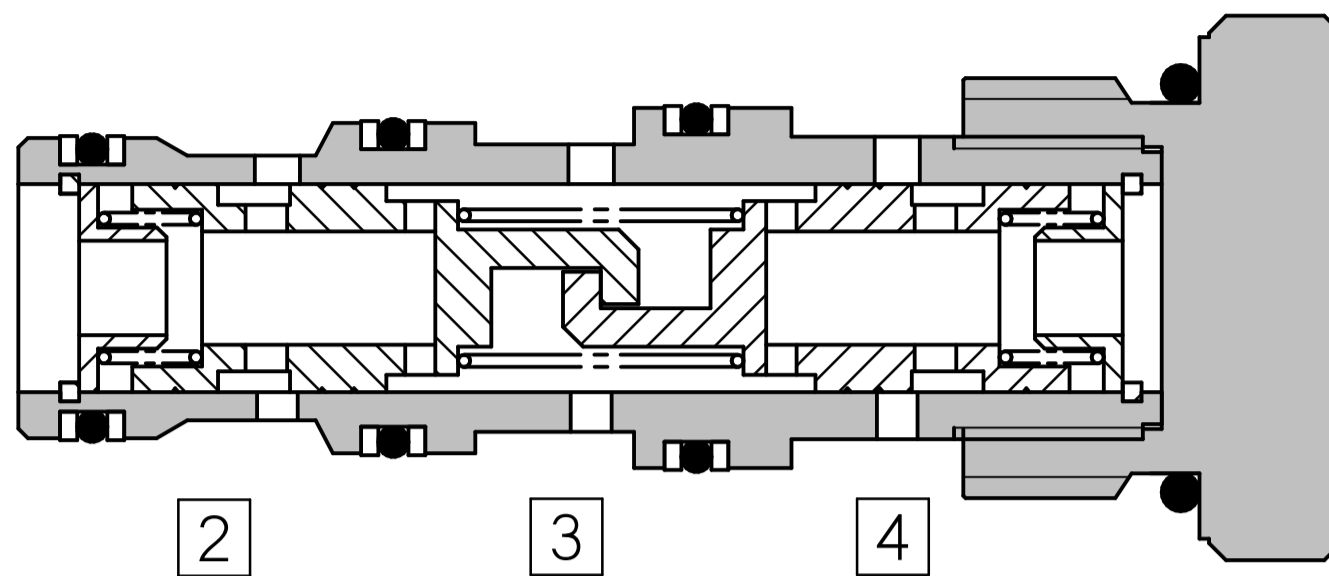
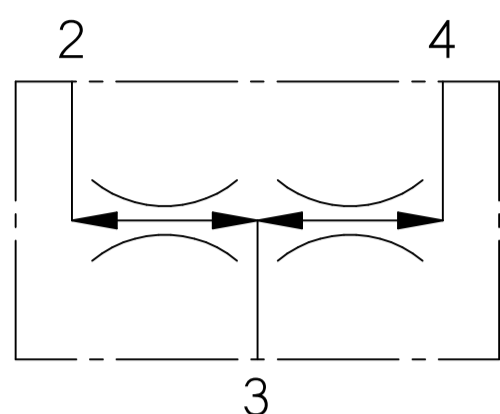
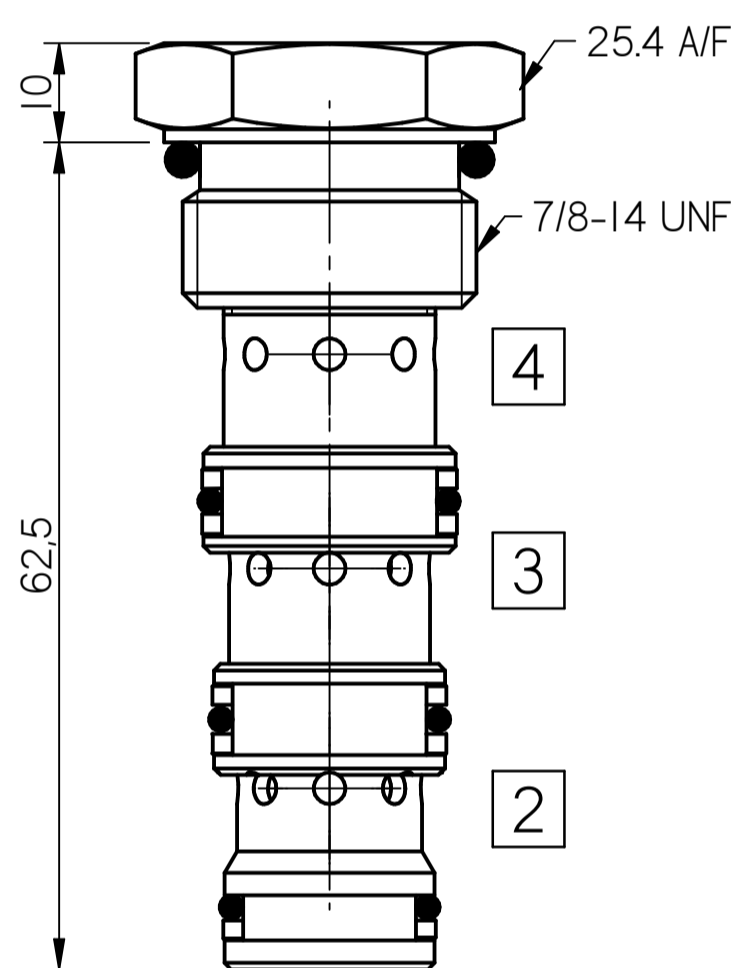


FLUID POWER SYMBOL



8



Application

The CFD range of flow divider/combiner valves divides flow equally parts and combines flow in the reverse direction. Pressure compensation ensures equal flow is maintained over a wide range of pressure variation. A typical use of these valves is to divide a pump flow to operate two actuators (which may be under different load conditions and at different pressures) and to re-combine the return flows to synchronise actuator movement. Flow variation is within $\pm 10\%$ with maximum variation of pressure and under normal conditions will be significantly less.

Operation

Inlet flow passes through the two matched orifices in the spools, through

the spools and out of the radial holes in the sleeve. The matched orifices and the compensating springs ensure that the flow is divided equally; excess flow in either direction causes the spool to move and close the radial holes in the sleeve until equilibrium is restored. In the reverse direction the spools close together and regulate the flow in through the radial ports.

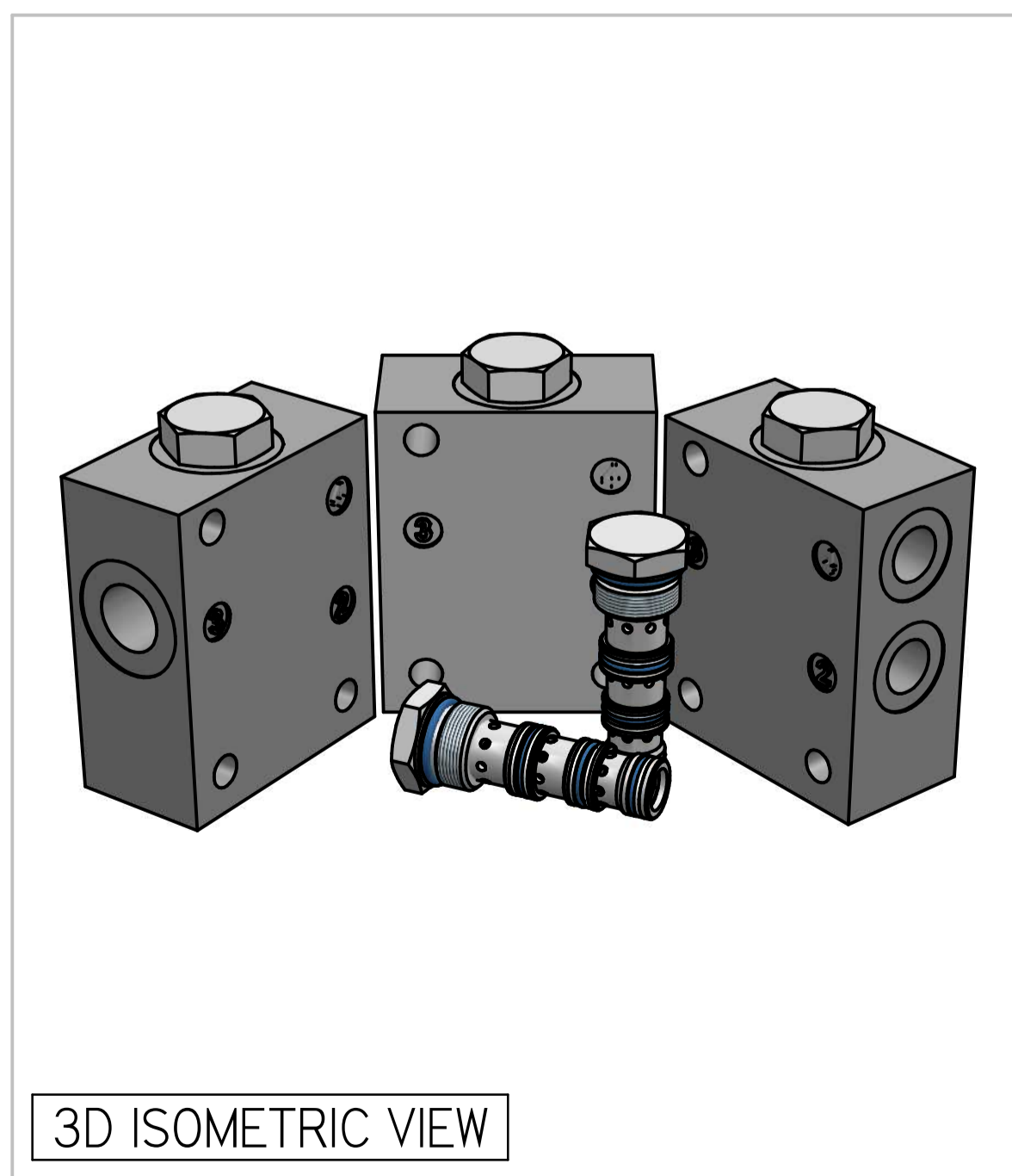
Features

One valve synchronises in both directions. Matched spools give high accuracy under load and pressure imbalance conditions. Cartridge construction gives versatility of application. A valve may be fitted into a line body, a custom designed Hydraulic Integrated Circuit or other hydraulic equipment.

Specifications

Figures based on: Oil Temp = 40°C Viscosity = 40 cSt

Rated Flow	40 lpm
Max Pressure	350 bar
Dividing Ratio	50/50 Standard
Weight (Cartridge only)	CFD55: 0.100 kg
Cavity Number	THI2744 (Refer Cavities Section)
Manifold Material	Aluminium (upto 250 bar) SG Iron (above 250 bar)
Torque into Cavity	60 Nm
Mounting	Line
Seal Kit Number	SKCFD55 (Nitrile) SKCFD55V (Viton®)
Filtration Level	BS5540/4 Class I8/I3 (25µ nominal)
Operating Temp	-20°C to +90°C (Standard Seals)
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.

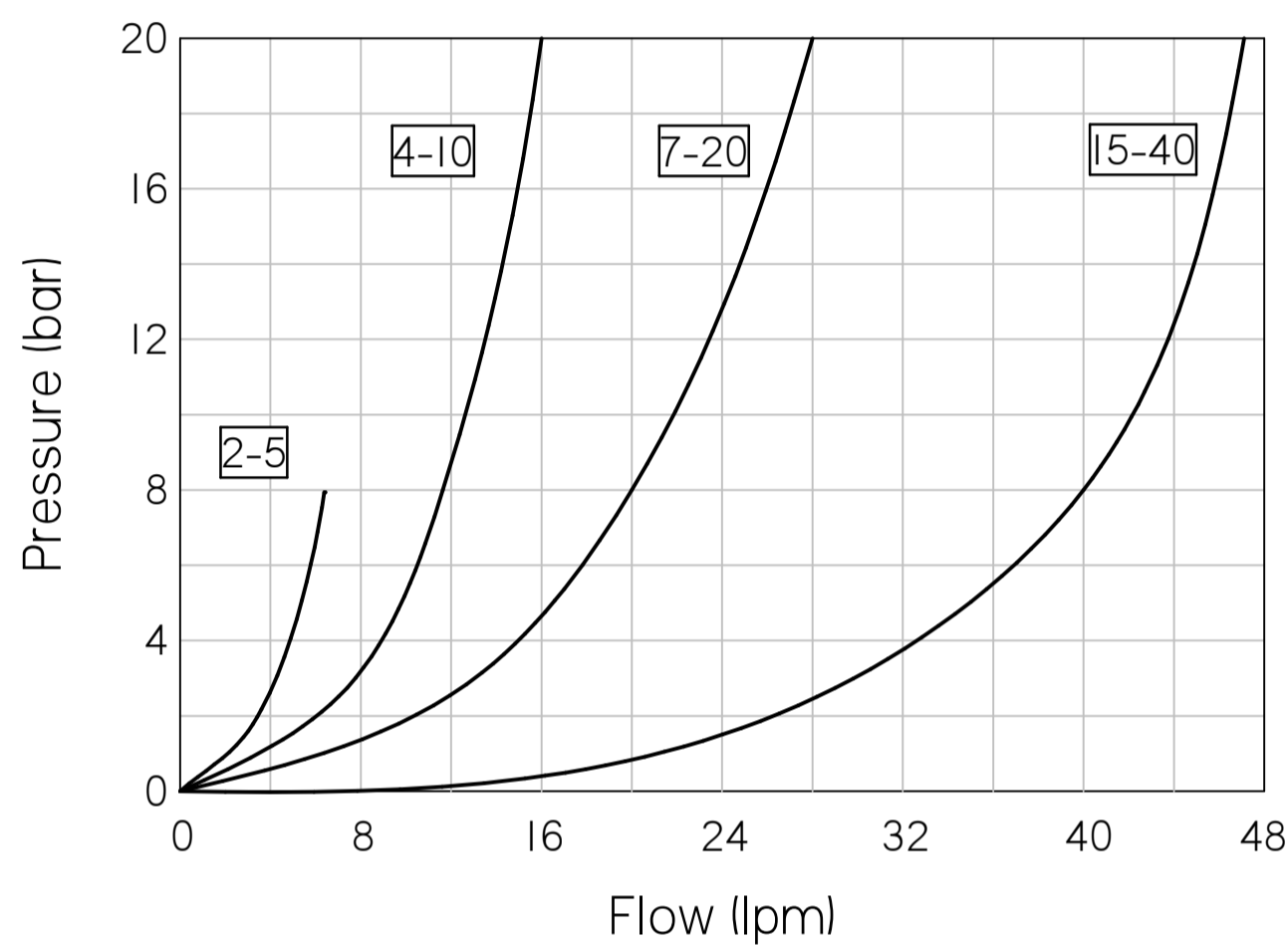
TO ORDER

CFD55 3W 3W 40 N

BASIC CODE
PORT SIZE
3W 3W: 3/8" BSP INLET AND OUTLET
4W 4W: 1/2" BSP INLET AND OUTLET
4W 3W: 1/2" BSP INLET AND 3/8" BSP OUTLET
OMIT FOR CARTRIDGE

SEAL KIT
N: NITRILE
V: VITON
CAPACITY
05: 2 - 5 litres/min
10: 4 - 10 litres/min
20: 7 - 20 litres/min
40: 15 - 40 litres/min
60: 25 - 60 litres/min

PRESSURE CHARACTERISTICS

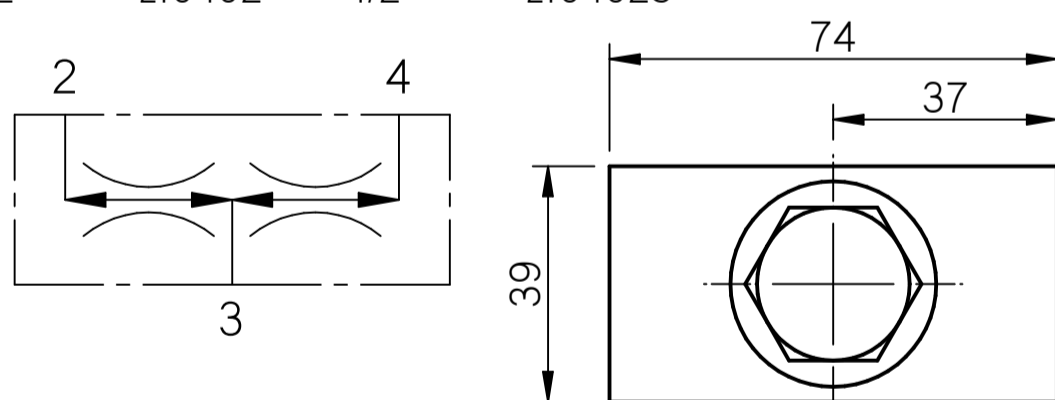


COMPLETE VALVE 3/8" BSP PORTS

BASIC CODE: CFD55 3W3W

ONLY Body Part Numbers (BSP)

Aluminium		SG Iron	
3/8"	ZI0401	3/8"	ZI0401S
1/2"	ZI0402	1/2"	ZI0402S

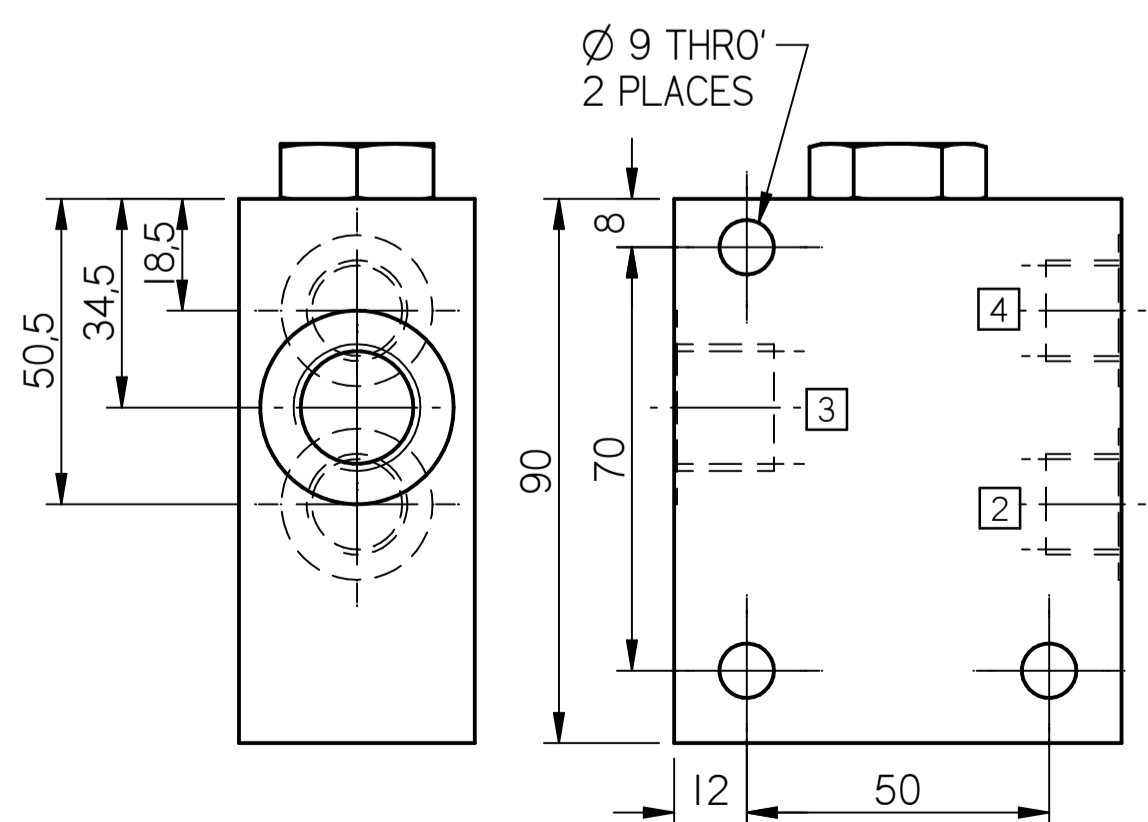
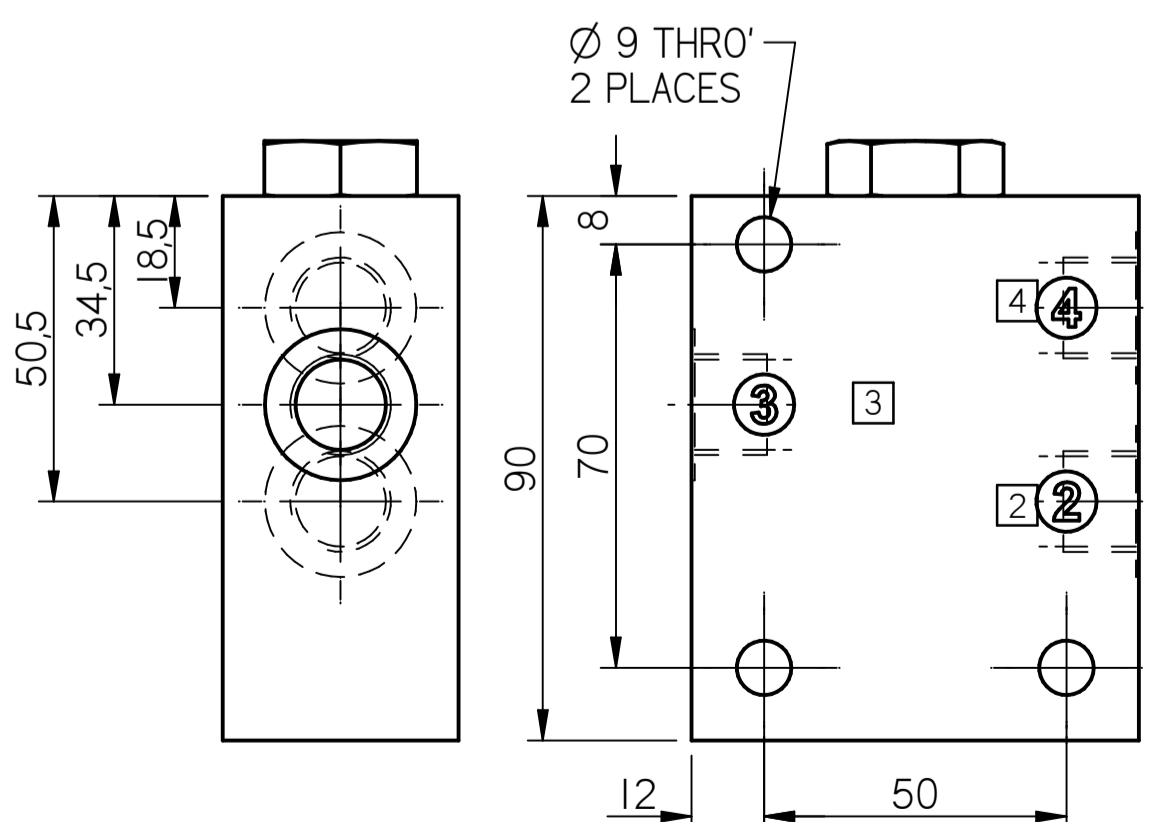
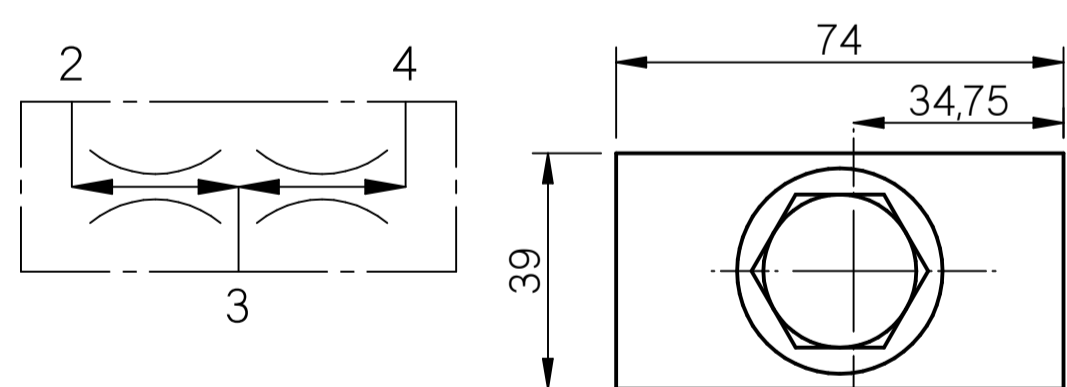


COMPLETE VALVE 1/2"-3/8" or 1/2" BSP PORTS

BASIC CODE: CFD55 4W3W / 4W4W

ONLY Body Part Numbers (BSP)

Aluminium		SG Iron	
3/8" - 1/2"	ZI0061	3/8" - 1/2"	ZI0061S



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