

### Use:

In oil lubrication systems

- In-series mounting in narrowest space
- Viscosity-independent volume flow monitoring
- High measuring accuracy
- Wide monitoring range
- Continuously adjustable volume flow
- Measuring device can be cleaned or replaced during operation
- Little flow resistance
- Control element with functional display (LED)

# Technical data:

Flow volume:	approx. 0,2 7 l/min.
Volume per electrical	pulse: 11,7 cm <sup>3</sup>
Measuring accuracy	
at 0,2 l/min:	± 6%
at 2,0 l/min:	± 3%
at 7,0 l/min:	± 2%
Operating pressure:	at max. 25 bar
Pressure loss:	see diagram page 2
Temperature range:	0 60 °C
Mounting position:	as needed
Materials:	AI / PMMA
	NBR (Perbunan)

#### Magnetic field sensor with LED:

Brass nickel-plated
10 30 VDC
≤10 %
$\leq$ 300 mA
sumption: $\leq 10 \text{ mA}$
≤1,5 V
IP 67
Cable, PVC/PUR, 2m
₩вк
BU

#### Note on dimensional drawing:

- А = Output connector
- В Bypass valve =
- D = Throttle valve
  - (Hexagon socket SW 5) Input connector =
- Е S =
- Magnetic field sensor

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

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#### Volume flow measurement:

The liquid flown through causes two gear wheels "Z" gearing into each other to rotate. Outside of the pressure range, there is a sensor "S" that scans the movement of the gear wheels "Z". By addition of the measuring pulses, the flow volume is determined.

## Type of construction:

Any assembly consists of a connecting plate with one or more measuring devices. The connecting plate provides a throttle valve "D" and a bypass valve "B" for every measuring point.

# Volume flow setting:

The volume flows can be set individually by means of the throttle valves "D" built into the connecting plate.

## Bypass:

For gear wheel "Z" exchange or cleaning, the volume flow set can be diverted by way of a directional control valve through a bypass.



#### Purchase-example:

Volume flow meter 3-point with bypass and magnetic field sensor with cable. Volume flow "F" at point 1 Volume flow "G" at point 2 Volume flow "G" at point 3

### Purchase-designation:

KUZ-B/3/B/1/F/G/G

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