

### 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, outlet pressure at port 1, and pilot pressure at port 3.

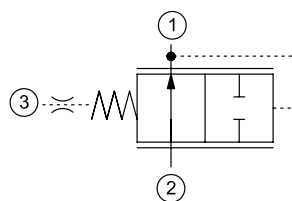
### APPLICATION

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

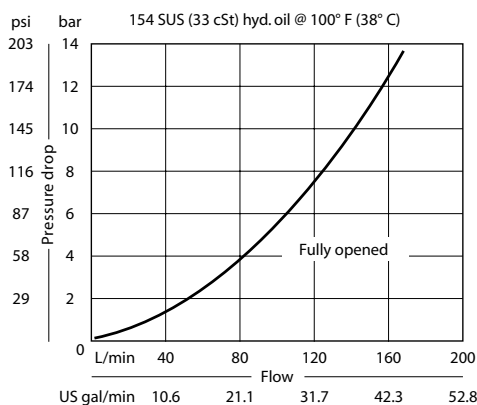
|                                      |                              |
|--------------------------------------|------------------------------|
| <b>Rated pressure</b>                | 210 bar [3045 psi]           |
| <b>Rated flow at 7 bar [100 psi]</b> | 114 l/min<br>[30 US gal/min] |
| <b>Weight</b>                        | 0.38 kg [0.83 lb]            |
| <b>Cavity</b>                        | <b>SDC16-3S</b>              |

### SCHEMATIC



### PERFORMANCE CURVE

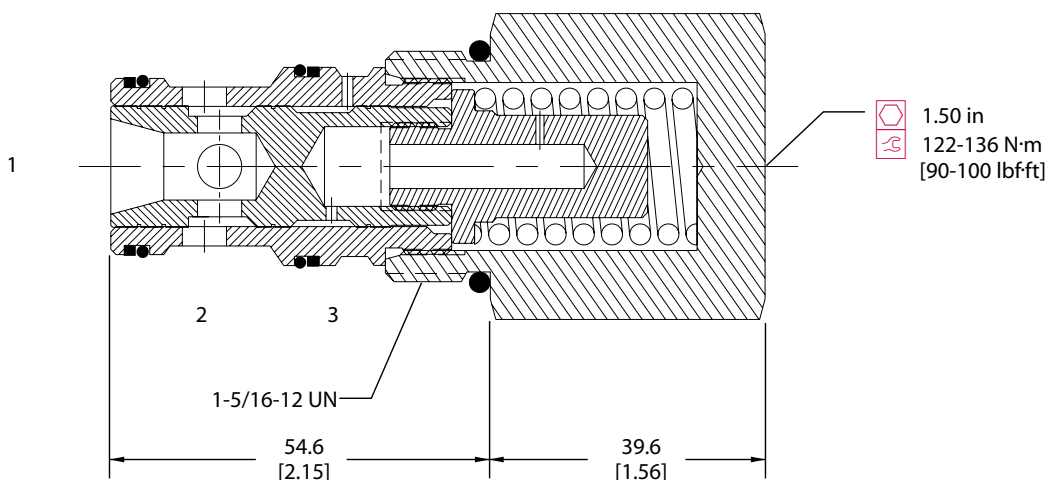
#### Theoretical performance



## DIMENSION

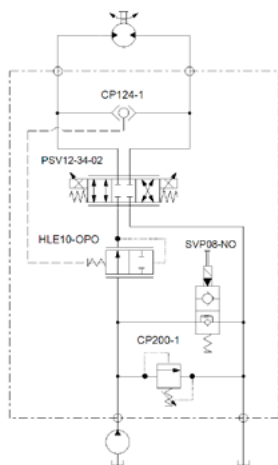
mm [in]

## Cross-sectional view

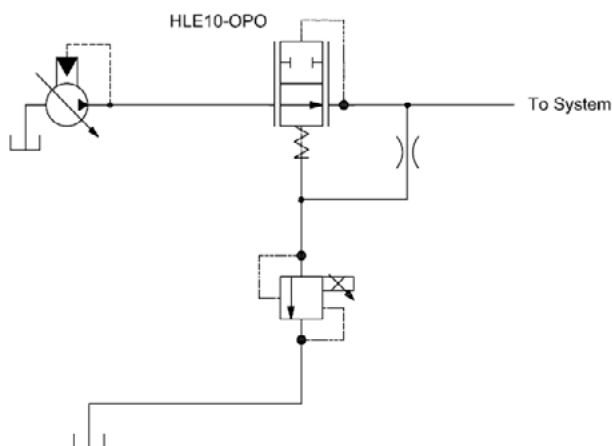


## EXAMPLE CIRCUITS

### Compensated Circuit



### Proportional Pressure Reducing



## ORDERING INFORMATION

### CP702-4-B-16S-080

#### Seal Option

| Code | Seal Material | Seal kit |
|------|---------------|----------|
| B    | Buna          | 120033   |
| V    | Viton         | 120034   |

| Housings & Ports  | Housing P/N    | Pilot port |
|-------------------|----------------|------------|
| 0: Cartridge Only | No Housing     |            |
| 6B: 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] |