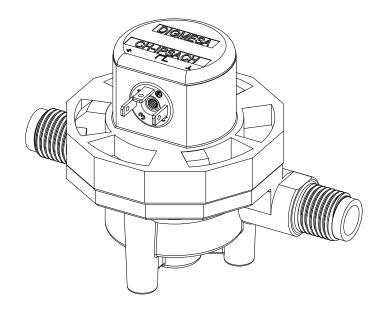
DATA SHEET





FFG 60 PVDF Part number: 934-2360

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General Description

The FFG 60 Flowmeter is a general-purpose device; its working range can be individually defined according to the nozzle size. 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. Special features: able to withstand high temperatures, good resistance to chemicals. Compact design, great working range, depending on the nozzle diameter. Inlet and outlet are freely selectable without a nozzle. With a nozzle, the inlet is always on the same side as the nozzle. Employed in the semiconductor (wafer polishing) sector due to the high purity of materials used.

Approvals / Standards

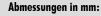
EN55014-1:00+A1:01+A2:02, EN61000-6-3:01+A11:04, IEC61000-6-3:06(ed.2.0), EN61000-3-2:06, IEC61000-3-2:05(ed.3.0), EN61000-3-3:95+A1:01+A2:05, IEC61000-3-3:94+A1:01+A2:05(cons.ed 1.2), EN55014-2:97+A1:01, EN61000-6-1:01, IEC61000-6-1:05(ed.2)

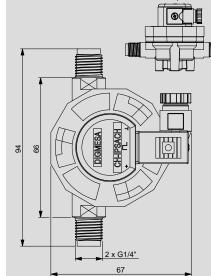


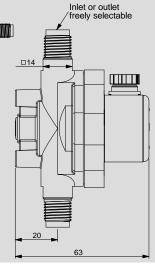
Material:		Technical data:		Electrical connection ratings:	
Housing:	PVDF	Flow rate:	0.021 - 15.75 l/min depen-	Power supply:	3.8–24 VDC
Bearing pin:	PCTFE		ding on the nozzle diameter	Consumption:	< 20.1mA
Nozzle:	PTFE	Speed:	max. 500 rpm	Signal connection:	Open collector NPN
O-ring:	FPM (Viton)	Measuring accuracy:	+/- 2.0%	Signal voltage:	0 VDC GND
Ū	EPDM / Kalrez on request	Repetition:	<+/- 0.25%	U U	(Sättigung $<$ 0.7 V)
Turbine:	PVDF 4 Magnets 2 Magnets on request	Temperature range:	-10°C to +100°C 14°F to 212°F	Signal load:	max. 20 mA
				Leakage current:	max. 10 μ A
Magnets:	Keramik Sr Fe O (not in contact with the medium)	Pressure range:	5.5 bar at 20°C 79 psi /68°F Horizontal *	Connections:	3Pin- AMP 2.8 x 0.8 mm
	,	Mounting position:		Signal:	Rechteck-Ausgang
Flat cap spinell	ll: Spinell blue (MgO 3.5 Al2 O3)			Duty Cycle:	~50%
		Nozzle size:	Ø 1.0, 2.0, 3.0, 4.0, 6.0mm		

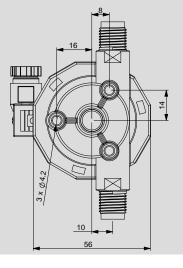
*Horizontal position is, when this side

is facing up.











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



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)

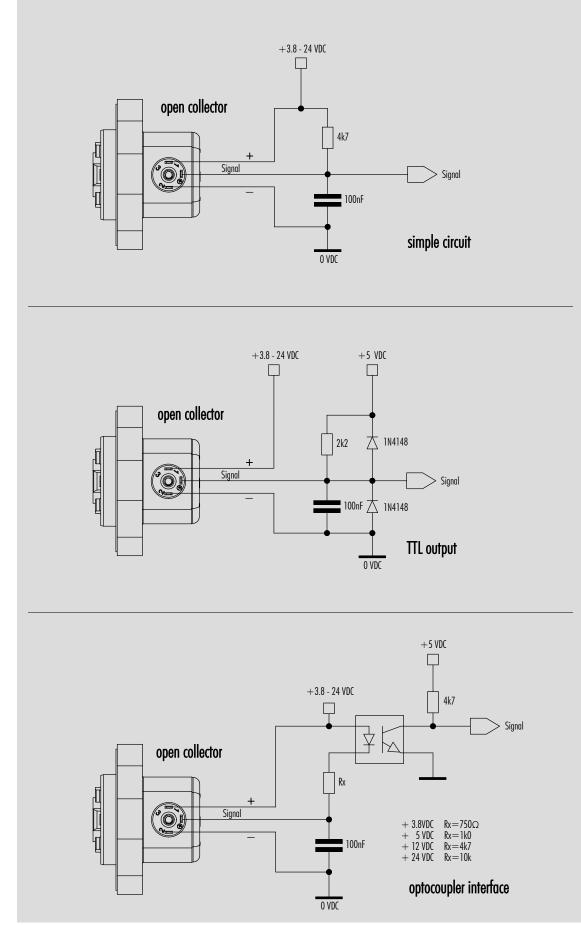
• There must be a pull-up resistor between power supply + and signal depending on electronic circuitry!

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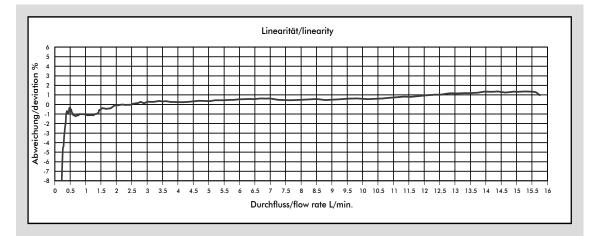
Interface Connection: Examples Open Collector

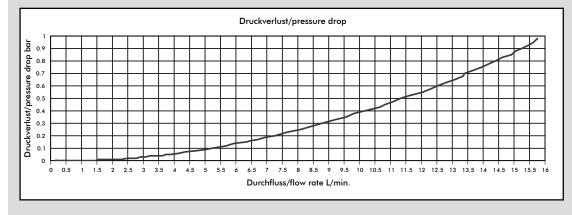


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Measurement Curve FF PVDF Ø6.00 mm 4 Magnet





Medium Wasser / max. Druck: 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 1.00 mm	3413	0.3	0.02	0.59	1.0
Ø 2.00 mm	1687	0.6	0.05	2.35	1.0
Ø 3.00 mm	1045	0.9	0.11	5.65	1.0
Ø 4.00 mm	721	1.4	0.17	9.10	1.0
Ø 6.00 mm	382	2.6	0.35	15.75	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)

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