

Flow Control Valves

CP342-1 /1S

Flow Divider/Combiner, Fixed Ratio, Flow Synchronizing Option

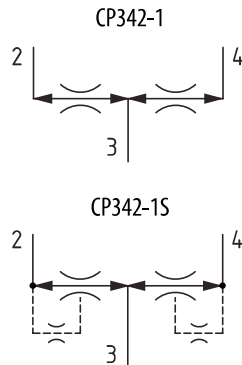
210 bar [3000 psi] • 150 l/min [40 US gpm]



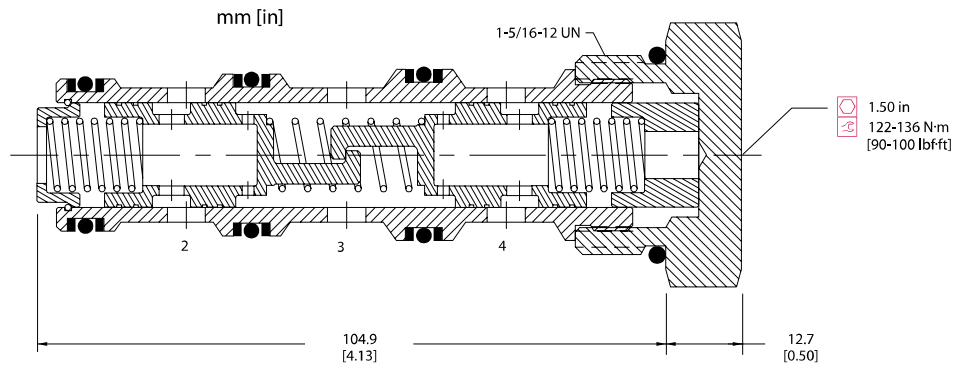
DESCRIPTION AND OPERATION

This is a fixed ratio flow divider/combiner valve. In dividing mode, flow enters port 3 and passes across two fixed orifices in linked spools. If the pressure drop through one orifice is higher than the other, then the spools will move together to restrict the flow in the lower pressure outlet port. This maintains equal pressure drops across the spools, thus maintaining the flow division in the outlet ports. In combining mode, flow will enter ports 2 and 4 pass through the orifices, which causes the spools to move to restrict the higher-pressure inlet and maintain equal pressure drops and equal flow into the valve. The CP342-1S provides synchronizing flow to the opposite port in the event that one port is completely blocked.

SCHEMATIC



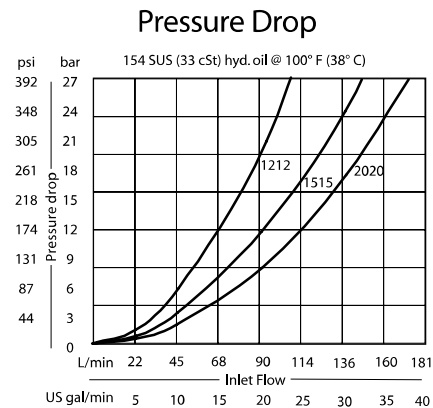
DIMENSIONS



PERFORMANCE DATA

Rated pressure	210 bar [3000 psi]
Rated flow	150 l/min [40 US gpm]
Weight	0.37 kg [0.81 lb]
Cavity	SDC16-4

PERFORMANCE CURVES



MODEL CODE

CP342 - 1 - B - 16S - 151S

Flow Synchronization Option

- 1 - Without synchronization
- 1S - With synchronization

Seal Option

Code	Seal Kit
B-Buna-N	120025
V-Viton	120026

Housing

Code	Ports & Material	Housing Model Code
0	No Housing	No Housing
6B	AL, 3/4 BSP	CP16-4-6B-X1
8B	AL, 1 BSP	CP16-4-8B-X1
12S	AL, #12 SAE	CP16-4-12S-X1
16S	AL, #16 SAE	CP16-4-16S-X1

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

* Additional housings available

Flow Setting

Flow Ratio

Code	Port 2: Port 4	Total Inlet Flow
1020	1:2	114 l/min [30 US gpm]
1212	1:1	91 l/min [24 US gpm]
1215	4:5	102 l/min [27 US gpm]
1220	3:5	121 l/min [32 US gpm]
1512	5:4	102 l/min [27 US gpm]
1515	1:1	114 l/min [30 US gpm]
1520	3:4	132 l/min [35 US gpm]
2012	5:3	121 l/min [32 US gpm]
2015	4:3	132 l/min [35 US gpm]
2020	1:1	151 l/min [40 US gpm]