


sunhydraulics.com/model/FPCH

CONFIGURATION

X	Control	No Manual Override
A	Flow Rate	.1 - 1.5 gpm (0,4 - 6 L/min.)
N	Seal Material	Buna-N
(none)	Coil	No coil

This valve is a normally open electro-proportional throttle that is spring-biased open. Energizing the coil generates a closing 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 no 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)	100 cc/min.@210 bar
Manual Override Force Requirement	33 N/100 bar @ Port 1
Manual Override Stroke	2,5 mm
Seal kit - Cartridge	Buna: 990413007
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: FPCHXAN

CONTROL	(X) FLOW RATE	(A) SEAL MATERIAL	(N) COIL *
X No Manual Override	A .1 - 1.5 gpm (0,4 - 6 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	B .15 - 3.5 gpm (0,6 - 14 L/min.)	V Viton	224 DIN 43650-Form A, 24 VDC
L Twist/Lock (Detent) Manual Override			224NX01 DIN 43650-Form A, 24 VDC, no transient voltage suppression (TVS) diodes, with XMD-01 driver
M Manual Override			224NX02 DIN 43650-Form A, 24 VDC, no transient voltage suppression (TVS) diodes, with XMD-02 driver
T Twist (Momentary) Manual Override			912 Deutsch DT04-2P, 12 VDC 912NX01 Deutsch DT04-2P, 12 VDC, no transient voltage suppression (TVS) diodes, with XMD-01 driver

driver

912NX02 Deutsch DT04-2P, 12 VDC, no transient voltage suppression (TVS) diodes, with XMD-02 driver

924 Deutsch DT04-2P, 24 VDC

924NX01 Deutsch DT04-2P, 24 VDC, no transient voltage suppression (TVS) diodes, with XMD-01 driver

924NX02 Deutsch DT04-2P, 24 VDC, no transient voltage suppression (TVS) diodes, with XMD-02 driver

* Additional coil options are available