



This valve is a 3-way, meter-in, electro-proportional throttle. The flow path, unenergized, has the supply blocked at port 1 and port 2 connected to tank at port 3. Energizing the coil generates a closing force on the spool, creating a metering orifice in the 1 to 2 direction that is proportional to the coil command current. The valve self-compensates in the 1 to 2 direction and with the addition of an external compensator will provide pressure compensated flow control. Flow in the 2 to 3 direction is not proportional.

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

Manual Override Force Requirement	5 lbs/1000 psi @ Port 1
Manual Override Stroke	.10 in.
Maximum Valve Leakage at 110 SUS (24 cSt)	2 in <sup>3</sup> /min.@1000 psi
Seal kit - Cartridge	Buna: 990-411-007
Seal kit - Cartridge	Viton: 990-411-006

**NOTES:** • Please verify cartridge clearance requirements when choosing a Sun manifold. Different valve controls and coils require different clearances.

**CONFIGURATION OPTIONS**

**Model Code Example: FMDBXCN**

CONTROL	(X)	FLOW RATE	(C)	SEAL MATERIAL	(N)	COIL *
<b>X</b> No Manual Override		<b>C</b> .1 - 6 gpm (0,4 - 23 L/min.)		<b>N</b> Buna-N		No coil
<b>D</b> Twist/Lock (Dual) Manual Override		<b>A</b> .1 - 1.6 gpm (0,4 - 6.1 L/min.)		<b>V</b> Viton		* Additional coil options are available
<b>E</b> Twist (Extended) Manual Override		<b>B</b> .1 - 4 gpm (0,4 - 15 L/min.)				
<b>L</b> Twist/Lock (Detent) Manual Override						
<b>M</b> Manual Override						
<b>T</b> Twist (Momentary) Manual Override						