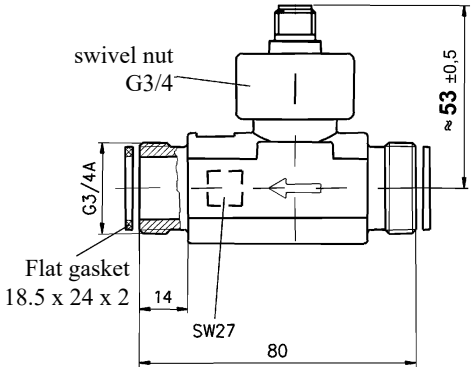
Axial turbine flowmeter for liquids FVA 915 VTHM





- For measuring the volume flow rate or for dosing tasks with small flow rates.
- Extraordinary compact design.
- Wide, usable measuring range.
- Various options for operation: Cooling water flow, medical technology, plastics industry, solar systems, baker‘s equipment, machine tools, catering equipment, photographic laboratory equipment, dispensers, dosing equipment, cooling equipment, heating applications, calorimetry.

Technical Data:

Nominal diameter	DN 15
Measuring range	2 to 40 l/min continuous load max. 20 l/min
Measuring accuracy	±1 % of finale value
Reproducibility	± 0.2 %
Signal output	from 0.3 l/min
max. size of particles in medium	0.5 mm
temperature of medium	0...85 °C (non-freezing)
Nominal pressure	PN10
Process connection	G ¾“ external thread and union nuts
Pressure loss in bar	$\Delta p = 0.00145 \times Q^2$ (Q in l/min) approx. 0.6 bar at 20 l/min approx. 2.3 bar at 40 l/min
Protection system	IP 54
Output signal Pulse rate / K factor Resolution	 940 pulses / liter 1.1 ml / pulse
Signal form	rectangular signal, NPN, open collector
Measuring transducer	Hall sensor
Supply voltage	4.5 ... 24 V DC (from ALMEMO® device)
Electrical connection	4-pin connector M 12 x 1 including PVC line (Tmax =70 °C) with ALMEMO® connector
Materials	
pipe section	brass CuZn36Pb2As
Flat gasket	NBR
Turbine cage	PEI ULTEM
Rotating vane	PEI ULTEM
Rotor complements	hard ferrite magnets
Axle / bearing	axle Arcap AP1D with hard metal pins in sapphire bearings
Bearing support	Arcap AP1D
Sensor	PPO Noryl GFN3
O-ring	NBR
Knurled swivel nut *	PA GF 30

* not coming into contact with the medium

Types

	Order no.
incl. connecting cable, 6 m long with ALMEMO® connector, turbine body made of brass	**FVA915VTHM**

DAkkS accredited calibration KV91xx, flow rate, for digital probes, see chapter „Calibration certificates“.
The DAkkS accredited calibration fulfills the requirements of DIN EN ISO/IEC 17025 for test equipment.

Other designs are available on request

Axial turbine flowmeters FVA915VTPx for water up to 150 °C, 300 bar, 2 to 40 l/min Figure - similar to above

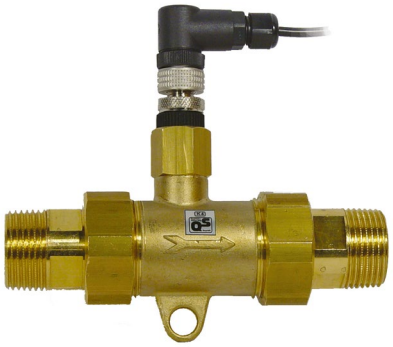
Magnetic-inductive flowmeters FVA 915 VMZx (new series VMZ.2) without moving parts, for small flow rates from 0.1 l/min and high flow rates up to 250 l/min

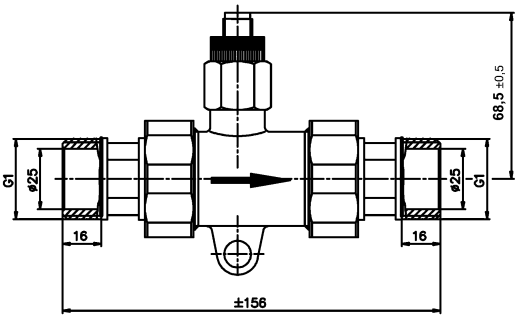


FVA 915 VMZ

11/2025 • We reserve the right to make technical changes.

Axial turbine flowmeter for liquids FVA 915 VTH25M





- For measuring the volume flow rate or for dosing tasks with large flow rates.
- Compact design.
- Wide useful operating range.
- Wide variety of applications:
- Cooling water flow, medical technology, plastics industry, solar systems, baker's equipment, machine tools, catering equipment, photographic laboratory equipment, dispensers, dosing equipment, cooling equipment, heating applications, calorimetry.

Technical Data

Nominal diameter	DN 25
Measuring range	4 to 160 l/min
Continuous load	max. 80 l/min
Measuring accuracy	±5 % of measured value up to 5 l/min ±7 % of measured value
Reproducibility	±0.5 %
Signal output	from < 1 l/min
max. size of particles in medium	0.63 mm
temperature of medium	0...85 °C (non-freezing)
Nominal pressure	PN10
Process connection	G 1¼" external thread including adapter for R 1" (absolutely necessary)
Pressure loss	approx. 0.1 bar at 80 l/min approx. 0.45 bar at 160 l/min
Protection system	IP 54
Output signal Pulse rate / K factor	65 pulses / liter

Resolution	15 ml / pulse
Signal form	NPN, open collector
Measuring transducer	Hall sensor
Supply voltage	4.5 ... 24 V DC (from ALMEMO® device)
Electrical connection	4-pin connector M 12 x 1 including PVC line (Tmax =70 °C) with ALMEMO® connector
Materials	
Pipe section	brass, CW602N
Turbine cage	PPO Noryl GFN 1630V
Rotation vane	PPO Noryl GFN 1520V
Rotor complements	Hard Ferrite Magnets
Axle / bearing	stainless steel 1.4539 / sapphire, PA
Sensor socket	PPO Noryl GFN 1630V
O-ring	EPDM

Type	**Order no.**
incl. connecting cable, 6 m long, with ALMEMO® connector, turbine body made of brass	**FVA915VTH25M**

DAkkS accredited calibration KV91xx, flow rate, for digital probes, see chapter „Calibration certificates".
The DAkkS accredited calibration fulfills the requirements of DIN EN ISO/IEC 17025 for test equipment.

Other designs are available on request

Axial turbine flowmeters FVA 915 VTH40 6.7 to 417 l/min, DN40 Figure - similar to above



Turbine flowmeters FVA 915 VTRx
Stainless steel, up to 120 °C, up to 250 bar for different flow rates from 1.8 l/min to 1133 l/min