

**OPERATION**

The CP700-4 is a 10-size, normally open, pilot-to-open, spring-biased differential-sensing logic element. It will modulate flow from 2 to 1 based on the spring control pressure, inlet pressure at port 1, and outlet pressure at port 3.

**APPLICATION**

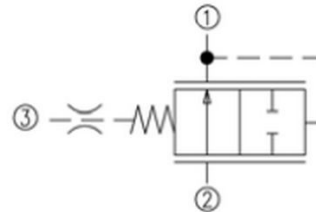
Common applications include: pre-compensator for proportional directional control or flow controls, as well as a pressure control valve. A common application for this valve is as a pressure compensator when applied with a fixed, or adjustable orifice to create a pressure-compensated flow control. This 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.



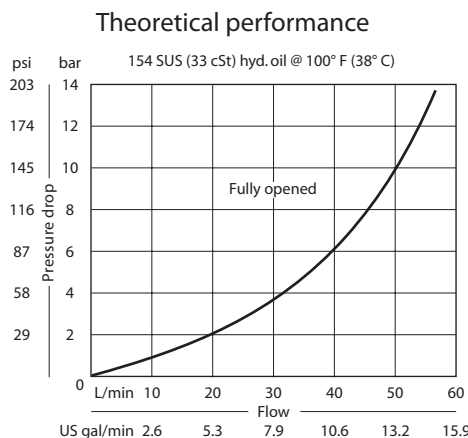
**SPECIFICATION**

Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar [100 psi]	40 l/min [11 US gal/min]
Weight	0.13 kg [0.28 lb]
Cavity	SDC10-3

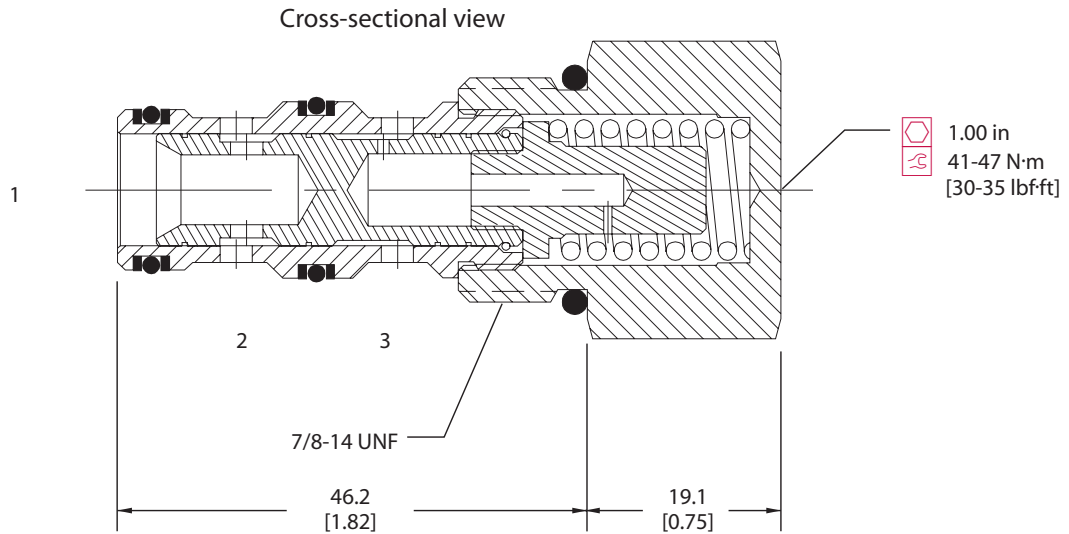
**SCHEMATIC**



**PERFORMANCE CURVE**

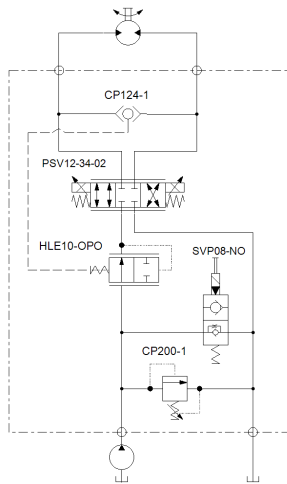


**DIMENSION**  
 mm [in]

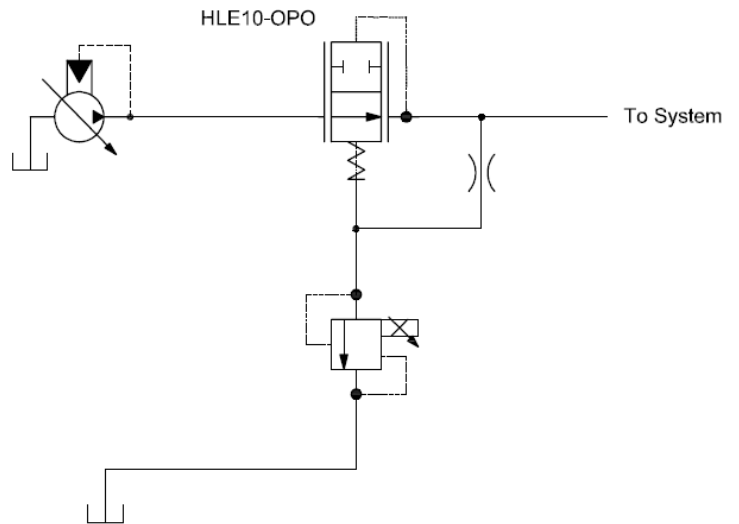


**EXAMPLE CIRCUITS**

Compensated Circuit



Proportional Pressure Reducing



**ORDERING INFORMATION**

**Seals**

B = Buna-N  
 V = Viton

**Housing and ports**

0 = No Housing  
 SE3B = AL, 3/8 BSP  
 SE4B = AL, 1/2 BSP  
 6S = AL, #6 SAE  
 8S = AL, #8 SAE  
 Other housings available

Seal kit  
 120009  
 120010

**Housing P/N**

No Housing  
 SDC10-3-SE-3B  
 SDC10-3-SE-4B  
 CP10-3-6S  
 CP10-3-8S

CP700 - 4 - B - 8S - 080

**Differential Control Pressure**

	bar	[psi]
040	= 2.8	[40]
080	= 5.5	[80]
110	= 7.6	[110]
150	= 10.3	[150]
200	= 13.8	[200]