Motion Control Valves

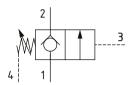
1CPBD90

Overcenter Valve, Zero Differential, Poppet Type, External Drain, Port 3 Pilot 350 bar [5000 psi] • 90 l/min [24 US gpm]

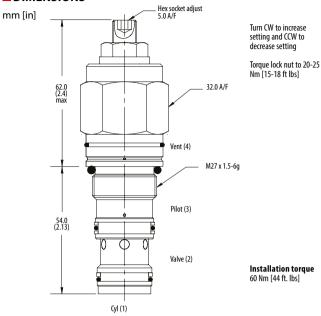
■ DESCRIPTION AND OPERATION

This is a zero differential overcenter valve, which is a pilot assisted, metered poppet valve with an integral free flow check. The check section allows free flow from port 2 to 1 into the actuator then holds and locks the load in position. By applying pilot pressure on port 3, the valve will open allowing the load to be lowered with oil passing from port 1 to 2. With port 4 connected to tank back pressure will not affect the pilot pressure required to open the valve. These valves are usually used in conjunction with a remote pilot source to maintain control in the event of hose failure. They should always be mounted onto or into the actuator and they do not have a relief function.

SCHEMATIC



DIMENSIONS



Danfoss

PERFORMANCE DATA

Rated pressure	350 bar [5000 psi]
Rated flow	90 l/min [24 US gpm]
Leakage	0.3 ml/min nominal [5 drops/min]
Weight	0.29 kg [0.63 lb]
Cavity	A12196

■ PERFORMANCE CURVES

Pressure Drop Flow - L/min 725 580 40 30 435 psi Pressure -20 290 Free flov 10 145 Piloted open 0 15 25 Flow - US gpm

■ MODEL CODE

