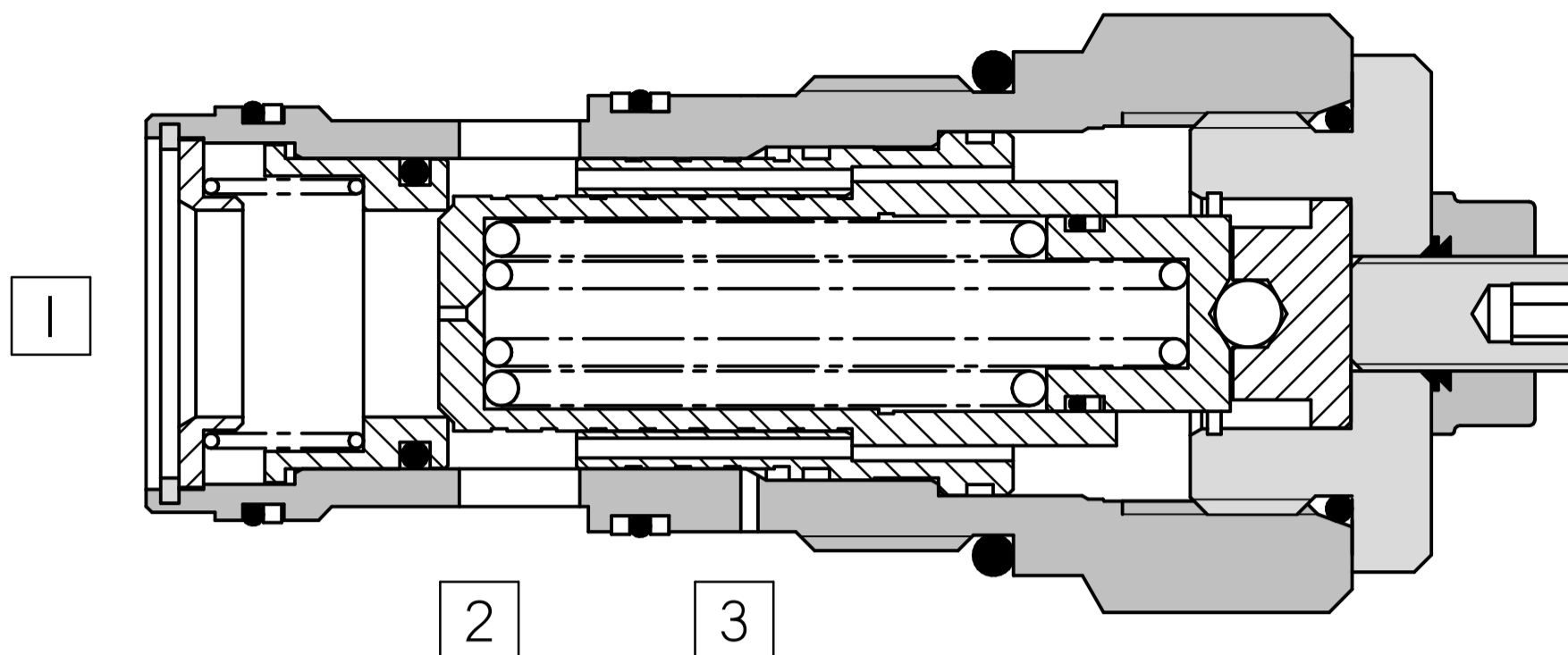
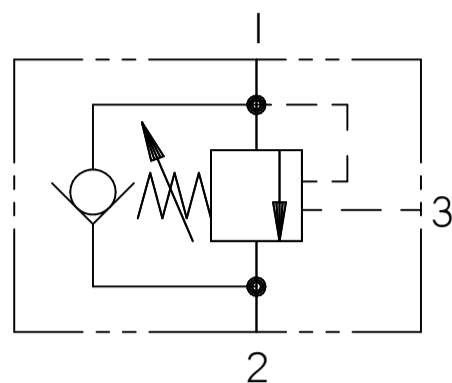
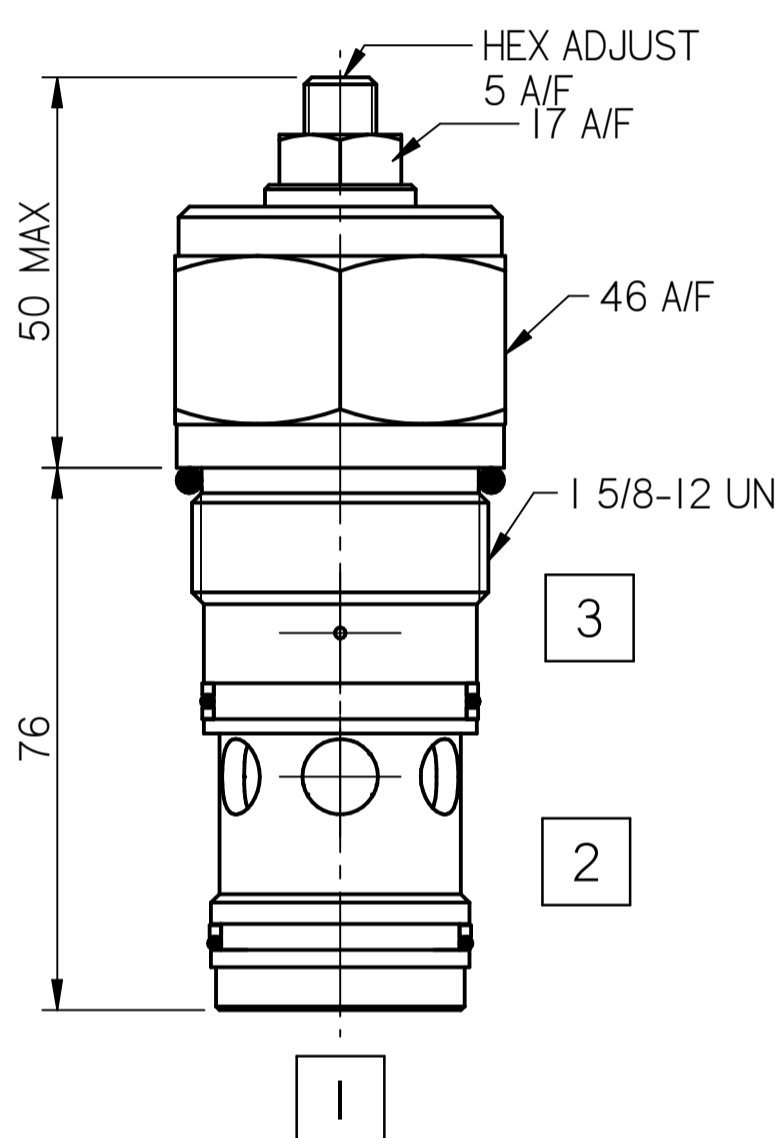


FLUID POWER SYMBOL



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:

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

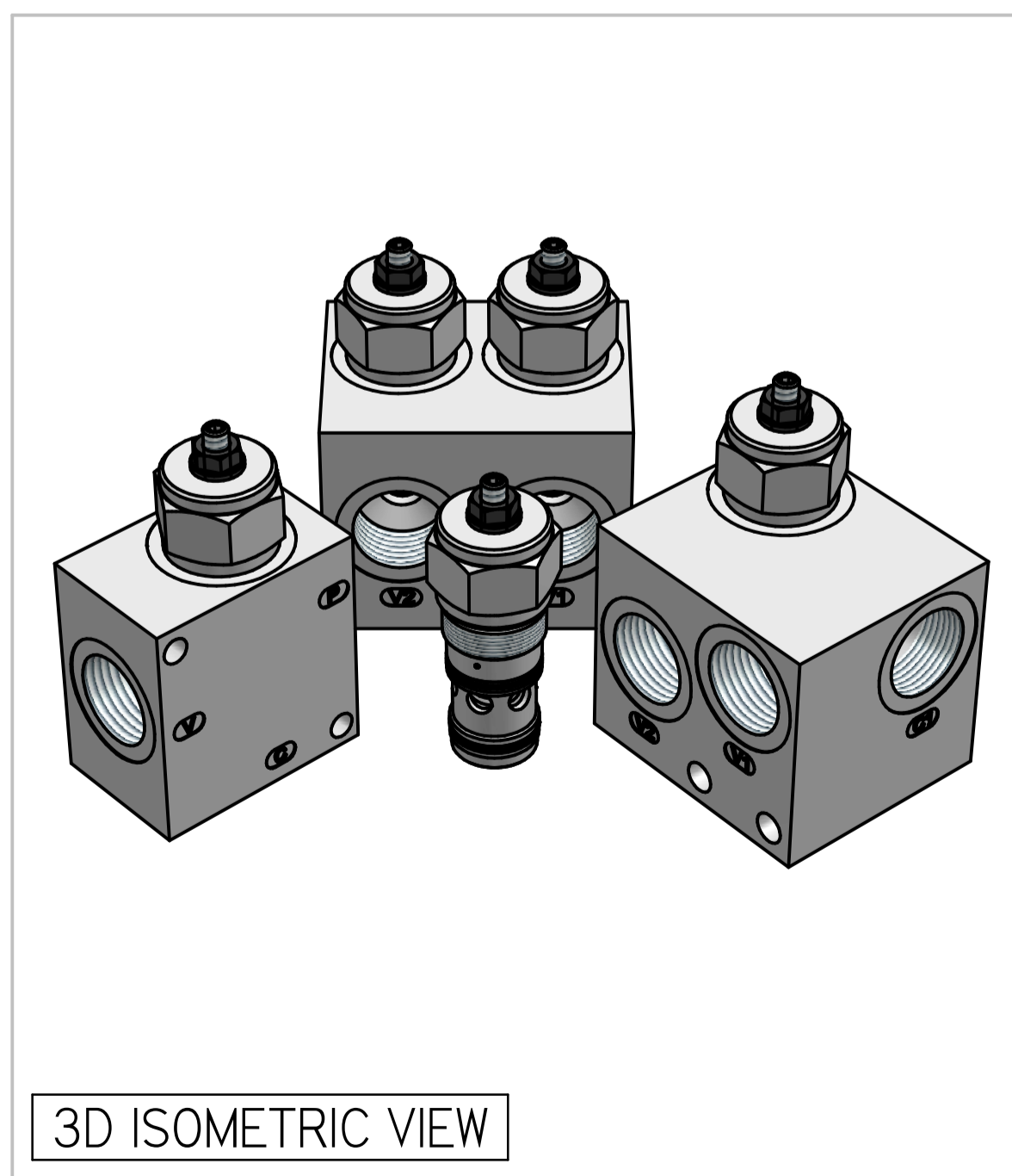
Pilot Ratio

3:1 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

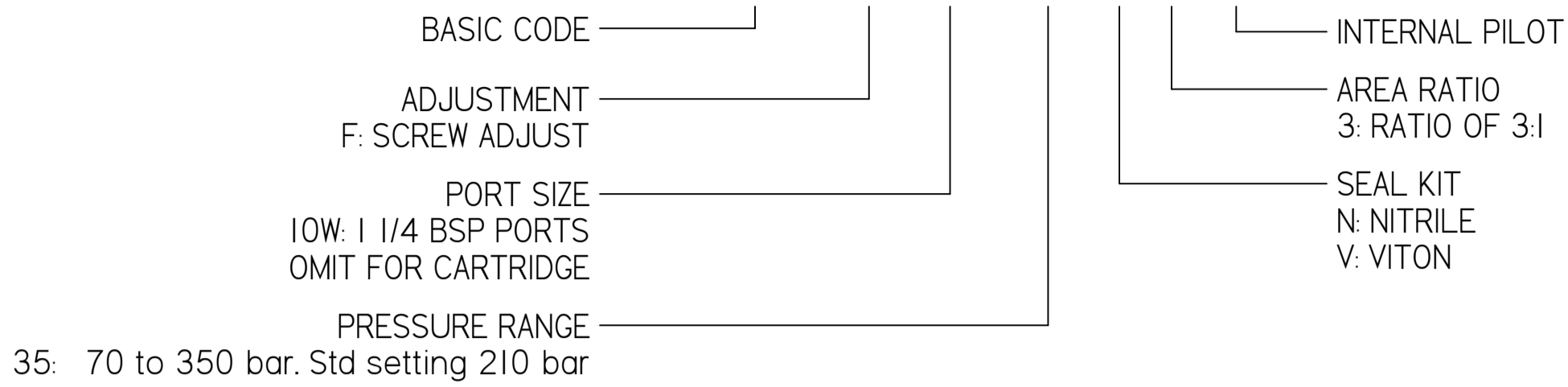
Rated Flow	350 lpm
Max Setting	Load Induced Pressure : 270 bar Relief Setting : 350 bar
Cartridge Material	Working parts : Hardened, ground steel External surfaces : Zinc plated
Weight (Cartridge only)	OSI350: 0.910 kg
Cavity Number	TH6935 (Refer Cavities Section)
Manifold Material	Aluminium (upto 250 bar) Add Suffix '729' for SG Iron (350 bar)
Torque into Cavity	150 Nm
Mounting	Line
Seal Kit Number	SKOSI350 (Nitrile) SKOSI350 V (Viton®)
Filtration Level	BS5540/4 Class I8/I3 (25µ nominal)
Operating Temp	-20°C to +90°C (Standard Seals)
Leakage	Less than 4 millilitres/min
Viscosity Range	5 to 500 cSt



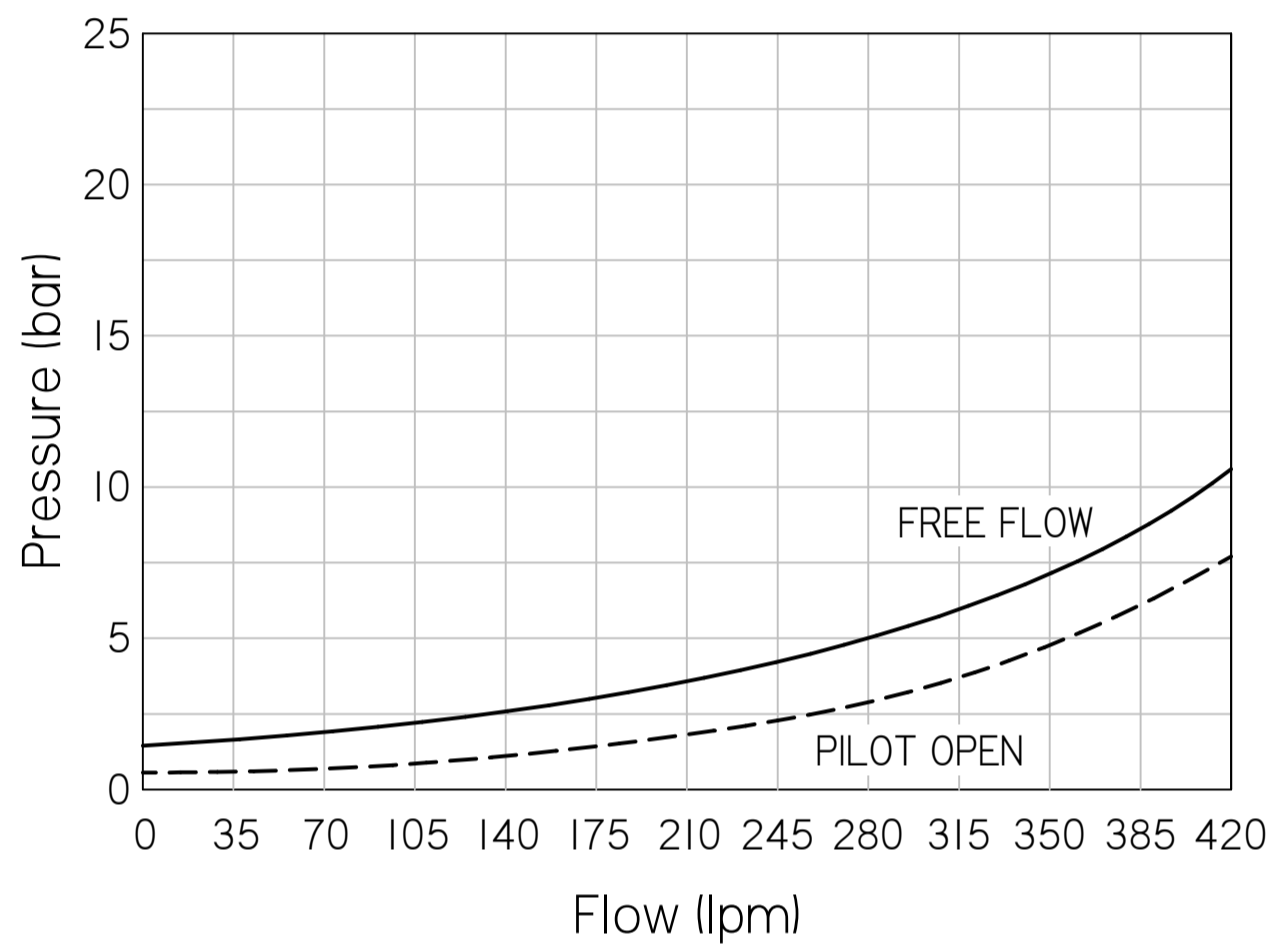
Where measurements are critical request certified drawings. We reserve the right to change specifications without notice.

TO ORDER

OSI350 F 10W 35 N 4 INI



PRESSURE CHARACTERISTICS

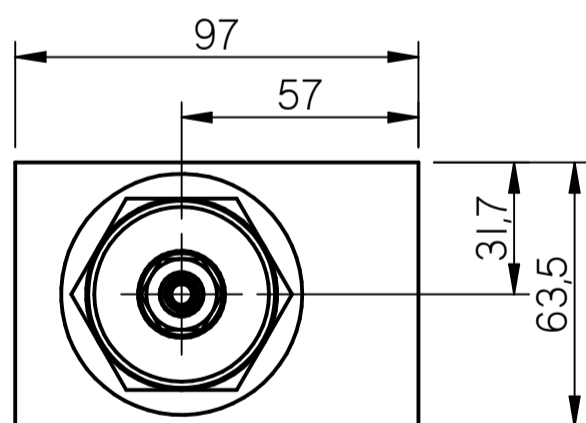
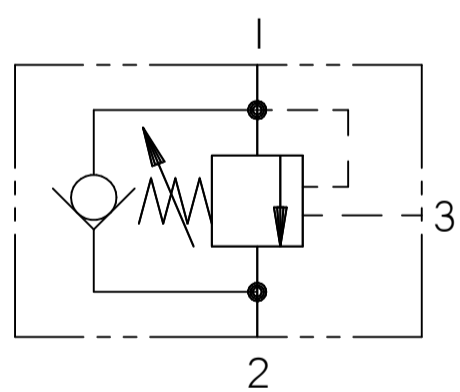


COMPLETE VALVE 1-1/4" BSP PORTS

BASIC CODE: OSI350 10W

ONLY Body Part Numbers (BSP)

Aluminium SG Iron
1.1/4" Z10349 1.1/4" Z10349S

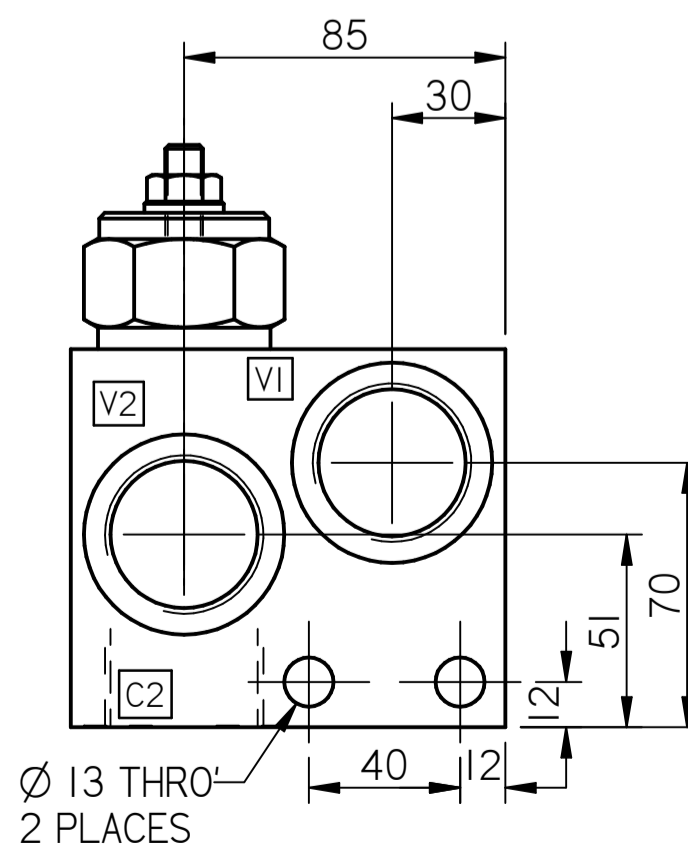
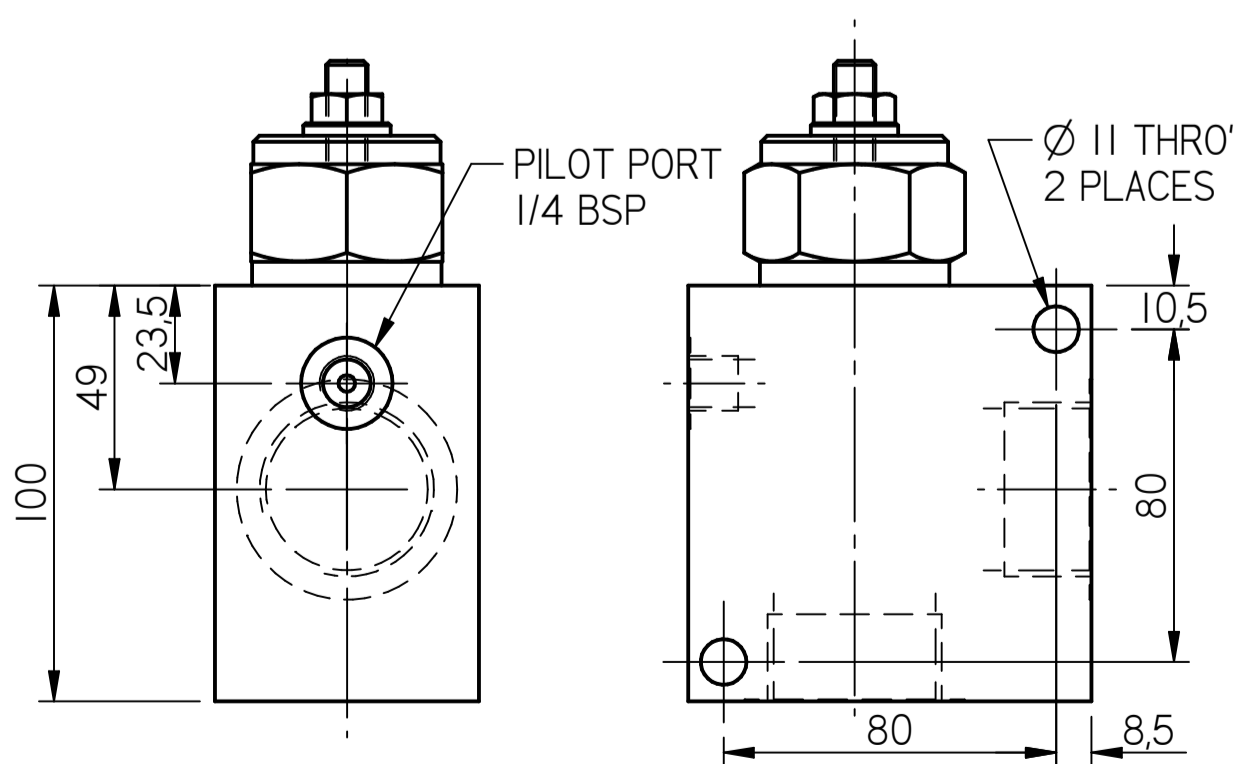
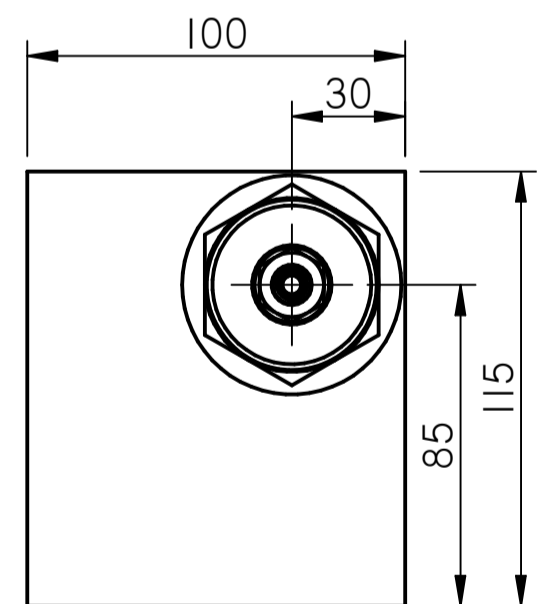
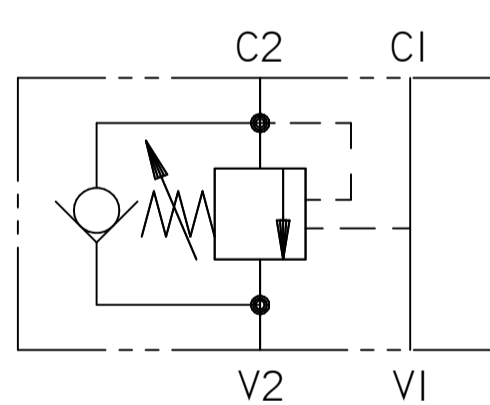


COMPLETE VALVE 1-1/4" BSP PORTS

BASIC CODE: OSI350 10W INI (INTERNAL PILOT)

ONLY Body Part Numbers (BSP)

Aluminium SG Iron
1.1/4" Z10240 1.1/4" Z10240S



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

TO ORDER

OSI2 350 F 10W 35 N 3

BASIC CODE
OSI2 350: DUAL OVERCENTRE VALVE

ADJUSTMENT
F: SCREW ADJUST

PORT SIZE
10W: 1 1/4 BSP PORTS

AREA RATIO
3: RATIO OF 3:1

SEAL KIT
N: NITRILE
V: VITON

PRESSURE RANGE
35: 70 to 350 bar. Std setting 210 bar

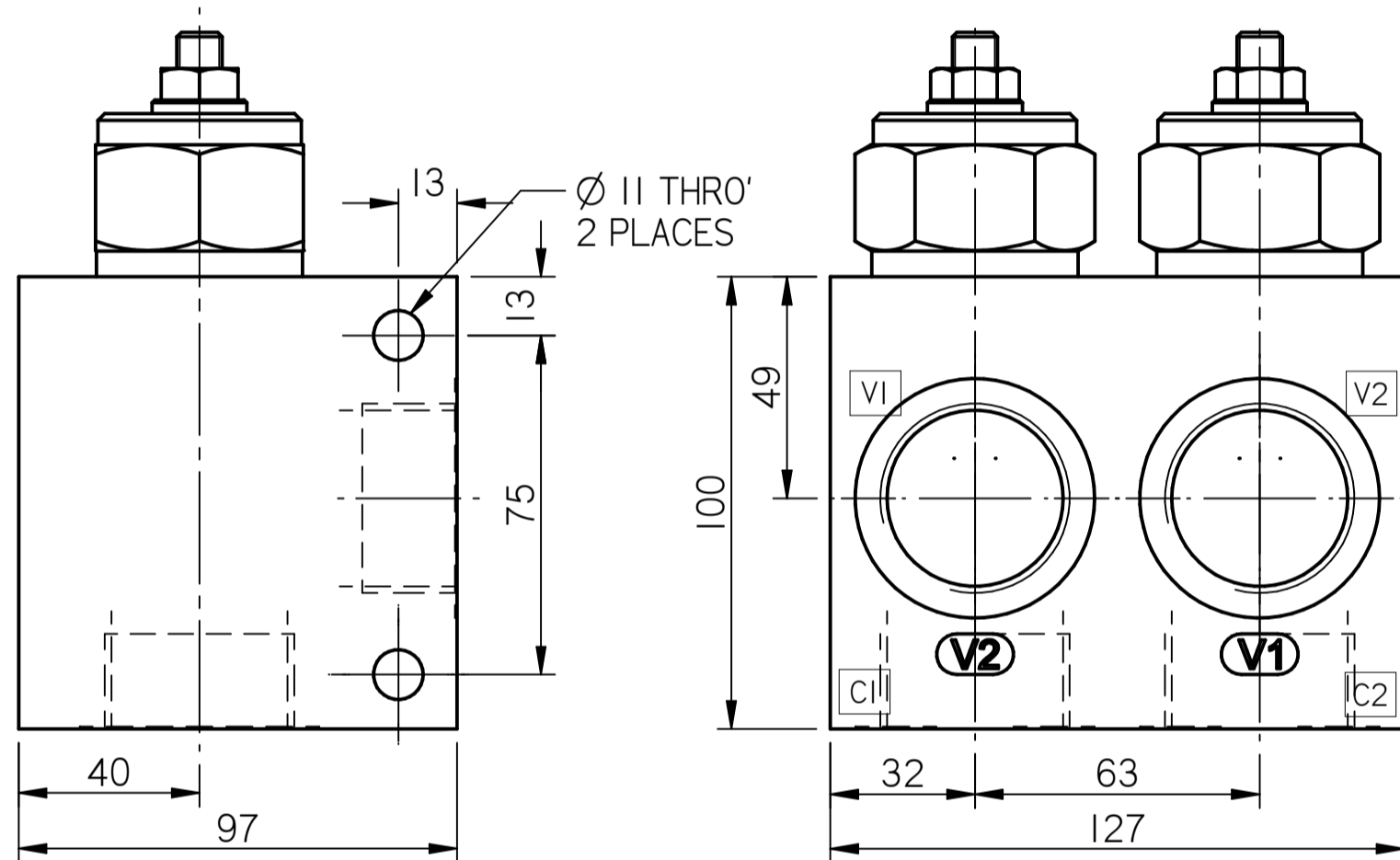
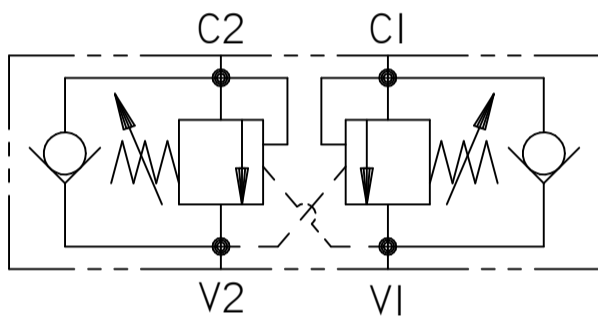
4

COMPLETE VALVE 1-1/4" BSP PORTS

BASIC CODE: OSI2 350 10W

ONLY Body Part Numbers (BSP)

Aluminium	SG Iron
1.1/4" Z1016I	1.1/4" Z1016IS



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

NOTES