

Turbine flowmeter BAMOTUR



BAMOTUR 72R4



BAMOTUR 7901

- Range from 1.5 up to 1000 l/h
- Output signal: Pulse or 4-20 mA
- For aggressive or high grade liquids
- Small dimensions
- Materials: E-CTFE, PVDF or POM

APPLICATIONS

The BAMOTUR series is suitable to measure low flow-rates and for totalization, of neutral or aggressive liquids, in all industries.

The liquid may not contain particles and may not crystallize.

DESCRIPTION

A BAMOTUR consists of a turbine mounted on a shaft of sapphire or of stainless steel. The turbine is rotated by the dynamic pressure of the liquid in movement. Magnets are encapsulated in the turbine and activate an electronic Hall effect sensor inserted in the upper part of the flowmeter. The electronic part generates pulses, in relation to the speed of rotation.

Assembly recommendations:

Vertical mounting, flow in the direction of the arrow.

It is recommended to install a filter upstream, to avoid blocking the turbine (especially for low flow rates)

TECHNICAL FEATURES

Sensor, electronic	Hall Effect sensor, no wet parts
Supply power, according the model	or 4.5 ... 24 V DC; Max. 11 mA at 24 V or 12 ... 24 V DC; Max. 11 mA at 24 V or 10 ... 30 V DC
Output signal	Or square pulses, or 4-20 mA
Cable	3 x 0.14 mm ² - length 1 metre
Accuracy	±2 % full scale (F.S.)
Repeatability	< 0.8 % F.S.
Viscosity range	1 ... 10 cSt (Over 10 cSt: Calibration is necessary)
Operating pressure	According to the model
Operating temperature	-10 ... +55 °C
Body	Or E-CTFE, or PVDF, or POM
Axis	Or sapphire, or stainless steel
Seals*	FPM in standard; EPDM as an option
Mass	50 g up to 350 g (according the model)

* Note: A colored ring on the cable identifies the material of the seals, green for FPM, black for EPDM.

EC Conformity: The instrument meets the legal requirements of the current European Directives

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Turbine flowmeter
BAMOTUR

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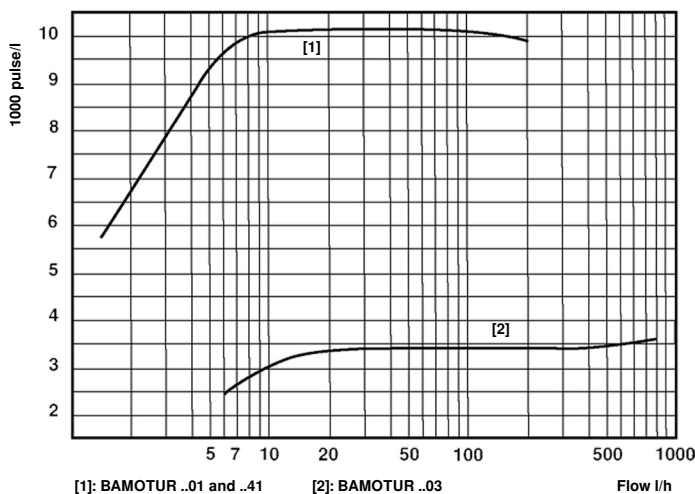
CODE NUMBERS AND REFERENCES

Code	Reference	Flow [l/h]	Materials		Pressure [bar]	Power supply V DC	Pulse output per litre *	Fittings	
			Body	Axis				Ends	Type
781 106	BAMOTUR 7201	1.5 ... 100	POM	Stainless steel	5	4.5 ... 24	10 200	No threads	B
781 111	BAMOTUR 7241	1.5 ... 100	POM	Stainless steel	5	4.5 ... 24	10 200	1/4"	C
781 128	BAMOTUR 7741	7...150	PVDF	Stainless steel	10	4.5 ... 24	10 200	1/4"	B
781 144	BAMOTUR 7901	1.5 ... 100	E-CTFE	Sapphire	10	12...24	10 200	1/4"	F
781 154	BAMOTUR 7903	6...250	E-CTFE	Sapphire	10	12...24	3 400	1/4"	F
781 158	BAMOTUR 72R4	30...1 000	POM	Stainless steel	5	4.5 ... 24	152	3/8"	D
781 258	BAMOTUR 472R4	50...1 000	POM	Stainless steel	5	10...30	4-20 mA output	3/8"	D

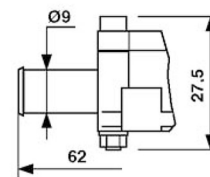
* These flowmeters have a non linear response over the entire possible measuring range (see diagramm Flow vs. Pulse)

DIMENSIONS AND SPECIFICITIES

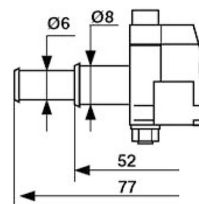
PULSE SIGNAL vs. FLOW-RATE



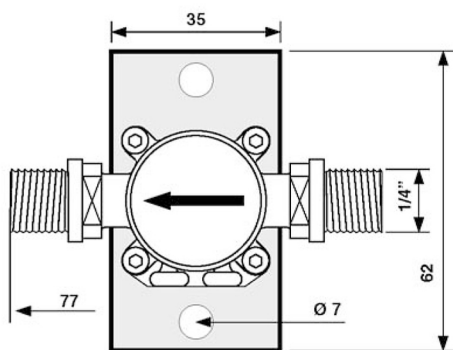
Type A



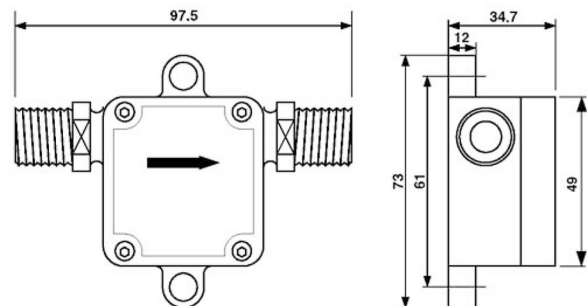
Type B



Type C and F



Type D



Unlike the type C (POM), type F (E-CTFE) have a 35x62 mm mounting plate (10 mm thick, with 2 bores Ø 7 mm).

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