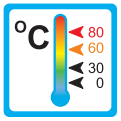
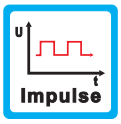
Flowmeter

TDH...-25.../PP

Function

The flowmeters type TDH...-25.../PP are turbine flowmeters.





Application

The turbine flowmeters type TDH...-25.../PP are employed to measure and monitor volume flow of liquids.
Areas of application:

– Medical technology

– Pharmaceutical Industry

– Chemical Industry

– Research and Development

Features

The rotors of the series TDH...-25.../PP are equipped with magnets and a Hall-sensor detects the rotation of the rotor.
Further characteristics of the series are:

– Large measuring range

– Saphire/PA bearings

– High accuracy

– Frequency output

– PP-Version

Installation information

The installation of the flowmeter can be done in any way in the system. 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! We recommend the installation of a strainer.

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

The operating instructions for TD...-25.../PP must be observed under all circumstances.

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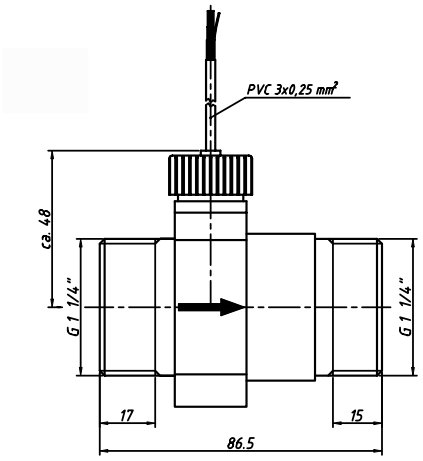
Technical Data



TDHK-25I/PP

Versions					
Type	Measuring value sensing		Output		
	Hall-sensor	Inductive proximity switch	Impulse output (see page 4)	Analog output	Switch output
TDHK-25I/PP	▲		▲		

Technical data				
	Units with Hall-sensor TDH...			
Process connection:	G 1 1/4” male thread			
Nominal size:	DN 25			
Max. medium temperature:	30 °C at 10 bar	60 °C at 5 bar	80 °C at 2 bar	
Nominal pressure:	PN 10 (see max. medium temperature)			
Range:	4 - 160 l/min, at continuous flow max 80 l/min			
Start of signal output:	approximately 1 l/min			
Max. size of solids in medium:	0,5 mm			
Electric connection:				
Cable connection (TDHK...)	2 m shielded PVC cable			
	T_{max} = 75 °C			
Plug (TDHS...)	4-Pin plug M12x1			
Power supply (Pulse output):	4,5...24 VDC			
Ingress protection:	IP 54			
Electric output:	see page 4			
Options:				
Strainer	Screen strainer, screen aperture size 0,63 mm			

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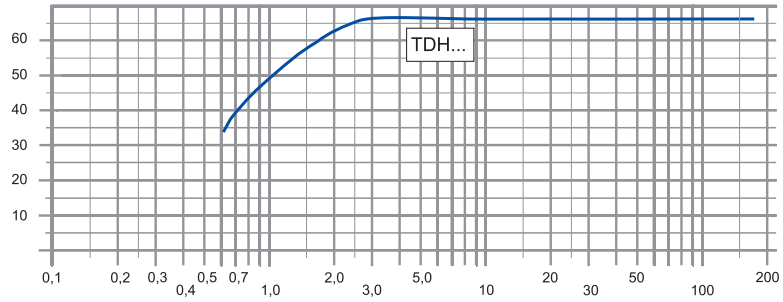
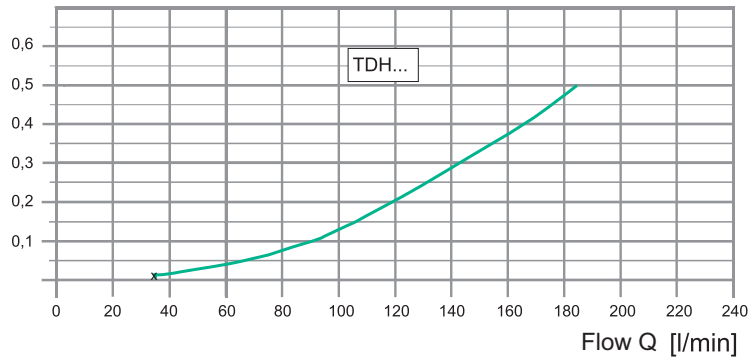
Materials, technical data

Materials		
	Wetted parts	**Units with Hall-Sensor TDH...**
Measuring tube	**yes**	PP
Turbine chamber	**yes**	PA Grivory HTV4X1
Impeller	**yes**	PP
Impeller magnets	**yes**	Permanent magnets, Recona 28 nickel-plated
Axle	**yes**	Stainless steel 1.4436
Bearing	**yes**	Saphire / PA
Sensor bushing	**yes**	POM Delrin 100 P
O-Ring	**yes**	72 NBR 872
Strainer (optional)	**yes**	Stainless Steel 1.4301 (associated O-Ring: 70 EPDM 281)

Pulse rate [1/l]



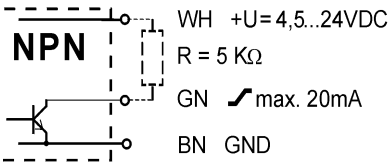
Pressure drop Δp [bar]



Signal output

Technical data, impulse output (TDHK-25l/PP)	
	Units with Hall-sensor TDH...
Accuracy:	± 3 % of range
Repeatability:	± 0,5 %
Output signal:	
Pulse rate / K-factor	65 Pulses / Liter
Resolution	15 ml / Pulse
Signal form	square wave
	NPN open collector
Signal current	max 100 mA
Connection diagram	A1 (see below)
Start of signal output:	approximately 1 l/min

A1: TDHK-25l/PP (Cable)



BN = brown
GN = green
WH = white

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meister strömungstechnik gmbh
Im Gewerbegebiet 2
63831 Wiesen
Germany
Tel.: +49 (0) 6096 / 97 20 - 0
Fax: +49 (0) 6096 / 97 20 - 30
E-Mail: Info@meister-flow.com
Internet: www.meister-flow.com