

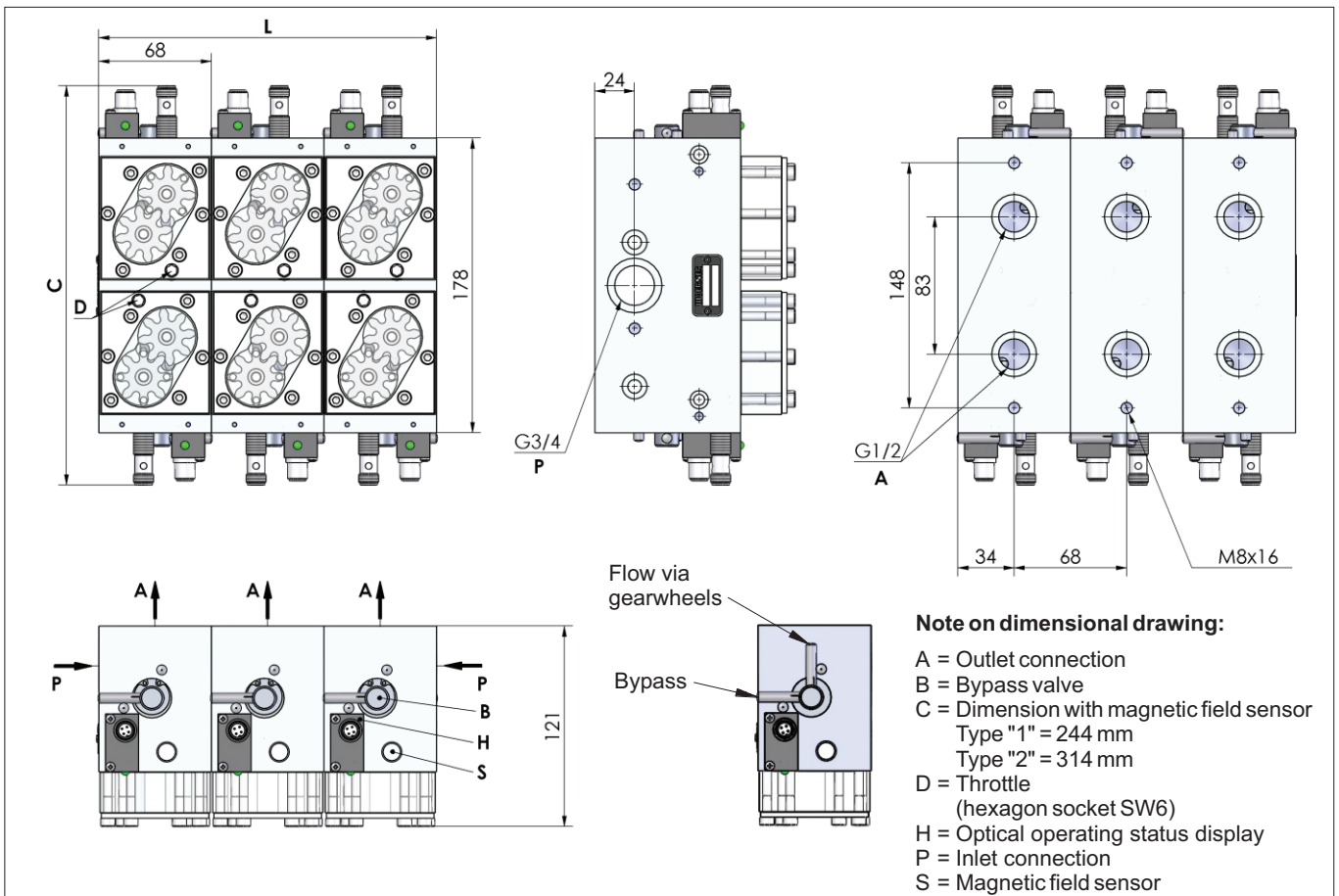
Volume flow meter with throttle- and bypass valve KUZ-D

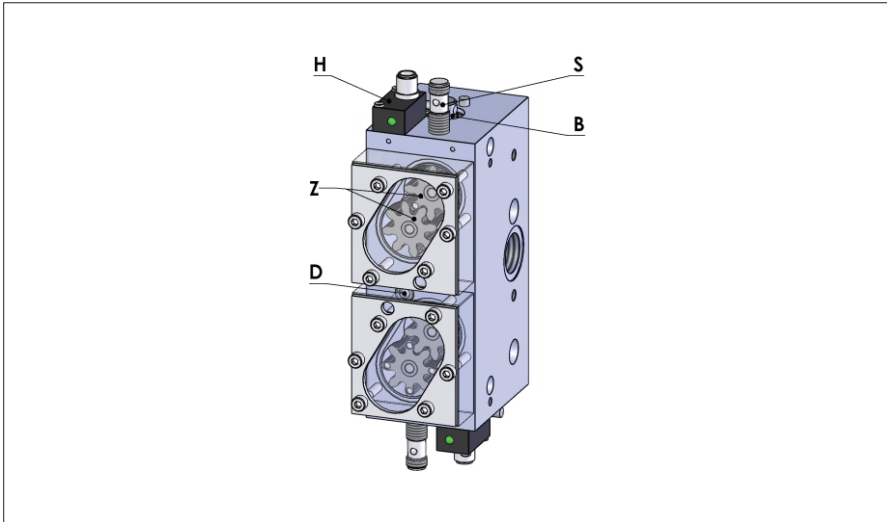
Use:

In oil lubrication systems

- Series mounting in narrowest space
- Viscosity-independent volume flow monitoring
- High measuring accuracy
- Big monitoring range
- Continuously adjustable volume flow
- Gearwheels can be cleaned or exchanged during operation
- Low throughput resistance
- Magnetic field sensor with function display (LED)
- Optical operating status display (LED)

- Subject to modifications -





Construction:

The volume flow meter consists of a base body with two integrated measuring units.

Either measuring unit consists of the following components:

Z = Gearwheel pair

D = Throttle

B = Bypass valve

S = Magnetic field sensor

H = optical operating status display (optional)

The number of measuring units can be extended by flanging on additional base bodies directly.

Volume flow measurement:

The fluid flowing through causes two gearwheels "Z" gearing into each other to rotate. Outside the pressure range, there is a sensor "S" scanning the movement of the gearwheels "Z". The volume flow is determined by summing the measuring pulses up.

Volume flow adjustment:

The throttle valves "D" built into the base body can be used to adjust the various volume flows.

Bypass:

For replacing or cleaning the gearwheels "Z", the set volume flow can be diverted directly to the outlet connection through bypass valve "B". In such case, the measuring unit will not be flow through.

Technical data:

Volume flow: approx. 0,05 ... 7 l/min

with analog output: appr. 0,2 ... 7 l/min

Volume per electric pulse

with gearwheels "U"

0,05 ... 7 l/min: 2,98 cm³

Lubricant: Mineral oil

(others media available upon request)

The intended lubricant must be suitable for use with centralized lubrication equipment.

Operating viscosity: 50 ... 800 mm²/s

Operating pressure: max. 63 bar

Pressure loss: see diagram

Temperature range: 0 ... 60 °C

(higher temperatures upon request)

Mounting position: user-defined

Materials

Housing material: Al

Viewing glass: PMMA

Sealing material: FPM

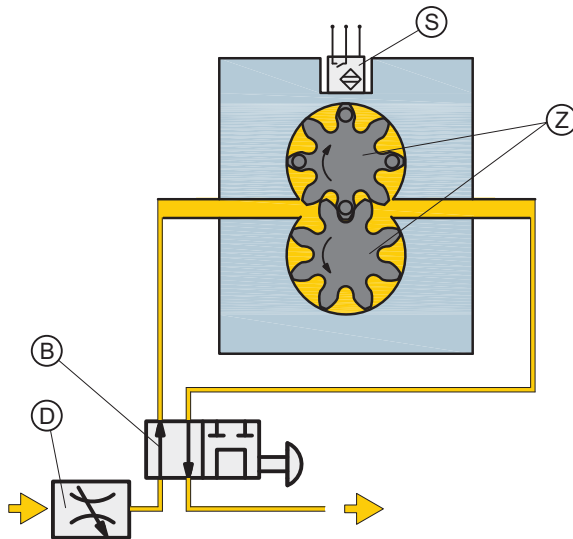
Gearwheel material: Metal

Weight per base body: approx. 3,5 kg

Important note:

The values stated above are maximum values and must not be attained concurrently.

Function scheme



Pressure loss depending on volume flow

