Logic Elements Technical InformationSpool Type HI F10-OPO

OPERATION

The HLE10-OPO is a 10-size, high pressure, 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. The HLE10-OPO technically replaces the CP700-4L, but cavities are not interchangeable.



APPLICATION

Common applications include: as a 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 acre

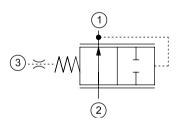
and resulting actuator speed is maintained regardless of pressure drop across the control orifice. Effective use of logic elements is a key to designing cost-effective circuits, and is limited only by the imagination of the designer.

SPECIFICATION

Rated Pressure*	350 bar [5075 psi]
Rated Flow at 7 bar	60 l/min
[100 psi]	[15.8 US gal/min]
Weight	0.14 kg [0.31 lbs]
Cavity	SDC10-3S

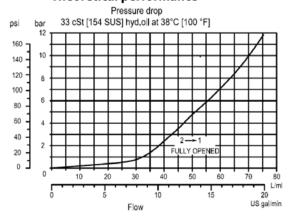
^{*} Rated Pressure based on NFPA fatigue test standards (at 1 Million Cycles).

SCHEMATIC



PERFORMANCE CURVE

Theoretical performance



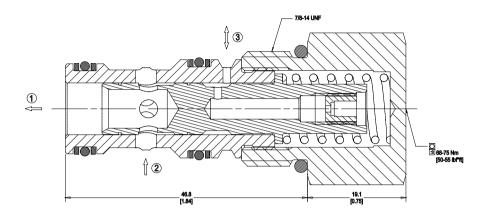


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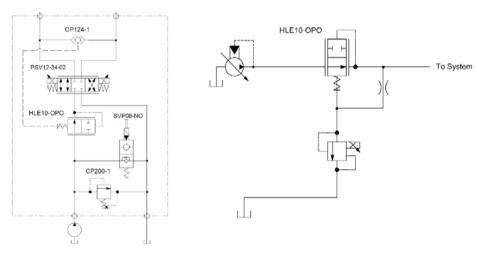
DIMENSION

mm [in]

Cross-sectional view



EXAMPLE CIRCUITS



Compensated Bi-directional Flow Control

Proportional Pressure Reducing Valve

ORDERING INFORMATION

