

Flowmeter

DHSF-2

DHSF-4



OVERVIEW

Operation

- Impeller

Application

- Mechanical engineering
- Chemical industry
- Research & Development

Features

- Universal orientation
- High accuracy
- Pulse output
- Hose connection

Installation information

- The installation of the flowmeter can be done in any way in the system. The optimum aeration will be achieved when mounted vertically. 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.	6 bar (POM version)
	10 bar (ECTFE version)
Burst pressure (22 °C)	> 15 bar (POM version)
	> 30 bar (ECTFE version)
Operating temperature	0 °C - 80 °C
Measuring accuracy	± 2 % of measured value ⁽¹⁾
Repeatability	< ± 0,8 % of measured value ⁽¹⁾
Viscosity range	1 - 10 cSt
Sensing principle	Hall effect, contact-free measuring technique

⁽¹⁾ Under the same operating conditions

MEASURING RANGES

Type	Measuring range for H₂O at 22 °C
	l/h
DHSF-2	1,5 – 100
DHSF-4	6 – 250

MATERIALS

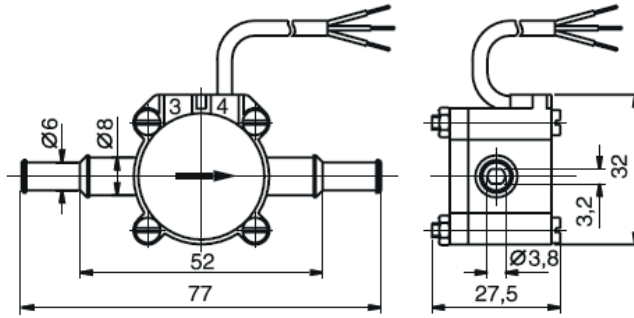
POM version	
Sensor housing:	POM
Impeller:	POM
Bearing (spigot bearing)	
Axle / Bearing:	Corepoint® / POM
Magnets:	sintered ceramic
O-Rings:	FKM or EPDM ⁽²⁾
Weight:	approx. 45 g
Process connection:	Hose connection
DHSF-2	6 mm / 8 mm
DHSF-4	9 mm

ECTFE version	
Sensor housing:	ECTFE
Impeller:	ECTFE
Bearing (spigot bearing)	
Axle / Bearing:	Sapphire / Ruby
Magnets:	ECTFE - encapsulated
O-Rings:	FKM or EPDM ⁽²⁾
Weight:	approx. 50 g
Process connection:	Hose connection
DHSF-2	6 mm / 8 mm
DHSF-4	9 mm

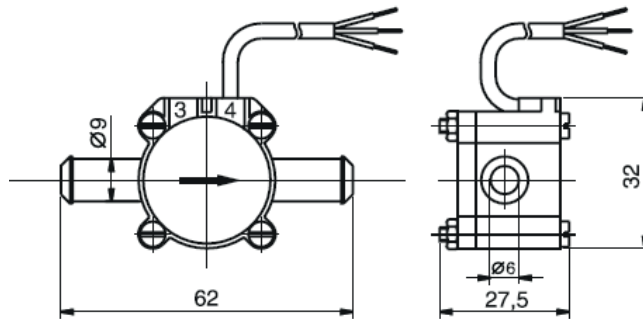
⁽²⁾ FKM: green color code / EPDM: black color code / KALREZ® (optional): white color code

TECHNICAL DRAWING

DHSF-2



DHSF-4



ELECTRICAL DATA

Power supply	4,5 - 24 VDC
Output signal	Square wave push-pull output stage
Max. output current (at 24 V)	11 mA

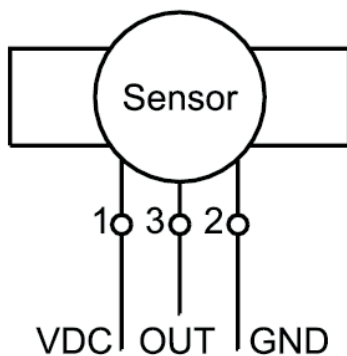
ELECTRICAL CONNECTION

- Cable (1 m)
Round cable 3 x 0,14 mm² LIYY

Ingress Protection

IP65

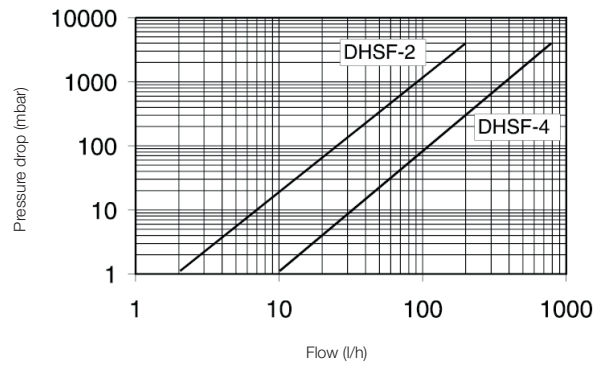
CONNECTION DIAGRAM



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

DIAGRAMS

Pressure drop diagram



Pulse characteristic curve

