# Logic Elements Technical Information
Spool Type
HLEA10-CVO

## OPERATION
The HLEA10-CVO is a 10-size, high pressure, normally closed, vent-to-open, spring-biased differential-sensing logic element that includes an adjustable compensator feature. 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.

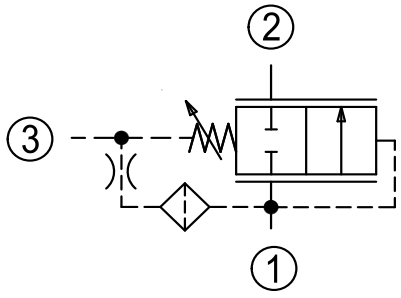
## APPLICATION
Common applications include: pump unloading, pilot-operated relief valve (mechanical or proportional), sequence valve and selector circuit. The adjustability of the HLEA10 allows the operator to change the compensator setting of the logic element, ranging from 2.75 to 15.2 bar (40 to 220 psi). This is especially helpful when fine tuning the applications, providing flexibility to the operator and allowing for machine optimization

## SPECIFICATION

| | |
|---|---|
| **Rated pressure*** | 350 bar [5075 psi] |
| **Rated flow at 7 bar [100 psi]** | 80l/min [21 US gal/min] |
| **Weight** | 0.29 kg [0.64 lb] |
| **Cavity** | **SDC10-3S** |

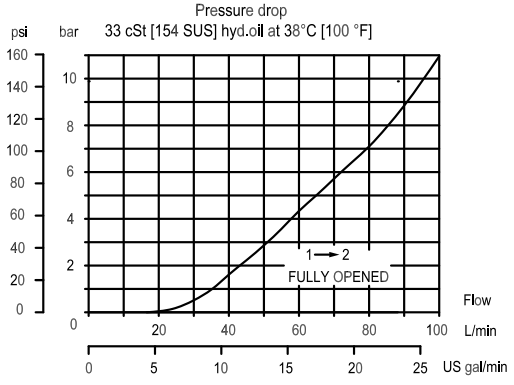
*Rated Pressure based on NFPA fatigue test standards (at 1 Million Cycles).

## SCHEMATIC




## PERFORMANCE CURVE

**Theoretical performance**



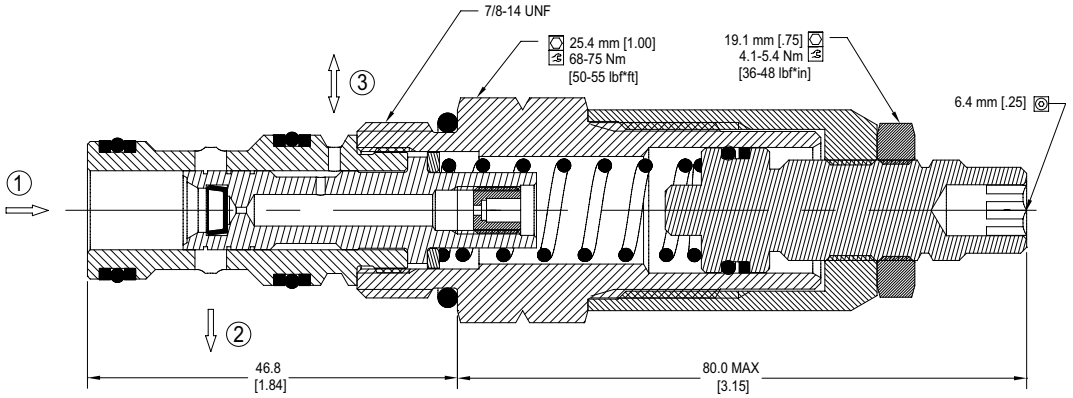

* INCLUDES SDC10-3S CAVITY WITH SAE #8 PORTS

# Spool Type
# HLEA10-CVO

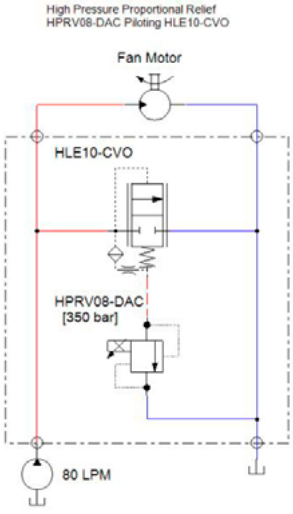
## DIMENSION

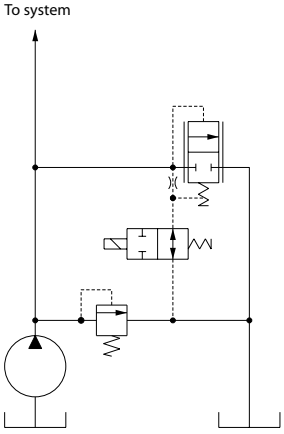
mm [in]

### Cross-sectional view

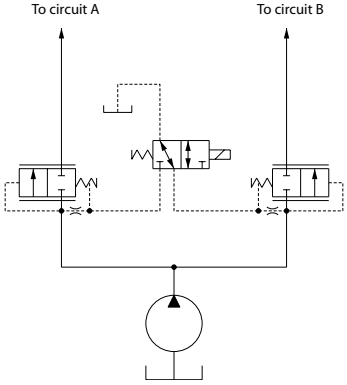



## EXAMPLE CIRCUITS




Pump unloading




Selector valve

## ORDERING INFORMATION

**HLEA10 - CVO - E - 7.5 - B - 00**

**HLEA10:**
High flow, high pressure logic element, adjustable 10-size

**CVO:**
Normally closed, vent to open

**Adjustment Option:**
E = External

**Differential Pressure Control Setting:**
7.5 = 7.5 bar [110 psi]
XXX = STD SETTING (without stamping)
Range 2.75 to 15.0 bar [40 psi to 220 psi]

| Housings & Ports | Housing P/N |
|---|---|
| **00:** Cartridge Only | No Body |
| **3B:** AL, 3/8 BSP | SDC10-3S-3B |
| **4B:** AL, 1/2 BSP | SDC10-3S-4B |
| **6S:** AL #6 SAE | SDC10-3S-6S |
| **8S:** AL #8 SAE | SDC10-3S-8S |

| Code | Seal Material | Seal kit |
|---|---|---|
| B | Buna | 11126248 |
| V | Viton | 11126249 |