

Counterbalance Valves Catalog Hydraulic Vent

Hydraulic Vent CB10-HV

OPERATION

CB10-HV: Counterbalance valve, 10-size, hydraulic vent. This valve is 3-ported, externally piloted and low leakage. The check section allows free flow from the directional valve (port 2) to the load (port 1), while normally blocking flow from port 1 to port 2. Reverse flow is blocked until pilot pressure is applied at port 3. When the load pressure at port 1 rises above the pressure setting, the intergral relief valve is activated and pressure is relieved from port 1 to port 2.



APPLICATIONS

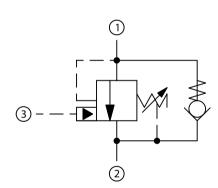
Single counterbalance valves are normally used when the load is unidirectional, such as aerial lifts, cranes, or winches. In load holding applications, they can be used as hose-break valves when installed near or within an actuator. Dual valves can be used for controlling loads bi-directionally in motor applications, or for cylinders going over center.

SPECIFICATIONS

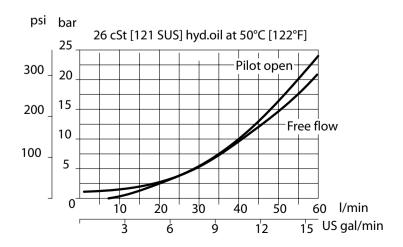
Rated pressure	350 bar [5075 psi]*
Rated flow at	60 l/min [16 US gal/min]
22 bar (319 psi	
Leakage	10 drops/min @ 70% of
	crack pressure
Weight	0.22 kg [0.47 lb]
Pilot ratio	3:1, 4.5:1, 10:1
Cavity	SDC10-3S

* 350 bar with steel housing 210 bar with aluminum housing

SCHEMATIC



PERFORMANCE

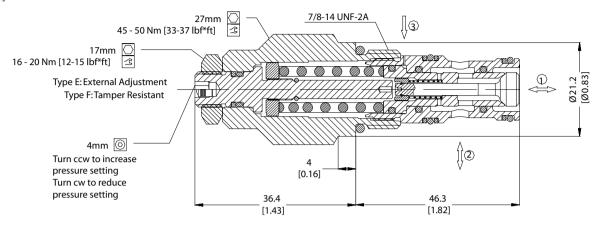




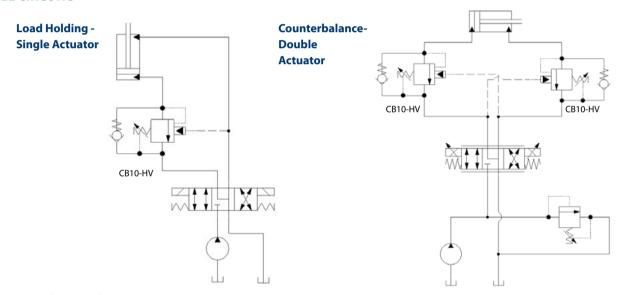
Counterbalance Valves Catalog Hydraulic Vent CB10-HV

DIMENSIONS

mm [in]



EXAMPLE CIRCUITS



ORDERING INFORMATION

