

MPHM*ALL PRECISION TURBINE FLOW METER - ALUMINUM

Precision turbine flow meters, particularly suitable for monitoring and measuring consumption with continuous and discontinuous flows of lubricating oils, glycol blends and low and medium viscosity emulsions. Made of high strength aluminum, with internal parts and stainless steel bearings. The body is equipped with connections for connecting pressure and temperature sensors. All meters with internal calibration certificate.

Wide range of flow rates due to turbine size and blade geometry.

VIE02 frequency amplifiers are also available for applications in hazardous, intrinsically safe and Ex-ATEX, IECEx, CSA and other standards.

Applications

- Hydraulic oil
- Glycol mixtures
- Emulsions
- Oils testing
- Monitoring the hydraulic system
- Mobile hydraulic measurements



TECHNICAL SPECIFICATIONS

MPHM	007ALL	011ALL	022ALL	030ALL
Flow range l/min	1.2...20	6...60	15...300	40...600
K-Factor pulse/l:	4800	2800	605	204
Max Pressure bar:	400	400	400	315
Max Frequency Hz:	1800	1350	800	860
Weight kg:	0.6	0.7	1.3	1.4
Accuracy:	+/- 0,5%			
Repeatable:	+/- 0,5%			
Linearity:	+/- 2.5% of the actual flow (viscosity = 30 mm ² / s)			
Materials:	Anodized aluminum housing EN AW-7075 (Al Zn 5.5 Mg Cu) inner parts DIN 1.4305 - AISI 303 wheels DIN 1.4122 ball bearings stainless steel, PTFE			
Fluid Temperature:	-20...+120°C			
VIE02 Pickup:	Supply 10-30 Vdc Quiescent current < 1 mA Frequency Range 7...5000 Hz Ambient Temperature -40...+80°C (non Ex), -40...+60°C (Ex,T4) Fluid Temperature -40...+125°C Housing: standard AISI430F, on request AISI316L Class Protection: IP65			
VIE02 Pickup EX:	ATEX II 2G Ex ia iic T4 Gb IEXEx Ex ia IIC T4 Gb cCSAus Class I, Div. 1, Groups A, B, C, D; T4 Ex ia IIC T4 Ga Class I, Zone 0 Aex ia IIC T4 Ga			



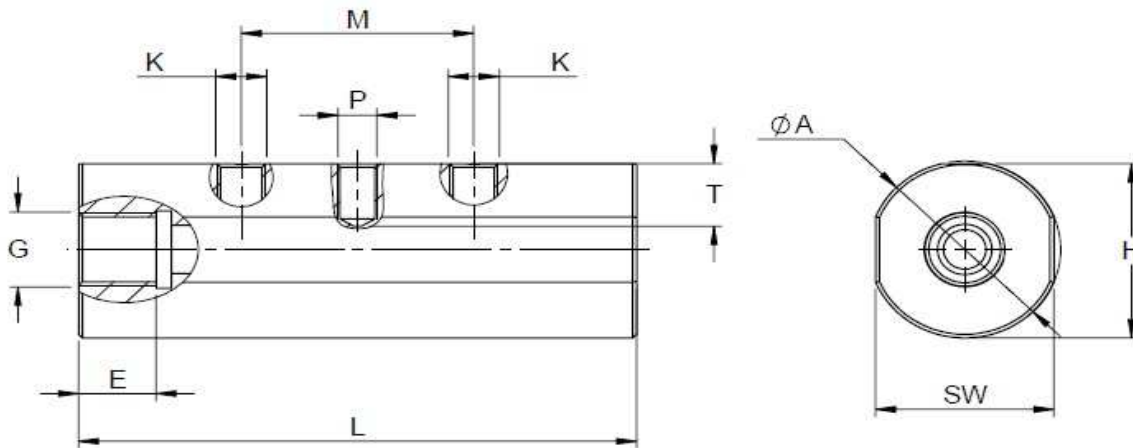
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DIMENSIONS



MPHM	007ALL	011ALL	022ALL	030ALL
ϕA mm	50	50	65	65
E mm	16	19	30	30
G	G 1/4"	G 1/2"	G 1 1/4"	G 1 1/2"
H mm	47,5	49	64	64
K	G 1/4"	G 1/4"	G 1/4"	G 1/4"
L mm	117	144	155	181
M mm	60	60	60	60
P	M14x1,5	M14x1,5	M14x1,5	M14x1,5
T mm	18	18	19	15
SW mm	46	46	60	60
Ermeto Adapter	GE12-PSR-1/4-ED	GE16-PSR-ED/71		

Electrical connection:

5PIN M12 plug

1= $+U_B$

2= nc / NAMUR- (N*, U*)

3= 0 V (no N*)

4= push pull signal (no N*)

5= nc

Other connections on request



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