Motion Control Valves

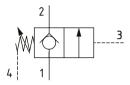
1CPBD30

Overcenter Valve, Zero Differential, Poppet Type, External Drain, Port 3 Pilot 350 bar [5000 psi] • 30 l/min [8 US qpm]

■ 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.

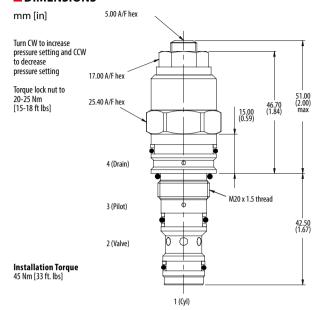
SCHEMATIC



■ PERFORMANCE DATA

Rated pressure	350 bar [5000 psi]
Rated flow	30 l/min [8 US gpm]
Leakage	0.3 ml/min [5 drops/min]
Weight	0.15 kg [0.33 lb]
Cavity	A20530

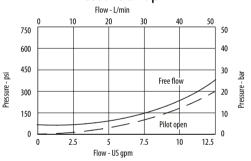
DIMENSIONS



Danfoss

PERFORMANCE CURVES

Pressure Drop



MODEL CODE

