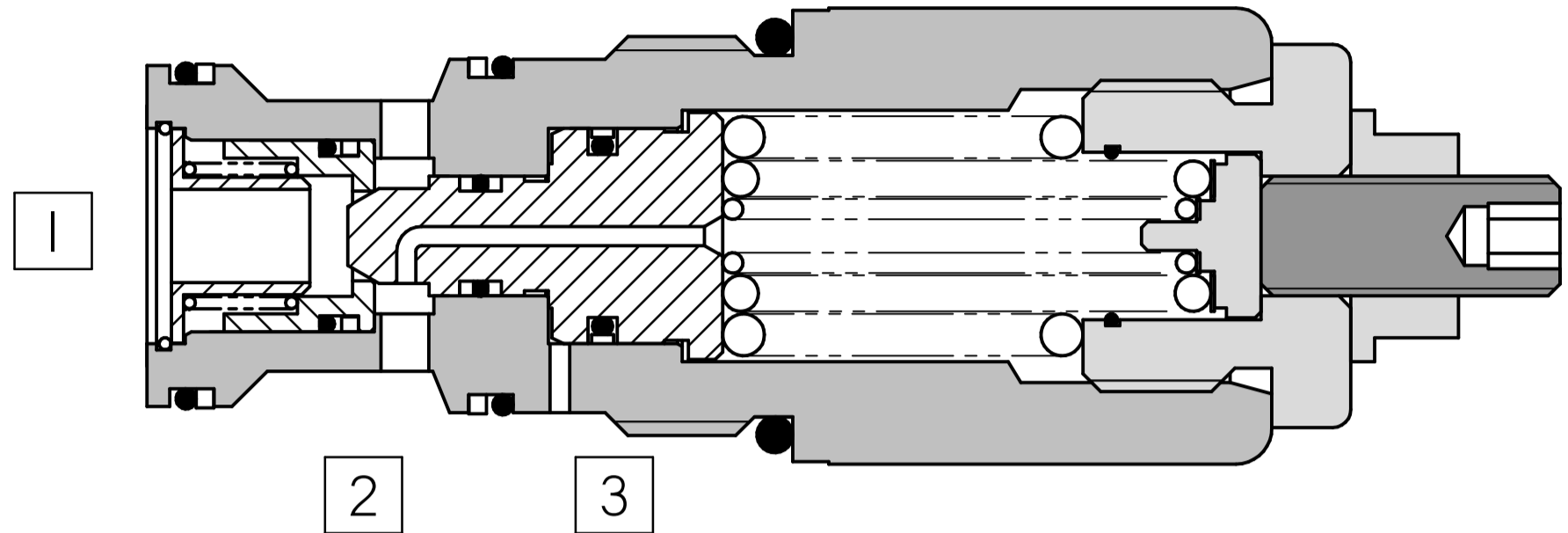
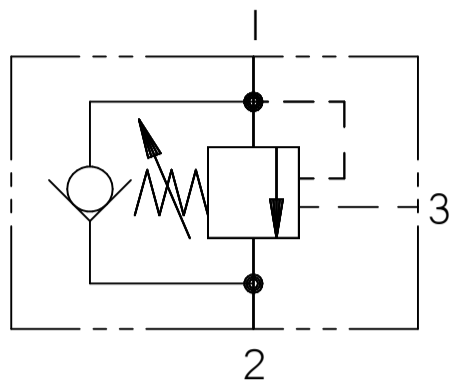
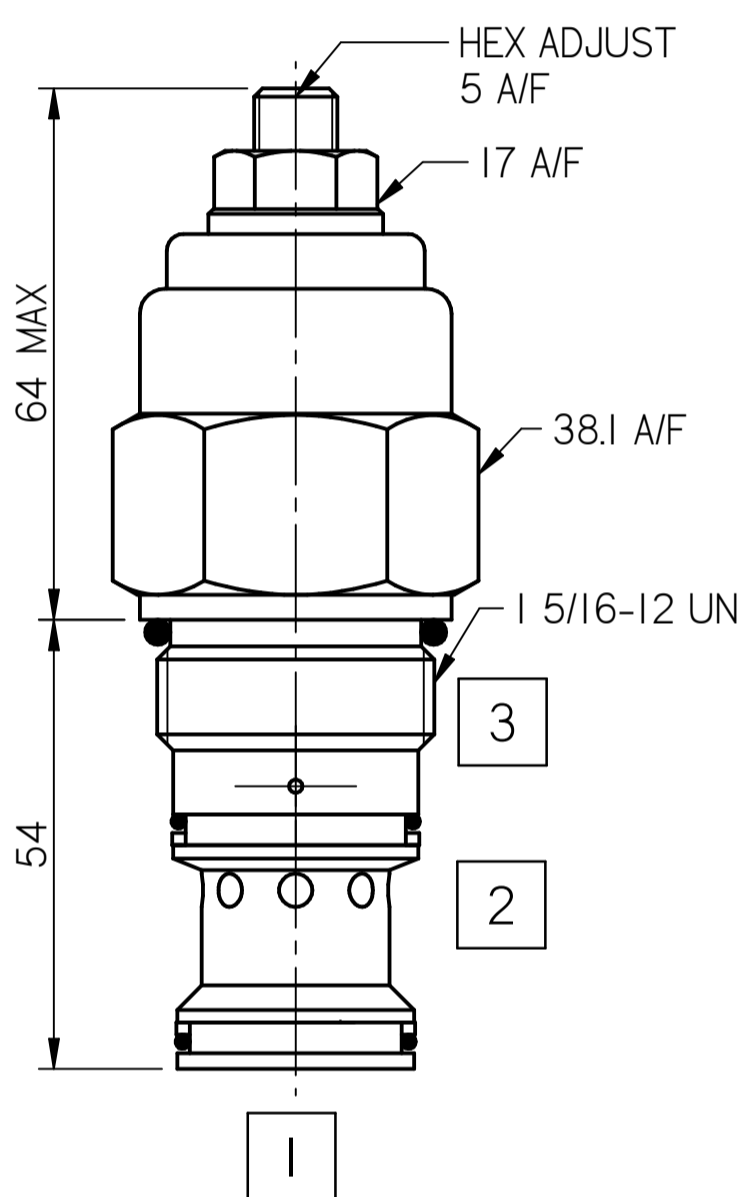


FLUID POWER SYMBOL



4



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:

$$\text{Pilot Pressure} = \frac{\text{Relief Setting} - \text{Load Pressure}}{\text{Pilot Ratio}}$$

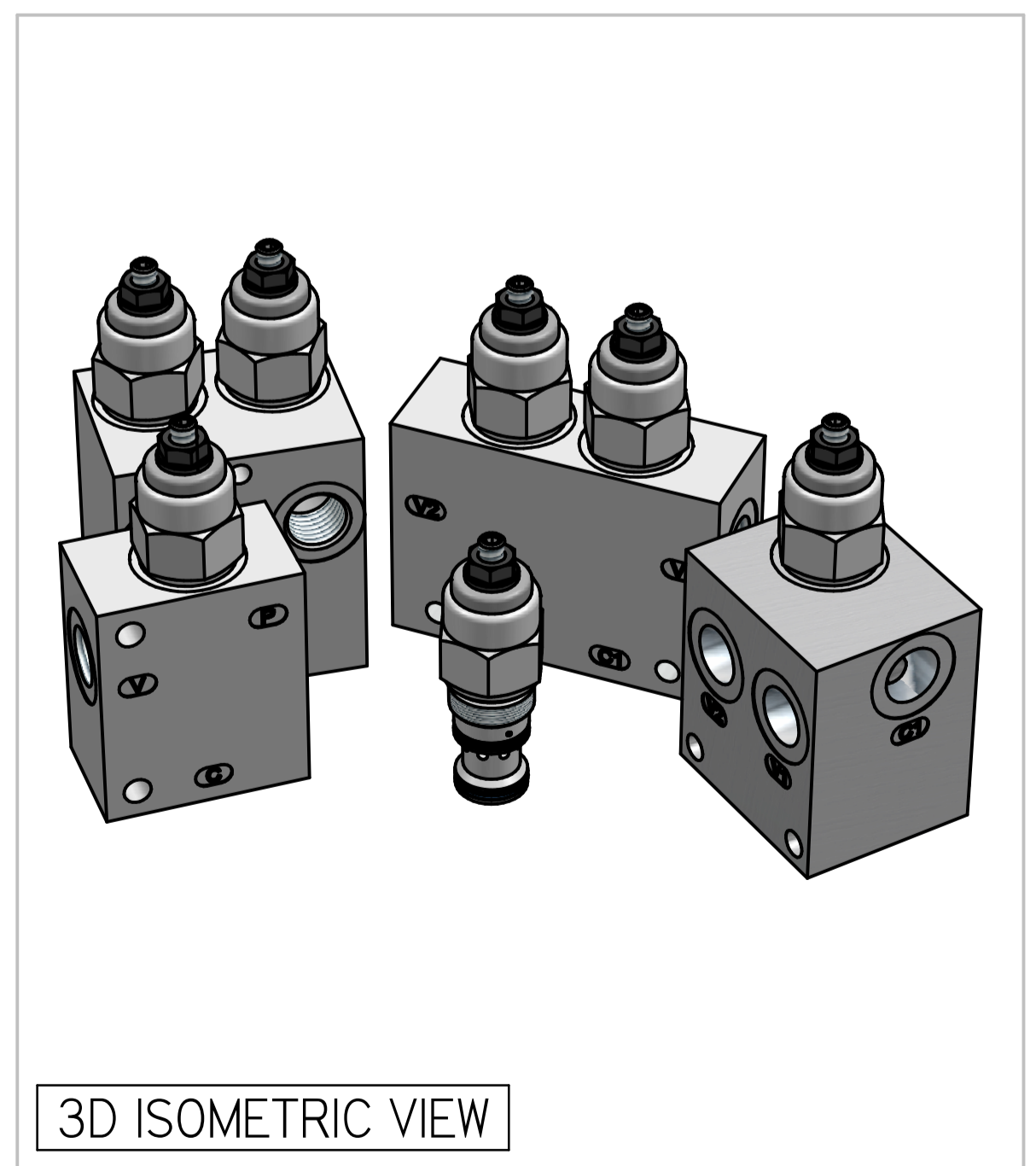
Pilot Ratio

4:1 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

Rated Flow	125 lpm
Max Setting	Load Induced Pressure : 270 bar Relief Setting : 350 bar
Cartridge Material	Working parts : Hardened, ground steel External surfaces : Zinc plated
Weight (Cartridge only)	OSII25: 0.590 kg
Cavity Number	TH877 (Refer Cavities Section)
Manifold Material	Aluminium (upto 250 bar) Add Suffix '729' for SG Iron (350 bar)
Torque into Cavity	100 Nm
Mounting	Line
Seal Kit Number	SKOSII25 (Nitrile) SKOSII25 V (Viton®)
Filtration Level	BS5540/4 Class I8/I3 (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

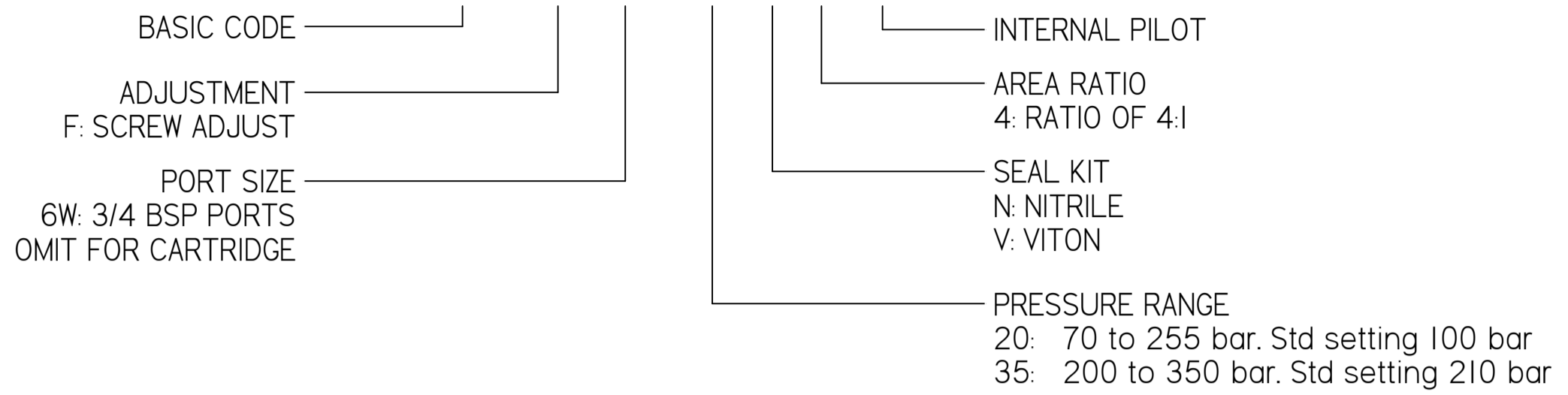


3D ISOMETRIC VIEW

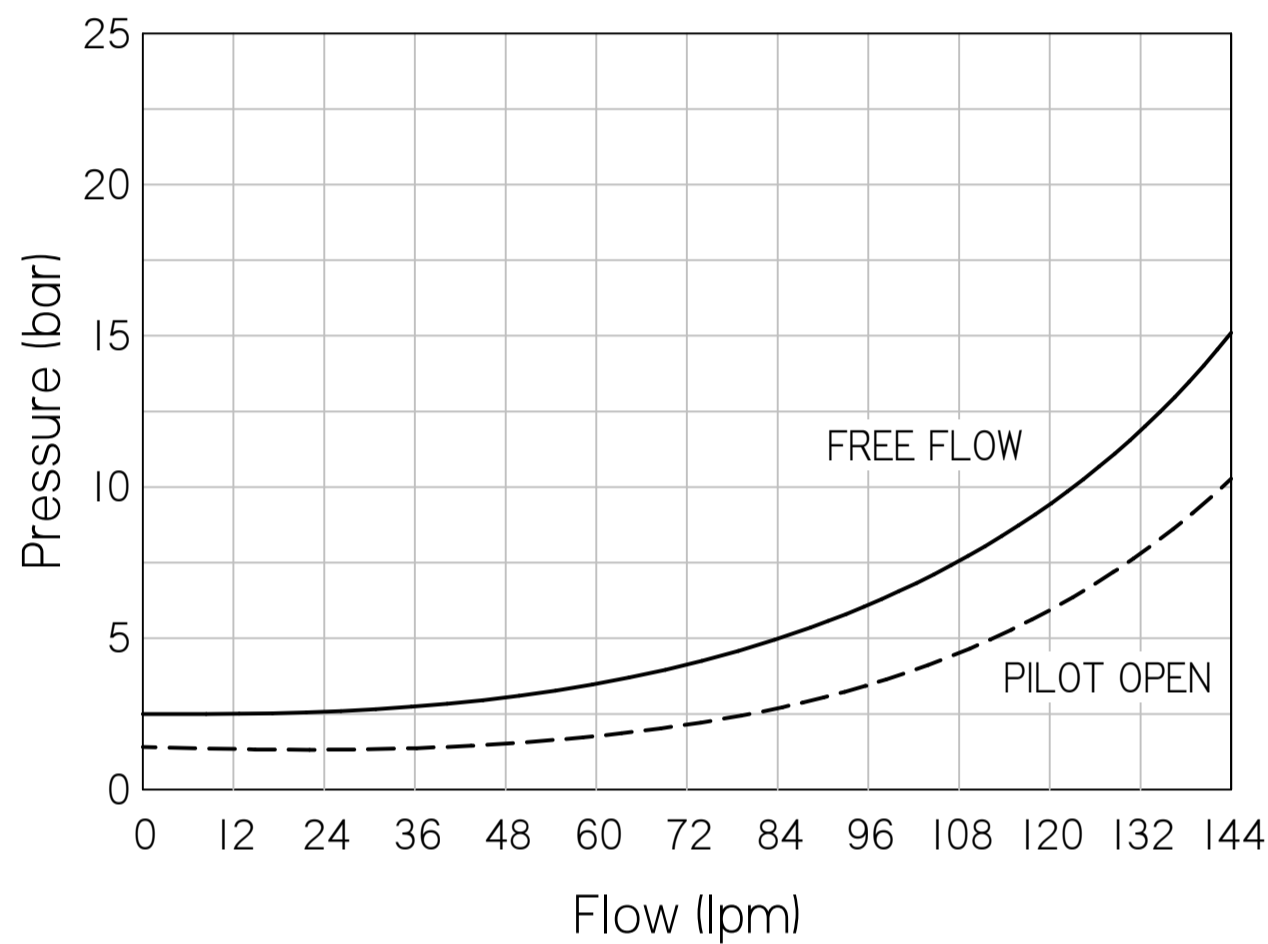
Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

TO ORDER

OSII25 F 6W 35 N 4 INI



PRESSURE CHARACTERISTICS



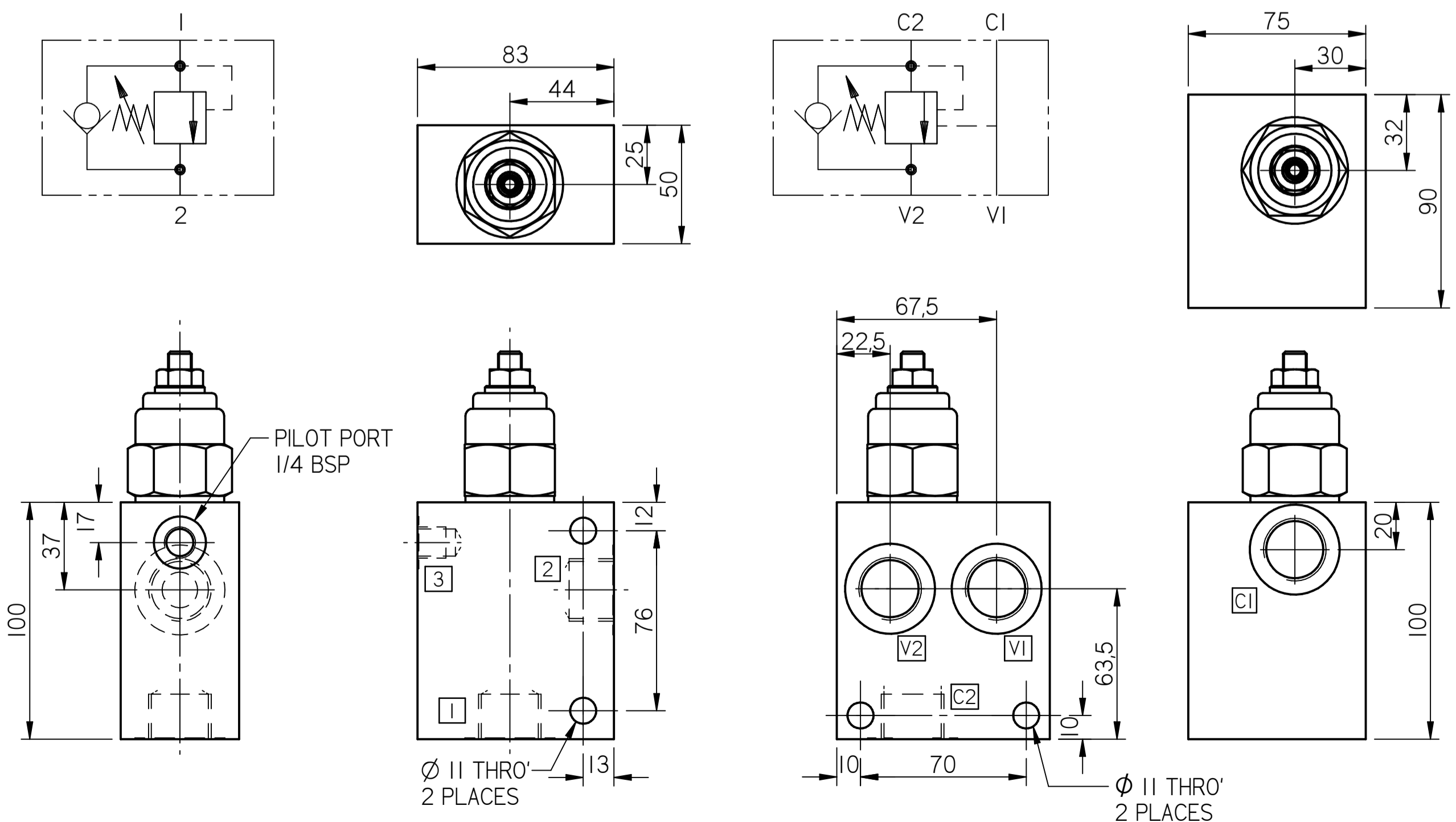
4

COMPLETE VALVE 3/4" BSP PORTS

BASIC CODE: OSII25 6W
ONLY Body Part Numbers (BSP)
Aluminium 3/4" Z10070 SG Iron 3/4" Z10070S

COMPLETE VALVE 3/4" BSP PORTS

BASIC CODE: OSII25 6W INI (INTERNAL PILOT)
ONLY Body Part Numbers (BSP)
Aluminium 3/4" Z10148 SG Iron 3/4" Z10148S



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

TO ORDER

OSI2 I25 F 6W 35 N 4

BASIC CODE
 OSI2 I25: DUAL OVERCENTRE VALVE
 OSI2 I24: DUAL OVERCENTRE VALVE

ADJUSTMENT
 F: SCREW ADJUST

PORT SIZE
 6W: 3/4 BSP PORTS

AREA RATIO
 4: RATIO OF 4:1

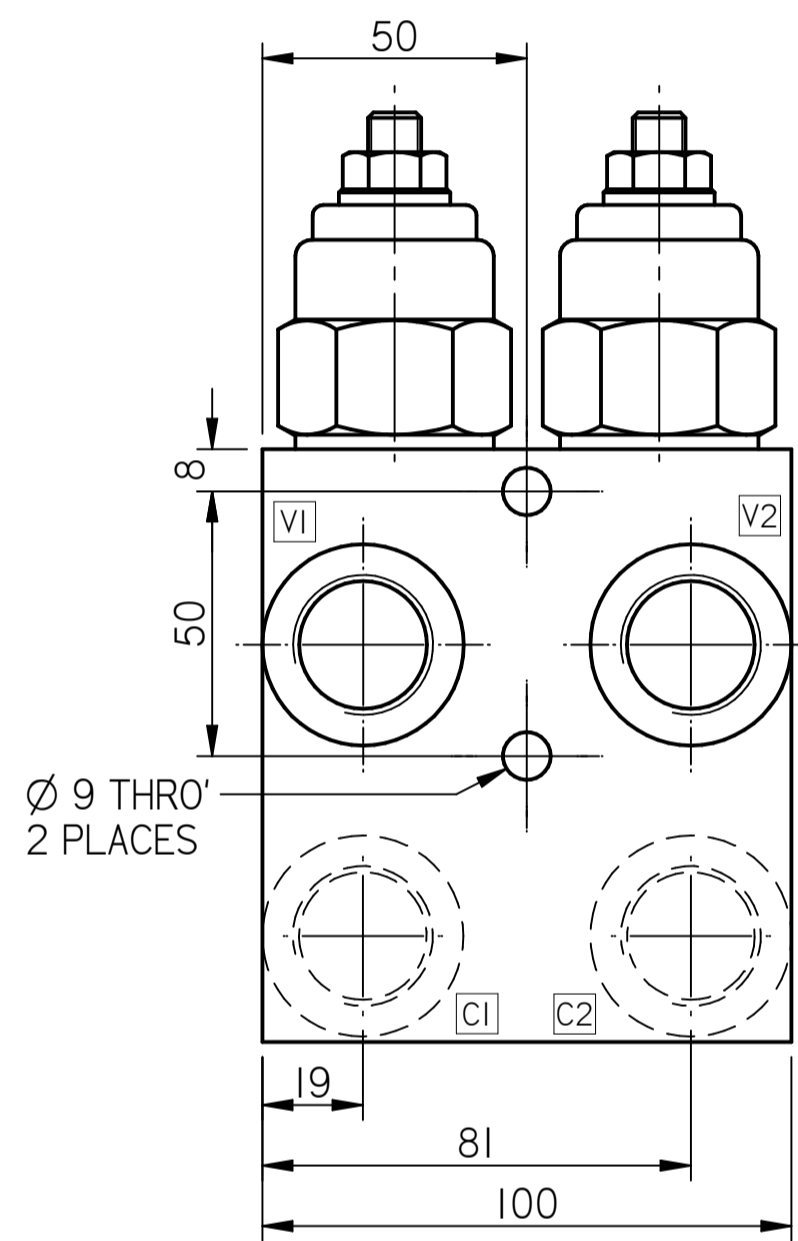
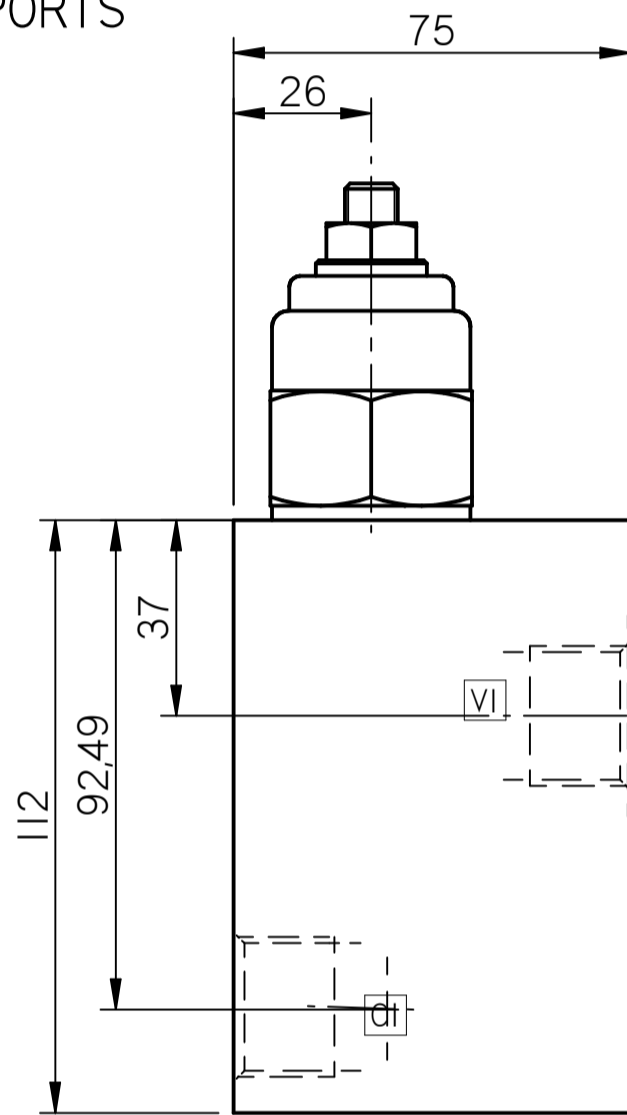
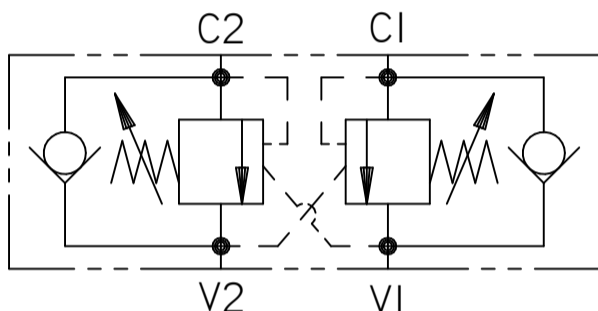
SEAL KIT
 N: NITRILE
 V: VITON

PRESSURE RANGE
 20: 70 to 255 bar. Std setting 100 bar
 35: 200 to 350 bar. Std setting 210 bar

COMPLETE VALVE 3/4" BSP PORTS

BASIC CODE: OSI2 I24 6W

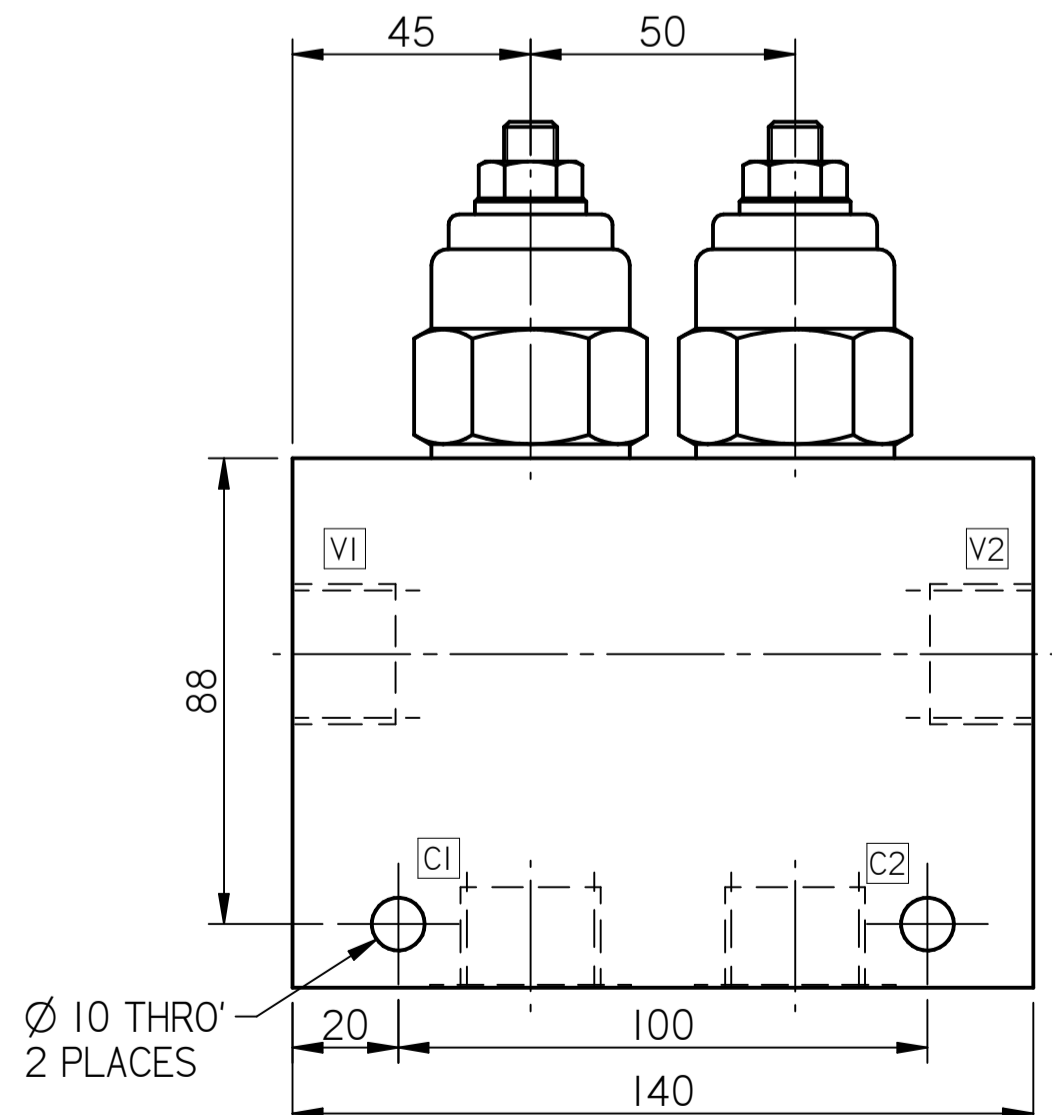
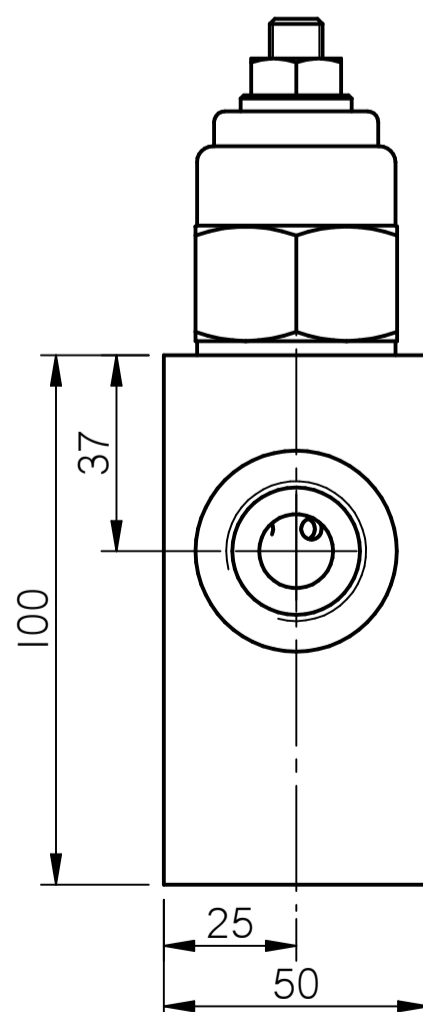
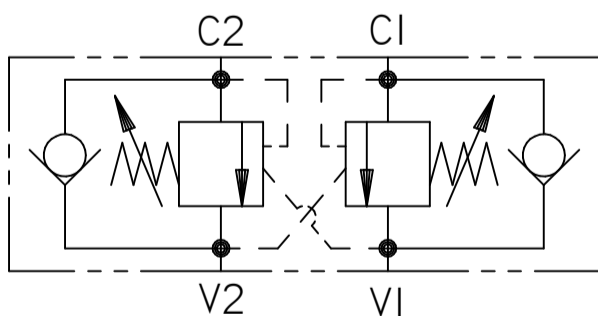
ONLY Body Part Numbers (BSP)
 Aluminium SG Iron
 3/4" Z10071 3/4" Z10071S



COMPLETE VALVE 3/4" BSP PORTS

BASIC CODE: OSI2 I25 6W

ONLY Body Part Numbers (BSP)
 Aluminium SG Iron
 3/4" Z10052 3/4" Z10052S



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

NOTES