

Motion Control Valves

1CEESH35

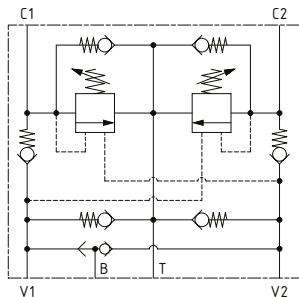
Dual Counterbalance Valve, Standard, Direct Acting with Makeup Checks and Shuttle Valve

350 bar [5000 psi] • 30 l/min [8 US gpm]

DESCRIPTION AND OPERATION

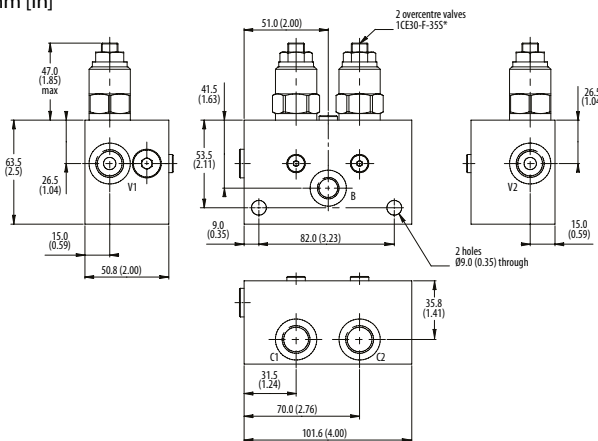
This is a dual motion control and lock valve with a shuttle valve, make up check valves and cross line shock and thermal relief functions built into an HIC. Flow passes through a check valve from V1 to C1 to the actuator and returns through C2 to V2 or T. Pilot pressure raised before the check valve 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

mm [in]

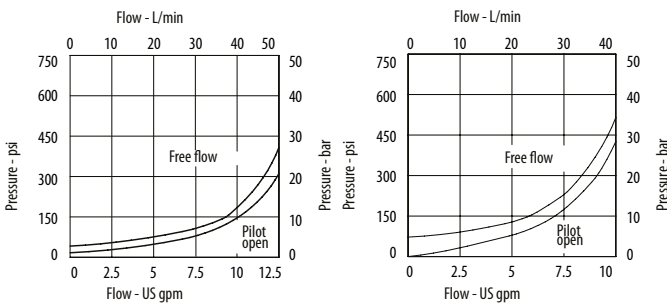


PERFORMANCE DATA

Rated pressure	350 bar [5000 psi]
Rated flow	30 l/min [8 US gpm]
Max total relief pressure	350 bar [5000 psi]
Max recommended load pressure at max setting	270 bar [3900 psi]
Pilot Ratio	2.5:1, 5:1, 10:1
Leakage	0.3 ml/min [5 drops/min]
Weight	2.03 kg [4.5 lb]

PERFORMANCE CURVES

Pressure Drop



MODEL CODE

1CEESH35 - F - 3W - 35 - S - 5 - 377 - 210

Adjustment Option

F - External
N - Non-adjustable option, contact technical support

Housing

Code	Ports	Steel single
3W	3/4" BSP Valve & Cyl Port 1/4" BSP Brake Port	BXP15939-3WS377

Pressure Range

Code	Pilot Ratio 2		Pilot Ratio 5		Pilot Ratio 10	
	Bar	Psi	Bar	Psi	Bar	Psi
20	70-210	[1015-3000]	70-120	[1015-3000]	100-210	[1450-3000]
Standard setting	100	[1450]	100	[1450]	100	[1450]
35	100-350	[1450-5000]	100-350	[1450-5000]	120-350	[1740-5000]
Standard setting	210	[3000]	210	[3000]	210	[3000]

Std setting made at 4.5 l/min

Pressure Setting

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

Code	Bar	Psi
210	210	[3000]

Housing Material

377 - Steel

Pilot Ratio

2 - 2.5:1
5 - 5:1
10 - 10:1

Seal Option

Code	Seal kit
S-Buna-N	SK815
SV-Viton	SK815V