

OPERATION

CB20-HV: Counterbalance valve, 20-size, hydraulic vent. This is a 3-ported, externally piloted, cartridge style, low leakage unit. 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 integral 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

CB - Counterbalance Valves

CB20-HV

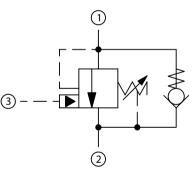
Rated pressure345 bar [5000 psi]*Rated flow at266 l/min [70 US gal/min]22 bar (319 psi)10 drops/min @ 70% of
crack pressureLeakage10 drops/min @ 70% of
crack pressureWeight1.22 kg [2.69 lb]Pilot ratio3:1, 4.5:1, 10:1CavityCP20-3S

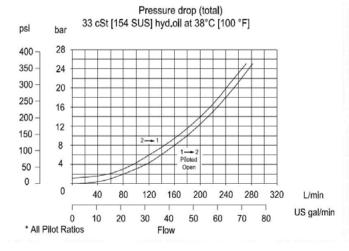
* 345 bar with steel housing

210 bar with aluminum housing

PERFORMANCE





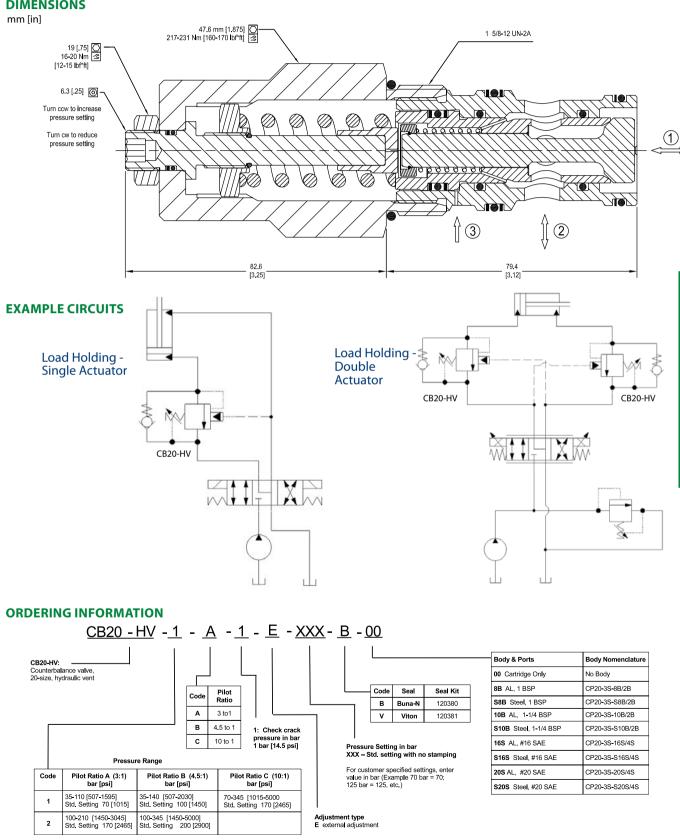




Counterbalance Valves Catalog Hydraulic Vent

CB20-HV

DIMENSIONS



CB - Counterbalance Valves

CB20-HV