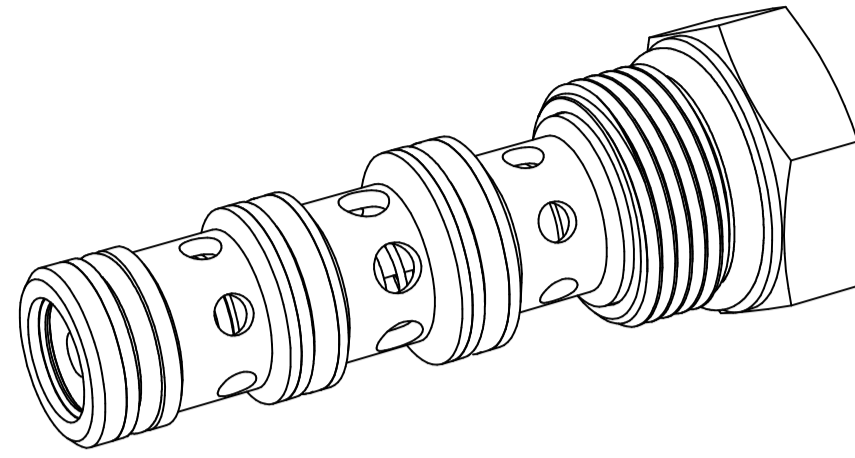
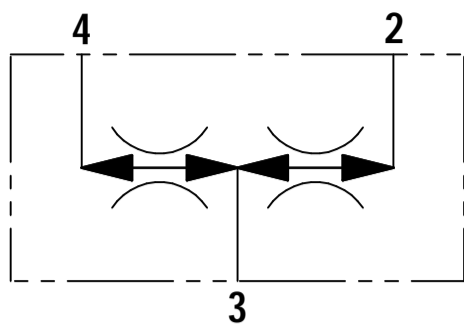




FLUID POWER SYMBOL



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.

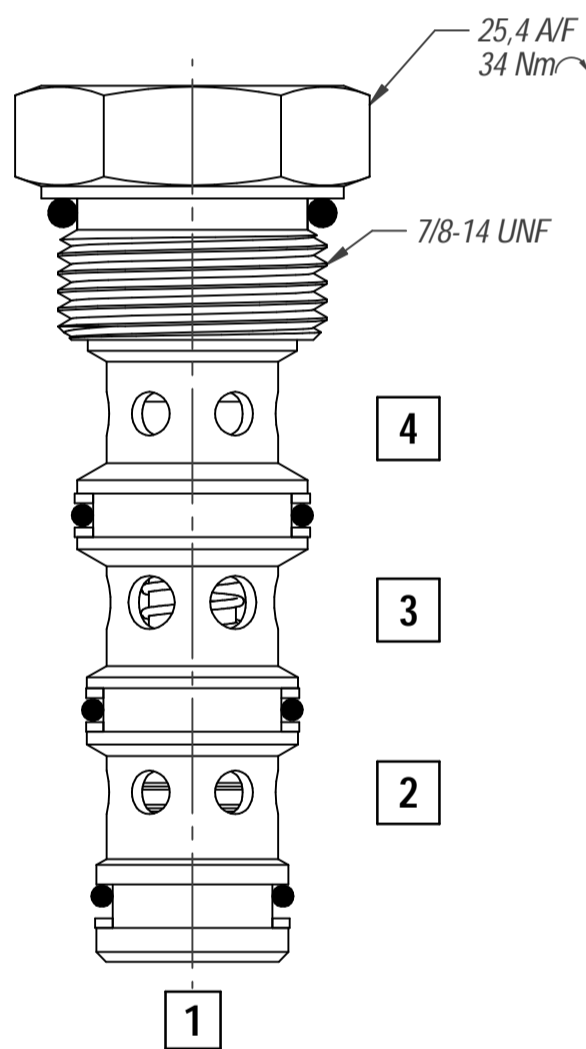
OPERATION

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.

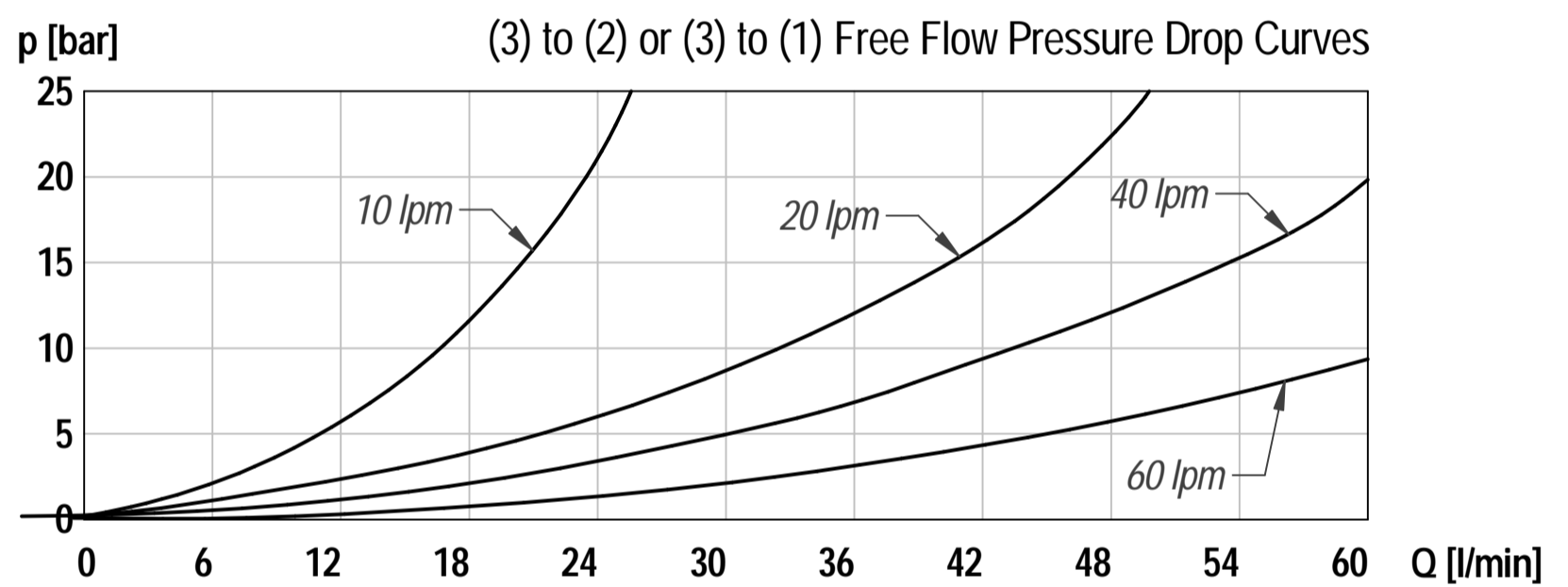
FEATURES

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.

DIMENSIONS



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



8

General Specifications

Description	flow divider-combiner valve, split spool type	
Construction	Screw-in Cartridge Construction for Cavity	
Mounting	7/8"-14 UNF screw thread for cartridge Threaded ports for housings.	
Installation Position	any	
Tightening Torque	40 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	SAE10-4	
Weight	CFD55:	0.08 kg

Hydraulic Specifications

Hydraulic Fluid	Mineral oils. Contact sales office for other fluids.	
Max. Pressure	240 bar	
Rated Flow	60 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	
Peak Pressure	240 bar	
Max. Flow	60 lpm	
Seal Kit Number	Contact Sales Office	

Flow Divider Valve

ORDERING CODE

CFD55 4W3W 20 N

BASIC CODE
CFD55 - Flow Divider, Size 10

SEALING
N - Nitrile

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
6W 4W: 3/4 BSP Inlet and 1/2 BSP Outlet
Omit for Cartridge

CAPACITY

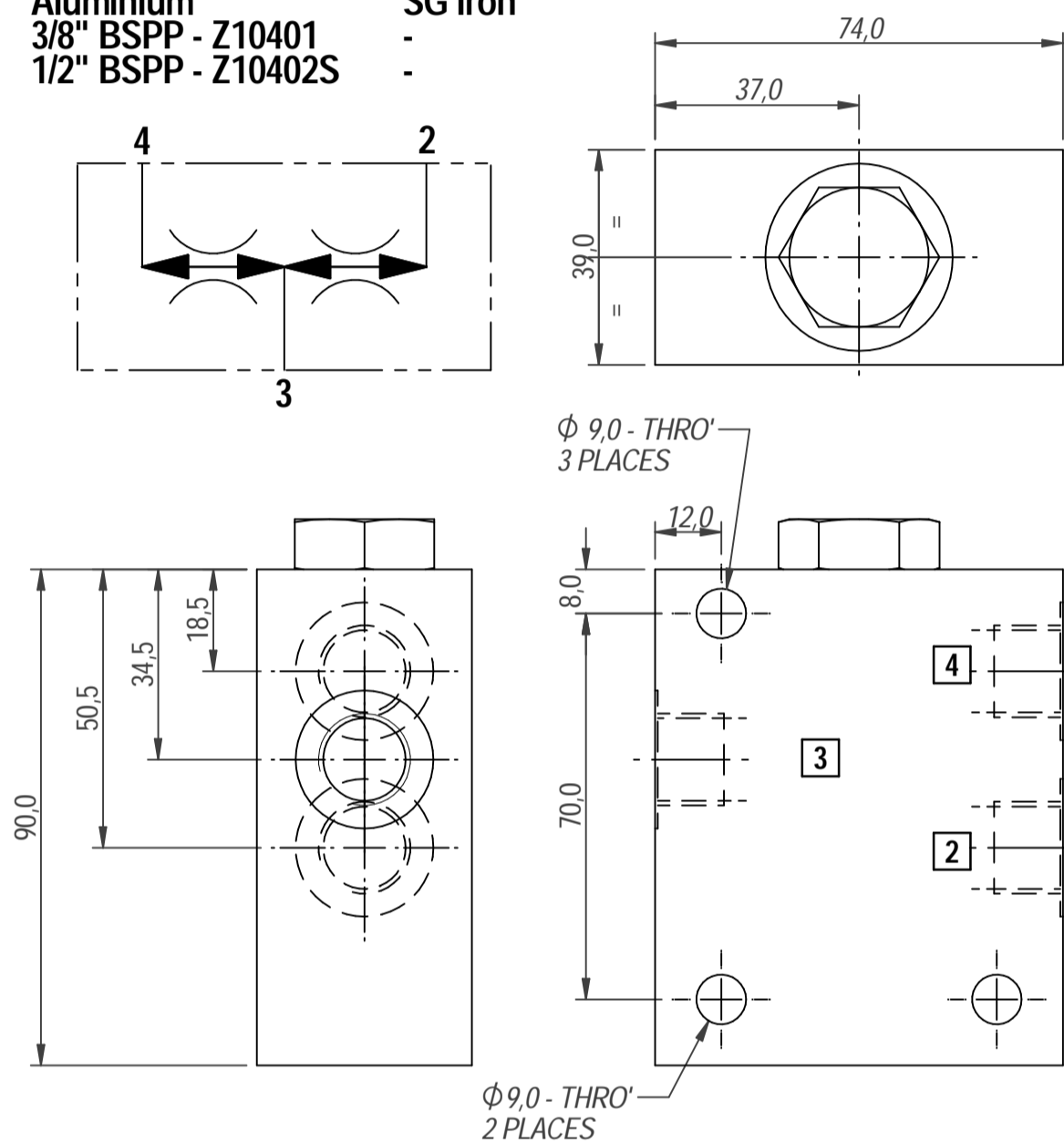
05: 2 - 5 litres/min
10: 4 - 11 litres/min
20: 7 - 22 litres/min
40: 15 - 45 litres/min
60: 25 - 65 litres/min

DIMENSIONS

BASIC CODE: CFD55 *W *W ** N

ONLY Body Part Numbers

Aluminium SG Iron
3/8" BSPP - Z10401 -
1/2" BSPP - Z10402S -

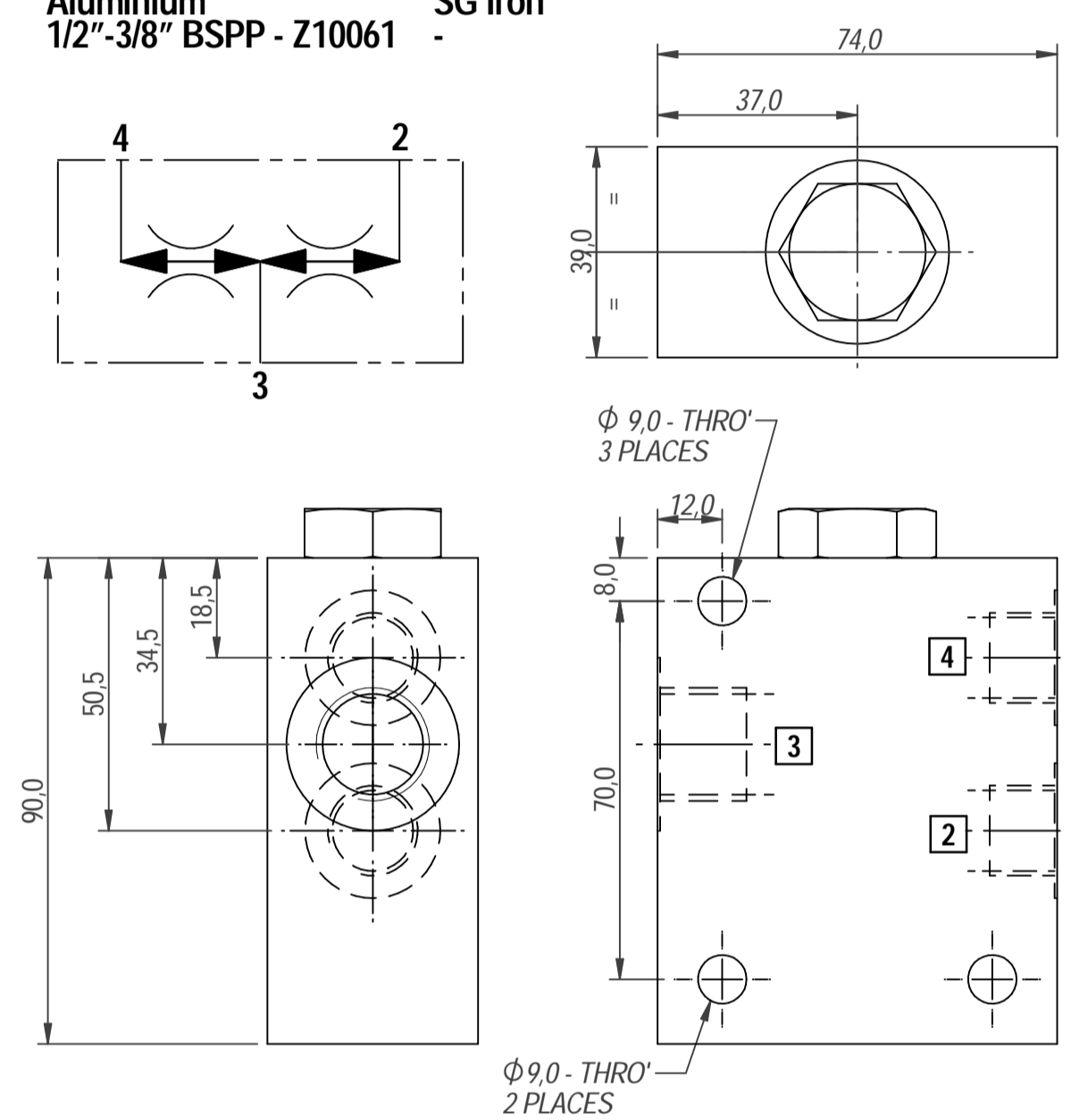


DIMENSIONS

BASIC CODE: CFD55 4W 3W ** N

ONLY Body Part Numbers

Aluminium SG Iron
1/2"-3/8" BSPP - Z10061 -



DIMENSIONS

BASIC CODE: CFD55 6W 4W ** N

ONLY Body Part Numbers

Aluminium SG Iron
3/4"-1/2" BSPP - Z10509 -

