SL-PCA PRESSURE COMPENSATING REGULATOR VALVE

DESCRIPTION

16 size, 1 5/16-12 thread, "Super" series, pressure compensating regulator valve.

OPERATION

The SL-PCA-0P with an external orifice between ports (3) and (1) maintains a constant flow rate across the external orifice, regardless of load pressure changes in the system upstream of (3), or in the bypass leg at (2) as long as pressure at (2) is less than (1). The valve's spool maintains a constant differential pressure across the external orifice, thereby regulating the hydraulic flow rate across the external orifice (see options table for pressure ranges). When used with an orifice as described above, it functions as a priority type regulator, delivering pump flow first to the external orifice, then bypassing excess to (2). All ports may be fully pressurized. The SL-PCA-0V with a dump valve and a pilot relief valve at (1) acts as main stage of a ventable relief valve.
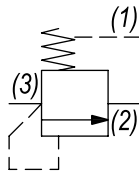
FEATURES

- Hardened parts for long life.
- Industry common cavity.
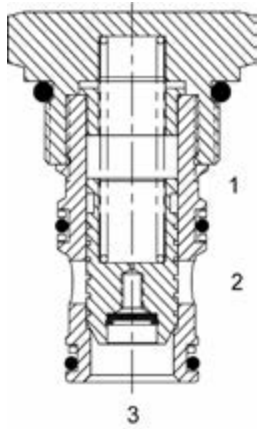
Can be used as a logic element. SL-PCA-0P is commonly used as a bypass flow regulator (100 PSI recommended). SL-PCA-0V is commonly used as the main stage of a ventable relief valve (50 and 100 PSI recommended).
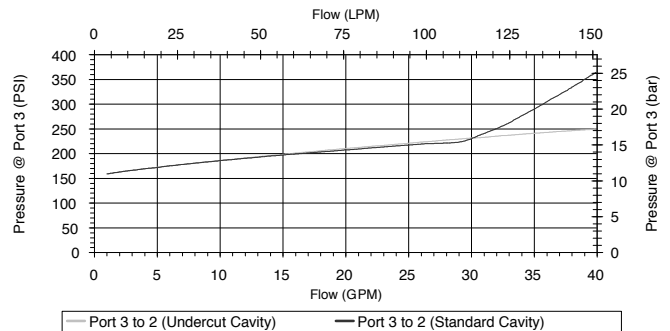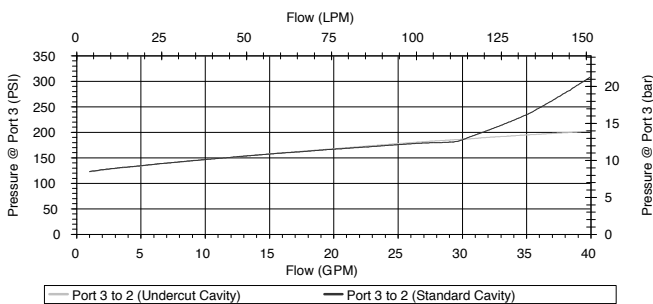
HYDRAULIC SYMBOL

VALVE SPECIFICATIONS

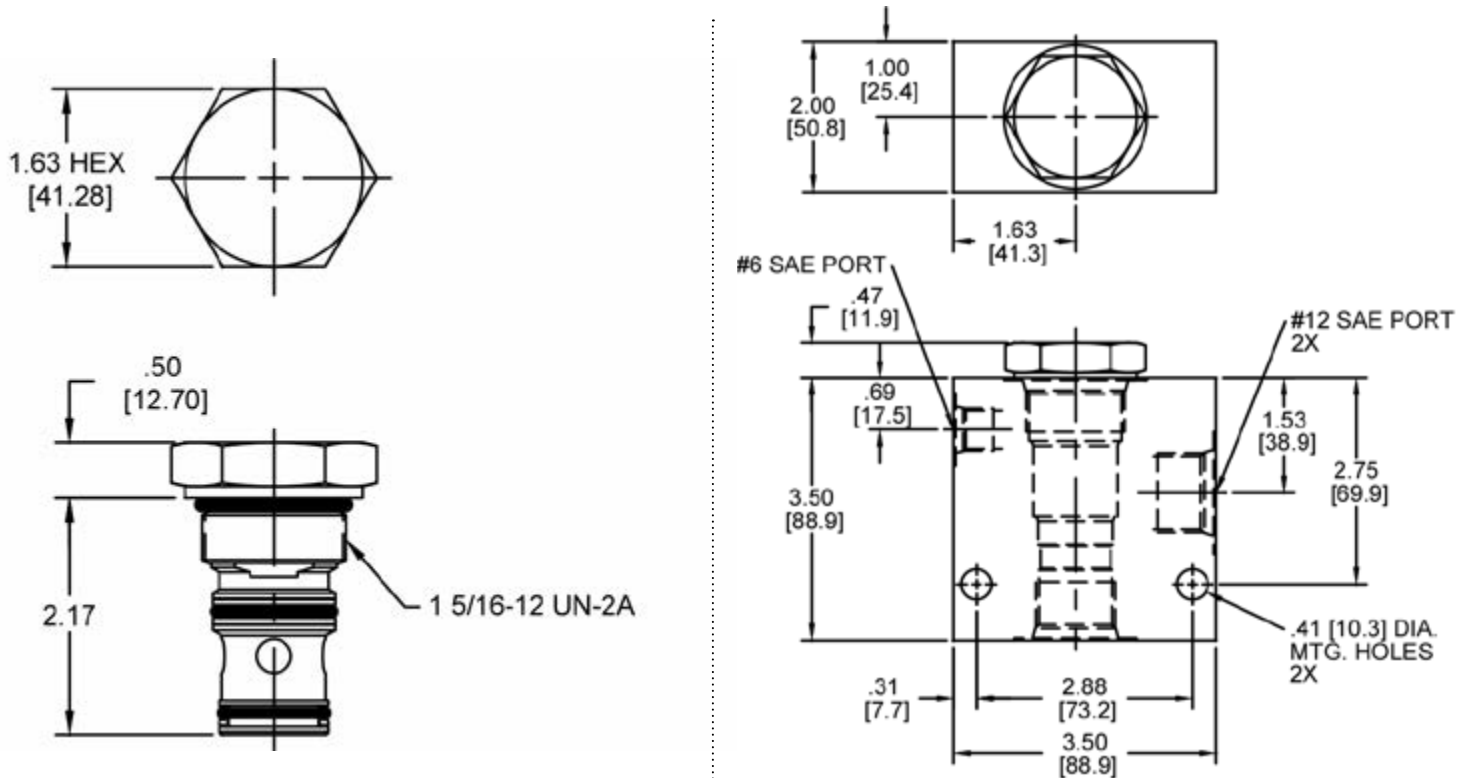|	
Nominal Flow	40 GPM (151 LPM)
Rated Operating Pressure	3500 PSI (241 bar)
Seat Ratio	Initially area of Pilot is 1.2 times the area at Port (3), then 1:1
Viscosity Range	36 to 3000 SSU (3 to 647 cSt)
Filtration	ISO 18/16/13
Media Operating Temp. Range	-40° to 250°F (-40° to 120°C)
Weight	.70 lbs (.32 kg)
Operating Fluid Media	General Purpose Hydraulic Fluid
Cartridge Torque Requirements	90 ft-lbs (122 Nm)
Cavity	SUPER 3WS
Cavity Form Tool (Finishing)	40500021
Seal Kit	21191406

PERFORMANCE

Actual Test Data (Cartridge Only)

Via Malavolti, 36 - 41122 Modena - ITALY - Phone +39 (059) 254895 - Fax +39 (059) 253512 - mail: tecnord@tecnord.com - **www.tecnord.com**

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DIMENSIONS

1.63 HEX
[41.28]

.50
[12.70]

2.17

1 5/16-12 UN-2A

1.00
[25.4]

2.00
[50.8]

1.63
[41.3]

#6 SAE PORT

.47
[11.9]

.69
[17.5]

3.50
[88.9]

#12 SAE PORT
2X

1.53
[38.9]

2.75
[69.9]

.41 [10.3] DIA.
MTG. HOLES
2X

.31
[7.7]

2.88
[73.2]

3.50
[88.9]

Body Weight: 1.89 lbs (.86 kg)

ORDERING INFORMATION

SL-PCA – _____ – _____ – _____

OPTIONS
Buna, Pilot to Close **0P**
Viton, Pilot to Close **VP**
Buna, Vent to Open **0V**
Viton, Vent to Open **VV**
Buna, Pilot to Close with Seals **0B**
Viton, Pilot to Close with Seals **VB**
Buna, Vent to Open with Seals **0C**
Viton, Vent to Open with Seals **VC**

BODIES
Blank Without Body
S #12 SAE Ports

Δ P SETTING
@ 1 GPM with Pilot Vented
0020 20 PSI
0050 50 PSI
0100 100 PSI
0150 150 PSI

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