## **Flowmeter**

# **DHTF-1**

#### **Function**

The flowmeters type DHTF-1 are impeller flowmeters.





### **Application**

The impeller flowmeters type DHTF-1 are employed to measure and monitor volume flow of liquids.

Areas of application:



- Mechanical engineering
- Chemical industry
- Research and development

#### **Features**

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

- PP-Version
- High accuracy
- Mounting in different pipe diameters possible (mounting via T-piece)

#### **Installation hints**

The flowmeter can be installed vertically or horizontally. The unit must not be installed upside down (Danger of sedimentation). 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.

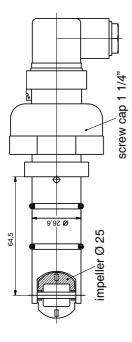
External magnetic fields influence the measurement. Keep sufficient distance to magnetic fields (e.g. electromotors).





## **Technical data**

### **Dimension outline drawing DHTF-1**



Electric connections				
Plug DIN 43650 Form A				
Power supply: 4,5 - 24 VDC		Ingress protection: IP 65		
Pin alloca-	PIN 1: 4,5 - 24 VDC	PIN 2: signal		
tion:	PIN 🖶 : ground			

Operating data			
Flow range (H <sub>2</sub> O at 22 °C):	0,15 - 10 m/s		
Sensing principle:	Hall effect, touchless		
Viscosity:	0,5 - 20 cSt		
Accuracy:	± 1 % of full scale over calibrated range		
Repeatability:	± 0,5 % of full scale over calibrated range		
max. operating pressure:	10 bar		
Burst pressure (at 22 °C):	15 bar		
Operating temperature:	0° C to +80 °C		
Output:	open collector		
Output signal:	square wave		
Output frequency:	42 Hz / m/s		
max. output current (at 24 V):	11 mA*		

<sup>\*</sup> at temperatures < 60 °C: 15 mA

Materials		07-05
Sensor housing:	PP	
Impeller:	ECTFE (HALAR®)	2
Bearing (axle / bearing):	ceramic $(AL_2O_3)$ / ceramic $(AL_2O_3)$	É
Magnets:	ECTFE-encapsulated	
O-Rings:	Viton® (optional: EPDM)	
Weight:	approx. 126 g	
Process connection:	Mounting in pipe connection via T-piece	

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