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.
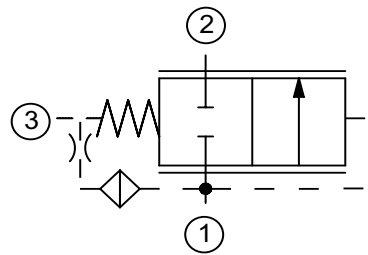
APPLICATION

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.
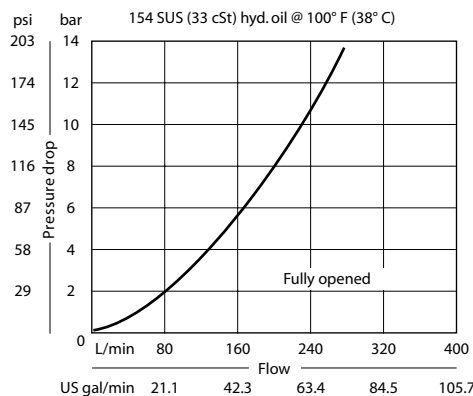
SPECIFICATION

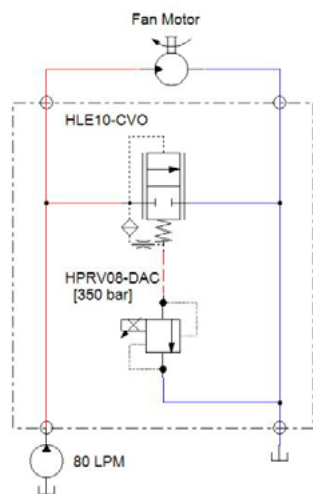|	
Rated pressure	210 bar [3045 psi]
Rated flow at 7 bar [100 psi]	190 l/min [50 US gal/min]
Weight	0.38 kg [0.83 lb]
Cavity	**SDC16-3S**

SCHEMATIC

PERFORMANCE CURVE

Theoretical performance

154 SUS (33 cSt) hyd. oil @ 100° F (38° C)

DIMENSION

mm [in]

Cross-sectional view

1.50 in
122-136 N·m
[90-100 lbf·ft]

1-5/16-12 UN

54.6 [2.15]   39.6 [1.56]
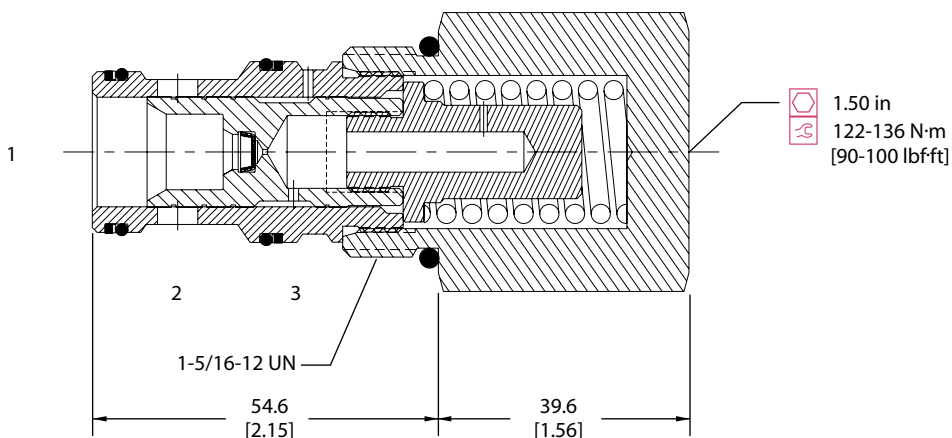
EXAMPLE CIRCUITS

High Pressure Proportional Relief
HPRV08-DAC Piloting HLE10-CVO

Fan Motor

HLE10-CVO

HPRV08-DAC
[350 bar]

80 LPM

Pump unloading

Selector valve
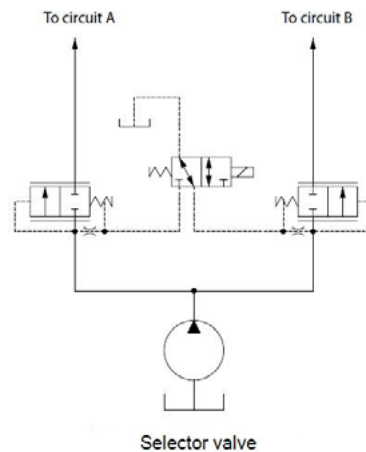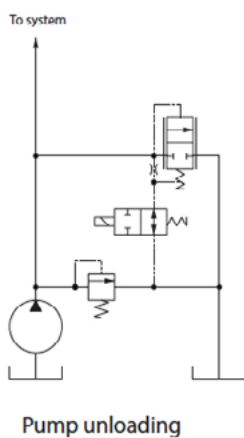
ORDERING INFORMATION

CP702 - 2 - **B** - **16S** - **080**

Seals

		Seal kit
B	= Buna-N	120033
V	= Viton	120034

Housing and ports

		Housing P/N	Pilot port
0	= No housing	No housing	
6B	= AL, 3/4 BSP	CP16-3S-6B/2B	= 1/4 BSP
8B	= AL, 1 BSP	CP16-3S-8B/2B	= 1/4 BSP
12S	= AL, #12 SAE	CP16-3S-12S/4S	= #4 SAE
16S	= AL, #16 SAE	CP16-3S-12S/4S	= #4 SAE

Other housings available

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]