



Logic Elements Technical Information

Pressure Compensator CP310-6

OPERATION

The CP310-6 is a 10-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.

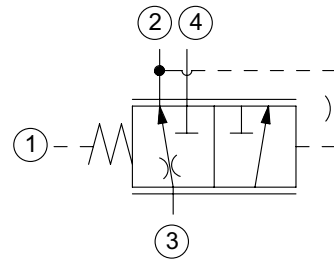
APPLICATION

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]	40 l/min [11 US gal/min]
Weight	0.15 kg [0.33 lb]
Cavity	SDC10-4

SCHEMATIC

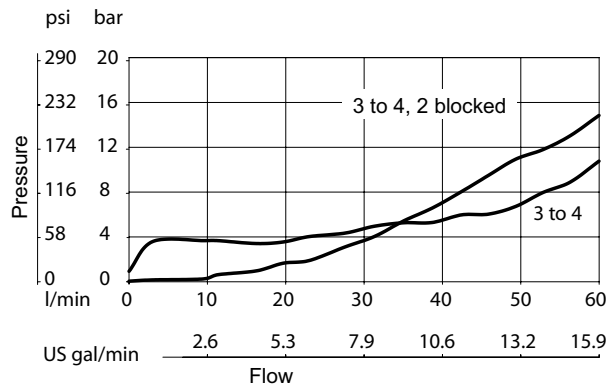


Theoretical performance

Pressure Drop

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

PERFORMANCE CURVE



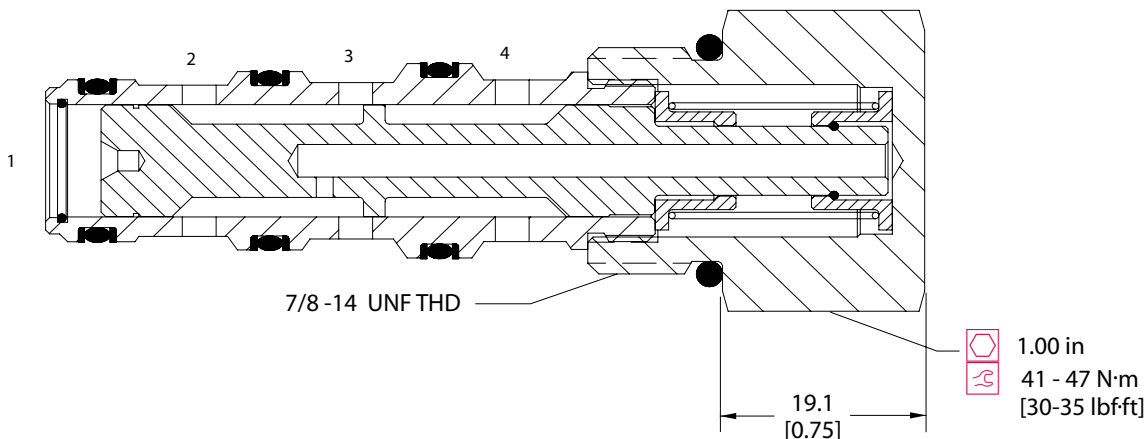


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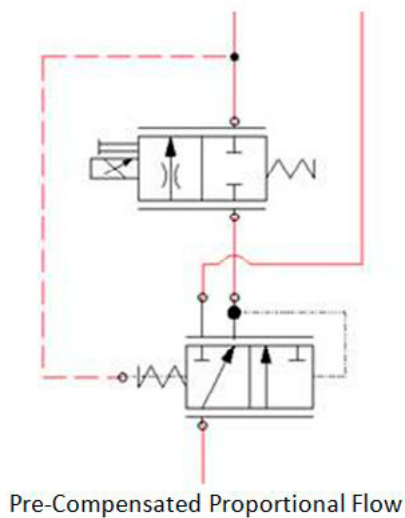
Pressure Compensator CP310-6

DIMENSION
mm [in]

Cross-sectional view



EXAMPLE CIRCUITS



ORDERING INFORMATION

CP310 - 6 - B - 8S - 080		
Seals		Compensator Spring
B = Buna-N	Seal kit 120023	bar [psi]
V = Viton	120024	080 = 5.5 [80]
Housing and ports	Housing P/N	
0 = No Housing	No Housing	
L3B = AL, 3/8 BSP	SDC10-4-L-3B	
L4B = AL, 1/2 BSP	SDC10-4-L-4B	
6S = AL, #6 SAE	CP10-4-6S	
8S = AL, #8 SAE	CP10-4-8S	
Other housings available		