Motion Control Valves

1CEECSH350

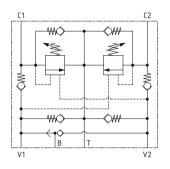


Dual Counterbalance Valve, Standard, Differential Area with Makeup Checks and Shuttle Valve 350 bar [5000 psi] • 300 l/min [80 US qpm]

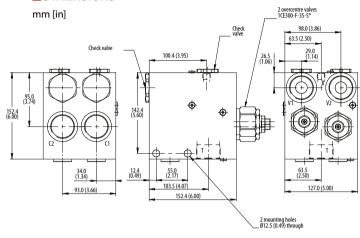
■ DESCRIPTION AND OPERATION

This is a dual motion control and lock valve with a shuttle valve, make up check valves and cross line shock and thermal relief functions built into an HIC. Flow passes through a check valve from V1 to C1 to the actuator and returns through C2 to V2 or to T. Pilot pressure raised before the check valve in line V1 to C1 pilots open the overcenter valve on the outlet of the actuator, providing load control. In the reverse direction, flow passes through a check valve from V2 to C2 to the actuator and returns through C1 to V1 or to T. Pilot pressure raised before the check valve in line V2 to C2 pilots open the overcenter valve on the outlet of the actuator, providing load control. Check valves between T, V1 and V2 provide anti-cavitation protection. A shuttle valve is provided between ports V1 and V2 to provide pressure to remove a spring applied brake.

SCHEMATIC



DIMENSIONS

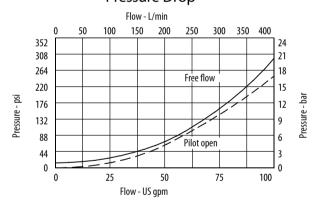


■ PERFORMANCE DATA

Rated pressure	350 bar [5000 psi]
Rated flow	300 l/min [80 US gpm]
Max total relief pressure	350 bar [5000 psi]
Max recommended load pressure at max setting	270 bar [3900 psi]
Pilot Ratio	3:1, 8:1
Leakage	4 ml/min [60 drops/min]
Weight	8.2 kg [18.0 lb]

PERFORMANCE CURVES

Pressure Drop



MODEL CODE

