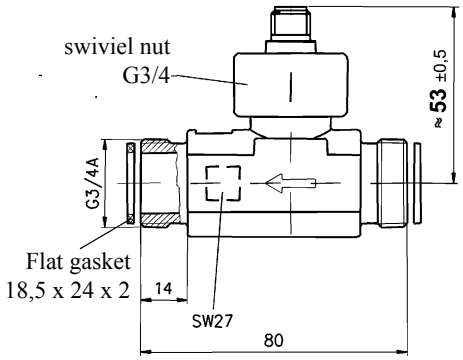
Axial turbine flowmeter for liquids FVA 915 VTH





- 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
maximum size of particles in medium	0.5 mm
maximum temperature of medium	85°C
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 M12x1 including PVC line (Tmax =70 °C) with ALMEMO® connector
Materials	
pipe section FV A915 VTH M FV A915 VTH K	 brass CuZn36Pb2As plastic PPONoryl GFN3
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 saphire 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, 6m long with ALMEMO® connector turbine body made of brass	**FVA915VTHM**
Turbine body made of plastic	**FVA915VTHK**

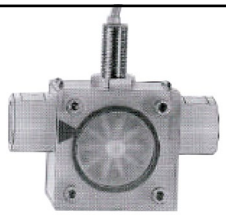
Factory calibration KV91xx flow for digital sensor (see chapter Calibration certificates)

Other designs are available on request

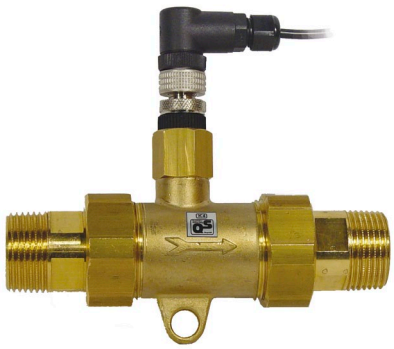
Axial turbine flowmeters FVA 915 VTWx for water-glycol mixture up to 150 °C, 25 bar, 2 to 30 l/min Figure - similar to above

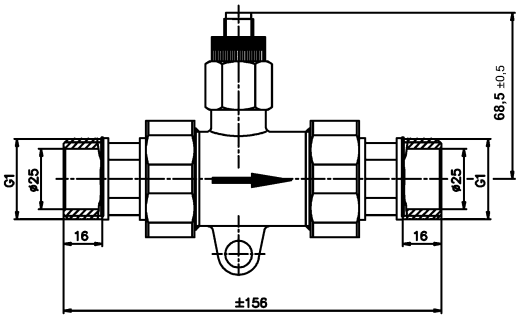
Axial turbine flowmeters FVA915VTPx for water up to 150 °C, 300 bar, 2 to 40 l/min Figure - similar to above

Radial turbine flowmeters FVA 915 VR10x for small flow rates 0.5 to 1.5 l/min or 1 to 4 l/min



Axial turbine flowmeter for liquids FVA 915 VTH25





- 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 5l/min ±7% of measured value
Reproducibility :	±0.5%
Signal output	from < 1 l/min
maximum size of particles in medium	0.63 mm
maximum temperature of medium	85°C
Nominal pressure	PN10
Process connection FVA915VTH25M	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 M12x1 including PVC line (Tmax =70 °C) with ALMEMO® connector
Materials	
Pipe section FV A915 VTH25M	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 / saphire, 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**
Factory calibration KV91xx flow for digital sensor (see chapter Calibration certificates)	

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



10/2013 • We reserve the right to make technical changes.