

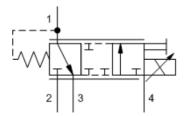


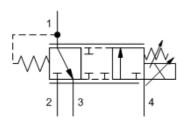
Electro-proportional, direct-acting, pressure reducing/relieving valve with drain to port 4

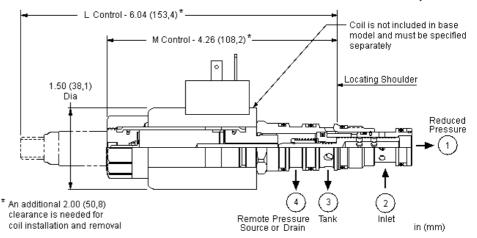
SERIES 1 / CAPACITY: 20 L/min. / CAVITY: T-21A



snhy.com/PSDF







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. Draining port 4 makes the valve insensitive to pressure at port 3. This valve is closed in the transition between reducing and relieving resulting in very low consumption of oil. 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)	41 cc/min.	
Optimum Inlet Pressure	210 bar	
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: 990021007	
Seal kit - Cartridge	Polyurethane: 990021002	
Seal kit - Cartridge	Viton: 990021006	

NOTES

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

CONFIGURATION OPTIONS

Model Code Example: PSDPMDN

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
L Standard Screw Adjustment		B 100 - 1125 psi (7 - 77,5 bar)		V Viton		212 DIN 43650

E 25 - 250 psi (1,7 - 18 bar)

212 DIN 43650-Form A, 12 VDC 224 DIN 43650-Form A, 24 VDC 712 Twin Lead, 12 VDC 724 Twin Lead, 24 VDC 912 Deutsch DT04-2P, 12 VDC 924 Deutsch DT04-2P, 24 VDC

* Additional coil options are available