

### Logic Elements Catalog Spool Type CP702-4

#### **OPERATION**

The CP702-4 is a 16-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.

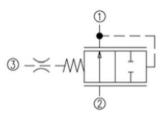
#### **APPLICATION**

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.

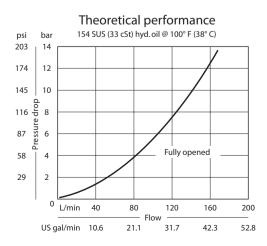
#### **SPECIFICATION**

Rated pressure	210 bar [3000 psi]	
Rated flow at 7 bar	114 l/min	
[100 psi]	[30 US gal/min]	
Weight	0.38 kg [0.83 lb]	
Cavity	SDC16-3S	

#### **SCHEMATIC**



#### **PERFORMANCE CURVE**



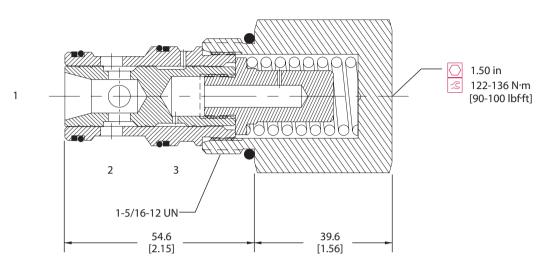


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#### **DIMENSION**

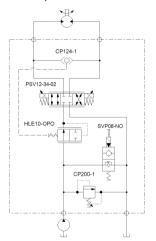
mm [in]

#### Cross-sectional view

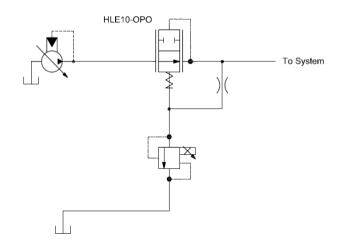


#### **EXAMPLE CIRCUITS**

#### **Compensated Circuit**



#### **Proportional Pressure Reducing**



CP702-4-B-16S-080

# ORDERING INFORMATION

#### Seal Option

 Code
 Seal Material
 Seal kit

 B
 Buna
 120033

 V
 Viton
 120034

<b>Housings &amp; Ports</b>	Housing P/N	Pilot port
0: Cartridge Only	No Housing	
<b>6B</b> : 3/4 BSP, AL	CP16-3S-6B/2B	1/4 BSP
8B: 1 BSP, AL	CP16-3S-8B/2B	1/4 BSP
12S: #12 SAE, AL	CP16-3S-12S/4S	#4 SAE
16S: #16 SAE, AL	CP16-3S-16S/4S	#4 SAE

Other Housings available

## Differential Control Pressure

Code	bar	[psi]
040	2.8	[40]
080	5.5	[80]
110	7.6	[110]
150	10.3	[150]
190	13.1	[190]