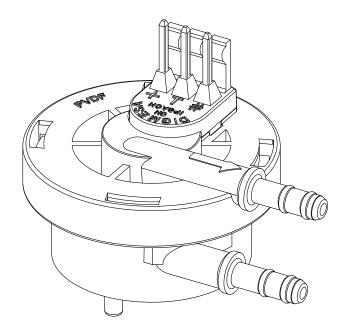
DATA SHEET





FHKSC PVDF using fastening pin Ø4.0mm hose nipple with double isolation Part number: 932-A305/E180x

Digmesa AG, Keltenstrasse 31, CH—2563 Ipsach / Switzerland Phone +41 (32) 332 77 77, Fax +41 (32) 332 77 88 www.digmesa.com Version

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General Description

The FHKSC Flowmeter is a general-purpose device. The device is installed between the tank container and the vibratory pump (on the suction side) and in this way prevents the measuring errors that arise during pulsating flow caused by vibratory pumps.

Specific applications: Thanks to its closure system, the water outlet side can be assembled in four different positions. Central sprayed fastening pin Ø 2.8mm x 7.5mm. Recommended washer

Material:

Nozzle:

0-ring:

Turbine:

disk: Quicklock[®] Benzing Ø 3mm or Starlock P-6490 Ø 3mm.

Employed in the semiconductor (wafer polishing) sector due to the high purity of materials used.

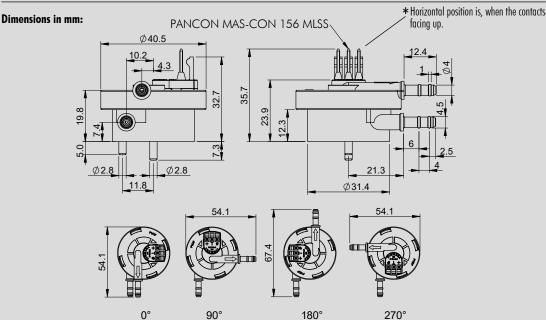
Doubled isolation (liquid/electronics) according to the standard IEC/EN 60335-1: 2001/2002 + A1: 04+A2: 06+A11: 04+A12:06.

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)

CE

Technical data: Electrical connection ratings: PVDF Housing: Flow rate-0.071 - 0.48 l/min Power supply: +3.8 to +24 VDC Injection-moulded like the Continuous operation: Turbine < 500 rpm Consumption: < 8 mABearing pin: housing Measuring accuracy: +/-2.0%Signal connection: Open collector NPN Injection-moulded like the Repetition: <+/- 0.25% Signal voltage: O VDC GND housing (saturation < 0.7 V) -10°C to $+65^{\circ}$ C Temperature range: EPDM 14°F to 149°F Signal load: max. 20 mA PVDF Pressure range: -1 bar to 0.3 bar at 20°C Leakage current: max. 10 μ A Magnets: 2 or 4 magnets -14.5 psi to 4.35 psi /68°F PANCON MAS-CON Connections: (not in contact with the medium) Mounting position: Horizontal * 156 MISS Ø 1.0 mm Signal: Nozzle size: Square-wave output



RESISTANCE

Special regulations which must be complied with by the flowmeter manufacturer apply to each country, e.g. CE, NSF, FDA and SK. The various media flowing through the flowmeter differ from application to application. You are advised to enquire with the medium manufacturer as to whether the entire installation and the flowmeter are resistant to the medium itself (see Material)!

ELECTRONIC

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

• The flowmeter does not supply an output voltage but switches the signal terminal to 0 V ground (actuated) or leaves it open (non-actuated)

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

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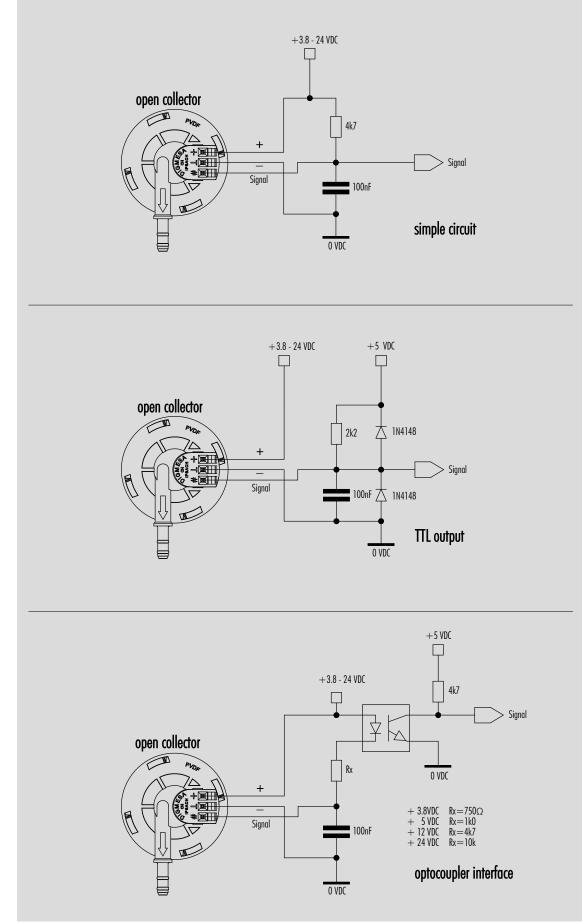
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We reserve the right to make modifications in the interests of technical progress

Duty Cycle:

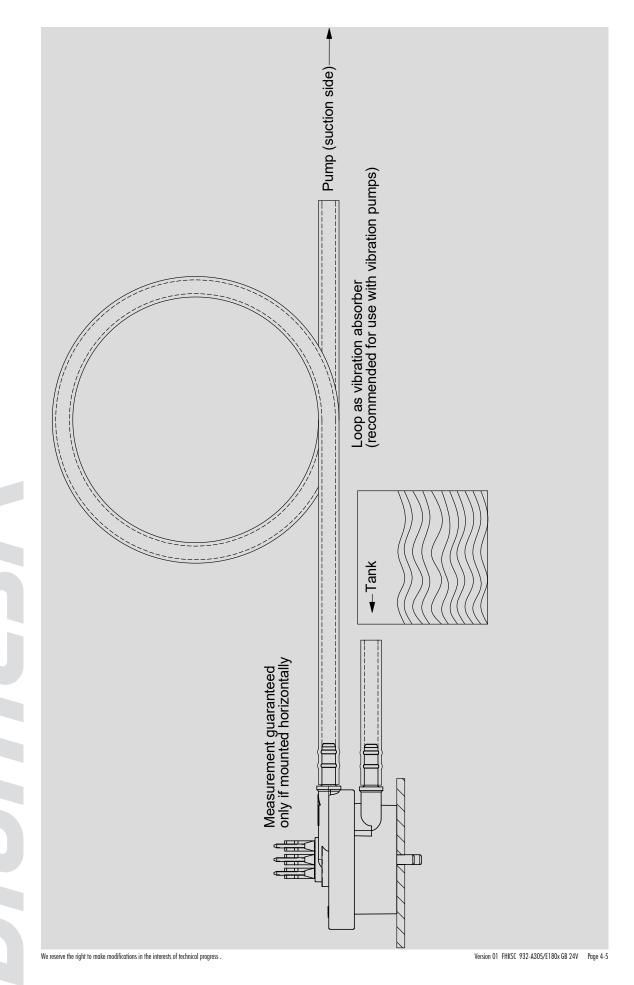
 \sim 50%

Interface Connection: Examples Open Collector



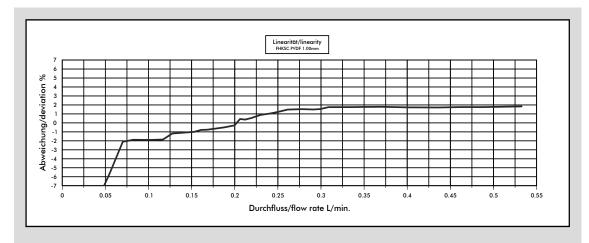
We reserve the right to make modifications in the interests of technical progress

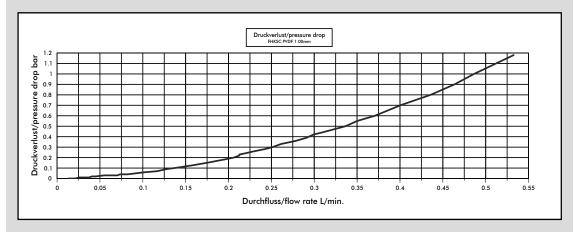
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Measurement Curve FHKSC 1.00 mm 180°





Medium: Water / max. Pressure: 1 bar (Arnite Daten)

#932-A305/E1802 (2 Magnets Turbine)

Nozzle size	Pulses/ Litre	g/pulse	min. flow rate [l/min]	max. flow rate [l/min]	Pressure loss
Ø 1.0 mm	2701	0.37	0.07	0.48	1.0

#932-A305/E1804 (4 Magnets Turbine)

Nozzle size	Pulses/ Litre	g/pulse	min. flow rate [l/min]	max. flow rate [l/min]	Pressure loss
Ø 1.0 mm	5402	0.18	0.07	0.48	1.0

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)

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

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