Counterbalance Valves Technical Information

Hydraulic Vent CB20-HV

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

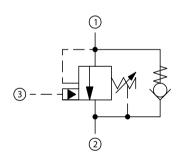
Single counterbalance valves are normally used when the load is unidirectional, such as aerial lifts, cranes, or winches. In load holding applications, they can be used as hose-break valves when installed near or within an actuator. Dual valves can be used for controlling loads bi-directionally in motor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

SPECIFICATIONS

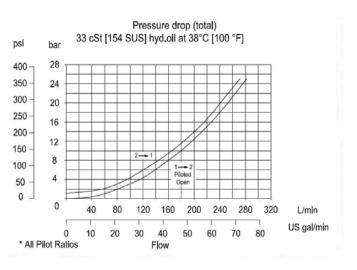
Rated pressure	345 bar [5000 psi]*
Rated flow at	266 l/min [70 US gal/min]
22 bar (319 psi)	
Leakage	10 drops/min @ 70% of
	crack pressure
Weight	1.22 kg [2.69 lb]
Pilot ratio	3:1, 4.5:1, 10:1
Cavity	CP20-3S

^{* 345} bar with steel housing 210 bar with aluminum housing

SCHEMATIC



PERFORMANCE

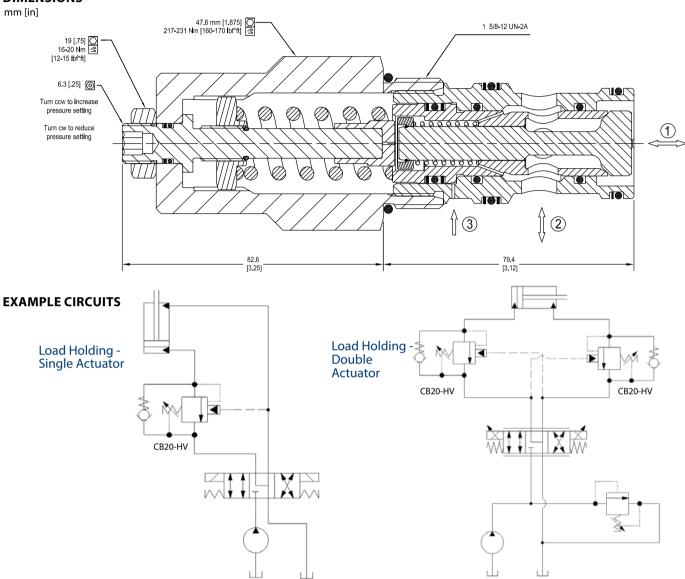




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DIMENSIONS



ORDERING INFORMATION

