

**OPERATION**

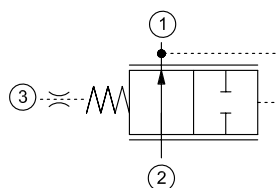
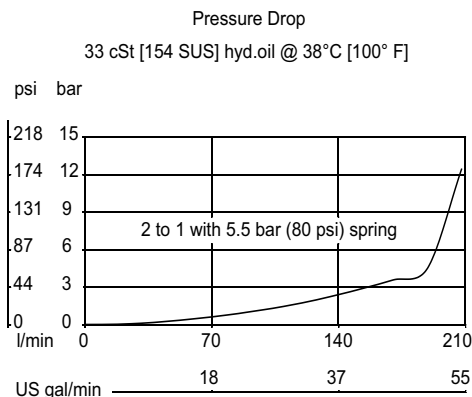
The CP703-4 is a 20-size, normally open, pilot-to-open, spring-biased differential-sensing logic element. It will modulate flow from 2 to 1 based on the spring control pressure, outlet pressure at port 2, and pilot pressure at port 3.

**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**

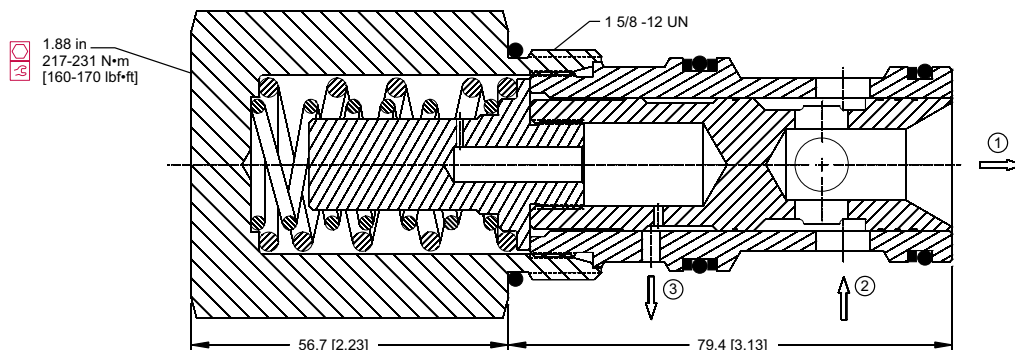
<b>Rated pressure</b>	210 bar [3045 psi]
<b>Rated flow at 7 bar [100 psi]</b>	200 l/min [53 US gal/min]
<b>Weight</b>	1.18 kg [2.60 lb]
<b>Cavity</b>	<b>CP20-3S</b>

**SCHEMATIC****PERFORMANCE CURVE****Theoretical performance**

## DIMENSION

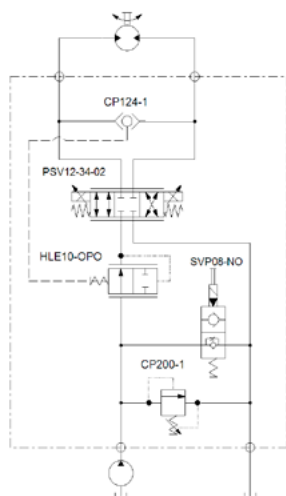
mm [in]

### Cross-sectional view

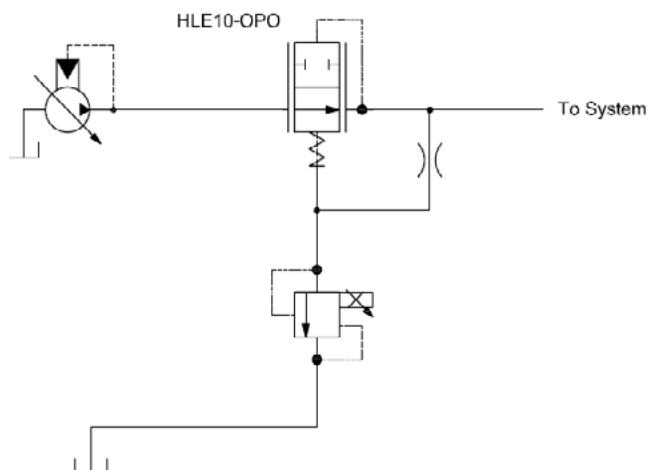


## EXAMPLE CIRCUITS

### Compensated Circuit



### Proportional Pressure Reducing



## ORDERING INFORMATION

### Seals

B = Buna-N  
V = Viton

Seal kit  
120380  
120381

### Housing and ports

0 = No housing  
8B = AL, 1 BSP  
10B = AL, 1-1/4 BSP  
16S = AL, #16 SAE  
20S = AL, #20 SAE  
other housings available

### Housing P/N

No housing  
CP20-3S-8B/2B = 1/4 BSP  
CP20-3S-10B/2B = 1/4 BSP  
CP20-3S-16S/4S = #4 SAE  
CP20-3S-20S/4S = #4 SAE

### CP703-4-B-8B-050

### Pilot port

### Differential Control Pressure

	bar	[psi]
050	3.5	[50]
080	5.5	[80]
100	6.9	[100]
130	9.0	[130]
150	10.3	[150]