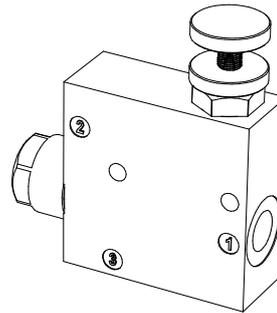
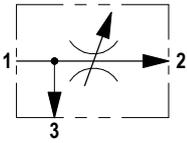




FLUID POWER SYMBOL



APPLICATION

FB valves are bypass flow regulators. The flow (and actuator speed) will be largely independent of the load and the pressure conditions. If used to regulate flow from a fixed supply, for example a standard gear or piston pump, the valve will pass the required flow and any surplus flow will be dumped to the tank line at working pressure. These valves find use in motor control with varying loads, cylinder speed control or even steering systems in certain cases (consult Sales department for applications).

OPERATION

A constant flow rate, regardless of system pressures, is established from 1 (Inlet) to 2 (Reg), while a minimum pressure differential exists between the two ports. Input flow supplied to 1 (Inlet) in excess of the regulated output at 2 (Reg) is by-passed to 3 (Tank). Output flow can be varied from closed to the nominal maximum rating for the valve. Reverse flow from 2 to 1 is limited by the selected opening of the restrictor and is not pressure compensated. Reverse flow from 3 (Tank) is not possible.

FEATURES

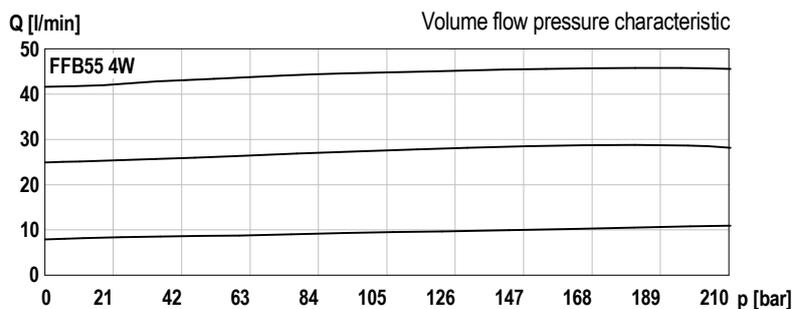
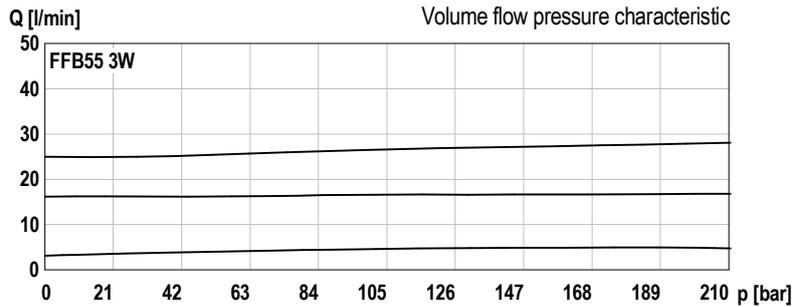
Line body construction allows direct connection into hydraulic systems. Leakproof adjust screw gives easy, accurate adjustment to required flow setting. Hardened and ground working parts give accurate flow control and long working life.

DIMENSIONS

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

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See next page



General Specifications

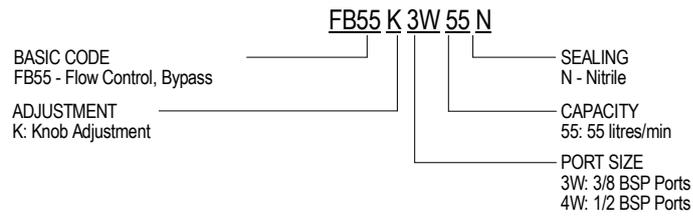
Description	3-way flow control valve, bypass type
Construction	Line mounted construction
Mounting	Threaded ports
Installation Position	any
Tightening Torque	-
Ambient Temp.	-20°C to +50°C
Cartridge Material	Working parts: Hardened, ground steel External surfaces: Zinc plated
Manifold Material	Steel
Cavity Number	-
Weight	see chart

Hydraulic Specifications

Hydraulic Fluid	Mineral oils. Contact sales office for other fluids.
Max. Pressure	210 bar
Rated Flow	see chart
Max. Contamination Level	BS5540/4 Class 18/16/13 (25µ nominal)
Viscosity Range	5 to 500 cSt
Leakage Flow	Less than 1 ml/min (15 dpm)
Hydraulic Fluid Temp.	-20°C to +90°C (Standard Seals)
Mounting	Line
Peak Pressure	350 bar
Max. Flow	see chart
Seal Kit Number	Contact Sales Office

Flow Control Valve, Bypass

ORDERING CODE



DIMENSIONS

BASIC CODE: CFD55 *W *W ** N

ONLY Body Part Numbers

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

