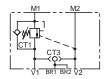


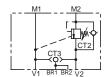
MOTOR MOUNTED VALVES OMP MOUNTING PATTERN

SINGLE AND DUAL OVERCENTRE VALVE WITH BRAKE RELEASE SHUTTLE

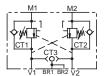
1CEESHOMP35



1CESHOMP35-1



1CESHOMP35-2



1CEESHOMP35

APPLICATION

Overcentre valves give static and dynamic control of loads by regulating the flow into and out of hydraulic actuators. When installed close to or within an actuator, the overcentre valve will stop runaway in the event of hose burst and if open centre directional control valves are used, will allow thermal expansion relief of the hydraulic fluid.

The overcentre cartridge is ideal for mounting directly into a cavity machined in the body of the cylinder, motor or rotary actuator. The cartridge can also be mounted directly to the ports via a specifically machined body as part of a Hydraulic Integrated Circuit or single unit, or contained within one of our standard line bodies.

Single overcentre valves are normally used when the load is unidirectional, for example an aerial platform or crane and dual overcentre valves are used for controlling loads in both directional for motor applications or for cylinders going over centre.

OPERATION

The check section allows free flow into the actuator then holds and locks the load against movement. The pilot assisted relief valve section will give controlled movement when pliot pressure is applied. The relief section is normally set to open at a pressure at least 1.3 times the maximum load induced pressure but the pressure required to open the valve and allow movement depends on the pilot ratio of the valve. For optimisation of load control and energy usage, a choice of pilot ratios is available.

The pressure required to open the valve and start actuator movement can be calculated as follows:

Pilot Pressure = (Relief Setting) - (Load Pressure)
Pilot Ratio

FEATURES

Cartridge is economical and fits simple cavity. Allows quick, easy field service - reduces down time. Directly interchangeable with 30 litres/min pilot check valve. See catalogue page 7-151.

PILOT RATIOS

2.5:1 Best suited for extremely unstable

applications such as long booms or flexible

frameworks.

5:1 Best suited for applications where load varies

(Standard) and machine structure can induce instability

10:1 Best suited for applications where the load

remains relatively constant.

SPECIFICATIONS

Figures based on: Oil Temp = 40°C Viscosity = 40 cSt

	1
Rated Flow	30 litres/min (8 US GPM)
Max Setting	Max Load Induced Pressure: 270 bar (4000 psi) Relief Setting: 350 bar (5000 psi)
Cartridge Material	Working parts hardened and ground steel. External surfaces zinc plated
Body Material	Standard aluminium (up to 210 bar*) Add suffix '377' for steel option
Mounting Position	Unrestricted
Cavity Number	A6610 (See Section 17)
Torque Cartridge into Cavity	45 Nm (33 lbs ft)
Weight	1CESHOMP35 2.29 kg (5.04lbs) 1CEESHOMP35 2.34 kg (5.15 lbs)
Seal Kit Number	1CESHOMP35 SK1285 SK1285V 1CEESHOMP35 SK1284 SK1284V
Recommended Filtration Level	BS5540/4 Class 18/13 (25 micron nominal)
Operating Temp	-20°C to +90°C
Leakage	0.3 millilitres/min nominal (5 dpm)
Nominal Viscosity Range	5 to 500 cSt

^{*} For applications above 210 bar please consult our technical department or use the steel body option.

Integrated Hydraulics Ltd

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Website: www.integratedhydraulics.com

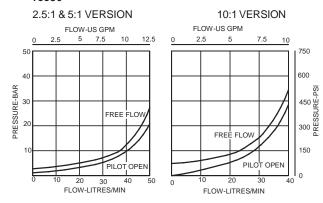
Integrated Hydraulics Inc

7047 Spinach Drive, Mentor, Ohio 44060, USA Tel: (440) 974 3171 Fax: (440) 974 3170 Website: www.integratedhydraulics.com



PRESSURE DROP





COMPLETE VALVE

1/2" PORTS

1CEESHOMP35 **BASIC CODE:**

Sub-assembly part numbers

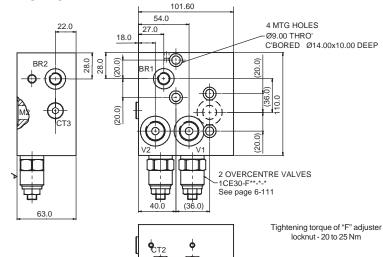
BSP, aluminium BXP24053-4W-S

Cavity plug part numbers

Nitrile

AXP13032-01-N

Viton AXP13032-01-V

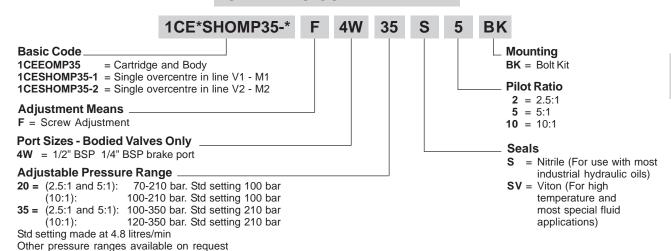


CHECK MOTOR MOUNTING

COMPATIBILITY BEFORE SPECIFYING

Where measurements are critical request certified drawings

ORDERING CODE EXAMPLE



* Cartridges must not be adjusted above the safe working pressure of the motor