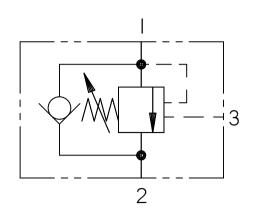
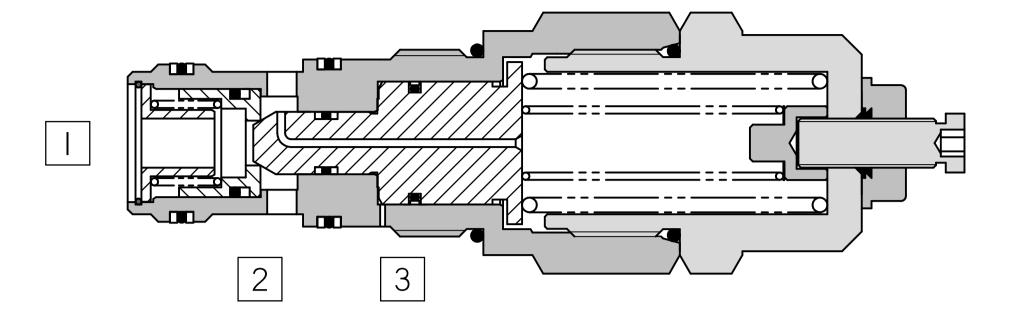
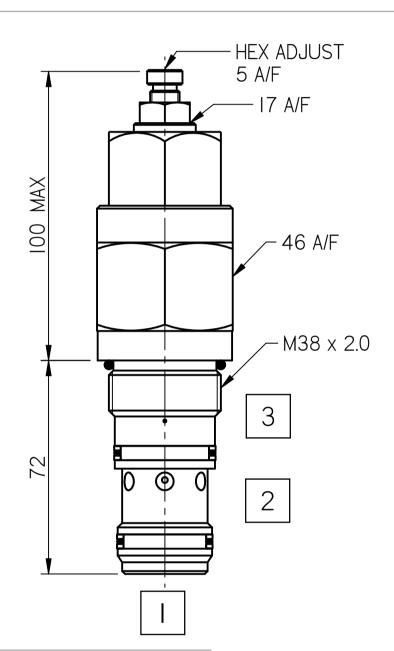
FLUID POWER SYMBOL







Application

Overcentre valves give static and dynamic control of loads by regulating flow into and out of hydraulic actuators. The Overcentre valve will stop the load from running away in the event of a hose burst. If open center directional control valves are used, they will allow the thermal expansion relief of the hydraulic fluid. These valves provide excellent hose burst protection.

Operation

The check section allows free flow into the actuator (from 2 to 1) then holds and locks the load against movement (from 1 to 2). The pilot pressure in the pilot port (3) will give a controlled movement to piston when the pressure is applied. The pressure required to open the valve and allow movement depends on the pilot ratio of the valve. The pressure required to open the valve and start actuator movement can be calculated as follows:

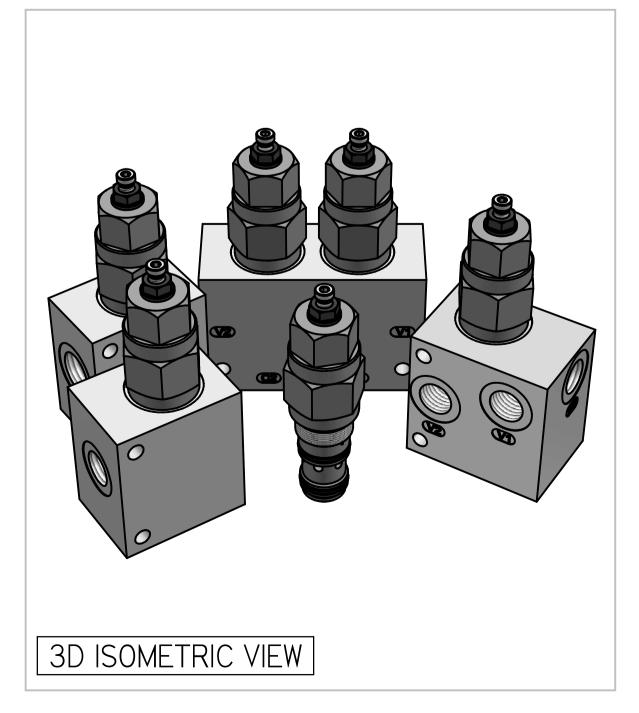
Pilot = Relief Setting - Load Pressure
Pressure Pilot Ratio

Pilot Ratio

5:1 Best suited for applications where the load varies and machine structure can induce instability. Other ratios can be made available upon request.

Specifications

Figures based on: Oil Temp = 40°C Viscosity = 40 cSt			
Max Flow	180 lpm		
Max Setting	Load Induced Pressure Relief Setting	e : 270 bar : 350 bar	
Cartridge Material	Working parts : Hardened, ground steel External surfaces : Zinc plated		
Weight (Cartridge only)	0SII45: I.200 kg		
Cavity Number	TH20081 (Refer Cavities Section)		
Manifold Material	Aluminium (upto 250 bar) Add Suffix '729' for SG Iron (350 bar)		
Torque into Cavity	150 Nm		
Mounting	Line		
Seal Kit Number	SKOSII45 (Nitrile)	SKOSII45 V (Viton®)	
Filtration Level	BS5540/4 Class 18/13 (25µ nominal)		
Operating Temp	-20°C to +90°C (Standard Seals)		
Leakage	Less than 0.3 millilitres/min (5 dpm)		
Viscosity Range	5 to 500 cSt		



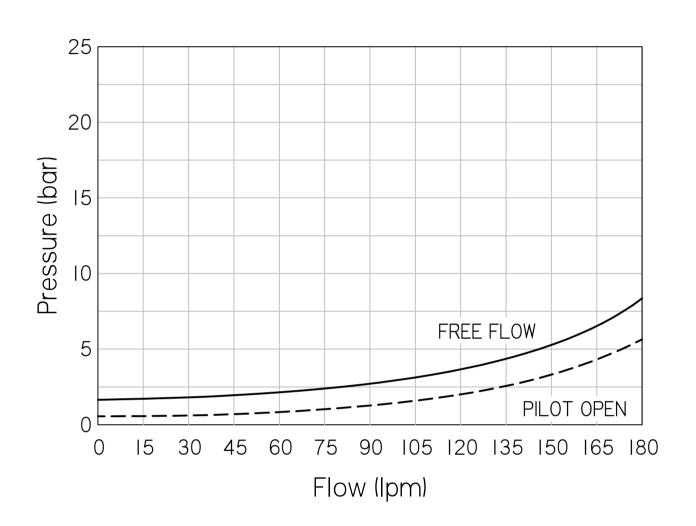
Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

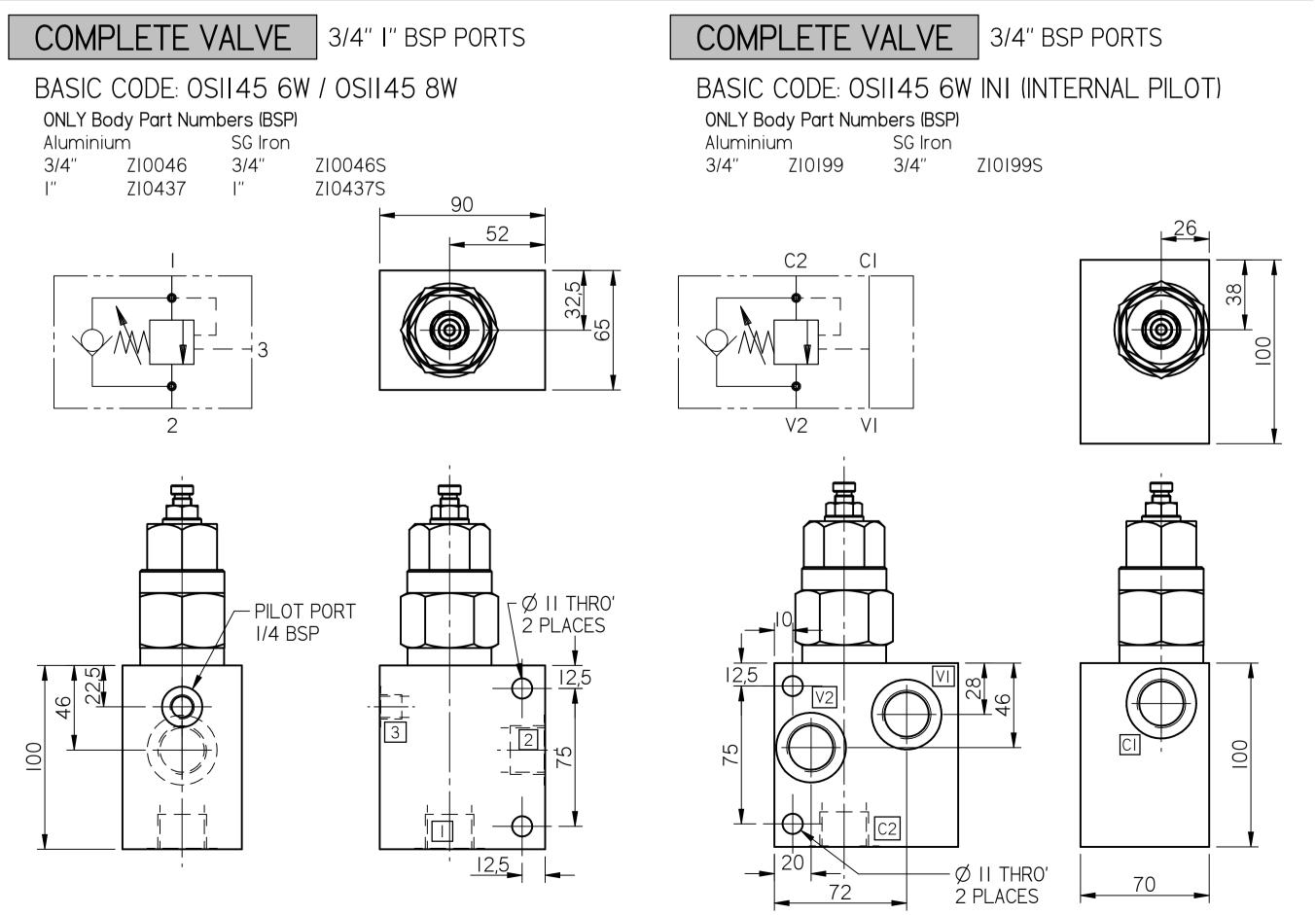


TO ORDER

OSII45 F 6W 35 N 5 INI BASIC CODE - INTERNAL PILOT AREA RATIO **ADJUSTMENT** 5: RATIO OF 5:I F: SCREW ADJUST SEAL KIT PORT SIZE N: NITRILE 6W: 3/4 BSP PORTS V: VITON 8W: I BSP PORTS OMIT FOR CARTRIDGE PRESSURE RANGE 20: 140 to 250 bar. Std setting 190 bar 35: 220 to 330 bar. Std setting 270 bar

PRESSURE CHARACTERISTICS





Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

OSII45

OVERCENTRE VALVE

TO ORDER



COMPLETE VALVE

3/4" BSP PORTS

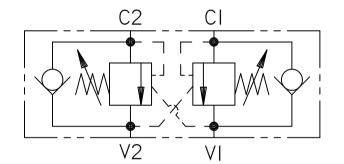
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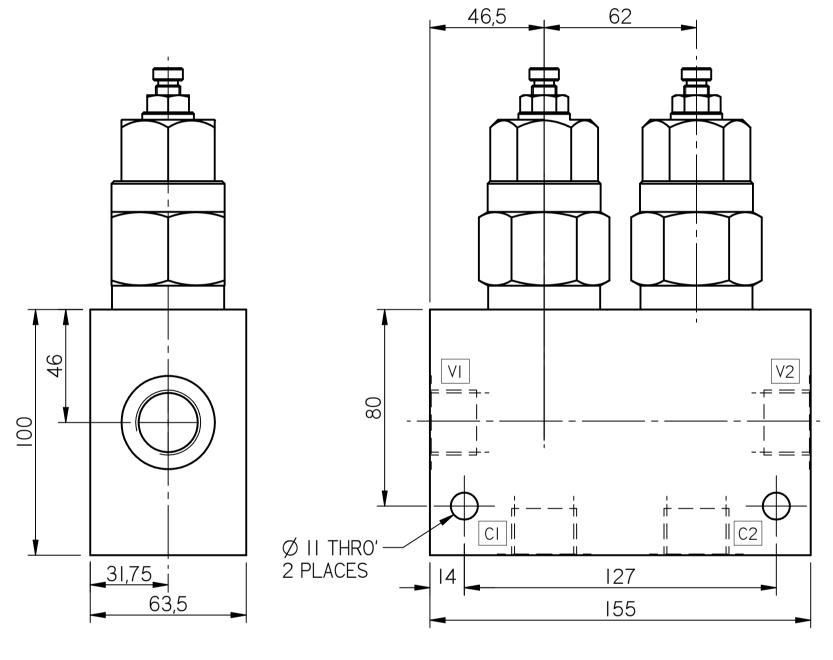
ONLY Body Part Numbers (BSP)
Aluminium SG Iron

3/4" ZI02I3

SG Iron 3/4"

ZI02I3S





COMPLETE VALVE

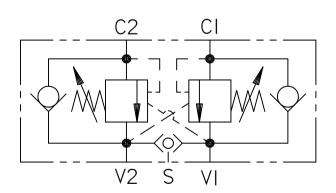
3/4" BSP PORTS

BASIC CODE: OSI2SHI45 6W

ONLY Body Part Numbers (BSP)

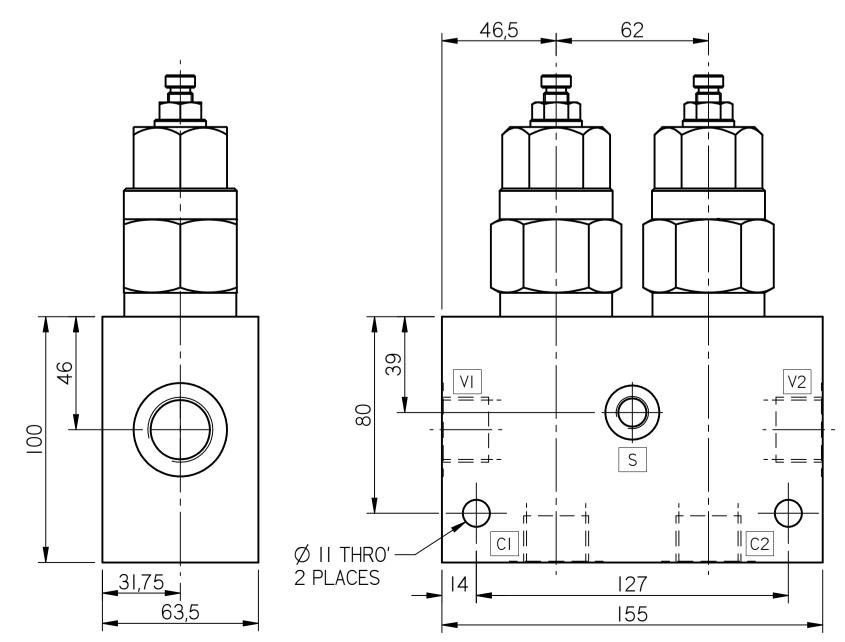
Aluminium
3/4" Z10213SH

SG Iron



Application

These Dual Overcentre valves also contain a brake shuttle valve which ensures that pressure is applied to a brake release circuit regardless of whether pressure is applied to Ports VI or V2. These multifunction valves are normally used for the static and dynamic control of systems using motors or semi-rotary actuators.



Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.



NOTES