

Logic Elements Catalog Spool Type CP700-1

OPERATION

The CP700-1 is a 10-size, normally-closed, pilot-to-close, spool-type, spring biased differential-sensing logic element. It will modulate flow from 1 to 2 based on the spring control pressure, inlet pressure at port 1, and pilot pressure at port 3.

APPLICATION

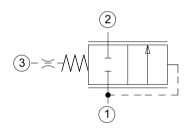
Common applications include load-sensing bypass compensator for a fixed displacement pump with single or multiple actuators as well as bypass-type pressure-compensated flow control. Effective use of logic elements is a key to designing cost-effective circuits, and is limited only by the imagination of the designer.



SPECIFICATION

Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	50 l/min
[100 psi]	[13 US gal/min]
Weight	0.12 kg [0.27 lb]
Cavity	SDC10-3

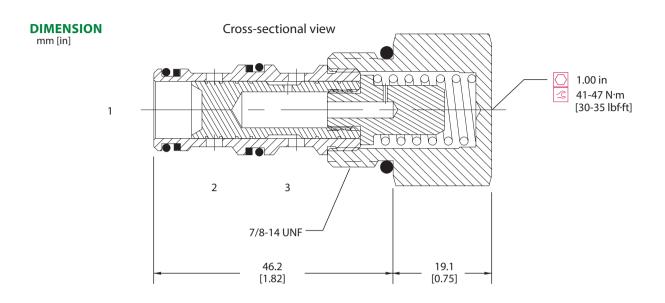
SCHEMATIC

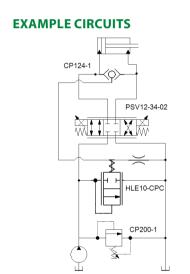


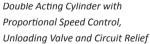
PERFORMANCE CURVE

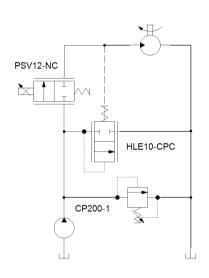
Theoretical performance 154 SUS (33 cSt) hyd. oil @ 100° F (38° C) psi bar 203 14 12 174 145 10 drop 116 87 Fully opened 58 29 2 L/min 100 US gal/min 5.3 10.6 15.9 21.1 26.4



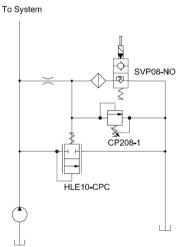








Proportional Bypass Flow Control



Dump and Relief Valve for a Fixed Pump

