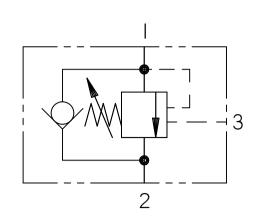
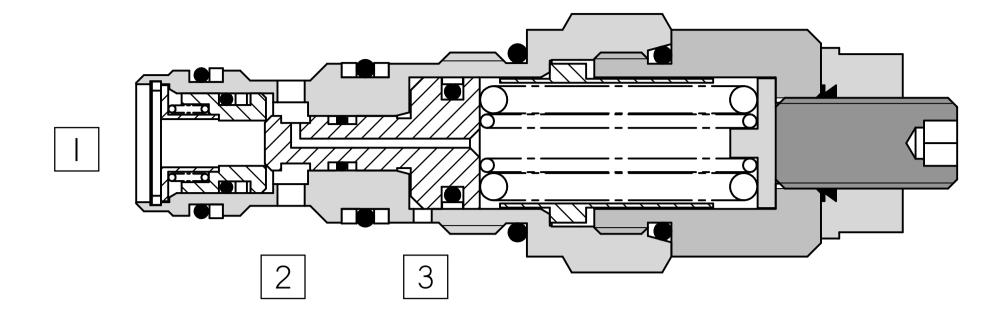
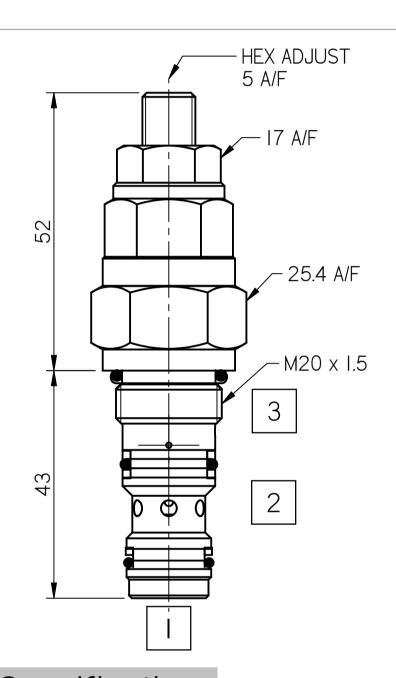
FLUID POWER SYMBOL







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 I 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:

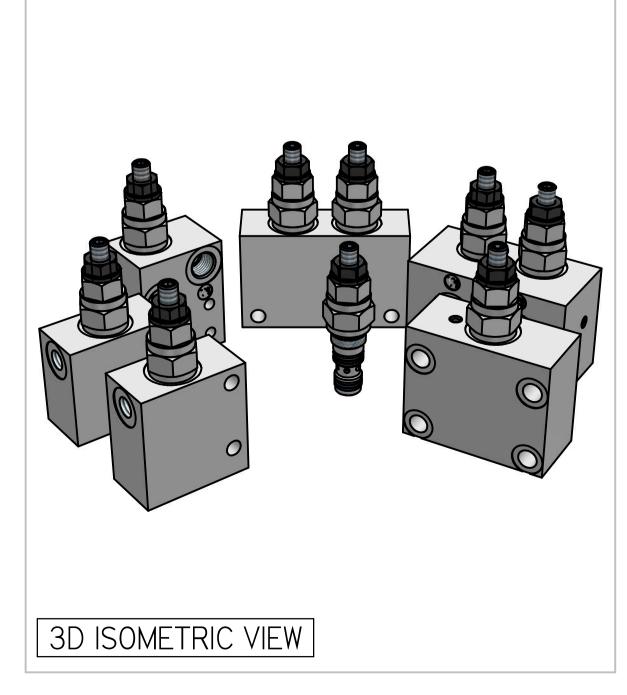
Pilot = Relief Setting - Load Pressure
Pressure Pilot Ratio

Pilot Ratio

7:1 Best suited for applications where the load varies and machine structure can induce instability. Other ratios can be made available upon request.

Specifications

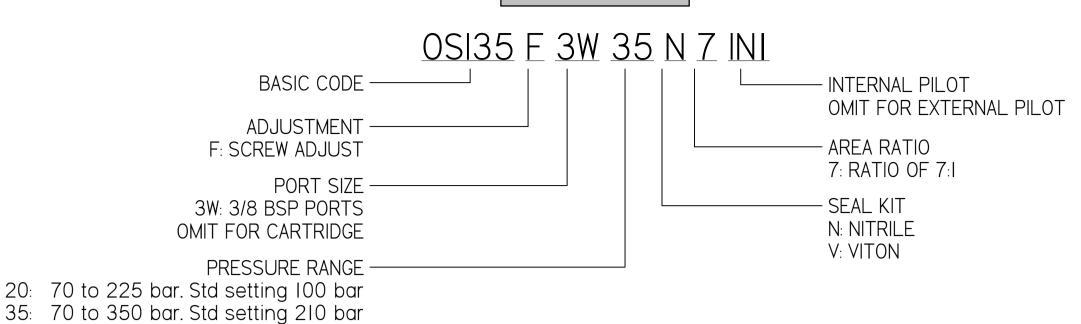
Figures based on: 0il Temp = 40°C Viscosity = 40 cSt		
Rated Flow	40 lpm	
Max Setting	Load Induced Pressure Relief Setting	e : 270 bar : 350 bar
Cartridge Material	Working parts : Hardened, ground steel External surfaces : Zinc plated	
Weight (Cartridge only)	OSI35: 0.150 kg	
Cavity Number	TH6610 (Refer Cavities Section)	
Manifold Material	Aluminium (upto 250 bar) Add Suffix '729' for SG Iron (350 bar)	
Torque into Cavity	45 Nm	
Mounting	Line/Subplate	
Seal Kit Number	SKOSI35 (Nitrile)	SKOSI35 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	



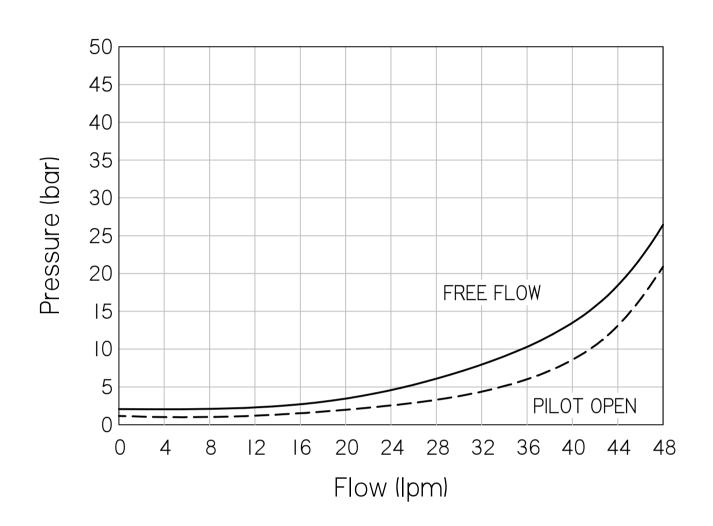
Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.



TO ORDER



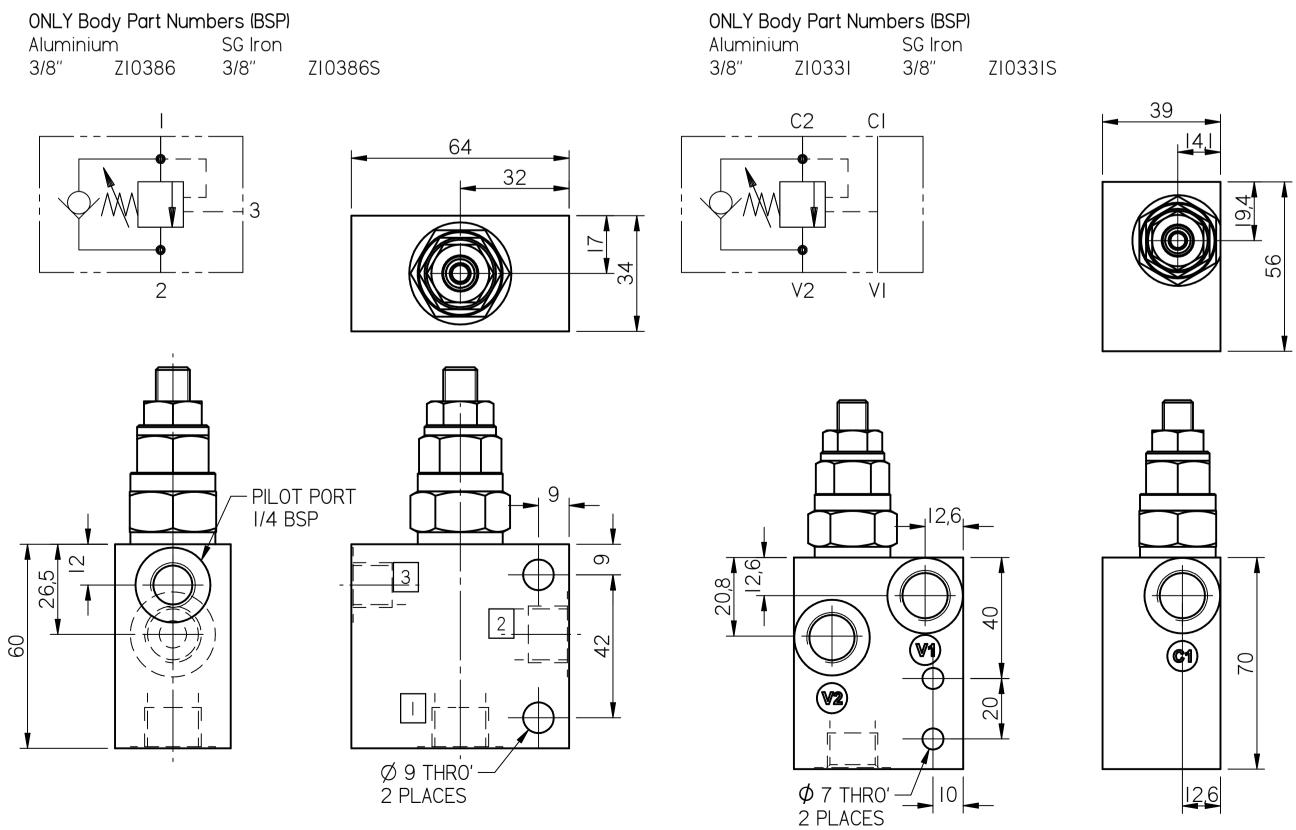
PRESSURE CHARACTERISTICS



COMPLETE VALVE 3/8" BSP PORTS BASIC CODE: OSI35 3W

COMPLETE VALVE 3/8" BSP PORTS

BASIC CODE: OSI35 3W INI (INTERNAL PILOT)

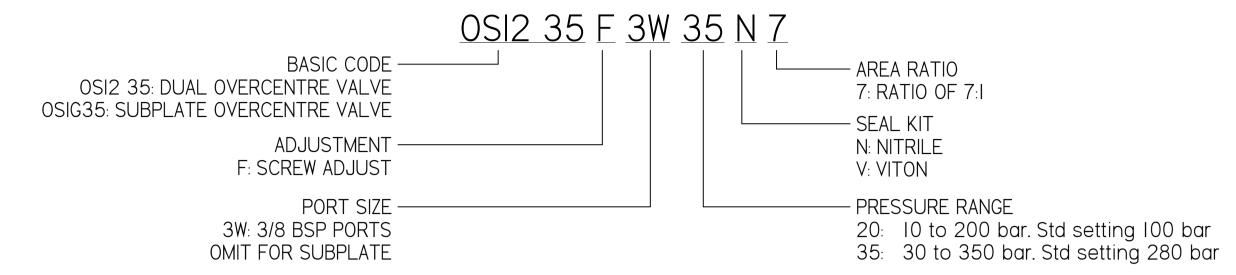


Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

OSI35

OVERCENTRE VALVE

TO ORDER



COMPLETE VALVE 3/8" BSP PORTS

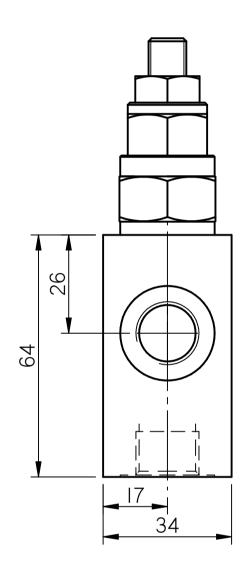
BASIC CODE: OSI2 35 3W ONLY Body Part Numbers (BSP)

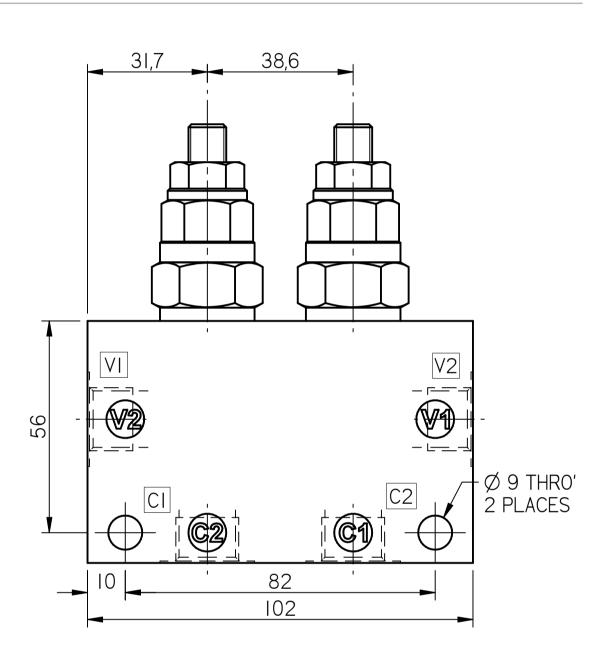
Aluminium 3/8" Z10045

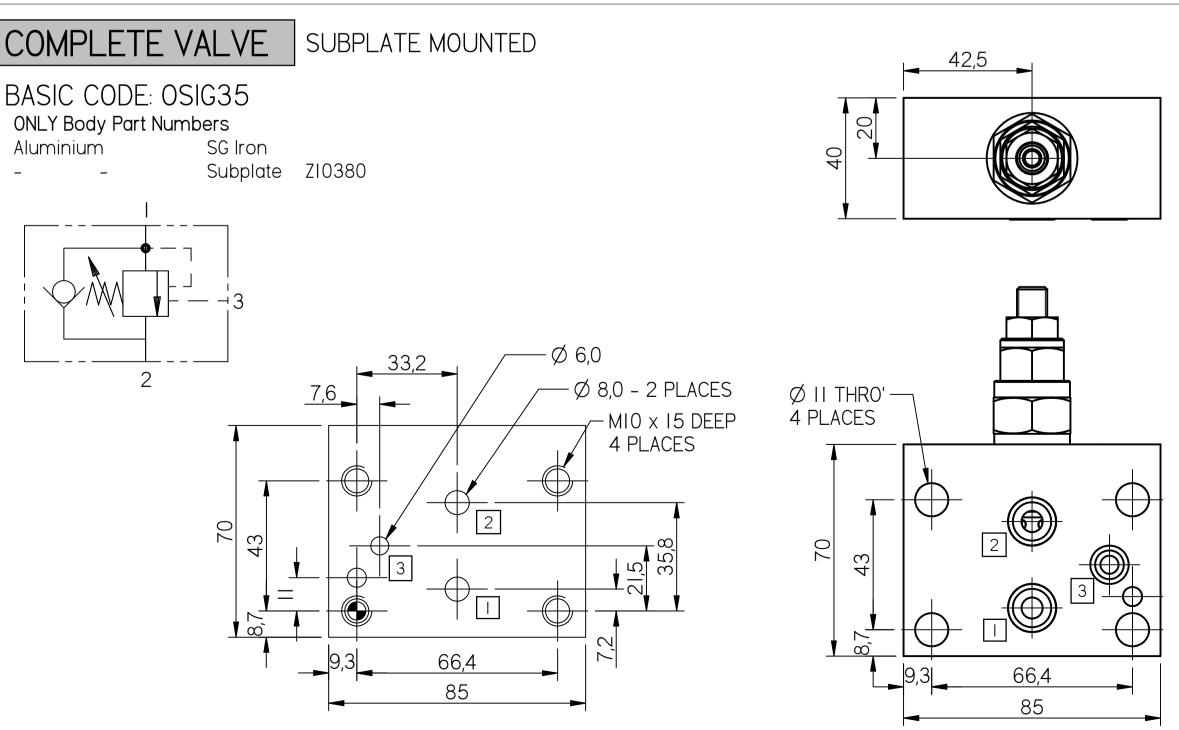
SG Iron 3/8"

ZI0045S

C2 CI







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

1



TO ORDER

