www: e-mail: shop/sklep: www.salushydraulics.pl pl@salushydraulics.pl www.salushydraulics_pl/sklp

Motion Control Valves

1CE90

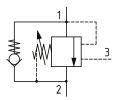
406AA00164A, 1CE90-F-20S4

Overcenter Valve, Standard, Direct Acting, Internal Drain, Port 3 Pilot 350 bar [5000 psi] • 90 l/min [24 US gpm]

■ DESCRIPTION AND OPERATION

This is a direct acting overcenter valve, which is a pilot assisted relief with a free flow check. With the relief valve set at approximately 1.3 times the maximum load induced pressure, the valve will prevent flow from port 1 to 2. When pilot pressure is applied to port 3, the valve will meter the flow from port 1 to 2, compensating for any change in pilot pressure due to over-running or unstable loads. Free flow takes place from port 2 to port 1 through the check portion of the valve. These valves are ideal in most applications bringing stability, load holding, and hose failure protection when the valve is mounted onto or into the actuator. The spring chamber is connected to the valve port 2, so any back pressure will increase the pilot pressure required to keep the valve open and the pressure at which the valve will open as a relief valve. This is also available in a dual housing for bi-directional control.

SCHEMATIC

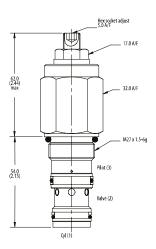


■ PERFORMANCE DATA

Rated pressure	350 bar [5000 psi]
Rated flow	90 l/min [24 US gpm]
Max total relief pressure	350 bar [5000 psi]
Max recommended load pressure at max setting	270 bar [3900 psi]
Pilot Ratio	4:1, 8:1
Leakage	0.3 ml/min nominal [5 drops/min]
Weight	0.29 kg [0.63 l b]
Cavity	A12336

DIMENSIONS

mm [in]



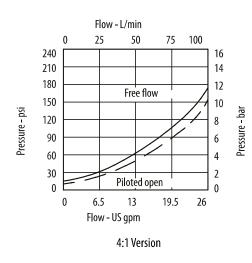
Turn CW to increase pressure setting and CCW to decrease pressure setting.

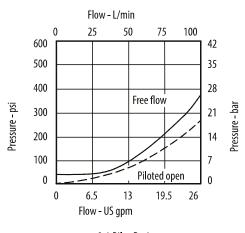
Torque lock nut to 20-25 Nm [15-18 ft lbs]

Installation torque 60 Nm [44 ft. lbs]

PERFORMANCE CURVES

Pressure Drop





8:1 Pilot Ratio

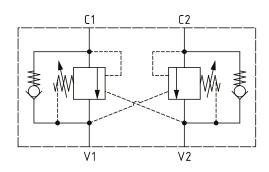
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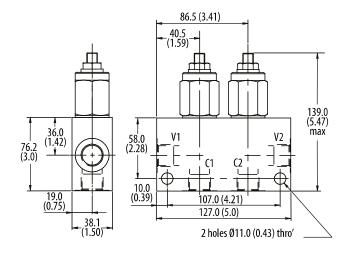
■ SCHEMATIC

1CEE95 (dual)



DIMENSIONS

mm [in]



■ MODEL CODE

1CE95 - F - 4W - 35 - S - 4 - 377 - 200 **Basic Code** 1CE90- No housing 1CE95- Cartridge and housing 1CEE95 - Cartridges and dual housing **Adjustment Option** F - External N - Non-adjustable option, contact technical support. **Aluminum** Steel **Aluminum** Steel dual Code Ports single 0mit No housing 1/2" BSP Valve & Cyl Port 1/4" BSP Pilot Port B13625 B13626 C13627 C13628 1/2" SAE Valve & Cyl Port 1/4" SAE Pilot Port B10806 C11561 B10922

- * A |uminum bodies are to be used for pressures less than 210 bar [3000 psi].
- * Additional housings available

Std setting made at 4.5 L/min

Pressure Range

Code	Bar	Psi
20	70-225	[1015-3260]
Standard Setting	100	[1450]
35	200-350	[2900-5000]
Standard Setting	210	[3000]

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
200	200	[2900]

Housing Material

Omit - Aluminum/No housing

377 - Steel

Pilot Ratio

4 - 4:1 **8** - 8:1

Seal Option

Code	Seal kit	
S - Buna-N	SK633	
SV-Viton	SK633V	



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