

Counterbalance Valves Catalog 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.

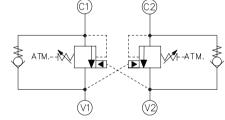
SPECIFICATIONS

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

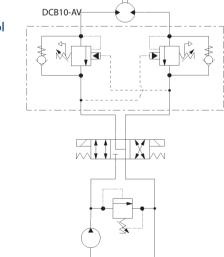
210 bar with aluminum housing

SCHEMATIC

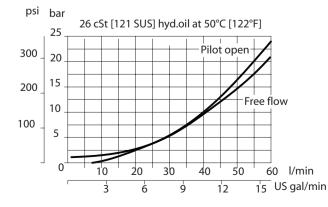


EXAMPLE CIRCUITS

Bi-directional Motor Control



PERFORMANCE



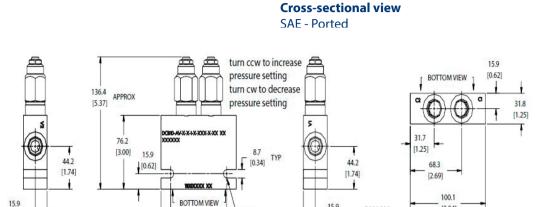


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DIMENSIONS

[0.62]

mm [in]



R44

[0.17]

74.7

[2.94]

12.7

[0.50]

TYP

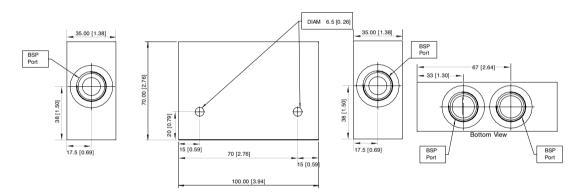
BSP Ported - (Body Only)

P104 886

[3.94]

15.9

[0.63]



ORDERING INFORMATION

			DC	<u> B10 - A\</u>	<u> </u>	<u>1 - </u>	<u>A - 1</u> -	<u> </u>	<u>XXX</u> -	<u>B</u> -	- <u>00</u>	
D		ounte	erbalance valve, nospheric vent]								
						D 'I (Code	Seal	
			Code	Pilot Ratio				в	Buna-N			
			A	3 to1				v	Viton			
			в	4.5 to 1	1: Check crack pressure in bar		I					
	Pressure Range			с	10 to 1	1 bar [14.5 psi]		Pressure Setting [in bar] XXX – No factory setting / no				
	Co	de	Pilot Ratio A (3:1) bar (psi)	Pilot Ratio B(bar (psi)	4.5:1)		Ratio C (10:1) bar (psi)		For custome in bar (Exar	nple 70	bar = 70;	
	1	I	35-110 [507-1595]	55-180 [797-2610] 75-240 [1087-3480]		90-350 [1305-5075]			125 bar = 125, etc.)			
	2	2	60-150 [870 - 2175]						nent type mal adjustment			
	3	3	80-230 [1160 - 3334]	90-350 [1305-5075	5]				er resistant			

Code	Seal	Seal Kit
в	Buna-N	11002672
v	Viton	11002673

r	r
Housing & Ports	Housing P/N
SE3B AL, 3/8 BSP	922518510
SE4B AL, 1/2 BSP	922518610
SES4B Steel, 1/2 BSP	11034327
6S AL, #6 SAE	11002669
S6S Steel, #6 SAE	11009170
8S AL, #8 SAE	11001779
S8S Steel, #8 SAE	11009171

Pressure Setting [in bar] XXX – No factory setting / no stamping

For customer specified settings, enter value in bar (Example 70 bar = 70; 125 bar = 125, etc.)