

# Impeller Flowmeter

## DHGF-10



### Function

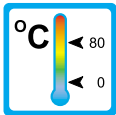
The flowmeters type DHGF-10 are impeller flowmeters.



### Application

The impeller flowmeters type DHGF-10 are employed to measure volume flow of liquids. Areas of application:

- Mechanical Engineering
- Pharmaceutical Industry
- Chemical Industry
- Research and Development



### Features

The series proves itself through reliable function and easy handling. Further characteristics of this model are:

- Universal mounting
- High accuracy
- High chemical resistance (ECTFE-Version)
- Threaded connection

### Installation hints

The installation of the flowmeter can be done in any way in the system. The optimum deaeration will be achieved with horizontal mounting. The flow direction must be observed.

The flowmeter must not be used as a supporting part in a pipe construction.

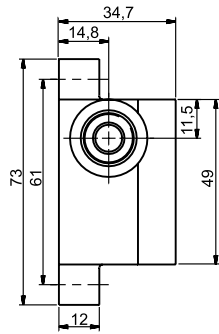
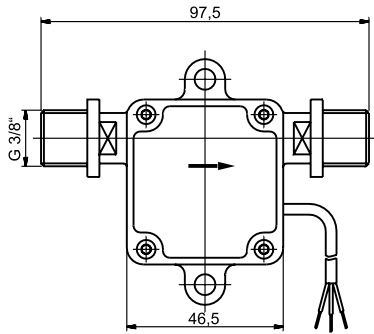
The liquid must not contain any solids.

External magnetic fields influence the measurement. Keep sufficient distance to magnetic fields (e.g. electromotors).

DHGF-10 1 0002 04-05 E M

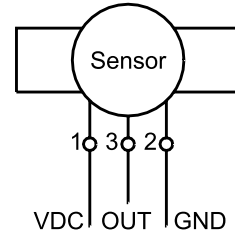


# Ranges, Technical Data



## Connection diagram

- 1 VDC white
- 2 GND brown
- 3 OUT green



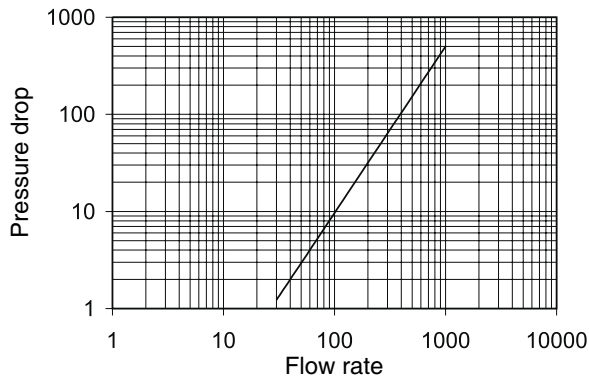
Operating data	DHGF-10 POM-Version	DHGF-10 ECTFE-Version
Flow range (H <sub>2</sub> O at 22 °C)		
standard:	50 - 500 l/h	50 - 1000 l/h
optional (with ceramic bearing):	50 - 1000 l/h	—
Sensing principle:	Hall-effect, touchless	
Viscosity range:	1 - 10 cSt	
Accuracy:	± 2 % from scale value (at same operating conditions)	
Repeatability:	< ± 0,8 % from scale value (at same operating conditions)	
Max. operating pressure:	5 bar	
Burst pressure (at 22 °C):	8 bar	
Operating temperature:	0° C to +80 °C	
Ingress protection:	IP65	
Output signal:	square wave (push-pull output stage)	
Max. output current (at 24 V):	11 mA	
Power supply:	4,5 - 24 VDC	
Connection cable (1 m):	Round cable 3 x 0,14 mm <sup>2</sup> LIYY	

Materials	POM-Version	ECTFE-Version
Housing:	POM	ECTFE
Impeller:	POM	ECTFE
Bearing (spigot bearing)		
standard (axle / bearing):	Corepoint® / POM	ceramic / ceramic
optional (axle / bearing):	ceramic / ceramic	—
Magnets:	POM-encapsulated	ECTFE-encapsulated
O-Rings:	FKM or EPDM *	FKM or EPDM *
Weight:	approx. 80 g	approx. 140 g
Process connection:	G 3/8"	G 3/8"

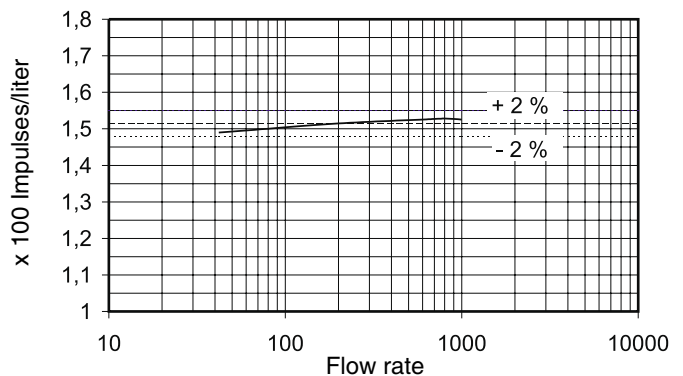
\* FKM: green colourcode

EPDM: black colourcode

## Pressure drop diagram



## Pulse curve



DHGF-10 2 0002 04-05 E.M

