DATA SHEET



DiGMESA

FFC 40 Arnite Part number: 934-0540

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Version 01 FFC 40 934-0540 GB Page 1-5

General Description

The FFC 40 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

Material:

Housing:	PBT 35%GF (Arnite)
Bearing pin:	Inox 1.4404, Ruby
0-ring:	MVQ (Silikon)
Turbine:	PVDF
Magnets:	Ceramic Sr Fe O (not in contact with the medium)

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.

0.22 - 7.75 l/min

< + /- 0.25%

14°F to 149°F

5.5 bar at 20°C 79 psi /68°F

freely selectable

Inlet or outlet

Ø 4.0mm

Technical data: Flow rate:

Repetition:

Pressure range:

Nozzle size:

Mounting position:

Measuring accuracy: +/-2.0%

Temperature range: -10° C to $+65^{\circ}$ C

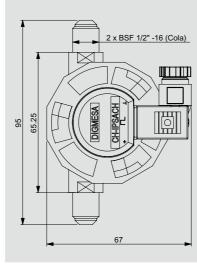
Approvals / Standards

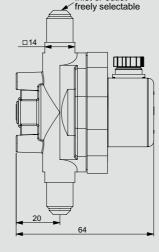
EN 50081-1:92,EN 50082-1:97, EN 61000-3-2:00,EN 61000-3-3:95, IEC 61000-6-3:96,IEC 61000-6-1:96, IEC 61000-3-2-00,IEC 61000-3-3:94 + A1:01

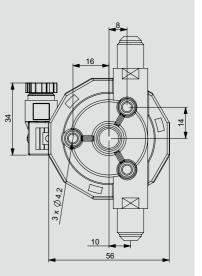


Electrical connec	Electrical connection ratings:					
Power supply:	4.5–24 VDC					
Consumption:	5 mA to max.13 mA					
Signal connection:	Open collector NPN					
Signal voltage:	O V GND					
Signal load:	max. 20 mA					
Leakage current:	max. 10 µA					
Connections:	3-pin AMP 2.8 x 0.8 mm					
Signal:	Square-wave output					
Duty Cycle:	50% / $\pm 5\%$					

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 medium itself (see Material)!

ELECTRONIC

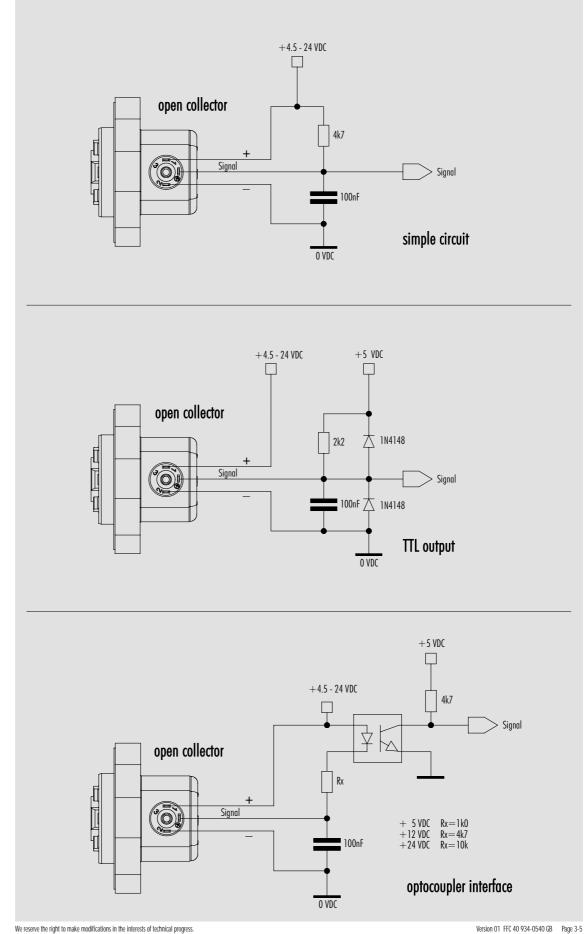
DIGMESA electronic circuitry is always designed for operation with DIGMESA flowmeters. Please note the following if connecting to other electronic circuitry:

• 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!

Version 01 FFC 40 934-0540 GB Page 2-5

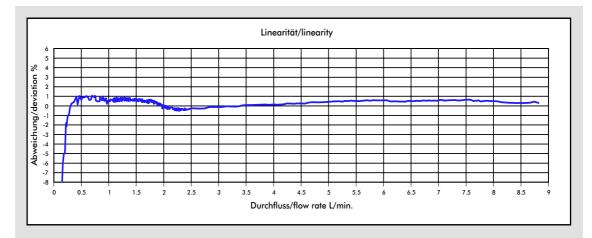
Interface Connection: Examples Open Collector

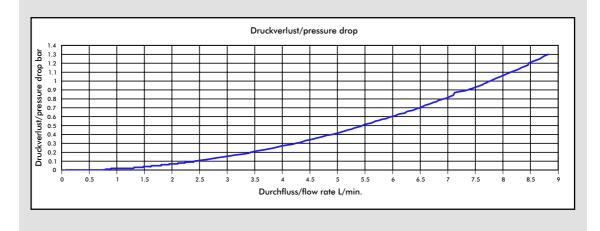


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Measurement Curve FF Ø4.00 mm





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 4.00 mm	343	2.9132	0.2203	7.75	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.

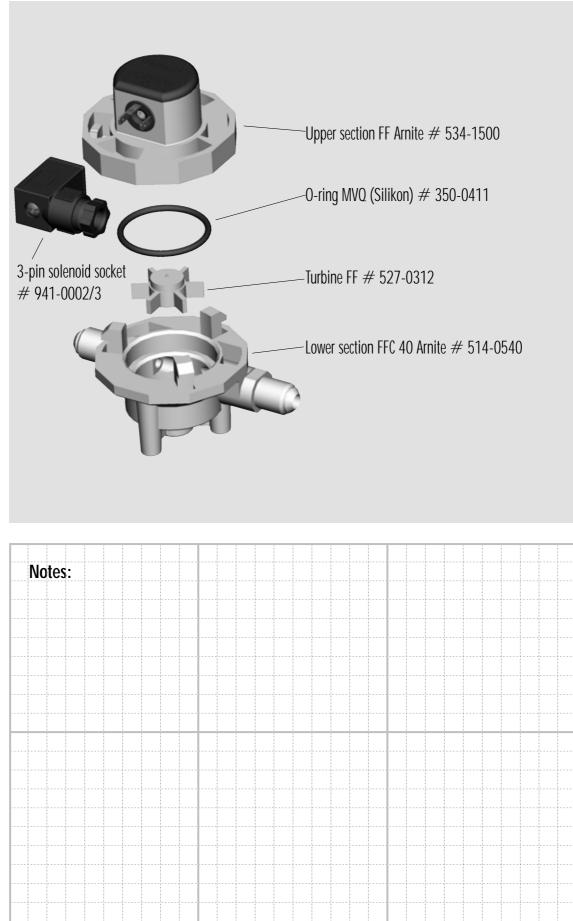
MEASUREMENT TIPS

- 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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Version 01 FFC 40 934-0540 GB Page 4-5

Spare parts:



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Version 01 FFC 40 934-0540 GB Page 5-5

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