

Logic Elements Technical Information

Pressure Compensator CP313-6

OPERATION

The CP313-6 is a 20-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.

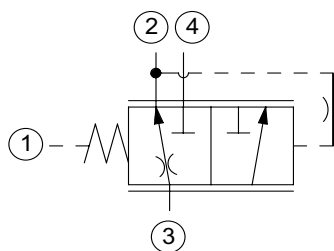
APPLICATION

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]	200 l/min [53 US gal/min]
Weight	1.33 kg [2.93 lb]
Cavity	SDC20-4

SCHEMATIC

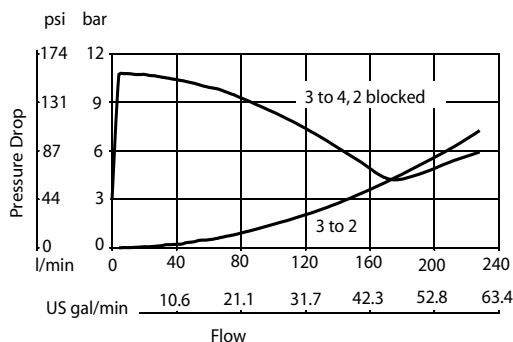


PERFORMANCE CURVE

Theoretical performance

Pressure Drop

33 cSt [154 SUS] hyd.oil @ 38° C [100° F]



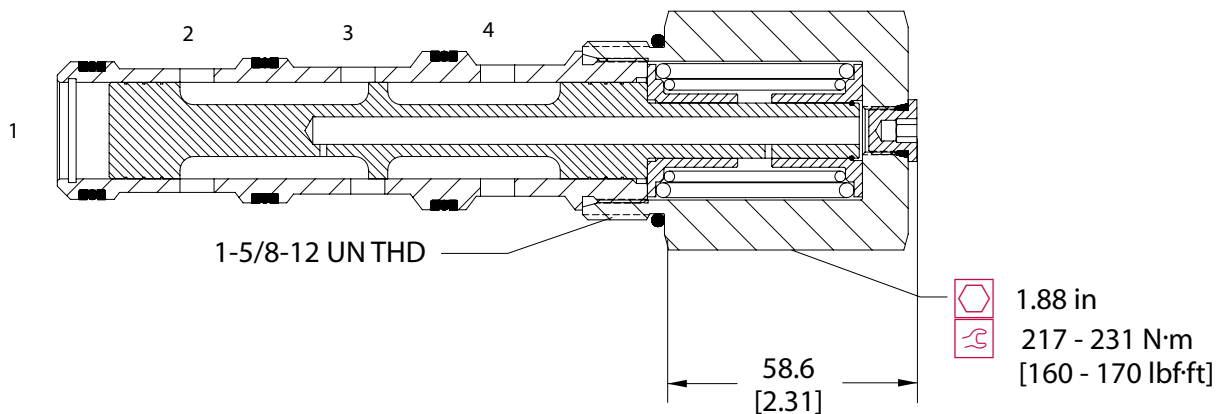
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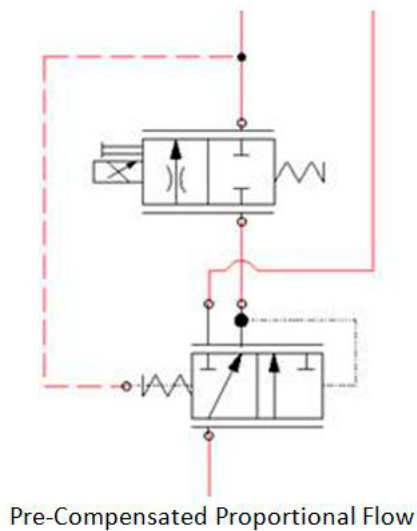
DIMENSION

mm [in]

Cross-sectional view



EXAMPLE CIRCUITS



ORDERING INFORMATION

CP313 - 6 - B - 16S - 080

Seals

B = Buna-N
V = Viton

Seal kit
120181
120182

Housing and ports

0 = No Housing
8B = AL, 1 BSP
10B = AL, 1-1/4 BSP
16S = AL, #16 SAE
20S = AL, #20 SAE
Other housings available

Housing P/N

No Housing
CP20-4-8B
CP20-4-10B
CP20-4-16S
CP20-4-20S

Compensator Spring

	bar	[psi]
050	3.4	[50]
080	5.5	[80]
100	6.9	[100]
130	9.0	[130]
150	10.3	[150]