Counterbalance Valves Catalog

Atmospheric Vent CB10-AV

OPERATION

CB10-AV: Counterbalance valve, 10-size, atmospheric vent. This is a 3ported, externally piloted, cartridge style, low leakage unit. The check section allows free flow from the directional valve (port 2) to the load (port 1). Reverse flow is blocked until pilot pressure is applied at port 3. When the pressure at port 1 rises above the pressure setting, the integral relief valve is activated and vents the area behind the pilot piston.



APPLICATIONS

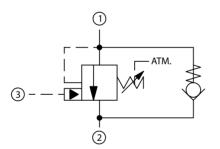
Atmospheric vented valves are applied when it is not practical to connect a separate vent line to the tank. Use a single counterbalance valves when the load is unidirectional, such as aerial lifts, cranes, or winches. In load holding applications, they can be used as hose-break valves when installed near or within an actuator. Dual valves can be used for controlling loads bi-directionally in motor applications, or for cylinders going over center.

SPECIFICATIONS

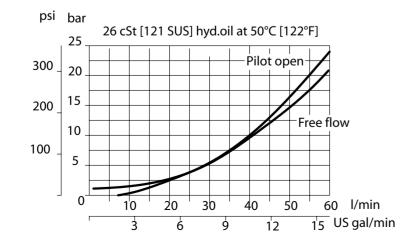
Rated pressure	350 bar [5075 psi]*
Rated flow at 22 bar [319 psi]	60 l/min [16 US gal/min]
Leakage	10 drops/min @ 70%
	of crack pressure
Weight	0.27 kg [0.60 lb]
Pilot ratio	3:1, 4.5:1, 10:1
Cavity	SDC10-3S

* 350 bar with steel housing

SCHEMATIC

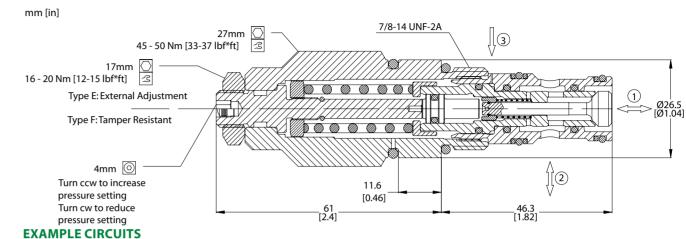


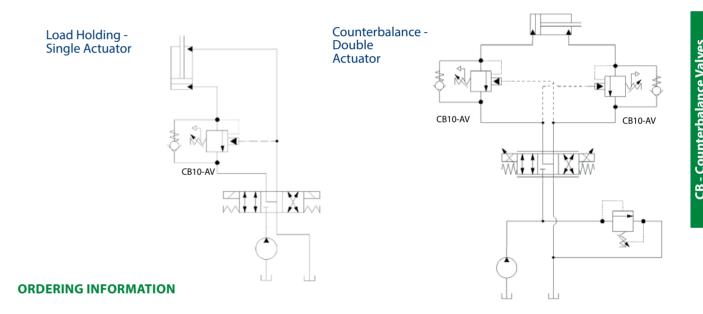
PERFORMANCE

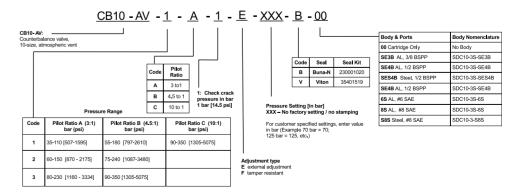


Counterbalance Valves Catalog Atmospheric Vent Member of the Danfoss Group CB10-AV

DIMENSIONS







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²¹⁰ bar with aluminum housing