

Counterbalance Valves Technical Information

Dual Counterbalance - Atmospheric Vent DCB10-AV

OPERATION

DCB10-AV: Dual counterbalance HIC, 10-size, atmopheric vent. This HIC is low leakage and internally piloted. The DCB10-AV uses 2 CB10-AV 10-size cartridges and allows free flow from the V port 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

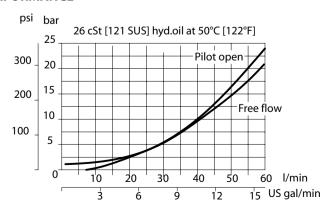
Atmospheric vented valves are applied when it is not practical to connect a separate vent line to the tank. Use dual counterbalance HIC's for controlling loads in bidirectional motion such as wheel motor applications or for cylinders going over center. They are also suitable for use on the boom and dipper cylinder on an excavator.

SPECIFICATIONS

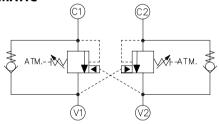
	0-01 F-0 11V
Rated pressure	350 bar [5075 psi]*
Rated flow at	60 l/min [16 US gal/min]
22 bar (319 psi)	-
Leakage	10 drops/min @ at 70% of
	crack pressure
Weight	0.90 kg [1.98 lb]
Pilot ratio	3.0:1, 4.5:1, 10.0:1
Cavity	CIB

^{* 350} bar with steel housing

PERFORMANCE

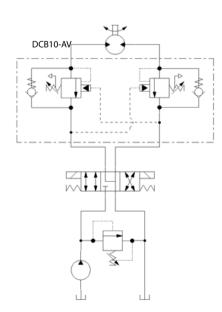


SCHEMATIC



EXAMPLE CIRCUITS

Bi-directional Motor Control



²¹⁰ bar with aluminum housing



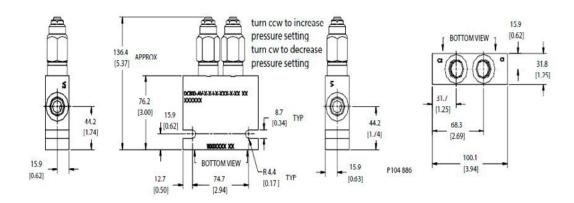
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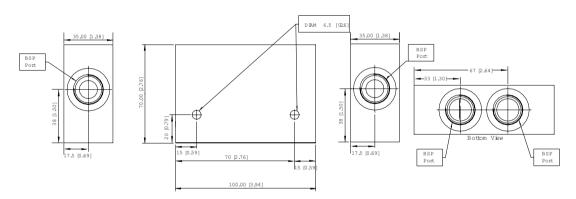
DIMENSIONS

mm [in]

Cross-sectional view SAE - Ported



BSP Ported - (Body Only)



ORDERING INFORMATION

