Motion Control Valves

1CEB90

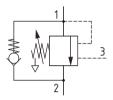
Danfoss

Overcenter Valve, Fully Balanced, Direct Acting, Atmospheric Vent, Port 3 Pilot 350 bar [5000 psi] • 90 l/min [24 US qpm]

■ DESCRIPTION AND OPERATION

This is a direct acting overcenter valve, which is a pilot assisted relief valve 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 1 and 2. When pilot pressure is applied to port 3 the valve will meter the flow from port 1 to 2 compensating for any change in pilot pressure due to over-running or unstable loads. Free flow from port 2 to port 1 can take place freely 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 atmosphere, so any back pressure will have no effect on the opening of the valve. Over time, there may be leakage past the seals to atmosphere. For valves with a separate drain port, reference the 1CEBD products. This is also available in a dual housing for bi-directional control.

■SCHEMATIC

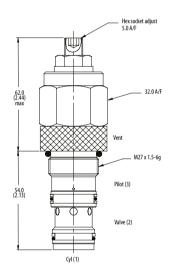


■ PERFORMANCE DATA

Rated pressure	350 bar [5000 psi]
Rated flow	90 l/min [24 US gpm]
Max total relief pressure	350 bar [5000 psi]
Max recommended load pressure at max setting	270 bar [3900 psi]
Pilot Ratio	4:1
Leakage	0.3 ml/min [5 drops/min]
Weight	0.29 kg [0.63 lb]
Cavity	A12336

DIMENSIONS

mm [in]

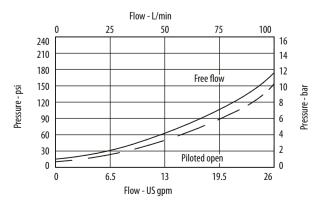


Turn CW to increase pressure setting and CCW to decrease pressure setting Torque lock nut to 20-25 Nm [15-18 ft lbs

Installation Torque 60 Nm [44 ft. lbs]

PERFORMANCE CURVES

Pressure Drop



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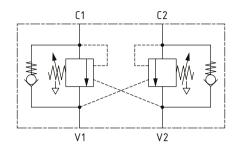
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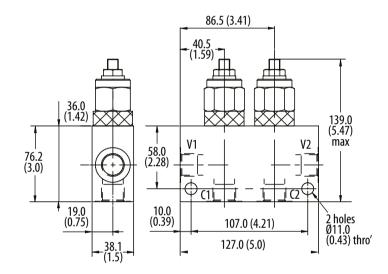
■SCHEMATIC

1CEEB95 (dual)



DIMENSIONS

mm [in]



MODEL CODE

