

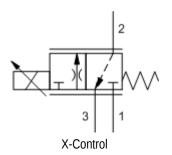


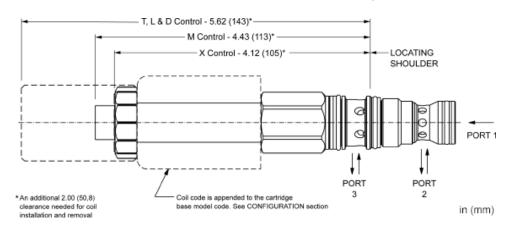
Electro-proportional 3-way flow control valve, meter in (740 Series)

CAPACITY: 9 gpm / CAVITY: T-11A



sunhydraulics.com/model/FMDF





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 is drained 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 and is limited in the interest of increased resolution and capacity. Flow capacity in the 2-to-3 direction is about 1.5 gpm (6 L/min). This valve is meant to be used in a circuit that has a separate passage to tank such as a cushion lock circuit. Two FMDFs in conjunction with a cushion lock circuit create a meter-in/meter-out 3-position 4-way.

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

Maximum Operating Pressure	5000 psi
Manual Override Force Requirement	5 lbs/1000 psi @ Port 1
Manual Override Stroke	.10 in.
Maximum Valve Leakage at 110 SUS (24 cSt)	2 in³/min.@1000 psi

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: FMDFXCDN

FLOW RATE

(X)

(C) SEAL MATERIAL

Buna-N

Viton

(N) COIL *

X No Manual Override

- D Twist/Lock (Dual) Manual Override
- L Twist/Lock (Detent) Manual Override
- M Manual Override
- Twist (Momentary) Manual Override

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•		0 gpiii (0,4 23 L/iiiii.)	
Α	.1 -	1.6 gpm (0.4 - 6.1 L/min.)	

B .1 - 4 gpm (0,4 - 15 L/min.)

D .1 - 9 gpm (0,4 - 34 L/min.)

No coil

Additional coil options are available

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