

OPERATION

The HLE10-CVO is a 10-size, high pressure, normally closed, vent-to-open, 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 outlet pressure at port 3.

APPLICATION

Common applications include: pump unloading, pilot-operated relief valve (mechanical or proportional), sequence valve and selector circuit. Effective use of logic elements is a key to designing cost-effective circuits, and is limited only by the imagination of the designer.

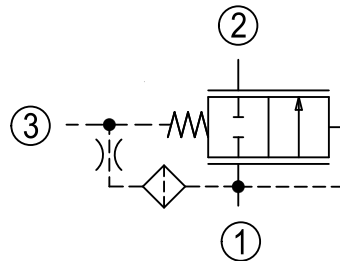


SPECIFICATION

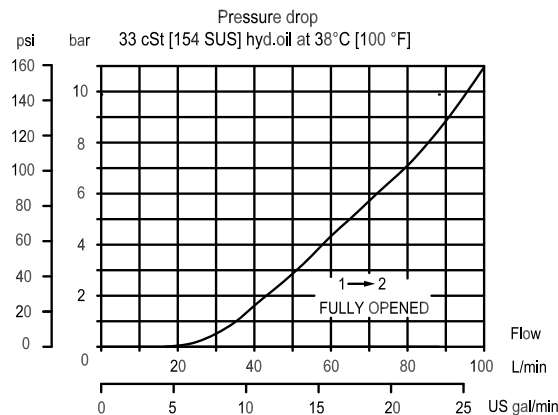
Rated Pressure*	350 bar [5075 psi]
Rated Flow at 7 bar [100 psi]	80 l/min [21.1 US gal/min]
Weight	0.14 kg [0.31 lbs]
Cavity	SDC10-3S

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

SCHEMATIC

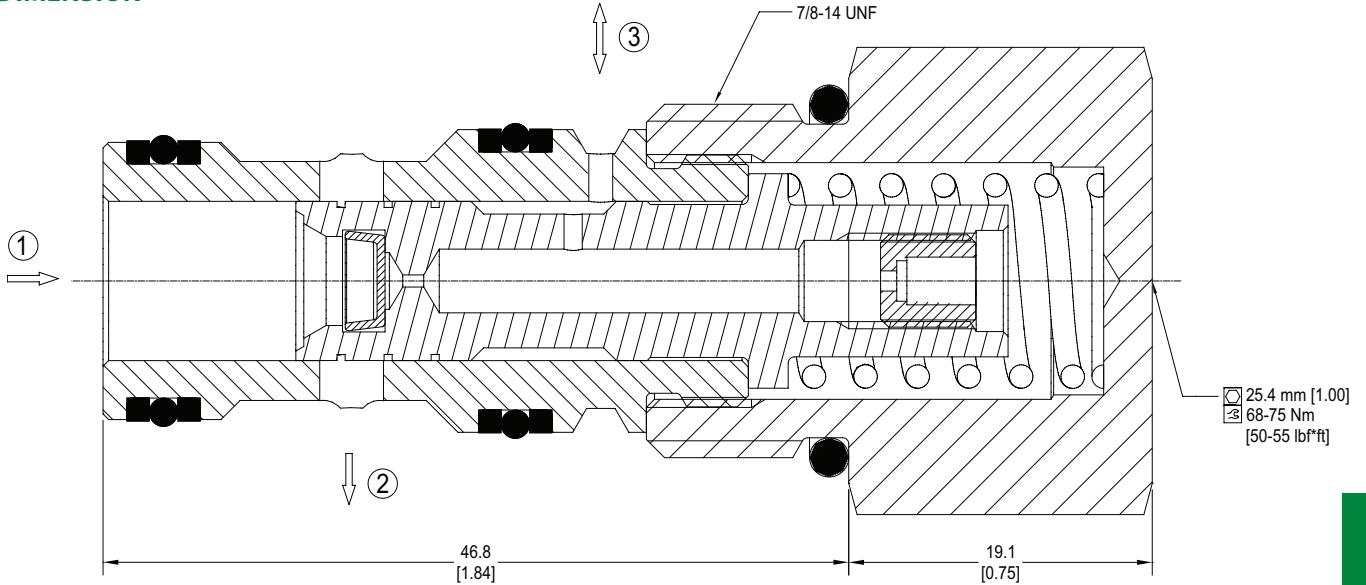


PERFORMANCE CURVE

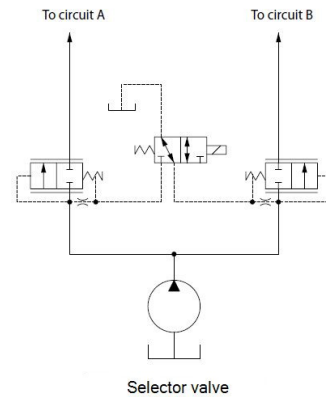
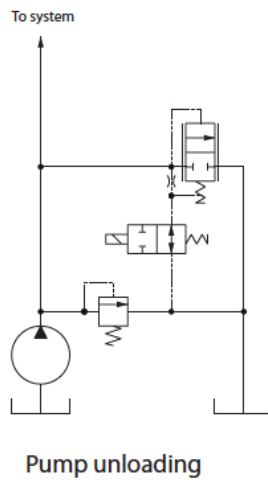
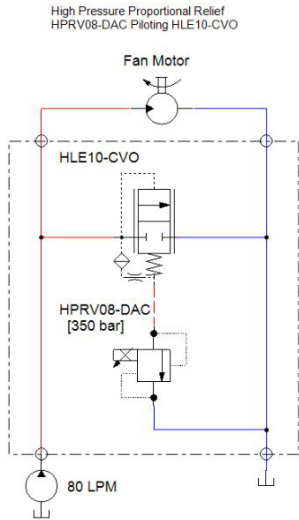


* INCLUDES SDC10-3S CAVITY WITH SAE #8 PORTS

DIMENSION



EXAMPLE CIRCUITS



ORDERING INFORMATION

HLE10: High flow, high pressure, logic element, 10-size
CVO: Normally closed, vent to open

HLE10 - CVO - 2.75 - B - 00

Differential Pressure Control

Code	Description
2.75	2.75 bar [40 psi]
5.5	5.5 bar [80 psi]
7.5	7.5 bar [110 psi]
10.0	10.0 bar [150 psi]
13.0	13.0 bar [190 psi]
15.0	15.0 bar [220 psi]
18.0	18.0 bar [260 psi]

Housings & Ports	Housing P/N
00: Cartridge Only	No Body
3B: AL, 3/8 BSP	SDC10-3S-3B
4B: AL, 1/2 BSP	SDC10-3S-4B
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