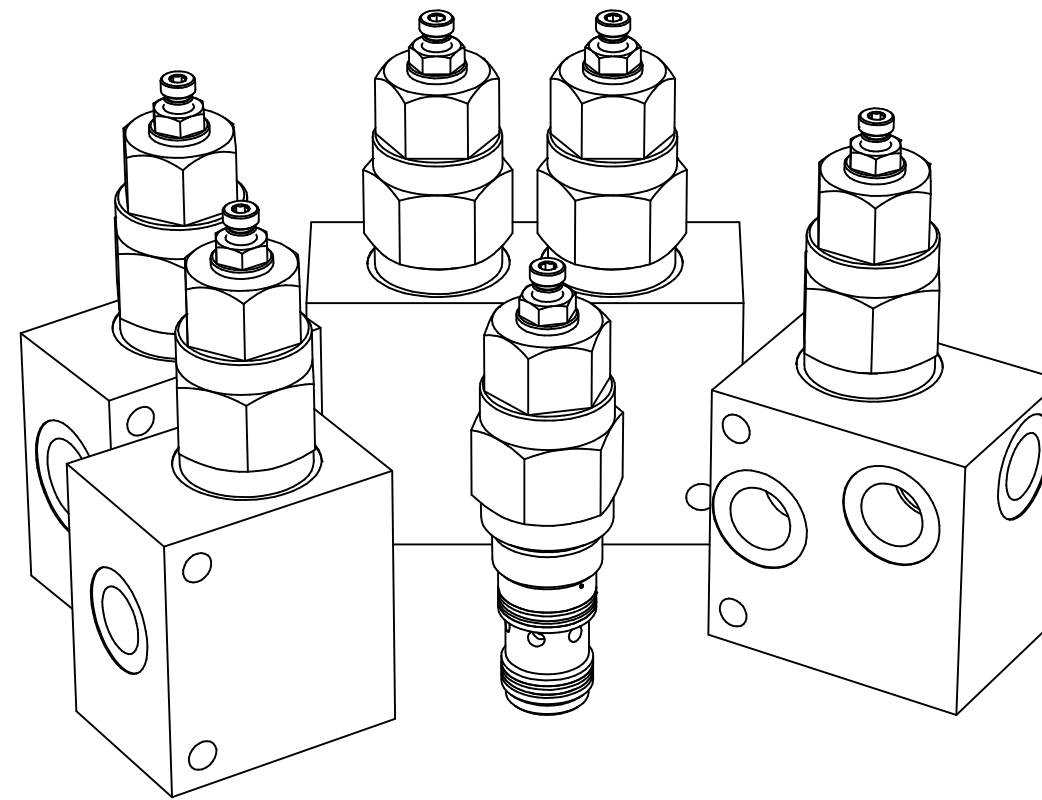
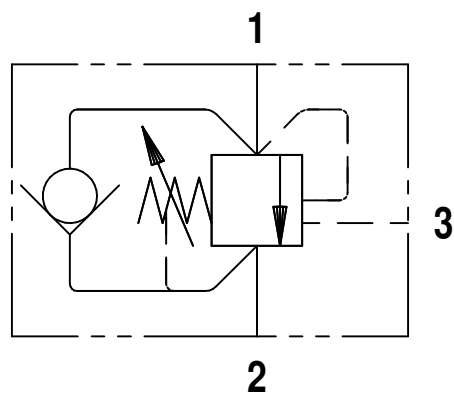


FLUID POWER SYMBOL



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

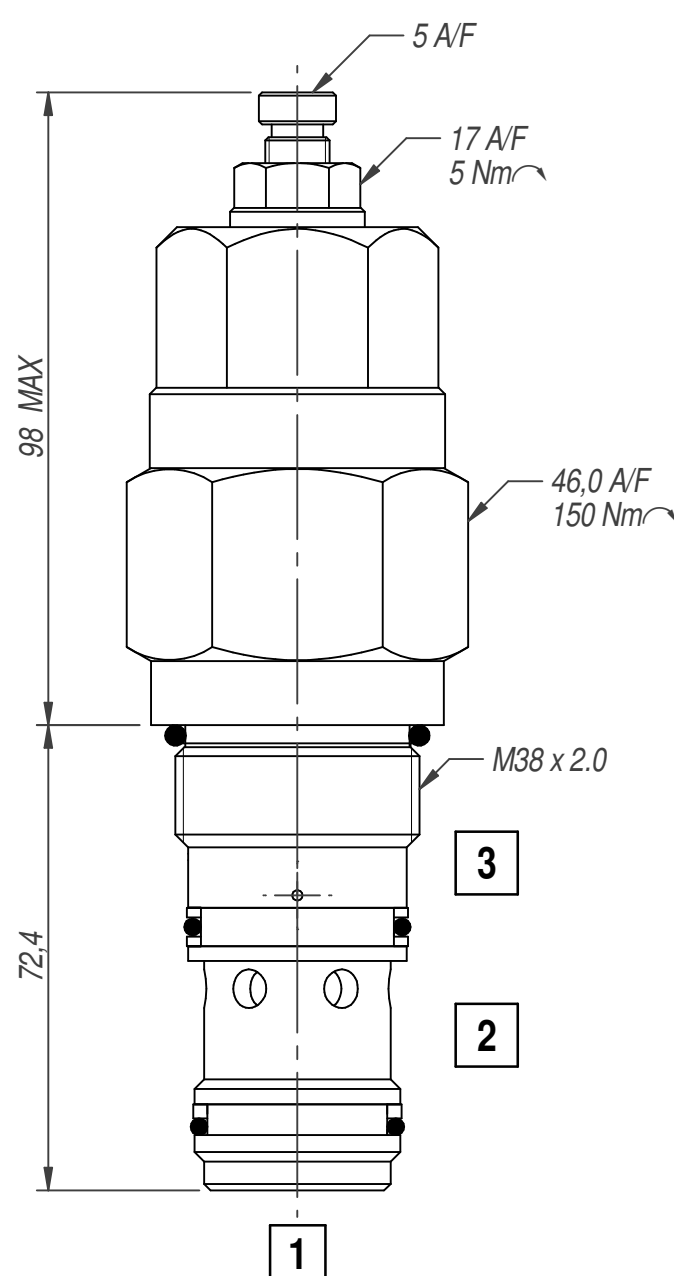
The check section allows free flow into the actuator (from 2 to 1) then holds and locks the load against movement (from 1 to 2). The pilot pressure in the pilot port (3) will give a controlled movement to piston when the pressure is applied. The pressure required to open the valve and allow movement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

FEATURES

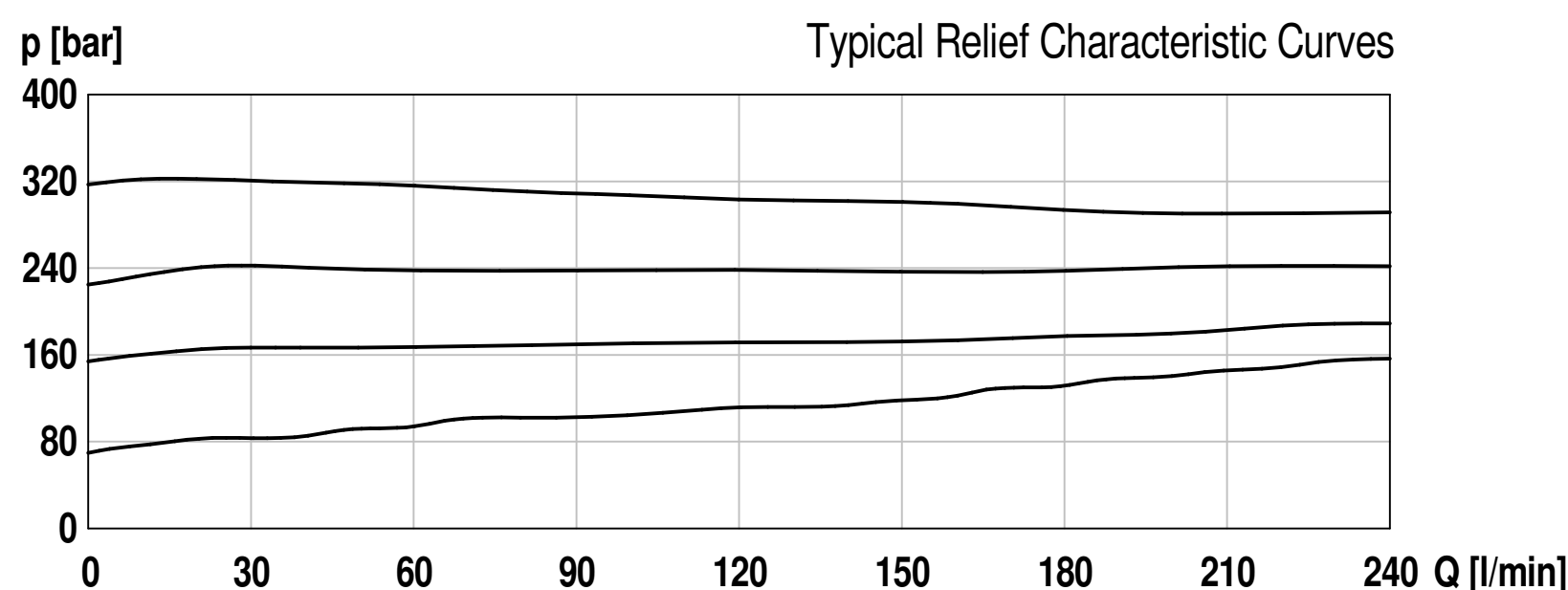
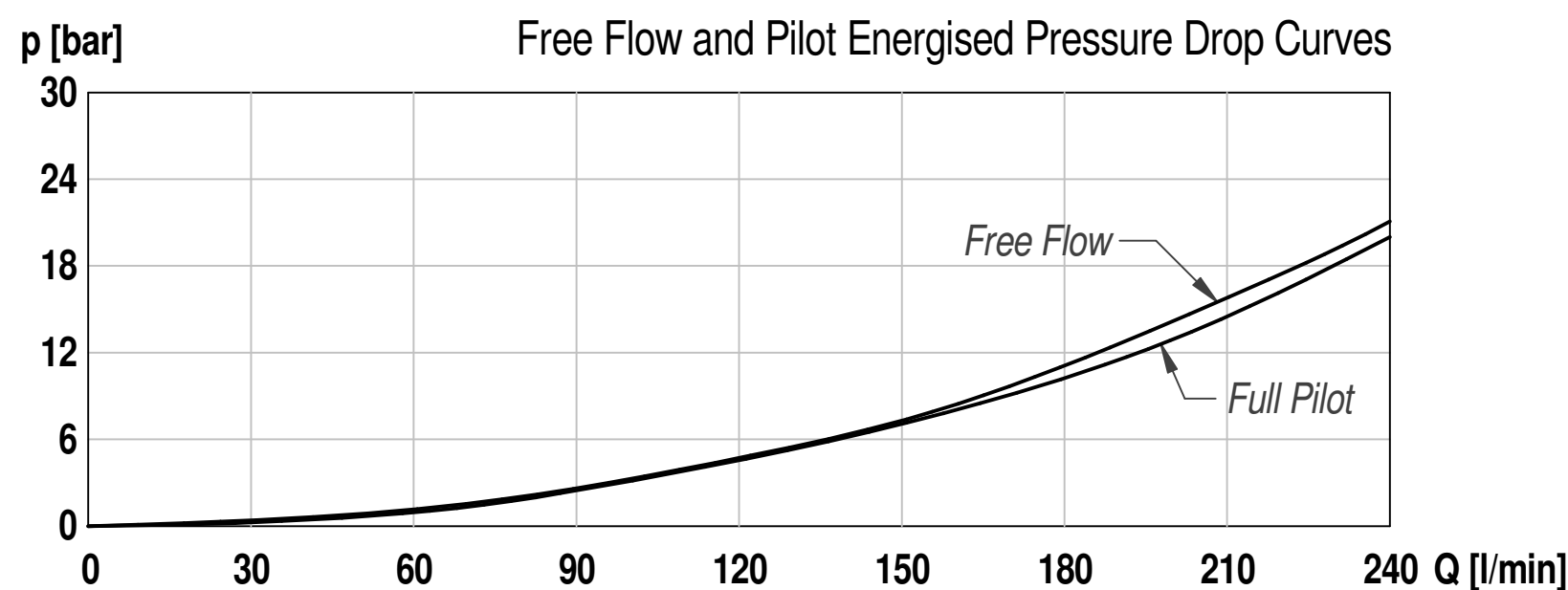
Matched ground and hardened working parts give a long and trouble-free life. Consistent stable operation providing low pressure over ride even with increasing flows. Cartridge type construction gives maximum flexibility in mounting.

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

DIMENSIONS



CHARACTERISTICS. Figures Based on: Oil Temp = 40°C, Viscosity = 40 cSt



General Specifications

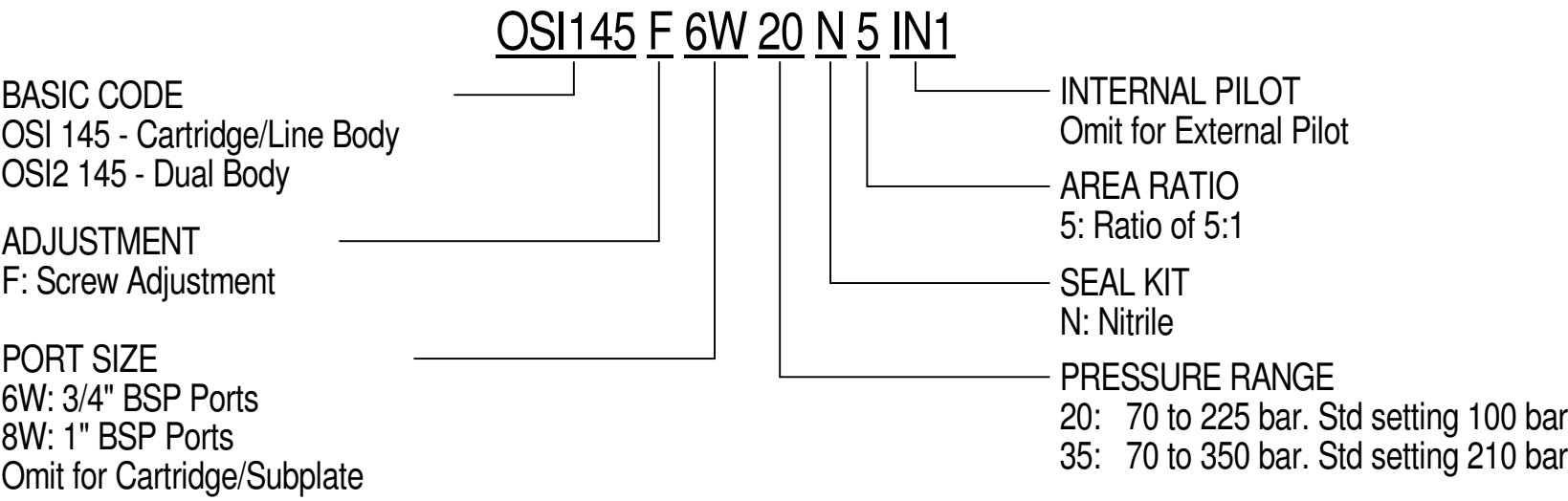
Description	direct acting overcentre valve
Construction	Screw-in Cartridge Construction for Cavity
Mounting	M38 x 2.0 screw thread for cartridge Threaded ports for housings.
Installation Position	any
Tightening Torque	150 Nm
Ambient Temp.	-20°C to +50°C
Cartridge Material	Working parts: Hardened, ground steel External surfaces: Zinc plated
Manifold Material	Aluminium or SG Iron
Cavity Number	TH12336 (Refer Cavities Section)
Weight	OSI 145 Cartridge: 0.20 kg OSI 145 * 6W **: 0.48 kg OSI 145 * 8W ** IN1: 0.53 kg OSI2 145 * 6W **: 0.86 kg

Hydraulic Specifications

Hydraulic Fluid	Mineral oils. Contact sales office for other fluids.
Max. Pressure	350 bar
Rated Flow	145 lpm
Max. Contamination Level	BS5540/4 Class 18/16/13 (25µ nominal)
Viscosity Range	5 to 500 cSt
Leakage Flow	Less than 0.3 ml/min (5 dpm)
Hydraulic Fluid Temp.	-20°C to +90°C (Standard Seals)
Mounting	Line/Subplate
Peak Pressure	400 bar
Max. Flow	240 lpm
Seal Kit Number	SKOSI145 (Nitrile)

Overcentre Valve

ORDERING CODE

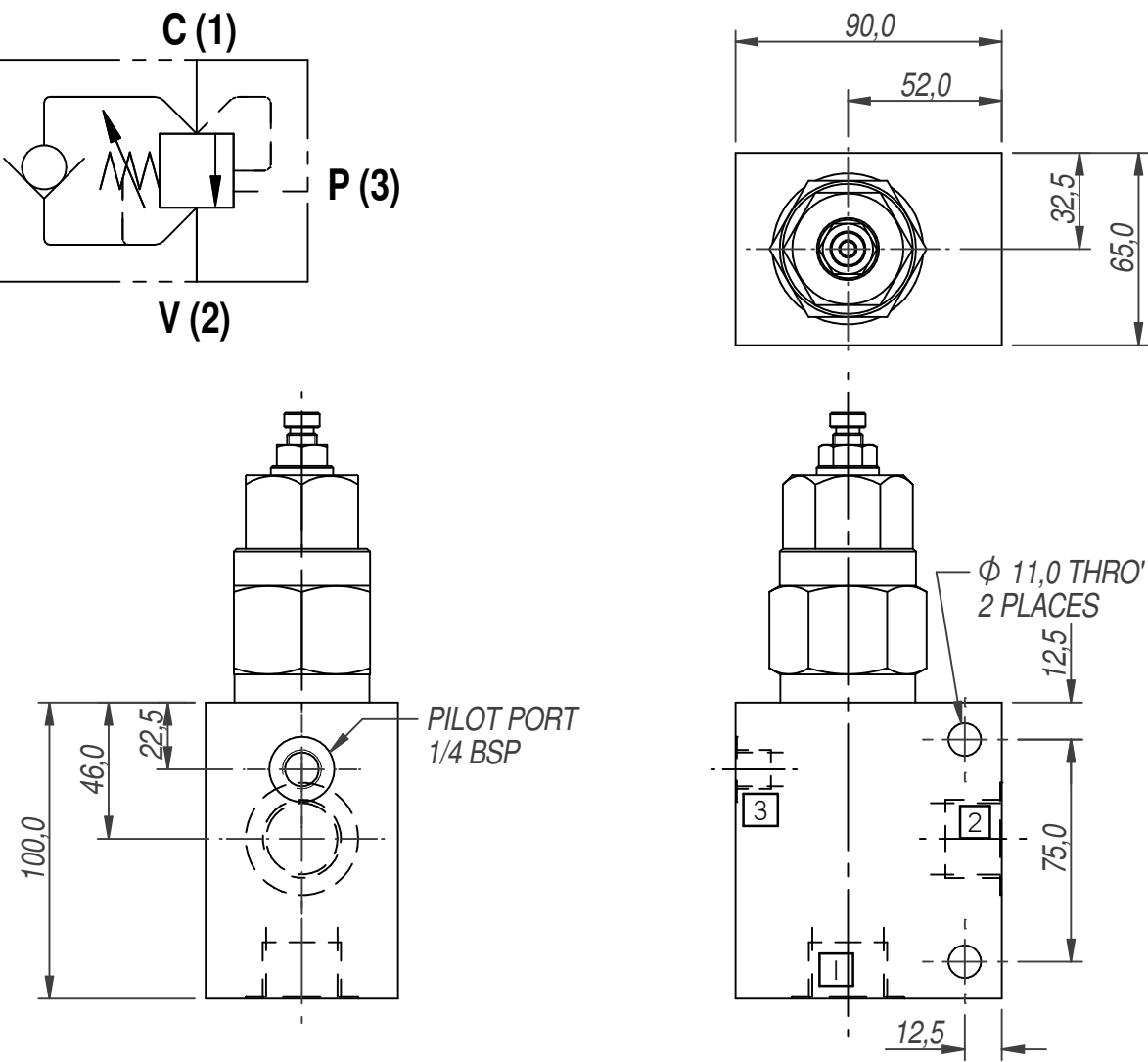


DIMENSIONS

BASIC CODE: OSI145 * 6W **

ONLY Body Part Numbers

Aluminium SG Iron
3/4" BSPP - Z10046 3/4" BSPP - Z10046S

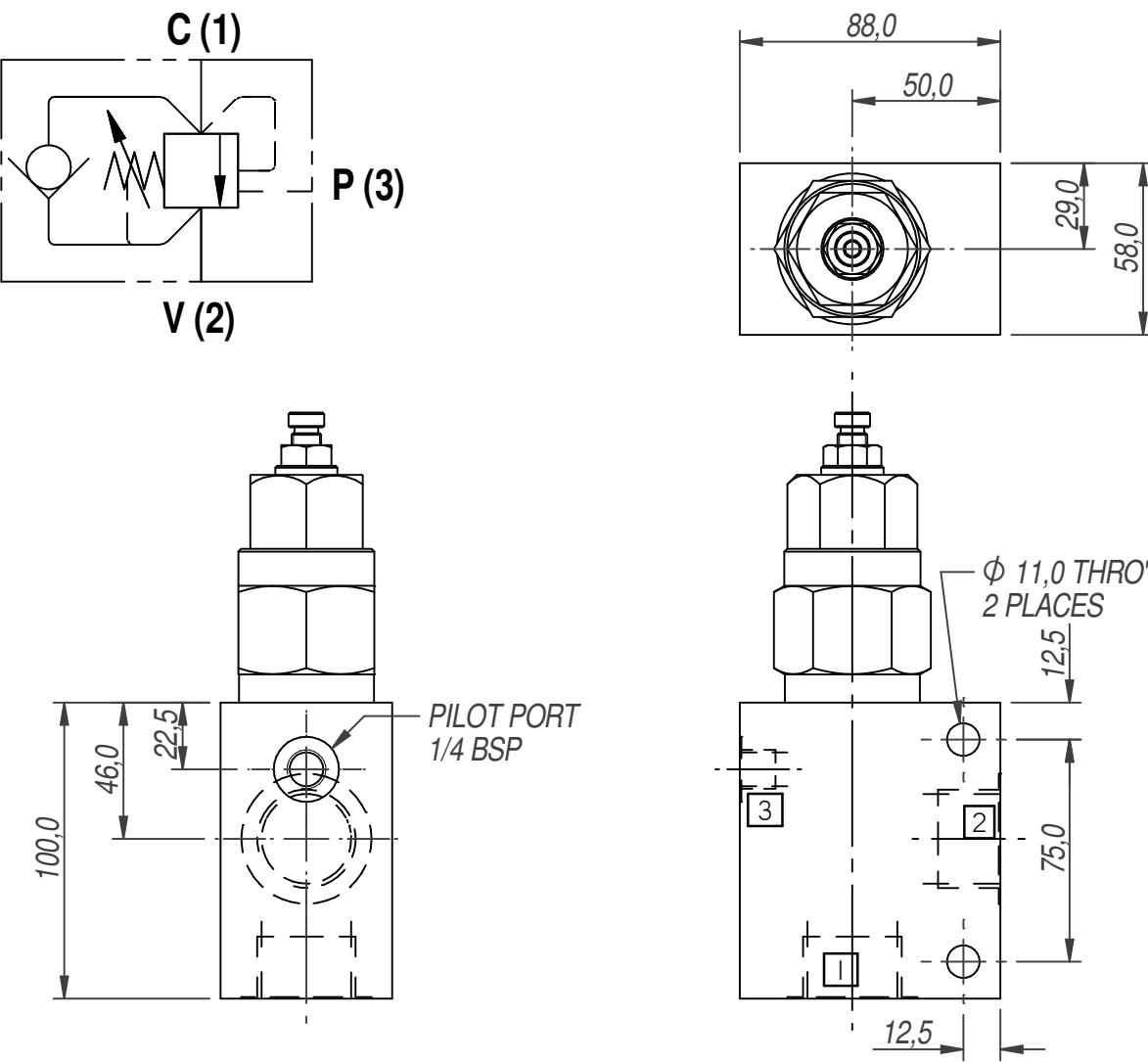


DIMENSIONS

BASIC CODE: OSI145 * 8W **

ONLY Body Part Numbers

Aluminium SG Iron
1" BSPP - Z10437 1" BSPP - Z10437S

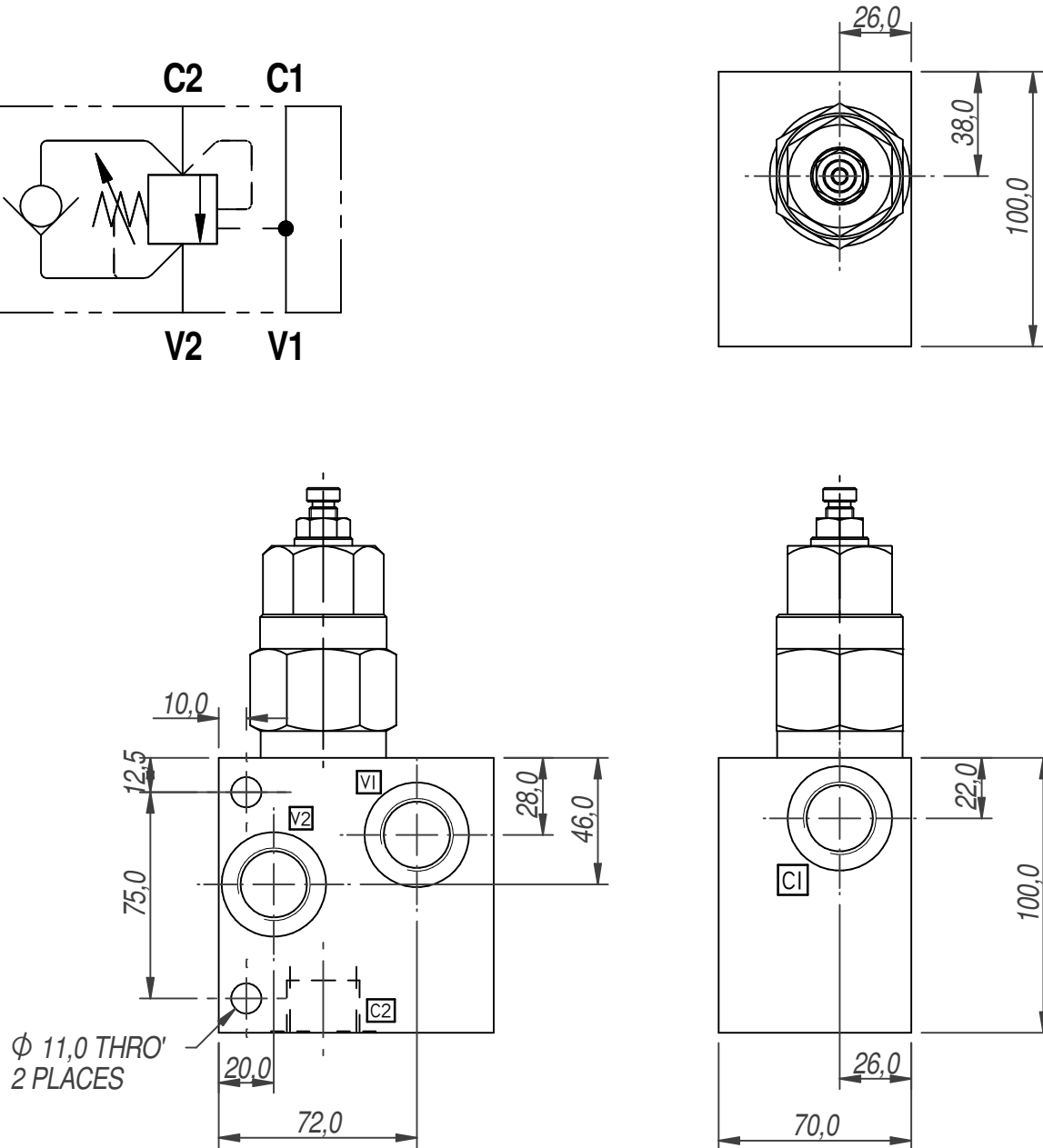


DIMENSIONS

BASIC CODE: OSI145 * 6W ** IN1 (Internal Pilot)

ONLY Body Part Numbers

Aluminium SG Iron
3/4" BSPP - Z10199 3/4" BSPP - Z10199S



DIMENSIONS

BASIC CODE: OSI2 145 * 6W **

ONLY Body Part Numbers

Aluminium SG Iron
3/8" BSPP - Z10213 3/8" BSPP - Z10213S

