

Flowmeter

DHTF-1



OVERVIEW

Operation

- Impeller

Application

- Mechanical engineering
- Chemical industry
- Research & Development

Features

- Universal orientation
- High accuracy
- Installation in systems with varying pipe diameters possible (mounting via T-piece)
- Pulse output
- PP-Version

Installation information

- 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 medium must not contain any solids.
- External magnetic fields influence the measurement. Keep sufficient distance to magnetic fields (e.g. electric motors).
- **Download: www.meister-flow.com**

OPERATING DATA

Operating pressure, max.	10 bar
Burst pressure (22 °C)	15 bar
Operating temperature	0 °C - 80 °C
Measuring accuracy	± 2 % of measured value ⁽¹⁾
Repeatability	± 1 % of measured value ⁽¹⁾
Viscosity range	0,5 - 20 cSt
Sensing principle	Hall effect, contact-free measuring technique

⁽¹⁾ Over calibrated range

MEASURING RANGES

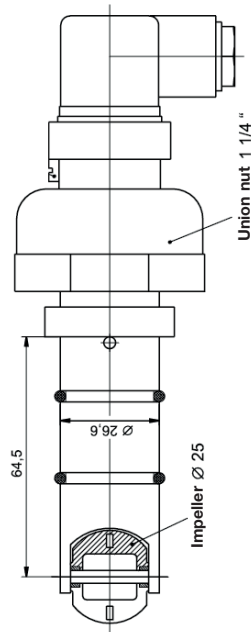
Type	Measuring range for H₂O at 22 °C
	m/s
DHTF-1	0,15 – 10

MATERIALS

PP version

Sensor housing:	PP
Impeller:	ECTFE
Bearing:	
Axle	Ceramic (AL ₂ O ₃)
Bearing	Ceramic (AL ₂ O ₃)
Magnets:	ECTFE-encapsulated
O-Rings:	FKM (optional EPDM)
Weight:	approx. 126 g
Process connection:	Installation in pipe line via T-piece

TECHNICAL DRAWING



ELECTRICAL DATA

Power supply	4,5 - 24 VDC
Signal form	square-wave signal open collector
Output frequency	42 Hz / m/s
Output current, max. (at 24 V)	11 mA ⁽²⁾

⁽²⁾ at temperatures < 60 °C: 15 mA

ELECTRICAL CONNECTION

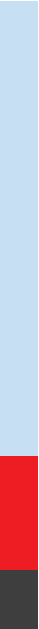
- Connector in compliance with EN 175301-803, Form A (DIN 43650, Form A)

Ingress Protection

IP65

Pin allocation

PIN 1: 4,5 - 24 VDC
PIN 2: Signal
PIN 3: Ground



MASTERPIECES MADE IN GERMANY

DHTF-1 4 0001 12-15 EM

Meister Strömungstechnik GmbH • Im Gewerbegebiet 2 • 63831 Wiesen / Germany
Tel. +49 (0) 6096 9720-0 • Fax +49 (0) 6096 9720-30 • sales@meister-flow.com • www.meister-flow.com
The general business terms of Meister Strömungstechnik GmbH are valid • All rights reserved

