

**OPERATION**

The CP701-4 is a 12-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.

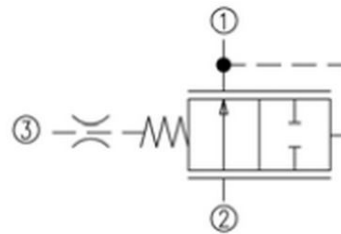
**APPLICATION**

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**

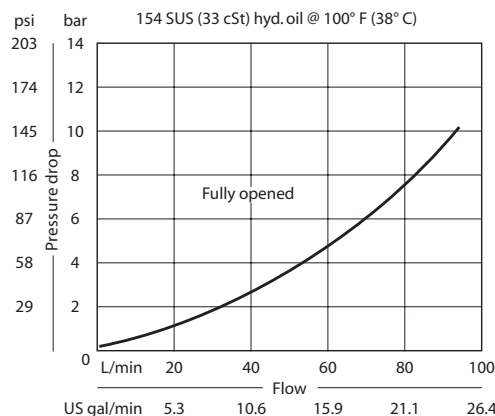
<b>Rated pressure</b>	210 bar [3000 psi]
<b>Rated flow at 7 bar [100 psi]</b>	75 l/min [20 US gal/min]
<b>Weight</b>	0.26 kg [0.57 lb]
<b>Cavity</b>	CP12-3S

**SCHEMATIC**



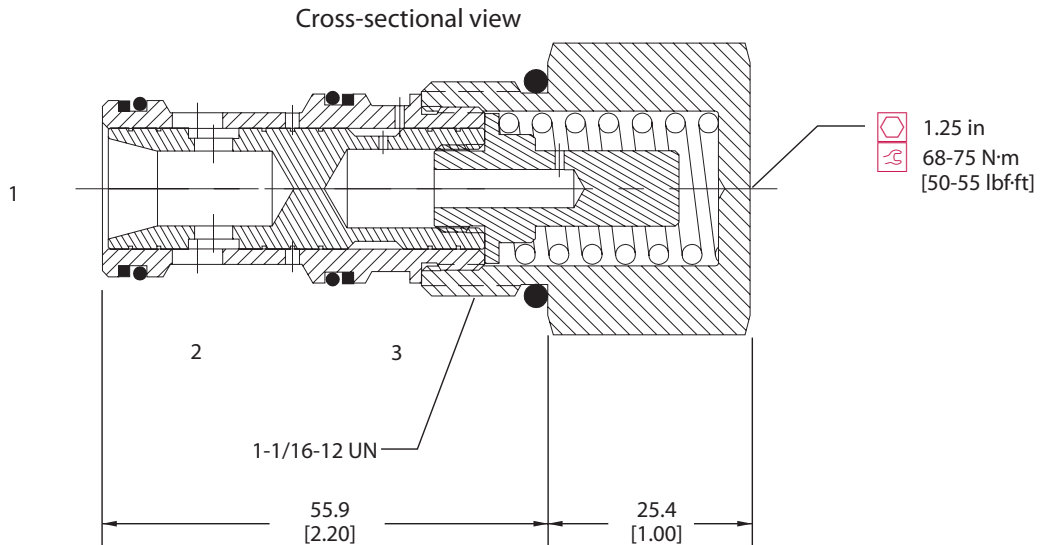
**PERFORMANCE CURVE**

Theoretical performance



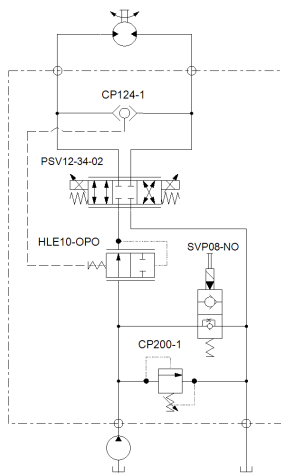
**DIMENSION**

mm [in]

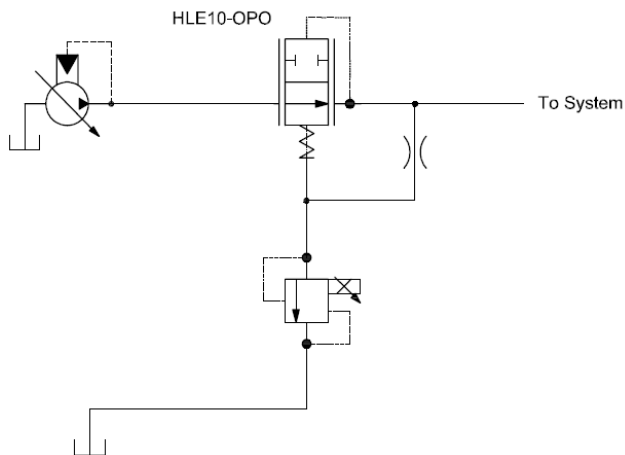


**EXAMPLE CIRCUITS**

Compensated Circuit



Proportional Pressure Reducing



**ORDERING INFORMATION**

CP701 - 4 - B - 12S - 080

<b>Seals</b>	Seal kit 120335 120336	<b>Differential Control Pressure</b>
B = Buna-N		030 = 2.1 [30]
V = Viton		050 = 3.5 [50]
<b>Housing and ports</b>	<b>Housing P/N</b>	080 = 5.5 [80]
0 = No housing	No housing	100 = 6.9 [100]
4B = AL, 1/2 BSP	CP12-3S-4B/2B = 1/4 BSP	150 = 10.3 [150]
6B = AL, 3/4 BSP	CP12-3S-6B/2B = 1/4 BSP	
10S = AL, #10 SAE	CP12-3S-10S/4S = #4 SAE	
12S = AL, #12 SAE	CP12-3S-12S/4S = #4 SAE	