DATA SHEET



DiGINESA

FFB 50 Arnite Part number: 934-1550

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General Description

The FFB 50 Flowmeter is a general-purpose precision device. It measures with constant precision and guarantees maximum accuracy in the measurement of fluid volumes. Its integrated electronic pulse emitter gives an additional guarantee for a practically unlimited useful life. This flowmeter is employed with great success in beer and premix dispensing systems. In addition to this, it can measure spirits or chemically-aggressive products and therefore finds much use in the most varied of industrial sectors just as accurately.

Special features: By means of its special jewelled bearing, its fitting position can be freely selected. Inlet and outlet are freely selectable. Using a 5/8" wing-nut, direct fitting onto the keg is feasible.

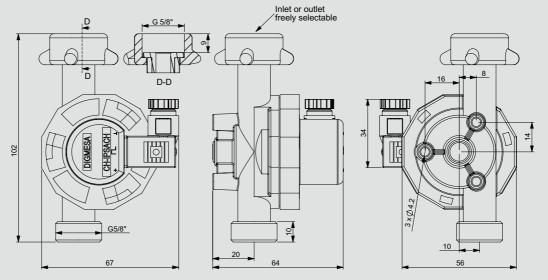
Approvals / Standards

EN 50081-1:92,EN 50082-1:97, EN 61000-3-2:00, EN 61000-3-3:95, IEC 61000-6-3:96, IEC 61000-6-1:96, IEC 61000-3-2-00, IEC 61000-3-3:94 + A1:01



Material:		Technical data:		Electrical connection ratings:	
Housing:	PBT 35%GF (Arnite)	Flow rate:	0.34 - 11.5 I/min	Power supply:	4.5-24 VDC
Bearing pin:	Inox 1.4404, Ruby	Measuring accuracy:	+/-2.0%	Consumption:	5 mA to max.13 mA
O-ring:	MVQ (Silikon)	Repetition:	< +/- 0.25%	Signal connection:	Open collector NPN
Turbine:	PVDF	Temperature range:	-10° C to $+65^{\circ}$ C	Signal voltage:	O V GND
Magnets:	Ceramic Sr Fe O		14°F to 149°F	Signal load:	max. 20 mA
	(not in contact with the medium)	Pressure range:	5.5 bar at 20°C 79 psi /68°F	Leakage current:	max. 10 µA
Flange:	Inox 1.4301	Mounting position: Nozzle size:	freely selectable Ø 5.0mm	Connections:	3-pin AMP 2.8 x 0.8 mm
				Signal:	Square-wave output
				Duty Cycle:	50% / ±5%

Dimensions in mm:





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

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

ELECTRONIC

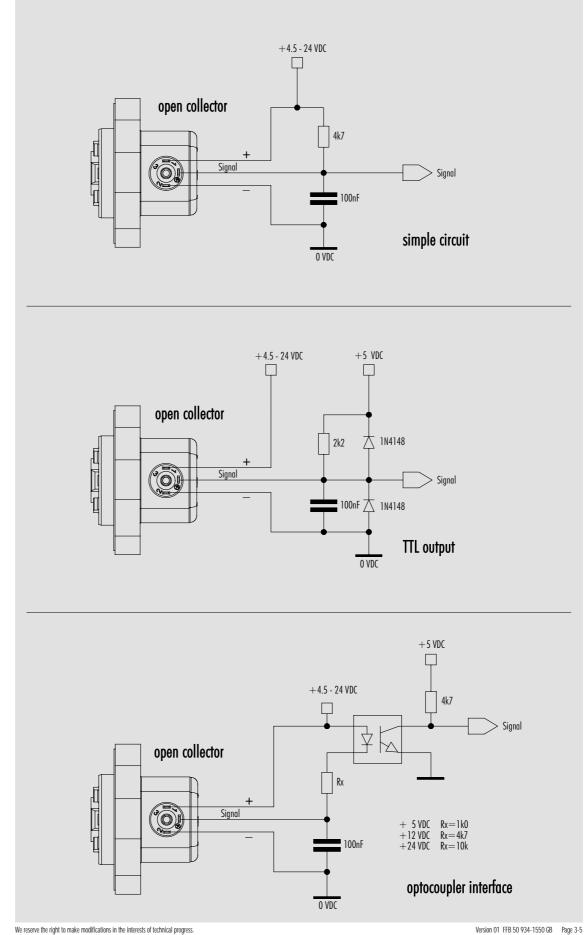
DIGMESA electronic circuitry is always designed for operation with DIGMESA flowmeters. Please note the following if connecting to other electronic circuitry:

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

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

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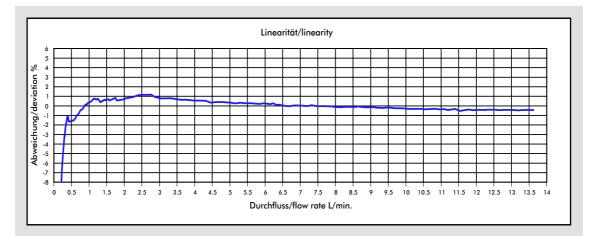
Interface Connection: Examples Open Collector

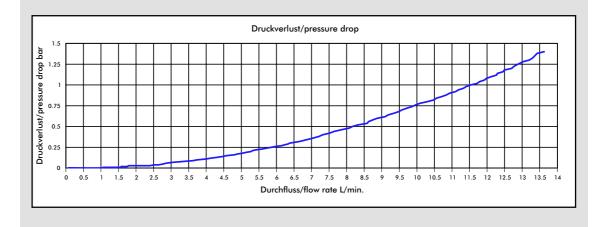


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Measurement Curve FF Ø5.00 mm





Medium: 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
Ø 5.00 mm	247	4.0513	0.3464	11.50	1.00

The min. and max. flow rate and the pressure loss may vary depending on viscosity.

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.

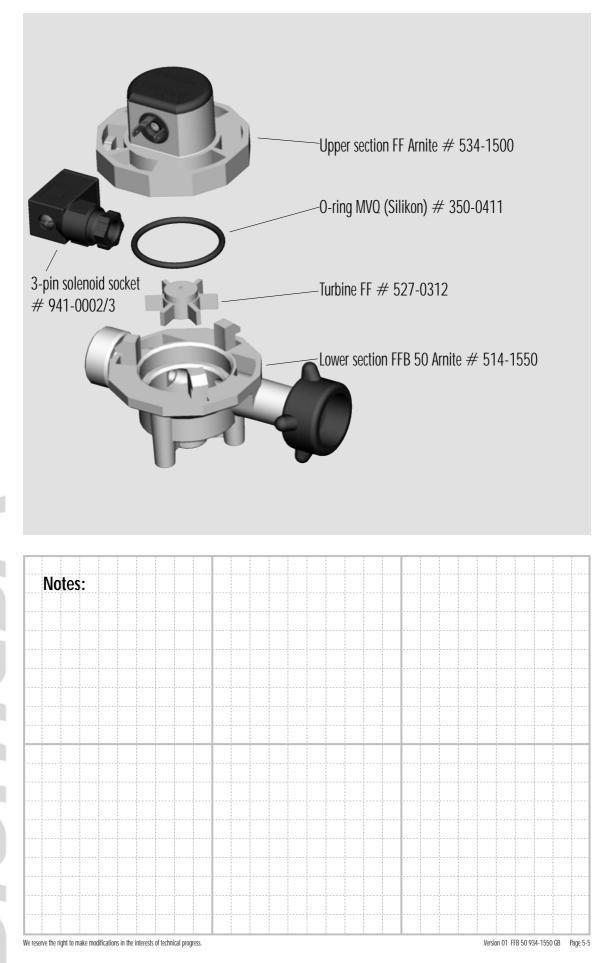
MEASUREMENT TIPS

- 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
- 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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Spare parts:



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