



Logic Elements Technical Information

Pressure Compensator PC16-LPS

OPERATION

The CP312-6 is a 16-size, load sense, priority, static, pressure compensator. The valve will provide on-demand priority flow to port 2 in the required amount (dependent on the load sense pressure on port 1), allowing the excess flow to go to auxiliary functions through port 4.

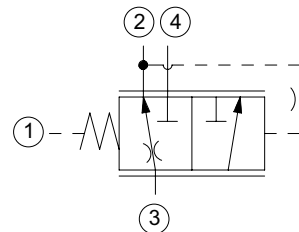
APPLICATION

Common applications include steering circuits that require pre-compensated, priority flow to go to the steering system, and the excess flow will go to an auxiliary function, like a fan motor. To obtain dynamic load sensing (priority type pre-comp) add in orifice between ports 2 and 1 in the manifold. This provides faster response and is commonly used in steering to flush out LS line. See Circuit Example.

SPECIFICATION

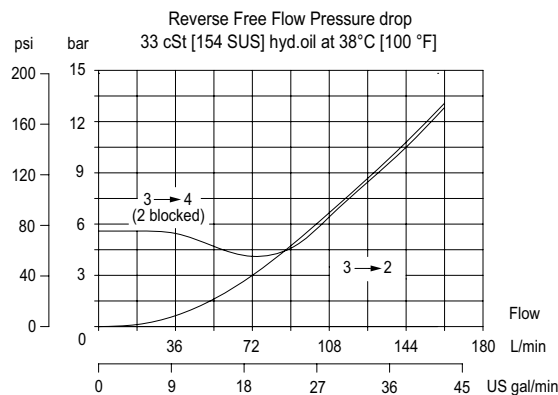
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [100 psi]	114 l/min [30 US gal/min]
Weight	0.63 kg [1.39 lb]
Cavity	CP16-4

SCHEMATIC



PERFORMANCE CURVE

Theoretical performance





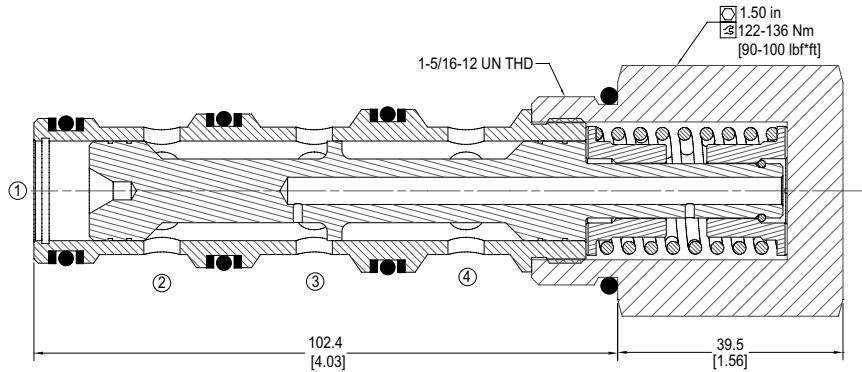
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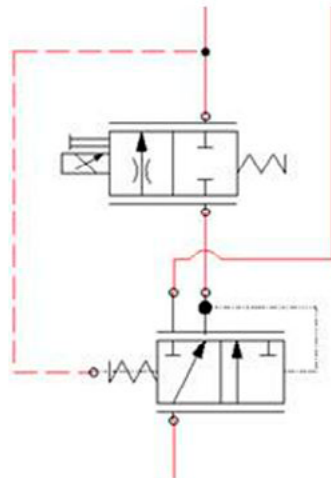
DIMENSION

mm [in]

Cross-sectional view



EXAMPLE CIRCUITS



Pre-Compensated Proportional Flow

ORDERING INFORMATION

PC16-LPS - XX - X - 00

Pressure Compensator, 16 size
Load Sense, Priority, Static

Compensator Spring

Code	Shift Pressure
5.5	5.5 Bar (80 psi)
10	10 Bar (150 psi)

Seal Option

Code	Seal Material	Seal kit
B	Buna-N	120025
V	Viton	120026

Housings & Ports	Housing P/N
00: Cartridge Only	No Body
6B: 3/4 BSP, AL	CP16-4-6B
8B: 1 BSP, AL	CP16-4-8B
12S: #12 SAE, AL	CP16-4-12S
16S: #16 SAE, AL	CP16-4-16S

Other housings available