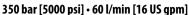
Motion Control Valves

VCB 06-EN

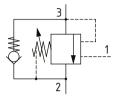
Overcenter Valve, Standard, Differential Area, Internal Drain, Port 1 Pilot





This is a differential area overcenter valve, which is a pilot assisted relief with a free flow check. With the relief valve set at around 1.3 times the maximum load induced pressure, the valve will prevent flow from taking place between ports 3 and 2. When pilot pressure is applied to port 1, the valve will meter the flow from port 3 to 2 compensating for any change in pilot pressure due to over-running or unstable loads. Free flow takes place from port 2 to port 3 through the check portion of the valve. These valves are ideal in most applications bringing stability, load holding, and hose failure protection when the valve is mounted onto or into the actuator. The spring chamber is connected to the valve port 2, so any back pressure will increase the pilot pressure required to keep the valve open and the pressure at which the valve will open as a relief valve.

SCHEMATIC



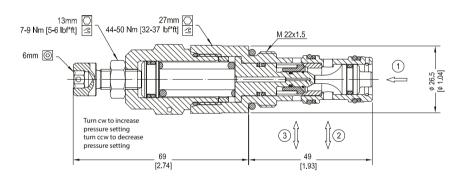
PERFORMANCE DATA

Rated pressure	350 bar [5000 psi]
Rated flow	60 l/min [16 US gpm]
Max total relief pressure	350 bar [5000 psi]
Max recommended load pressure at maximum setting	270 bar [3900 psi]
Pilot ratio	4:1, 7:1
Leakage	10 drops/min @ at 70% of crack pressure
Weight	0.21 kg [0.47 lb]
Cavity	NCS06/3

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DIMENSIONS

mm [in]



■ PERFORMANCE CURVES

Pressure drop 26 cSt [121 SUS] hyd.oil at 50°C [122 °F] psi bar 20 2 to 3 free flow 250 15 200 3 to 2 Piloted fully 150 10 open 100 50 0 15 60 I/min 15 US gal/min 5 10 Ó

Motion Control Valves

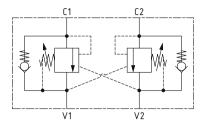
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Overcenter Valve, Standard, Differential Area, Internal Drain, Port 1 Pilot 350 bar [5000 psi] • 60 l/min [16 US qpm]

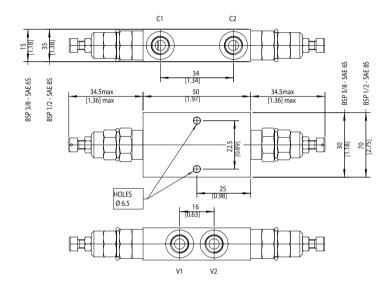
SCHEMATIC

VCB 06-EN-DL (dual)



DIMENSIONS

mm [in]



MODEL CODE

