### **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 pilot 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.

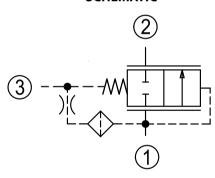


### **SPECIFICATION**

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

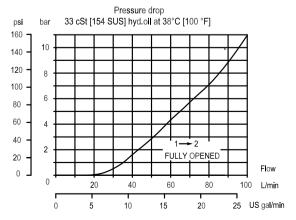
<sup>\*</sup> Rated Pressure based on NFPA fatigue test standards (at 1 Million Cycles).

### SCHEMATIC



### Theoretical performance

### **PERFORMANCE CURVE**



<sup>\*</sup> INCLUDES SDC10-3S CAVITY WITH SAE #8 PORTS

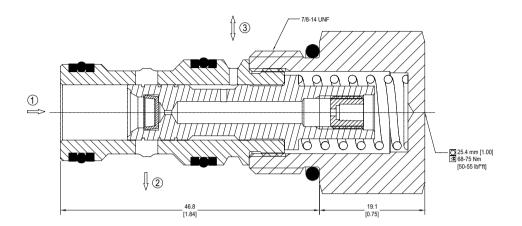


# **Logic Elements Technical Information**Spool Type HLE10-CVO

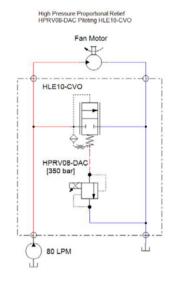
### **DIMENSION**

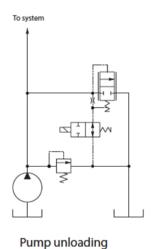
mm [in]

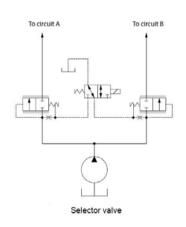
### **Theoretical performance**



### **EXAMPLE CIRCUITS**







## ORDERING INFORMATION

HLE10: High pressure, logic element, 10-size

CVO: Normally closed, —vent to open

<u>H</u>	<u> LE10</u> - <u>CVC</u>	) - <u>2</u>	2.7	<u>5</u> -	<u>B</u> - <u>00</u>
Different Code	ial Pressure Contro	ol 			
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]		Со	de	Seal Mat

#### Housings Code **Ports and Material** Housing P/N 00 Cartridge Only No Body 6S AL, #6 SAE SDC10-3S-6S 88 AL, #8 SAE SDC10-3S-8S 3B AL, 3/8 BSP SDC10-3S-3B 4B AL, 1/2 BSP SDC10-3S-4B S6S STEEL, #6 SAE SDC10-3S-S6S STEEL, #8 SAE SDC10-3S-S8S S8S

\*\*\*\* Aluminum bodies are for use in lower pressure applications only [less than 210 bar (3000 psi)].

Code	Seal Material	Seal kit	
В	Buna	11126248	
٧	Viton	11126249	