

**OPERATION**

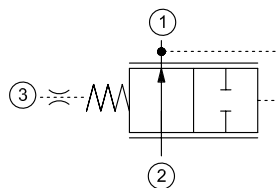
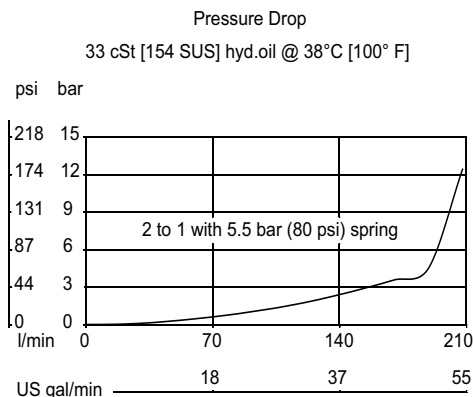
The CP703-4 is a 20-size, normally open, pilot-to-open, spring-biased differential-sensing logic element. It will modulate flow from 2 to 1 based on the spring control pressure, outlet pressure at port 2, and pilot pressure at port 3.

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

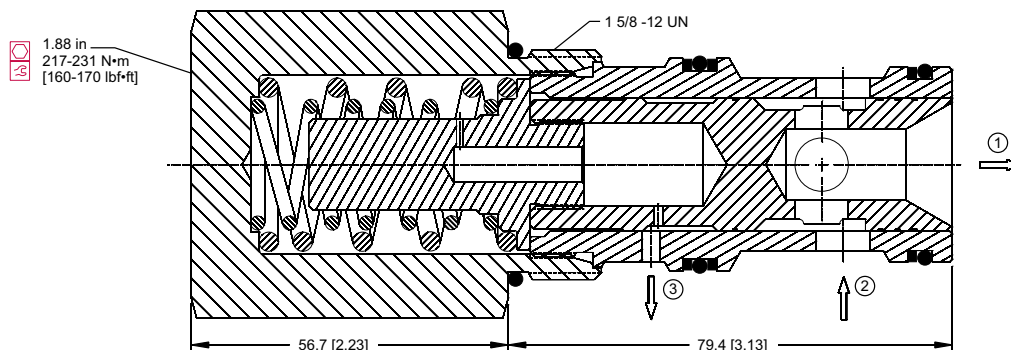
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [100 psi]	200 l/min [53 US gal/min]
Weight	1.18 kg [2.60 lb]
Cavity	CP20-3S

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

DIMENSION

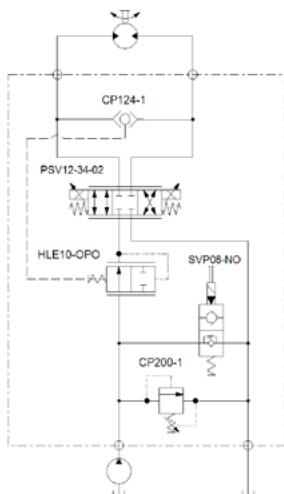
mm [in]

Cross-sectional view

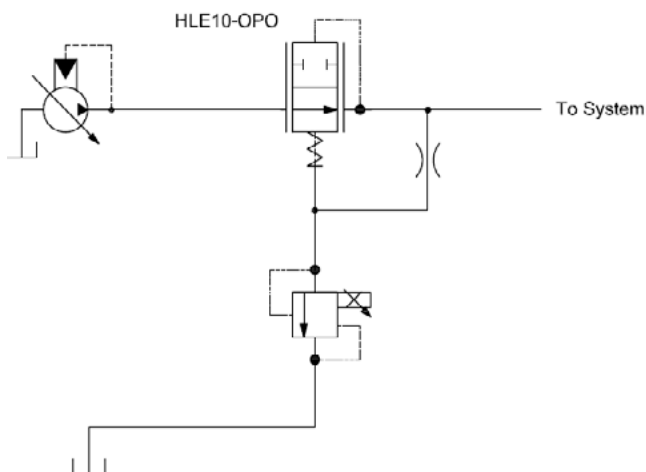


EXAMPLE CIRCUITS

Compensated Circuit



Proportional Pressure Reducing



ORDERING INFORMATION

CP703-4-B-8B-050			
Seals	Seal kit 120380 120381	Differential Control Pressure	
B = Buna-N		050 = 3.5 [50]	bar [psi]
V = Viton		080 = 5.5 [80]	
Housing and ports	Housing P/N	Pilot port	
0 = No housing	No housing		
8B = AL, 1 BSP	CP20-3S-8B/2B = 1/4 BSP		
10B = AL, 1-1/4 BSP	CP20-3S-10B/2B = 1/4 BSP		
16S = AL, #16 SAE	CP20-3S-16S/4S = #4 SAE		
20S = AL, #20 SAE	CP20-3S-20S/4S = #4 SAE		
other housings available			