## **Counterbalance Valves Technical Information**

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**

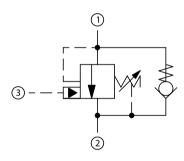
Single counterbalance valves are normally used when the load is unidirectional, such as aerial lifts, cranes, or winches. In load holding applications, they can be used as hose-break valves when installed near or within an actuator. Dual valves can be used for controlling loads bi-directionally in motor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

## **SPECIFICATIONS**

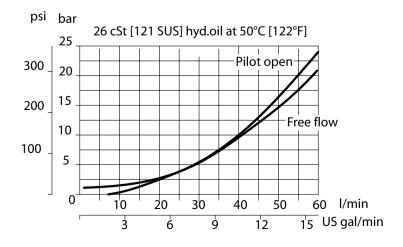
Rated pressure	350 bar [5075 psi]*
Rated flow at	60 l/min [16 US gal/min]
22 bar (319 psi	
Leakage	10 drops/min @ 70% of
	crack pressure
Weight	0.22 kg [0.47 lb]
Pilot ratio	3:1, 4.5:1, 10:1
Cavity	SDC10-3S

<sup>\* 350</sup> bar with steel housing 210 bar with aluminum housing

## **SCHEMATIC**



## **PERFORMANCE**



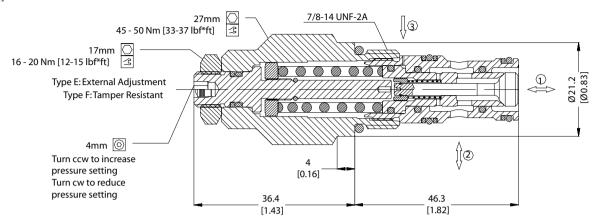


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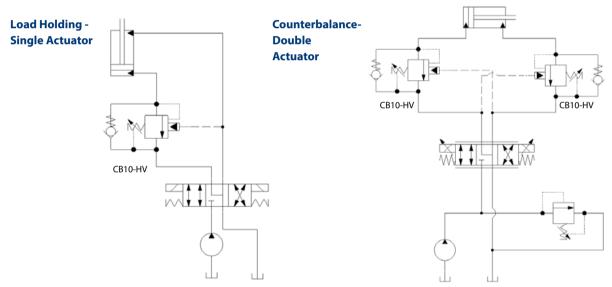
Hydraulic Vent CB10-HV

#### **DIMENSIONS**

mm [in]



## **EXAMPLE CIRCUITS**



## **ORDERING INFORMATION**

