



This valve is a normally closed, electro-proportional throttle that is spring-biased closed. Energizing the coil generates an opening force on the spool proportional to the command current, and this force is countered by the spring and flow forces. This force balance creates a metering orifice whose effective size is proportional to the current. The valve exhibits a large degree of self-compensation in the 1-to-2 direction and will provide proportional flow control in the 2-to-1 direction with the addition of an external compensator. Full reverse flow (2-to-1) with 100% command in the 2-to-1 direction is possible without a compensator under all conditions.

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)	6 in ³ /min. @ 3000 psi
Seal kit - Cartridge	Buna: 990-413-007
Seal kit - Cartridge	EPDM: 990-010-014
Seal kit - Cartridge	Polyurethane: 990-413-002
Seal kit - Cartridge	Viton: 990-413-006

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

CONFIGURATION OPTIONS

Model Code Example: FPCCXCN

CONTROL	(X)	FLOW RATE	(C)	SEAL MATERIAL	(N)	COIL *
X No Manual Override		C .25 - 7 gpm (1 - 28 L/min.)		N Buna-N		No coil
D Twist/Lock (Dual) Manual Override		A .1 - 1.5 gpm (0,4 - 6 L/min.)		E EPDM		* Additional coil options are available
E Twist (Extended) Manual Override		B .15 - 3.5 gpm (0,6 - 14 L/min.)		V Viton		
L Twist/Lock (Detent) Manual Override		D .25 - 10 gpm (1 - 40 L/min.)				
M Manual Override						
T Twist (Momentary) Manual Override						