



### CONFIGURATION

<b>M</b>	Control	Manual Override
<b>C</b>	Flow Rate	.25 - 7 gpm (1 - 28 L/min.)
<b>N</b>	Seal Material	Buna-N
<b>(none)</b>	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: FPCHMCN**

CONTROL	(M) FLOW RATE	(C) SEAL MATERIAL	(N) COIL *
<b>M</b> Manual Override	<b>C</b> .25 - 7 gpm (1 - 28 L/min.)	<b>N</b> Buna-N	No coil
<b>X</b> No Manual Override	<b>A</b> .1 - 1.5 gpm (0,4 - 6 L/min.)	<b>E</b> EPDM	<b>212</b> DIN 43650-Form A, 12 VDC
<b>D</b> Twist/Lock (Dual) Manual Override	<b>B</b> .15 - 3.5 gpm (0,6 - 14 L/min.)	<b>V</b> Viton	<b>224</b> DIN 43650-Form A, 24 VDC
<b>E</b> Twist (Extended) Manual Override			<b>224NX01</b> DIN 43650-Form A, 24 VDC, no transient voltage suppression (TVS) diodes, with XMD-01 driver
<b>L</b> Twist/Lock (Detent) Manual Override			<b>224NX02</b> DIN 43650-Form A, 24 VDC, no transient voltage suppression (TVS) diodes, with XMD-02 driver
<b>T</b> Twist (Momentary) Manual Override			<b>912</b> Deutsch DT04-2P, 12 VDC <b>912NX01</b> 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