Counterbalance Valves Technical Information

Dual Counterbalance - Hydraulic Vent CP448-2

OPERATION

This dual valve, internally piloted HIC is a low leakage counterbalance assembly with hydraulic vent. The CP448-2 uses two CP448-1 8-size cartridges and allows free flow from the V ports to the C ports and blocks flow in the reverse direction until the relief setting is reached, or until adequate pilot pressure has been applied to the opposite V port.



APPLICATIONS

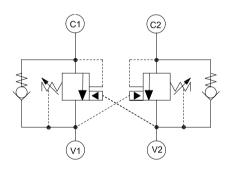
Dual counterbalance HIC's are used for controlling loads in bidirectional motion such as wheel motor applications or for cylinders going over center. They are also suitable for use on the boom and dipper cylinder on an excavator.

SPECIFICATIONS

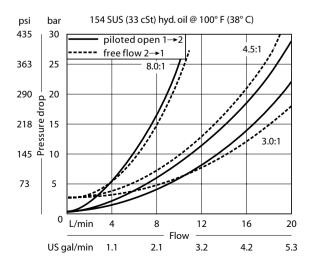
Rated pressure	350 bar [5075 psi]*
Rated flow at	20 l/min [5 US gal/min]
22 bar (319 psi)	
Weight	0.78 kg [1.72 lb]
Pilot ratio	3:1, 4.5:1, 8:1
Cavity	CIB

^{* 350} bar with steel housing 210 bar with aluminum housing

SCHEMATIC



PERFORMANCE



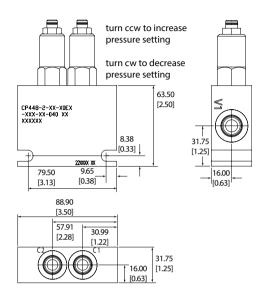


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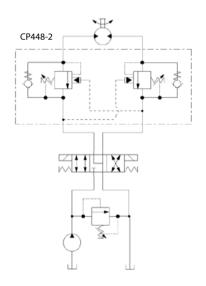
DIMENSIONS

mm [in]

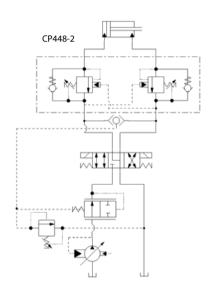


EXAMPLE CIRCUITS





Bi-directional Load Holding



ORDERING INFORMATION

