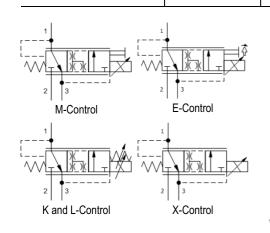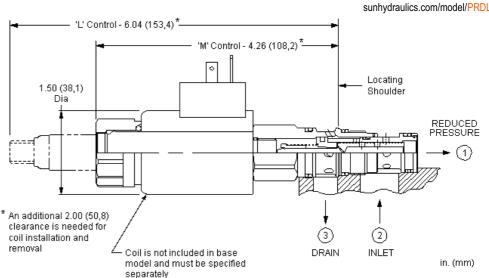**sun** hydraulics®

MODEL
PRDL

Electro-proportional, direct-acting, pressure reducing/relieving valve with open transition
SERIES 1 / CAPACITY: 20 L/min. / CAVITY: T-11A

sunhydraulics.com/model/PRDL

M-Control

E-Control

K and L-Control

X-Control

'L' Control - 6.04 (153,4) *

'M' Control - 4.26 (108,2) *

1.50 (38,1) Dia

Locating Shoulder

REDUCED PRESSURE

1

* An additional 2.00 (50,8) clearance is needed for coil installation and removal

Coil is not included in base model and must be specified separately

3 DRAIN

2 INLET

in. (mm)

This electro-proportional, direct-acting reducer/reliever valve reduces a high primary pressure at the inlet (port 2) to a constant reduced pressure at port 1, with a full flow relief function from port 1 to tank (port 3). The valve is biased to the relieving mode. Energizing the coil connects port 2 to port 1. Increasing the current to the coil will proportionally increase the reduced pressure at port 1. If pressure at port 1 exceeds the setting induced by the coil, pressure at port 1 is relieved to port 3. This valve is open in the transition from reducing to relieving. It provides good pressure control and dynamic response. Optional full manual control is available.

TECHNICAL DATA

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

Maximum Operating Pressure	350 bar
Maximum Valve Leakage at 110 SUS (24 cSt)	330 cc/min.
Adjustment - No. of CW Turns from Min. to Max. setting	5
Locknut Hex Size	15 mm
Locknut Torque	9 - 10 Nm
Seal kit - Cartridge	Buna: 990511007
Seal kit - Cartridge	Viton: 990511006

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

CONFIGURATION OPTIONS

Model Code Example: PRDLMDN

CONTROL	(M)	OPERATING RANGE	(D)	SEAL MATERIAL	(N)	COIL *
M Manual Override (Standard)		**D** 50 - 485 psi (3,5 - 33,5 bar)		**N** Buna-N		No coil
E Twist (Extended) Manual Override		**E** 25 - 250 psi (1,7 - 18 bar)		**E** EPDM		**212** DIN 43650-Form A, 12 VDC
L Standard Screw Adjustment		**B** 100 - 1125 psi (7 - 77,5 bar)		**V** Viton		**224** DIN 43650-Form A, 24 VDC
X No Manual Override		**S** 10 - 100 psi (0,7 - 7 bar)				**912** Deutsch DT04-2P, 12 VDC
						924 Deutsch DT04-2P, 24 VDC

* Additional coil options are available