

OPERATION

The CP702-2 is a 16-size, normally closed, vent-to-open, 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.

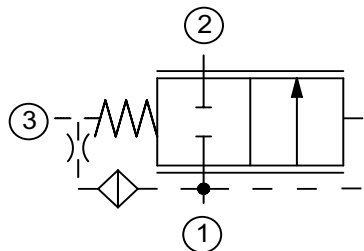
APPLICATION

Common applications include: pump unloading, pilot-operated relief valve (mechanical or proportional), sequence valve and selector circuit. Effective use of logic elements is a key to designing cost-effective circuits, and is limited only by the imagination of the designer.

SPECIFICATION

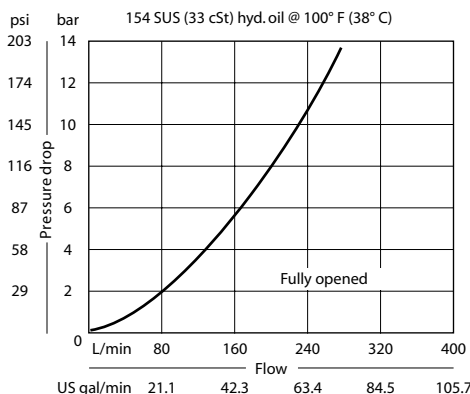
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [100 psi]	190 l/min [50 US gal/min]
Weight	0.38 kg [0.83 lb]
Cavity	SDC16-3S

SCHEMATIC



PERFORMANCE CURVE

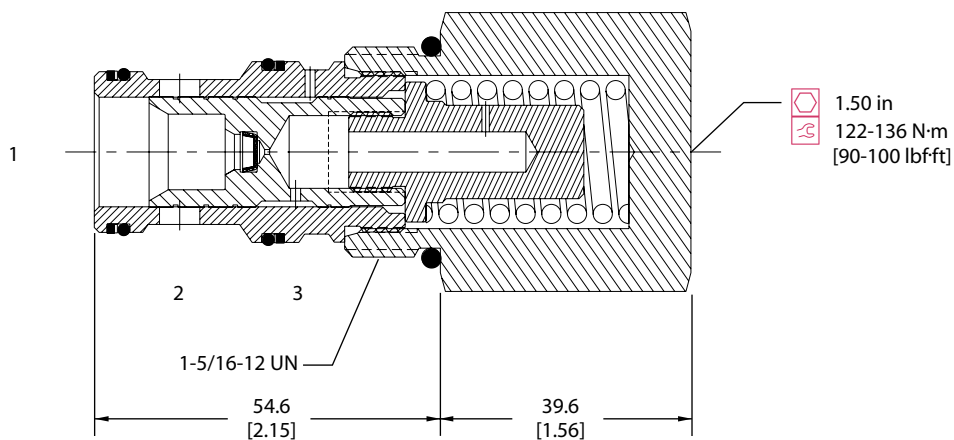
Theoretical performance



DIMENSION

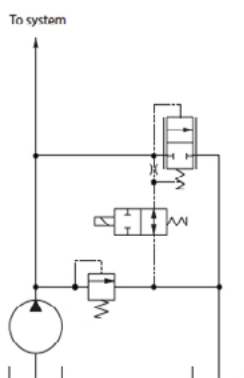
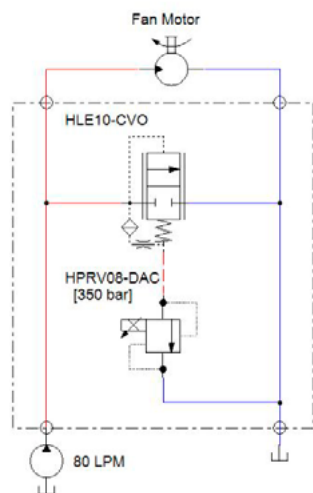
mm [in]

Cross-sectional view

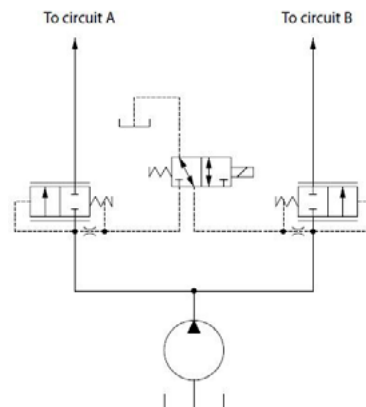


EXAMPLE CIRCUITS

High Pressure Proportional Relief
HPRV08-DAC Piloting HLE10-CVO



Pump unloading



Selector valve

ORDERING INFORMATION

CP702 - 2 - B - 16S - 080

Seals

B = Buna-N
V = Viton

Seal kit
120033
120034

Housing and ports

0 = No housing
6B = AL, 3/4 BSP
8B = AL, 1 BSP
12S = AL, #12 SAE
16S = AL, #16 SAE
Other housings available

Housing P/N Pilot port
No housing
CP16-3S-6B/2B = 1/4 BSP
CP16-3S-8B/2B = 1/4 BSP
CP16-3S-12S/4S = #4 SAE
CP16-3S-12S/4S = #4 SAE

Differential Control Pressure

	bar	[psi]
040	2.8	[40]
080	5.5	[80]
110	7.6	[110]
150	10.3	[150]
170	11.7	[170]