

OPERATION

The HLE10-CPC a 10-size, high pressure, spring-biased, normally-closed 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. The HLE10-CPC technically replaces the CP700-1L, but cavities are not interchangeable.



APPLICATIONS

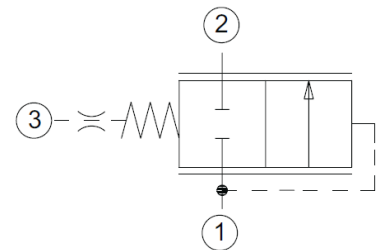
Possible uses include load-sensing bypass compensator for a fixed displacement pump with single or multiple actuators as well as bypass-type pressure-compensated flow control. Effective use of logic elements is a key to designing cost-effective circuits, and is limited only by the imagination of the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

SPECIFICATIONS

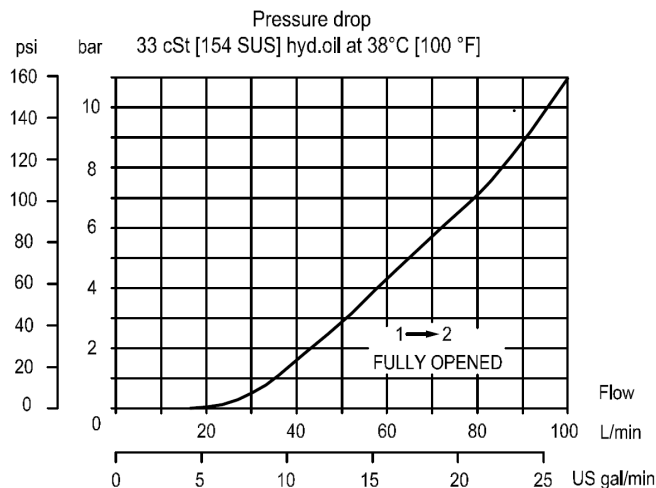
Rated Pressure*	350 bar [5075 psi]
Rated Flow at 7 bar [100 psi]	80 l/min [21.1 US gal/min]
Weight	0.14 kg [0.31 lbs]
Cavity	SDC10-3S

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

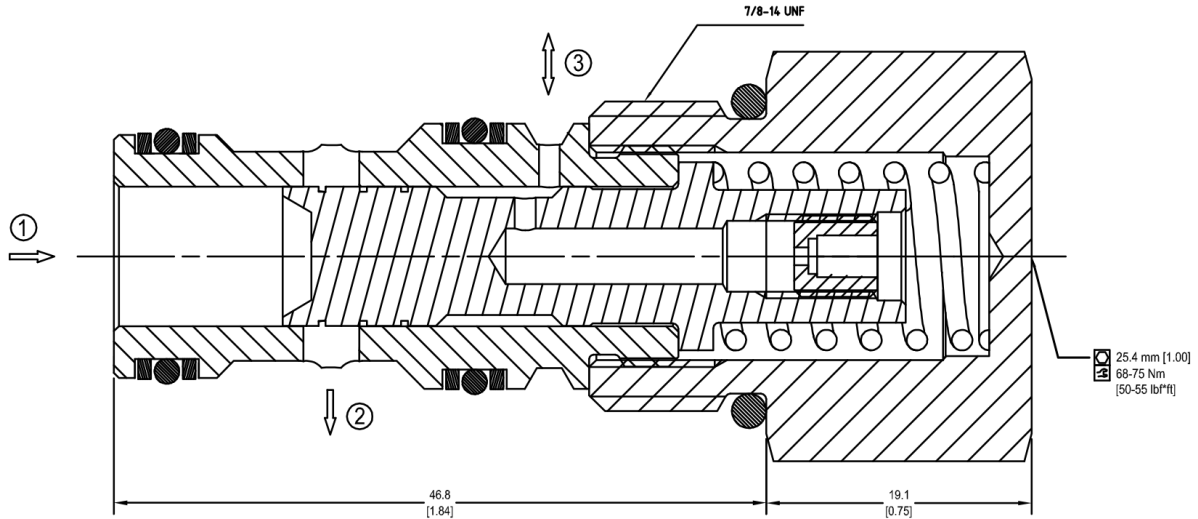
SCHEMATIC



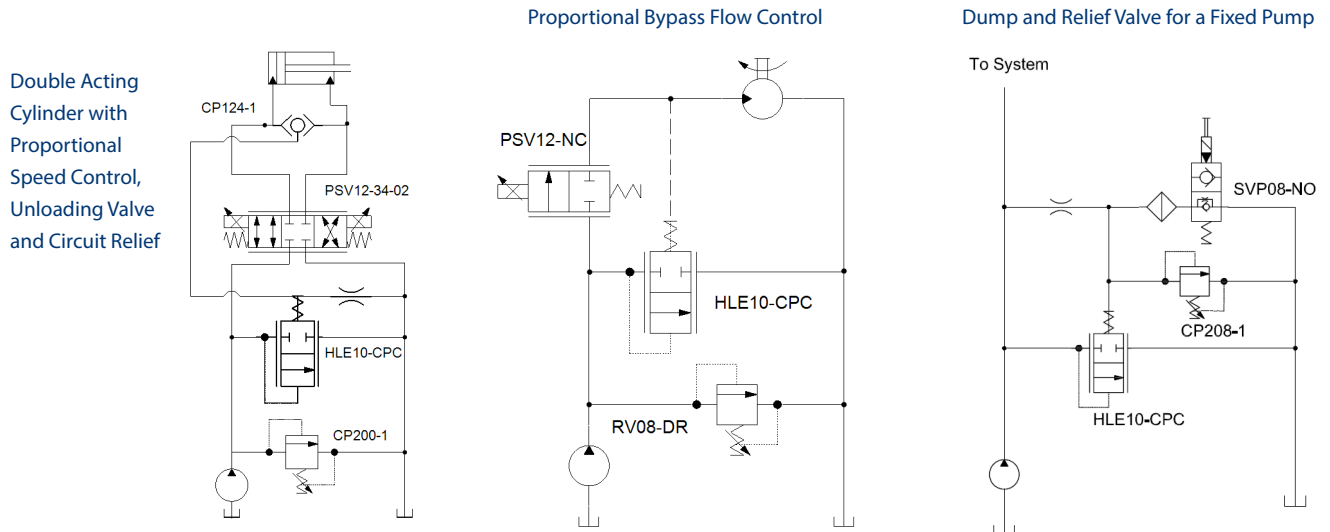
PERFORMANCE CURVE



DIMENSIONS



EXAMPLE CIRCUITS



ORDERING INFORMATION

HLE10 - CPC - 2.75 - B - 00

HLE10: High flow, high pressure, logic element, 10-size
CPC: Normally closed, pilot to close

Differential Pressure Control

2.75 bar [40 psi]	10.0 bar [150 psi]
5.5 bar [80 psi]	13.0 bar [190 psi]
7.5 bar [110 psi]	

Housing & Ports		Housing P/N
00: Cartridge Only		No Body
SE3B: AL, 3/8 BSP		SDC10-3S-SE3B
SE4B: AL, 1/2 BSP		SDC10-3S-SE4B
6S: AL #6 SAE		SDC10-3S-6S
8S: AL #8 SAE		SDC10-3S-8S

Code	Seal Material	Seal Kit
B	Buna	11126248
V	Viton	11126249

OPERATION

The HLE10-OPO is a 10-size, high pressure, spring-biased, normally-open, differential sensing logic element. It will modulate flow from 2 to 1 based on spring control pressure, outlet pressure at port 1, and pilot pressure at port 3. The HLE10-OPO technically replaces the CP700-4L, but cavities are not interchangeable.



APPLICATIONS

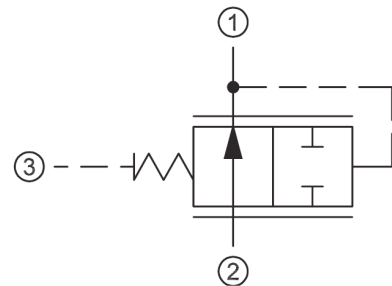
The HLE10-OPO has multiple uses: as a pre-compensator for proportional directional control or flow controls, as well as a pressure control valve. A common application for this valve is as a pressure compensator when applied with a fixed, or adjustable orifice to create a pressure-compensated flow control. This ensures that flow rate, and resulting actuator speed is maintained regardless of pressure drop across the control orifice. Effective use of logic elements is a key to designing cost-effective circuits, and is limited only by the imagination of the designer.

SPECIFICATIONS

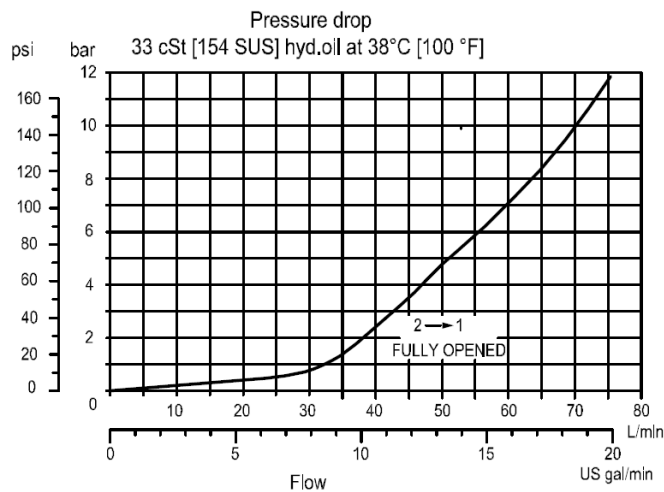
Rated Pressure*	350 bar [5075 psi]
Rated Flow at 7 bar [100 psi]	60 l/min [15.8 US gal/min]
Weight	0.14 kg [0.31 lbs]
Cavity	SDC10-3S

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

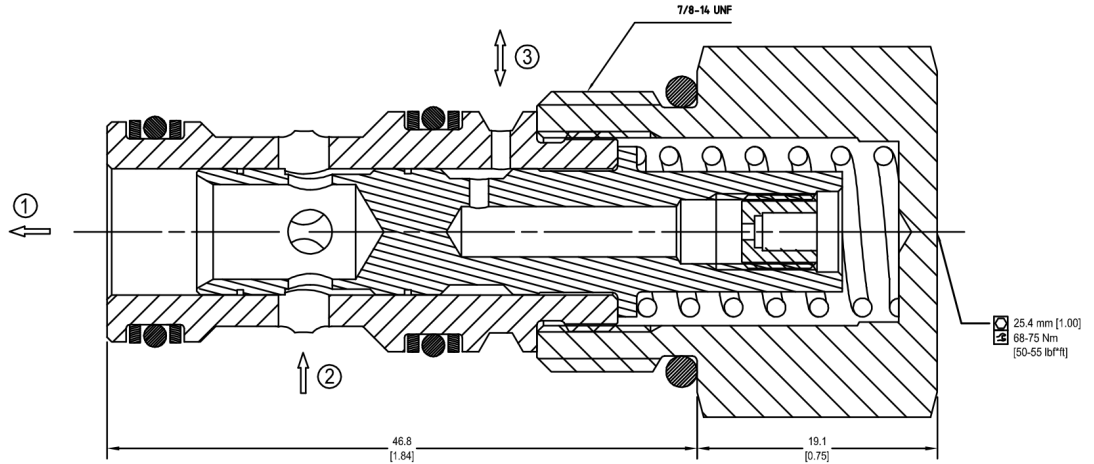
SCHEMATIC



PERFORMANCE CURVE

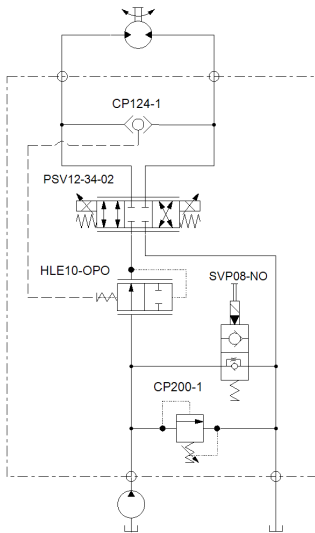


DIMENSIONS

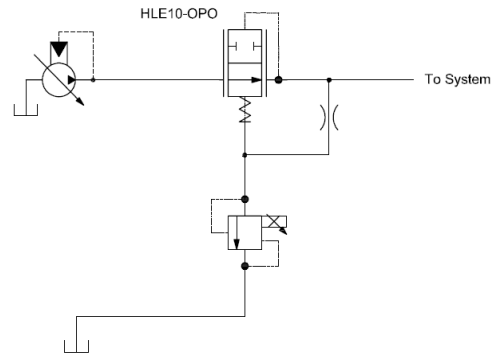


EXAMPLE CIRCUITS

Compensated
Bi-directional
Flow Control



Proportional Pressure Reducing Valve



ORDERING INFORMATION

HLE10 - OPO - 2.75 - B - 00

HLE10:
High flow, high
pressure, logic
element, 10-size

OPO:
Normally open,
pilot to open

Differential Pressure Control

2.75 bar [40 psi]	10.0 bar [150 psi]
5.5 bar [80 psi]	13.0 bar [190 psi]
7.5 bar [110 psi]	

Housing & Ports	Housing P/N
00: Cartridge Only	No Body
6S: AL #6 SAE	SDC10-3S-6S
8S: AL #8 SAE	SDC10-3S-8S
SE3B: AL, 3/8 BSP	SDC10-3S-SE3B
SE4B: AL, 1/2 BSP	SDC10-3S-SE4B

Code	Seal Material	Seal Kit
B	Buna	11126248
V	Viton	11126249