OPERATION

The HLE10-CPC is a 10-size, high pressure, 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

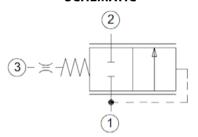
Common applications include load-sensing bypass compensator for a fixed displacement pump with single or multiple actuators as well as bypass-type pressure-compensated flow control. Effective use of logic elements is a key to designing cost-effective circuits, and is limited only by the imagination of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

SPECIFICATION

Rated Pressure*	350 bar [5075 psi]
Rated Flow at 7 bar	80 l/min
[100 psi]	[21.1 US gal/min]
Weight	0.14 kg [0.31 lbs]
Cavity	SDC10-3S

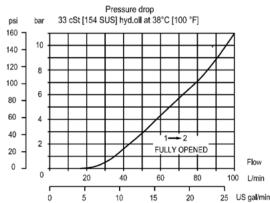
^{*} Rated Pressure based on NFPA fatigue test standards (at 1 Million Cycles).

SCHEMATIC



PERFORMANCE CURVE

Theoretical Performance

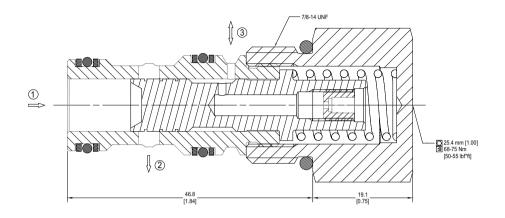




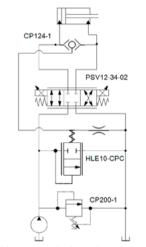
Logic Elements Technical InformationSpool Type HLE10-CPC

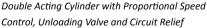
DIMENSION

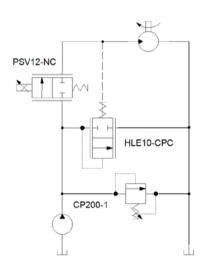
Cross-sectional view



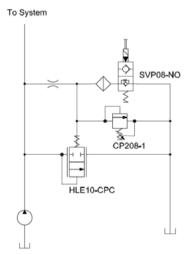
EXAMPLE CIRCUITS







Proportional Bypass Flow Control



Dump and Relief Valve for a Fixed Pump

ORDERING INFORMATION

