Motion Control Valves

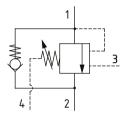
1CEBD120

Overcenter Valve, Fully Balanced, Differential Area, External Drain, Port 3 Pilot 400 bar [5800 psi] • 180 l/min [47 US qpm]



This is a differential area 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 a drain port 4, so any back pressure in port 2 will have no effect on the pilot pressure required to open the valve.

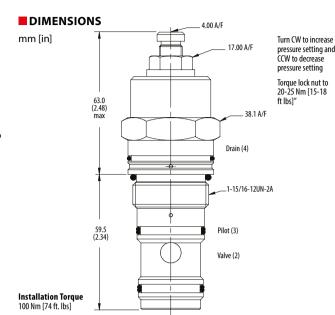
SCHEMATIC



■ PERFORMANCE DATA

Rated pressure	400 bar [5800 psi]
Rated flow	180 l/min [47 US gpm]
Max total relief pressure	400 bar [5800 psi]
Max recommended load pressure at max setting	270 bar [3900 psi]
Pilot Ratio	3:1, 8:1, 12:1, 22:1
Leakage	0.3 ml/min [5 drops/min]
Weight	0.59 kg [1.30 lb]
Cavity	A6726

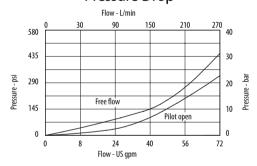
<u>Danfoss</u>



PERFORMANCE CURVES

Pressure Drop

Cyl (1)



MODEL CODE

