# **Motion Control Valves**

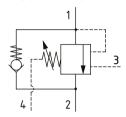
## **1CEBD90**

Overcenter Valve, Fully Balanced, Direct Acting, External Drain, 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 hoose 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**



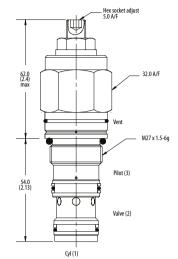
#### **PERFORMANCE DATA**

Rated pressure	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	A12196

## **DIMENSIONS**

Installation Torque 60 Nm [44 ft. lbs]

mm [in]



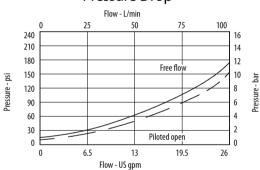
Turn CW to increase pressure setting and CCW to decrease pressure setting

Danfoss

Torque lock nut to 20-25 Nm [15-18 ft lbs]

## **■ PERFORMANCE CURVES**

## **Pressure Drop**



## MODEL CODE

