

Logic Elements Catalog Pressure Compensator CP300-4

OPERATION

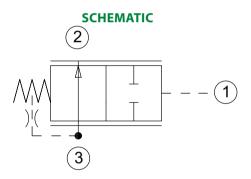
The CP300-4 is a 10-size, flow control, restrictive type pressure compensator. Restrictive-type pressure compensators are three-ported valves that work in series with a fixed or variable control orifice. The pressure compensator is located downstream of the orifice and is spring-biased to an open position as shown in the example circuit. The spool "senses" the pressure on either side of the control orifice and will vary it's restriction in order to maintain a constant pressure differential across the control orifice, hence maintaining a constant flow rate.

APPLICATION

Common applications include any circuit that requires compensated flow control going to one actuator or circuit. Pressure compensators offer the circuit designer capability to add pressure compensation to any fixed or variable orifice. This ensures that flow, and resulting actuator speed, are maintained regardless of system and working pressures

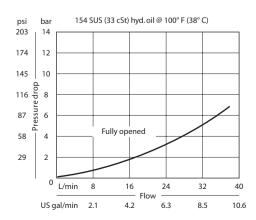
SPECIFICATION

Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	40 l/min
[100 psi]	[10.6 US gal/min]
Weight	0.13 kg [0.29 lb]
Cavity	SDC10-3



PERFORMANCE CURVE

Theoretical performance



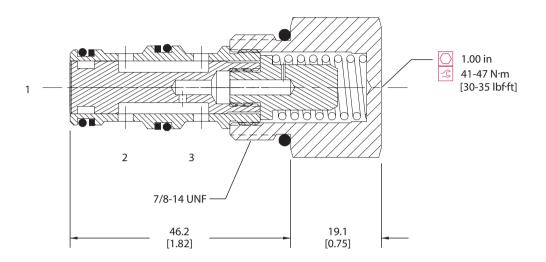


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DIMENSION

mm [in]

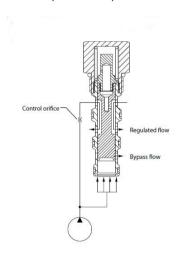
Cross-sectional view

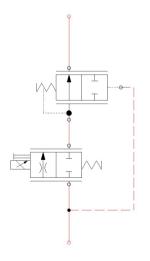


EXAMPLE CIRCUITS

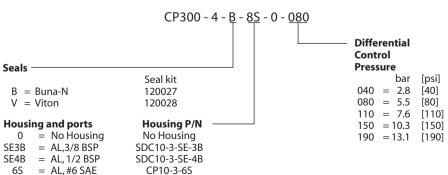
Priority-type pressure Compensator operation







ORDERING INFORMATION



CP10-3-8S

= AL, #8 SAE

Other housings available