

Logic Elements

CP303-4

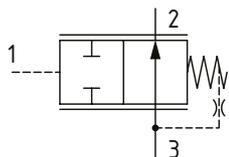
Pressure Compensator, Restrictive Type

210 bar [3000 psi] • 284 l/min [75 US gpm]

DESCRIPTION AND OPERATION

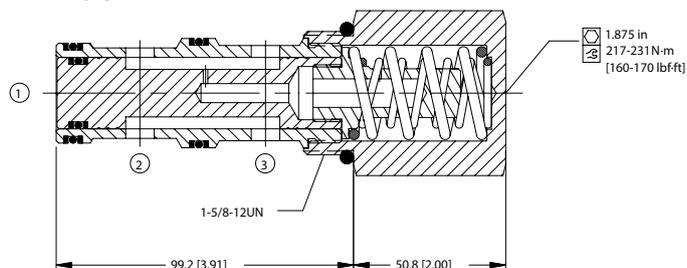
This is a 3-ported spool valve, where port 3 is connected to port 2 and port 1 is the pilot port. The spring chamber is connected to port 3 through an orifice. When port 3 is connected to the outlet of a control orifice and port 1 is connected upstream of the orifice, the valve functions as a restrictive pressure compensator. When the pressure drop across the orifice is equal to the spring set pressure, the spool restricts flow from port 3 to port 2 and compensates for any change in pressure difference across the valve.

SCHEMATIC



DIMENSIONS

mm [in]

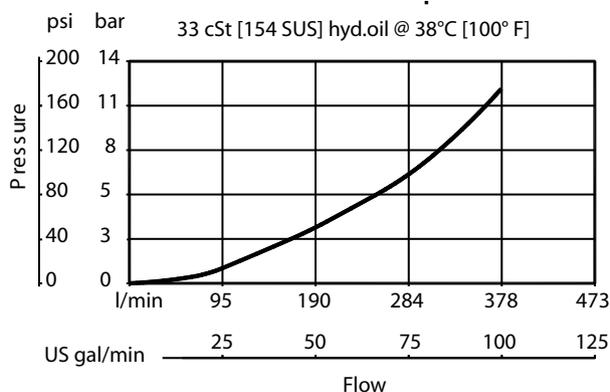


PERFORMANCE DATA

Rated pressure	210 bar [3000 psi]
Rated flow	284 l/min [75 US gpm]
Weight	1.11 kg [2.45 lb]
Cavity	SDC20-3

PERFORMANCE CURVES

Pressure Drop



MODEL CODE

CP303 - 4 - B - 16S - 0 - 050

Seal Option

Code	Seal kit
B-Buna - N	120200
V-Viton	120201

Housing

Code	Ports & Material	Housing Model Code
0	No Housing	
16S	AL, #16 SAE	CP20-3-16S
20S	AL, #20 SAE	CP20-3-20S
8B	AL, 1 BSP	CP20-3-8B
10B	AL, 1-1/4 BSP	CP20-3-10B

* Aluminum bodies are to be used for pressures less than 210 bar [3000 psi].

* Additional housings available

Differential Pressure

Code	Bar	Psi
050	3.4	[50]
080	5.5	[80]
100	6.9	[100]
130	9.0	[130]
150	10.3	[150]

Spool Seal Option

0 - No Seal
S - Seal included