

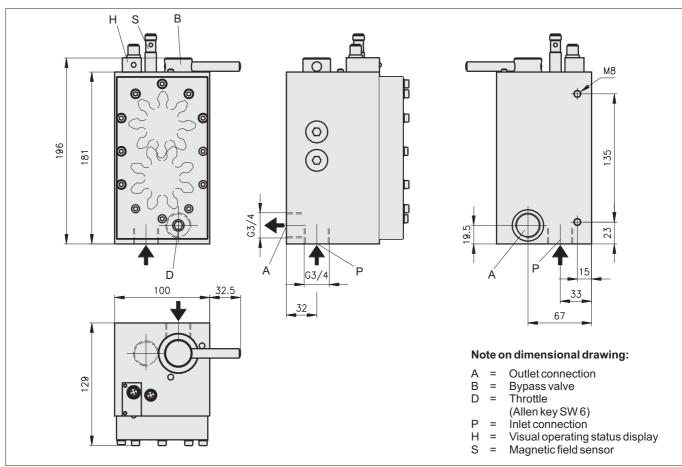


Volume flow meter with throttle- and bypass valve KUZ-L

Use:

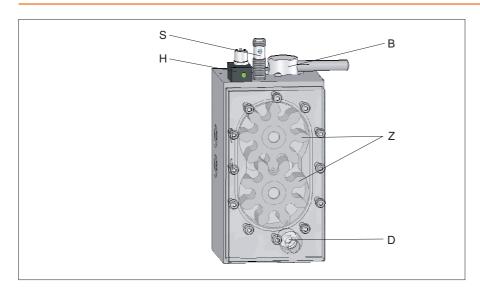
In oil lubrication systems

- 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)
- Visual operating status display



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Construction:

The volume flow meter consists of the following components:

Base body

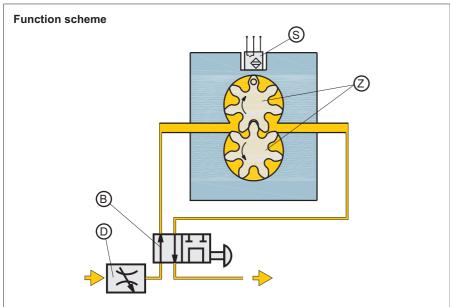
Z = Gearwheel pair

D = Throttle

B = Bypass valve

S = Magnetic field sensor

H = visual operating status display



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" can be used to adjust the volume flow.

Bypass:

For replacing or cleaning the gearwheels "Z", the set volume flow can be diverted directly to the outlet connection through bypass valve "B".

Technical data:

Flow volume: approx. 5 ... 50 l/min
Volume per electric pulse: 75,0 cm³
Lubricant: Mineral oil
(others media available upon request)
The intended lubricant must be suitable
for use with centralized lubrication

for use with centralized lubrication equipment.

Operating viscosity:
Operating pressure:

Temperature range:

Mounting position: Materials:

50 ... 800 mm²/s at max. 25 bar 0 ... 60 °C as needed

AI / PMMA FPM (Viton)

Important note:

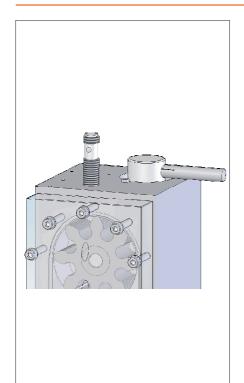
The values stated above are maximum values and must not be attained concurrently.

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Magnetic field sensor with LED:

Casing material: Brass nickel-coated Operating voltage: 10 ... 30 VDC Residual ripple: ≤10 % $\leq\!300\,mA$ Constant current: Own current consumption: $\leq 10 \, mA$ Voltage drop: ≤1,5 V Protection type: IP 67

Version "1" cable connection:

Version "2" plug-type connection:

Connection type: Line, PVC/PUR, 3m

3x0,25 mm²

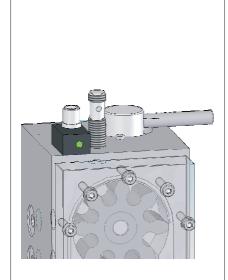
Connection diagram:



Connection type: M12x1, 4-pin (for proper cable jack see accessories)

Connection diagram:





Visual operating otatus display:

The visual operating status display is actuated by an external evaluation unit. This enables the operating condition to be displayed visually.

Operating voltage: 24...30 VDC Power consumption per colour: 16 mA Protection type: IP65

Casing material: Polyamide

Three different signal colours can be disgreen yellow red played:

Example: green = Target status

yellow = Pre-warning red Fault

Evaluation equipment, please inquire if necessary.

Version "1" cable connection:

Line, PVC/PUR, 3m Connection type: 3x0,34 mm²

Connection diagram:

LED red = BN + BU LED areen = BK + BU

LED yellow = BK + BN + BU

Version "2" plug-type connection:

Connection type: M12x1, 4-pin (for proper cable jack see accessories)

Connection diagram:

BK +

BN +

BU

Rv

LED red = Pin 4 + 3

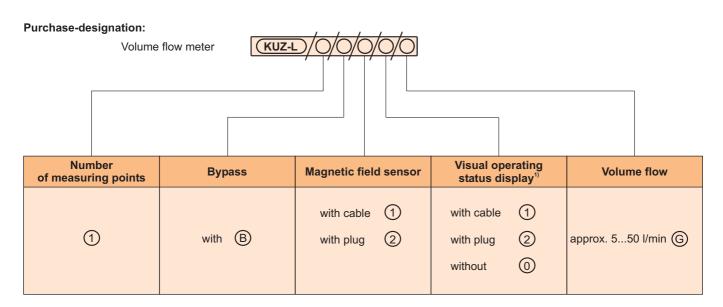
LED areen = Pin 2 + 3 LED yellow = Pin 2 + 4 + 3

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Purchase-example:

Bestell-Bezeichnung:

1) Evaluation unit required

For a volume flow meter KUZ-L with 1 measuring point, bypass, magnetic field sensors and visual operating status display with plugs each, volume flow "G".

KUZ-L/1/B/2/2/G

Spare parts: Accessories:

Designation	Purchase-no.	Designation I	Purchase-no.	Designation	Purchase-no.
Plate translucent with mounting material		Magnetic field sensor "1" with cable "2" with plug	913.900-26 913.900-27	Unit plug with cable 4-pin, 5m	913.404-46
Gearwheel pair Throttle screw "G" Gasket kit	752.517-64 752.517-67 752.517-68	Visual operating status displa "1" with cable "2" with plug	y 477.582-60 477.563-60		

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