DIGMESA FHKU - THE ALL-ROUNDER LIQUID FLOW SENSING SOLUTION

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A WORLD OF FLOW


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Battery

Flow Sensor FHKU Technical Information

The universal Classicline FHK or FHKU is used in practically every imaginable field, such as in the foodstuffs, chemical, industrial and semiconductor sectors. The two versions differ in the position of their connections: In the FHK, they are side by side, while in the FHKU, they are opposite each other. This flow sensor is available in many different configurations and can easily be adapted to meet special customer requirements. The newly developed ceramic bearing is also suitable for applications requiring continuous day-and-night operation.

The Classicline FHK and FHKU are also available with a display to enable simple, direct monitoring of the flowing medium. This display can be integrated into the upper part of the device, or it can be delivered separately and connected via a cable. This device is ideal for applications such as checking for compliance with maintenance cycles in water filters due to its many functions, such as count-down, count-up, display of instantaneous flow rate, timed control and data storage.

Flow Rate l/min

Nozzle	Min	Max
1.0 mm	0.041	0.56
1.2 mm	0.050	0.82
2.0 mm	0.091	2.40
2.5 mm	0.150	3.74
3.0 mm	0.102	5.63
4.0 mm	0.123	8.38
5.6 mm	0.308	9.26
7.0 mm	1.40	11.50
10.0 mm	3.00	29.23

Output Signal

Pulse

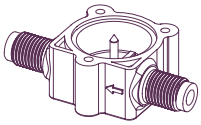
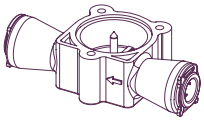
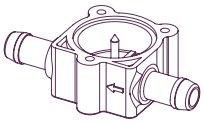
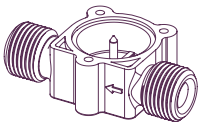
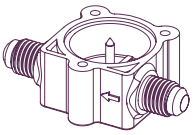
Material

PBT PPS and PA (Fiberglass Reinforcement), PVDF

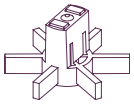
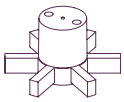
Application examples

Chemistry, Industry, Semiconductor Industry, Beverage

Housing Material	FHKUC	FHKU	FHKU flat	FHKU Chemistry	FHKU HighFlow
PBT (Fiberglass Reinforcement)	STD	STD	STD	–	STD
PPS (Fiberglass Reinforcement)	•	•	–	–	•
PA (Fiberglass Reinforcement)	•	•	–	–	•
PVDF	–	–	–	STD	•

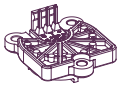
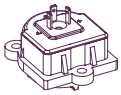
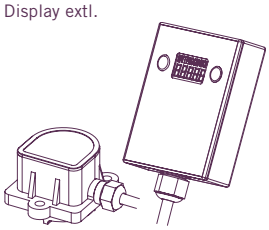
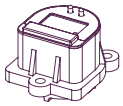
Process Connection	FHKUC	FHKU	FHKU flat	FHKU Chemistry	FHKU HighFlow
G1/4" BSP m/m (max. nozzle size Ø 5.6 mm) 	STD	STD	STD	STD	STD
John Guest 3/8" f/f (max. nozzle size Ø 5.6 mm) 	•	•	•	–	•
hose nipple Ø 12.0 mm / Ø 11.0 mm m/m (fixed nozzle size Ø 7.0 mm) 	•	•	•	–	•
G1/2" BSP m/m (fixed nozzle size Ø 10.0 mm) 	•	•	•	•	•
Cola BSF 1/2" m/m (max. nozzle size Ø 5.6 mm) 	•	•	•	–	•

O–Ring					
Silicone	STD	STD	STD	–	STD
EPDM	•	•	•	•	•
Viton	•	•	•	STD	•
Kalrez	–	–	–	•	–

Turbine					
PVDF FT 36 2M (wetted magnets) 	STD	STD	STD	–	–
					
PVDF Chem. 2M (sealed magnets)	•	•	•	STD	STD
PVDF Chem. 4M (sealed magnets)	•	•	•	•	•

Bearing Pin	FHKUC	FHKU	FHKU flat	FHKU Chemistry	FHKU HighFlow
Inox 1.4305	STD	STD	STD	–	–
Inox 1.4571	•	•	•	–	–
PCTFE	–	–	–	STD	–
Ceramic	–	–	–	–	STD

Nozzle				Nozzle PTFE	
					
1.0 mm / PPS	•	•	•	•	•
1.2 mm / PPS	•	•	•	•	•
2.0 mm / PPS	•	•	•	•	•
2.5 mm / PPS	•	•	•	•	•
3.0 mm / Inox 1.4305	•	•	•	•	•
4.0 mm / Inox 1.4305	•	•	•	•	•
5.6 mm / like housing lower part	STD	STD	STD	STD	STD
7.0 mm / like housing lower part	•	•	•	–	•
10.0 mm / like housing lower part	•	•	•	•	•

El. Connection					
Pancon Mas–Con 	STD	–	–	–	–
3 pin amp 	–	STD	STD	STD	STD
Resistor 1.2k	•	•	•	•	•
3 pin amp LED	–	•	–	•	-
3 pin amp PNP	–	•	–	•	•
3 pin amp PNP/LED	–	•	–	•	-
Cable	–	•	•	•	-
Empty Detection	–	•	–	–	-
Thermo	–	•	–	•	•
Display extl. 	–	•	–	•	-
Display intl. 	–	•	–	–	–

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All measurements have been taken under ideal laboratory conditions.

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