

Logic Elements Catalog Spool Type CP703-4

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, inlet pressure at port 1, and outlet pressure at port 3.

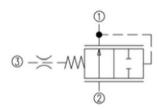
APPLICATION

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 | 200 l/min |
| [100 psi] | [53 US gal/min] |
| Weight | 1.18 kg [2.60 lb] |
| Cavity | CP20-3S |

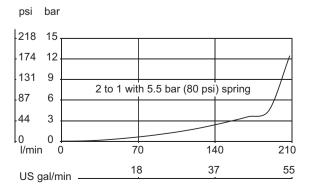
SCHEMATIC



PERFORMANCE CURVE

Theoretical performance Pressure Drop

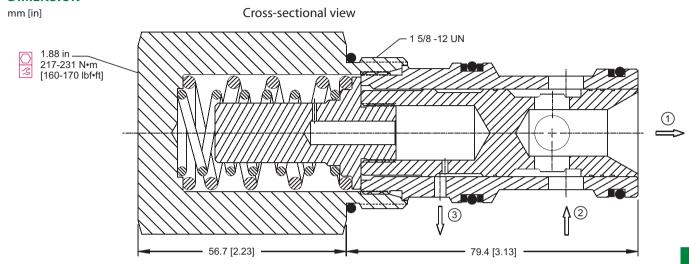
33 cSt [154 SUS] hyd.oil @ 38°C [100° F]



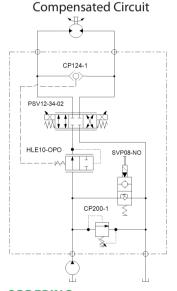


Logic Elements Catalog Spool Type CP703-4

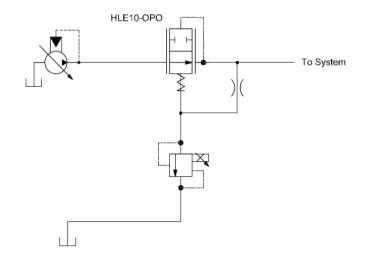
DIMENSION



EXAMPLE CIRCUITS



Proportional Pressure Reducing



ORDERING INFORMATION

