

Certified according to DIN EN ISO 9001

## Technical Datasheet



## ZHM...HP

Gear Flow Meters for High-Pressure Applications



## Application

Thanks to their robust construction our KEM-HD Gear Flowmeters are particularly suited for high pressure applications in rough and challenging environments, such as offshore and Sub-sea applications.

Wherever flow measurement of additives for chemical injection or of high pressure hydraulic fluids is required the ZHM \*\*\* HP models are ideally suited. Extreme environmental requirements are met by our choice of superior materials and surface coatings.

A range of models facilitates a multitude of applications. PD Gear Flow Meters provide highest metering accuracy and quick response times for media of varied viscosities.

With AUTOCLAVE connections 3/8" - 8F-375-CX pressures up to 1000 bar are achieved. KEM pick-ups and amplifiers are ATEX certified for EX-area applications.

### Applications

- hydraulic oil
- corrosion protection materials
- demulsifiers
- DRA (Drag Reducer Additives)
- water hydraulic systems
- other additives
- coatings

### Features

- pressures up to 1000 bar
- short response time
- large range of viscosity
- Xylan coated screws
- frequency amplifiers with EExiall CT4 or T6 for zone 1

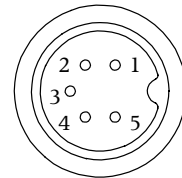
## Technical Data

Type	Measuring range, l/min	K-Factor, Impulse/l*	Frequency range, HZ
ZHM 01/1 HC	0.005 up to 2	26,500	1,325
ZHM 01/2 HP	0.02 up to 3	14,000	700
ZHM 02 HP	0.1 up to 7	4,200	490
ZHM 03 HP	0.5 up to 25	1,740	725
ZHM 04 HP	0.5 up to 70	475	555

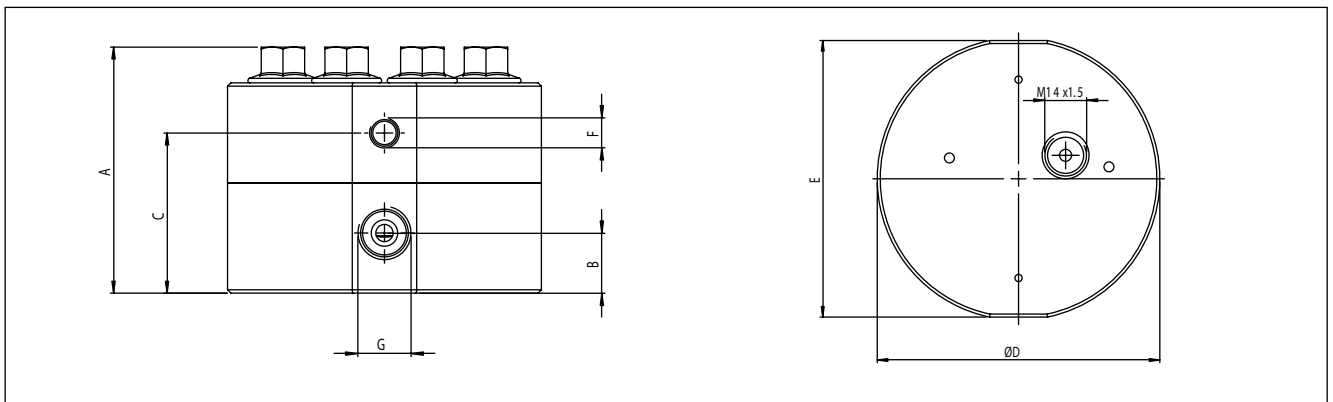
\* Centre pickup for pulse doubling on request.

General	
Linearity	± 0.5% of actual flow
Repeatability	± 0.1%
Operating pressure	max. 1,000 bar
Connections	Autoclave 3/8" SF-375-CX
Temperature	up to +150 °C
Materials	Housing: Stainless steel DIN 1.4404 (SS316L) Gears: Stainless steel DIN 1.4122 (SS303) Bearing: Stainless steel Sealing: Viton

Electrical Data (VTEK/P Ex)	
Output	Push Pull
Voltage level	NPN/Open collector passiv $U_{High} > U - (I_{out} \text{ (mA)} \times 1300 \Omega)$ $U_{Low} < 0,6 \text{ V} + (I_{out} \text{ (mA)} \times 1300 \Omega)$ $U_{max} = 30 \text{ V}$
Pin connections	5-pin plug 1 = UB +8,5 up to 29 VDC (grey) 2 = Signal Push Pull (green) 3 = 0 V (brown) 4 = OC Collector (white) 5 = OC Emitter (yellow)

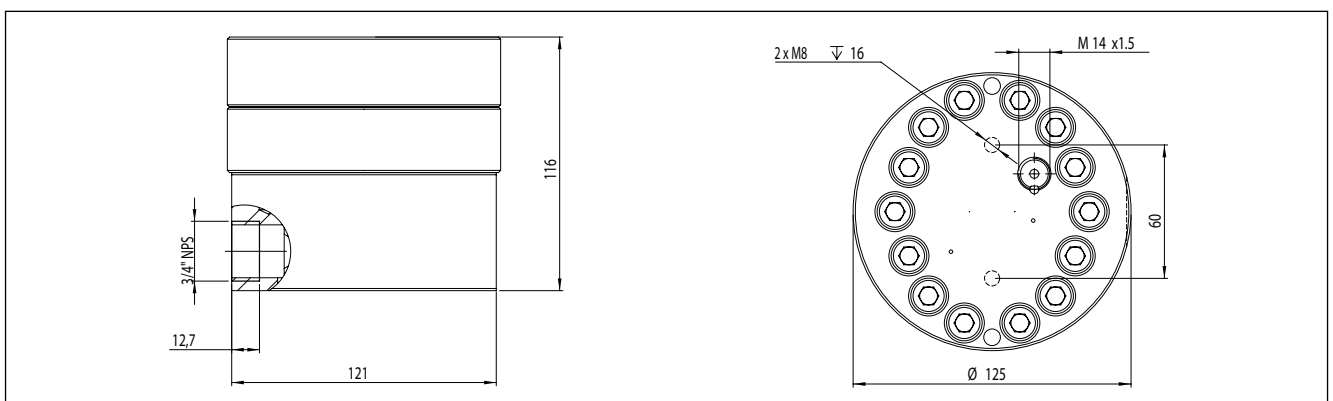


## Dimensional Drawing (mm) - ZHM 01/1...03 HP



Type	A	B	C	D	E	F	G	Connections
ZHM01/1 HC	74	18	48	94	92	M8	9/16" UNF	SF375CX20
ZHM01/2 HP	74	18	48	94	92	M8	9/16" UNF	SF375CX20
ZHM02 HP	74	18	48	94	92	M8	9/16" UNF	SF375CX20
ZHM03 HP	86	18	60	94	92	M8	9/16" UNF	SF375CX20

## Dimensional Drawing (mm) - ZHM 04 HP



# Contact

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