Motion Control Valves

1CPBD300

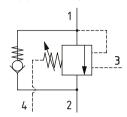
Overcenter Valve, Zero Differential, Poppet Type, External Drain, Port 3 Pilot



■ 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.

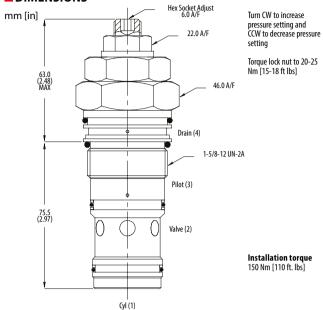
■SCHEMATIC



PERFORMANCE DATA

Rated pressure	400 bar [5800 psi]
Rated flow	300 l/min [80 US gpm]
Leakage	4 ml/min nominal [60 drops/min]
Weight	0.91 kg [2.00 lb]
Cavity	A13098

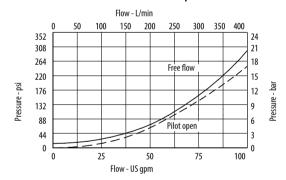
DIMENSIONS



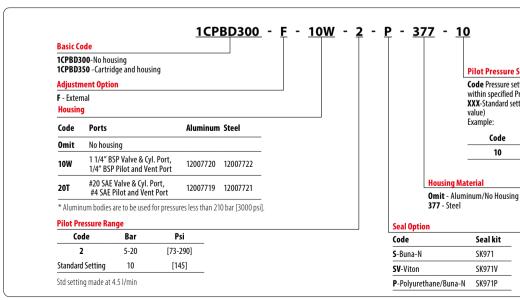
Danfoss

■ PERFORMANCE CURVES

Pressure Drop



■ MODEL CODE



Pilot Pressure Setting

Code Pressure setting in bar (10 bar increments within specified Pressure Range) XXX-Standard setting (see Pressure Range for

Bar Psi 10 [145]

Code	Seal kit
S -Buna-N	SK971
SV -Viton	SK971V
P -Polyurethane/Buna-N	SK971P