



Logic Elements Technical Information

Spool Type

CP702-2

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.

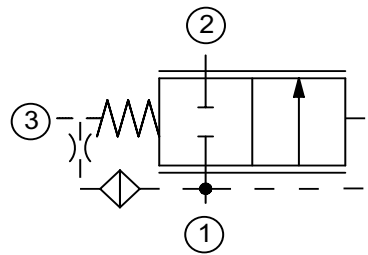
APPLICATION

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

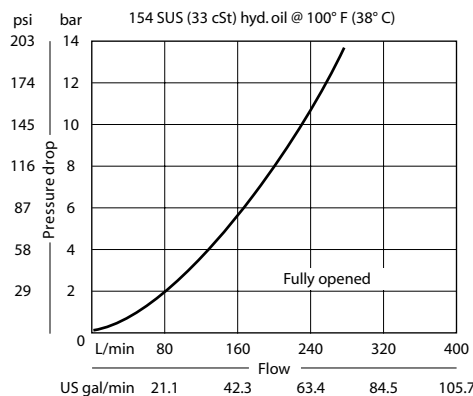
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [100 psi]	190 l/min [50 US gal/min]
Weight	0.38 kg [0.83 lb]
Cavity	SDC16-3S

SCHEMATIC



PERFORMANCE CURVE

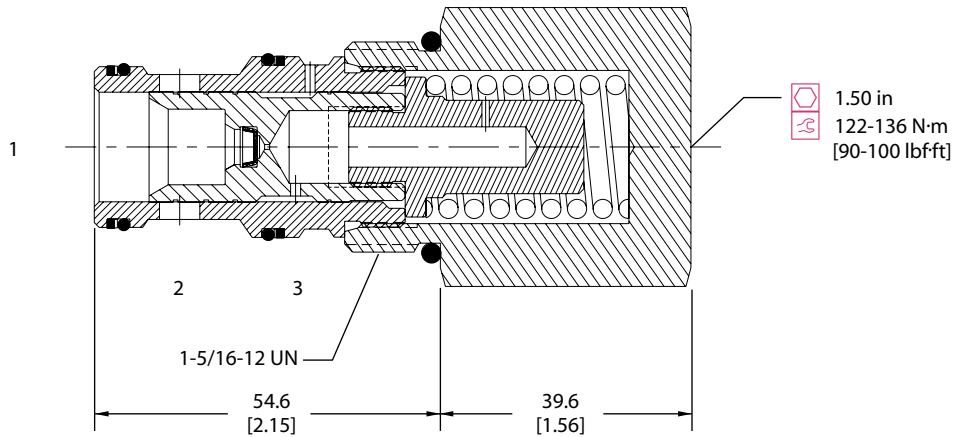
Theoretical performance



DIMENSION

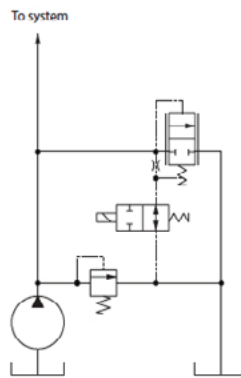
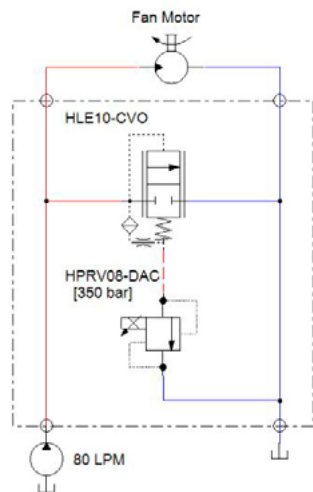
mm [in]

Cross-sectional view

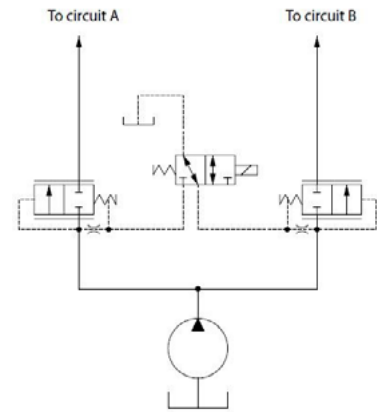


EXAMPLE CIRCUITS

High Pressure Proportional Relief
HPRV08-DAC Piloting HLE10-CVO



Pump unloading



Selector valve

ORDERING INFORMATION

		CP702 - 2 - B - 16S - 080		
Seals				Differential Control Pressure
B = Buna-N	Seal kit			bar [psi]
V = Viton	120033			040 = 2.8 [40]
	120034			080 = 5.5 [80]
				110 = 7.6 [110]
				150 = 10.3 [150]
				170 = 11.7 [170]
Housing and ports				
0 = No housing	Housing P/N	Pilot port		
6B = AL, 3/4 BSP	No housing			
8B = AL, 1 BSP	CP16-3S-6B/2B	= 1/4 BSP		
12S = AL, #12 SAE	CP16-3S-8B/2B	= 1/4 BSP		
16S = AL, #16 SAE	CP16-3S-12S/4S	= #4 SAE		
Other housings available	CP16-3S-12S/4S	= #4 SAE		