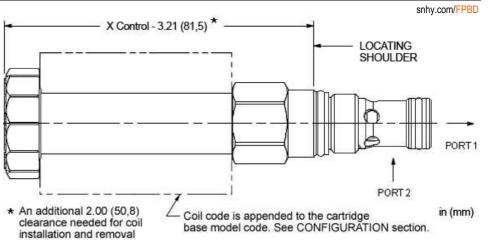


MODEL FPBD





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	

• 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 No Manual Override	(X) FLOW RATE D Nominal 5 gpm @ 200 psi (14 bar) differential (20 L/min.)	(D) SEAL MATERIAL N Buna-N V Viton	(N) COIL * No c * Addition	oil al coil options are available