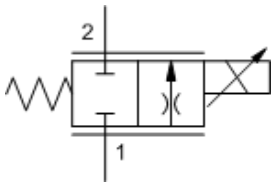
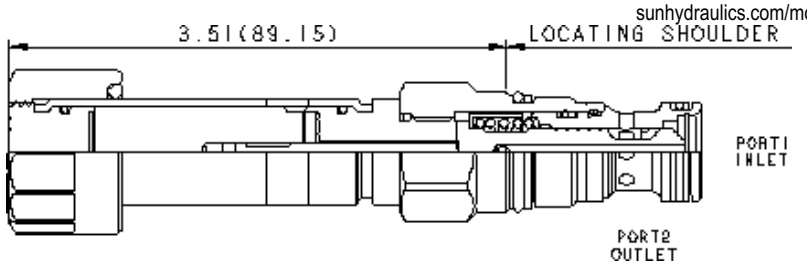
MODEL
FPCC

Electro-proportional flow control valve - normally closed
SERIES 1 / CAPACITY: 10 gpm / CAVITY: T-13A

sunhydraulics.com/model/FPCC





CONFIGURATION

X	Control	No Manual Override
B	Flow Rate	.15 - 3.5 gpm (0,6 - 14 L/min.)
N	Seal Material	Buna-N
(none)	Coil	No coil

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.

Maximum Valve Leakage at 110 SUS (24 cSt)	6 in³/min.@3000 psi
Manual Override Force Requirement	5 lbs/1000 psi @ Port 1
Manual Override Stroke	.10 in.
Seal kit - Cartridge	Buna: 990413007
Seal kit - Cartridge	EPDM: 990010014
Seal kit - Cartridge	Polyurethane: 990413002
Seal kit - Cartridge	Viton: 990413006

NOTES

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

CONFIGURATION OPTIONS

Model Code Example: FPCCXBN

CONTROL (X)	FLOW RATE (B)	SEAL MATERIAL (N)	COIL *
X No Manual Override	**B** .15 - 3.5 gpm (0,6 - 14 L/min.)	**N** Buna-N	No coil
D Twist/Lock (Dual) Manual Override	**C** .25 - 7 gpm (1 - 28 L/min.)	**E** EPDM	**212** DIN 43650-Form A, 12 VDC
E Twist (Extended) Manual Override	**A** .1 - 1.5 gpm (0,4 - 6 L/min.)	**V** Viton	**224** DIN 43650-Form A, 24 VDC
L Twist/Lock (Detent) Manual Override	**D** .25 - 10 gpm (1 - 40 L/min.)		**912** Deutsch DT04-2P, 12 VDC
M Manual Override			**924** Deutsch DT04-2P, 24 VDC
T Twist (Momentary) Manual Override			* Additional coil options are available

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