

# Logic Elements Catalog Spool Type CP701-1

### **OPERATION**

The CP701-1 is a 12-size, normally-closed, pilot-to-close, spool-type,, spring biased differential-sensing logic element. It will modulate flow from 1 to 2 based on the spring control pressure, inlet pressure at port 1, and pilot pressure at port 3.

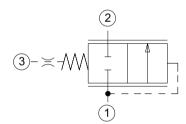
### **APPLICATION**

Common applications include load-sensing bypass compensator for a fixed displacement pump with single or multiple actuators as well as bypass-type pressure-compensated flow control. Effective use of logic elements is a key to designing cost-effective circuits, and is limited only by the imagination of the designer.

### **SPECIFICATION**

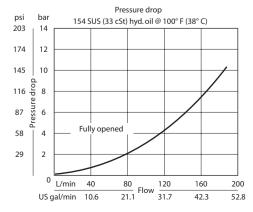
Rated pressure	210 bar [3000 psi]
Rated flow at 7 bar	150 l/min
[100 psi]	[40 US gal/min]
Weight	0.26 kg [0.57 lb]
Cavity	CP12-3S

### **SCHEMATIC**



# PERFORMANCE CURVE

## Theoretical performance





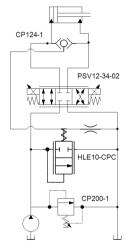
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# Cross-sectional view [ni] mm 1.25 in 68-75 N·m [50-55 lbfft]

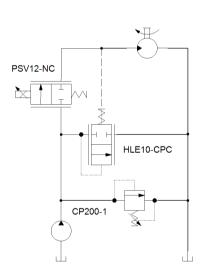
55.9

[2.20]





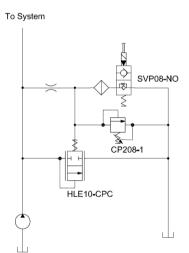
Double Acting Cylinder with Proportional Speed Control, Unloading Valve and Circuit Relief



25.4

[1.00]

Proportional Bypass Flow Control



Dump and Relief Valve for a Fixed Pump

# ORDERING INFORMATION

