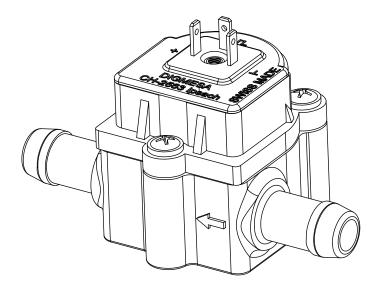
DATA SHEET





FHKU hose nipple Part number: 938-3570/01

Digmesa AG, Keltenstrasse 31, CH—2563 Ipsach / Switzerland Phone +41 (32) 332 77 77, Fax +41 (32) 332 77 88 www.digmesa.com Version 02 FHKU Schlauchnippel 012/011 #938-3570/01 GB Seite 1-4

General Description

The FHKU Flowmeter is a general-purpose device. It is employed for measuring, regulating or metering and guarantees most precise measurement of fluid quantities. In addition, a pulse generator integrated into the flowmeter guarantees a practically unlimited useful life.

Specific applications: Linear inlet and outlet, compact design.

Approvals / Standards

EN55014-1:00+A1:01+A2:02, EN61000-6-3:01+A11:04, IEC61000-6-3:06(ed.2.0), EN61000-3-2:06, IEC61000-3-2:05(ed.3.0), EN61000-3-3:95+A1:01+A2:05, IEC61000-3-3:94+A1:01+A2:05(Cons.ed 1.2) EN55014-2:97+A1:01, EN61000-6-1:01, IEC61000-6-1:05(ed.2)



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Material:	
Housing:	PBT 35%GF
Bearing pin:	Inox 1.4305
Nozzle:	Ø 7.0mm like housing
O-ring:	MVQ (Silikon)
	FPM (Viton) / EPDM on request

PVDF 2 Magnets Ceramic Sr Fe O

PT-screws

(in contact with the medium)

(Phillips cross recessed)

Turbine:

Magnete:

Screws:

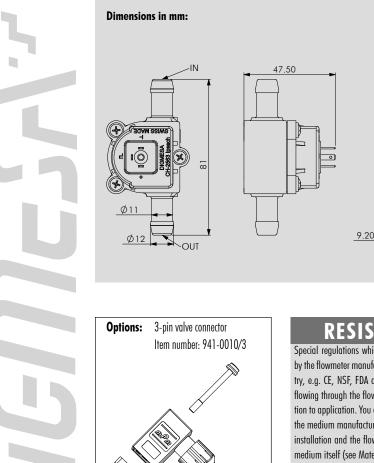
Flow rate:	1.4 - 25 l/min			
Continuous operation:	turbine ${<}500~{ m rpm}$			
Measuring accuracy:	+/- 2.0%			
Repetition:	<+/- 0.25%			
Temperature range:	-10°C to +65°C 14°F to 149°F			
Pressure range:	20 bar at 20°C 290 psi /68°F			
Mounting position:	Horizontal *			
Nozzle size:	Ø 7.0 mm			

Tochnical data

Electrical connection ratings:					
Power supply:	+3.8 to $+24$ VDC				
Consumption:	<8 mA				
Signal connection:	Open collector NPN				
Signal voltage:	0 VDC GND (saturation <0.7 V)				
Signal load:	max. 20 mA				
Leakage current:	max. 10 μ A				
Connections:	3-pin AMP 2.8 x 0.8 mm				
Signal:	Square-wave output				
Duty Cycle:	~50%				

* Horizontal position is, when this side

is facing up.



We reserve the right to make modifications in the interests of technical progress

RESISTANCE

Special regulations which must be complied with medium itself (see Material)!

ELECTRONIC

DIGMESA electronic circuitry is always designed for operation with DIGMESA flowmeters. Please note the following if connecting to other elec-

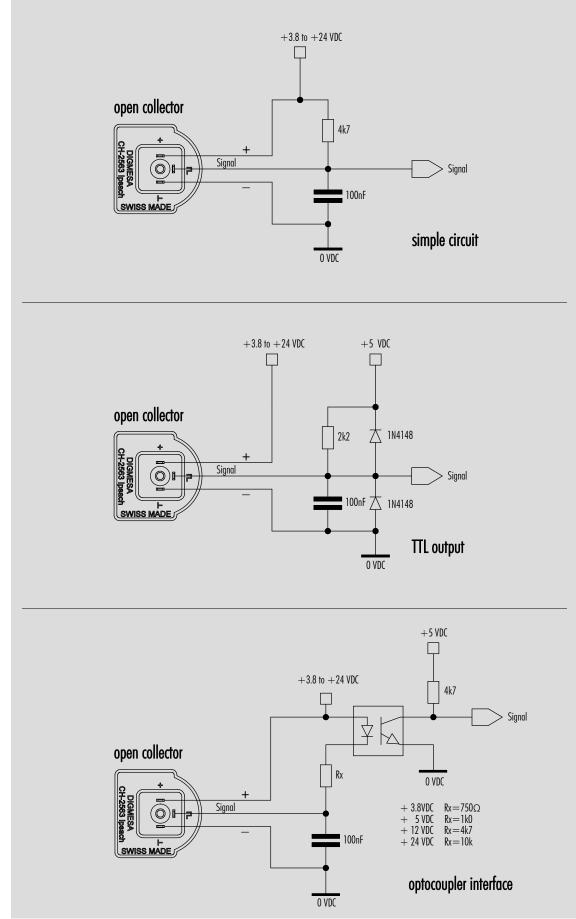
voltage but switches the signal terminal to 0 V ground (actuated) or leaves it open (non-actu-

• There must be a pull-up resistor between power supply + and signal depending on electronic circuitry!

Wersion 02 FHKU Schlauchnippel Ø12/Ø11 #938-3570/01 GB Seite 2-4

by the flowmeter manufacturer apply to each country, e.g. CE, NSF, FDA and SK. The various media tronic circuitry: flowing through the flowmeter differ from applica-• The flowmeter does not supply an output tion to application. You are advised to enquire with the medium manufacturer as to whether the entire installation and the flowmeter are resistant to the ated)

Interface Connection: Examples Open Collector

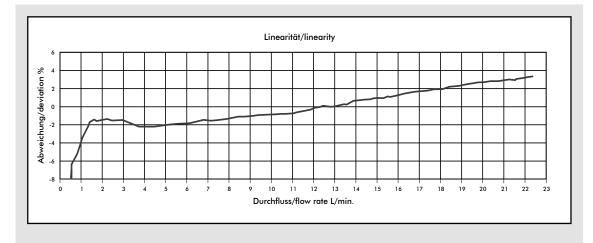


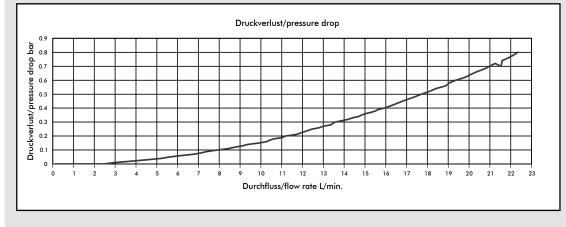
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Measurement Curve FHKU Hose connection 7.00 mm





Getestet mit Wasser, max. Druck: 3.3 bar / Tested with water, max. pressure 3.3 bar

Nozzle size	Pulses/litre	g/pulse	min. flow rate in [litres/min] at linear start	max. flow rate in [litres/min]	Pressure loss in [bar]
Ø 7.00 mm	165	6.06	1.40	18.0	0.54

The values specified must be considered as approximate values.

The number of pulses per litre may differ depending on medium and installation. We recommend to calibrate the number of pulses per litre in line with the complete installation.

MEASUREMENT TIPS

- Ensure that there is no fast-pulsatory movement of the media
- Ensure that there are no reverse pressure surges
- Ensure that there is no air in the system
- Keep the pressure loss as small as possible
- Note the mounting position of the flowmeter
- Min/max flow should be in the linear range of the selected flowmeter
- Clean the system at appropriate intervals
- Avoid electrical current peaks
- Incorrect cabling of power supply +, signal and ground will destroy the flowmeter
- Do not mechanically load electrical contacts
- Avoid moisture on the electrical contacts
- Avoid stray pick-up via the cable (Do not lay cables in parallel with high current loads)

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