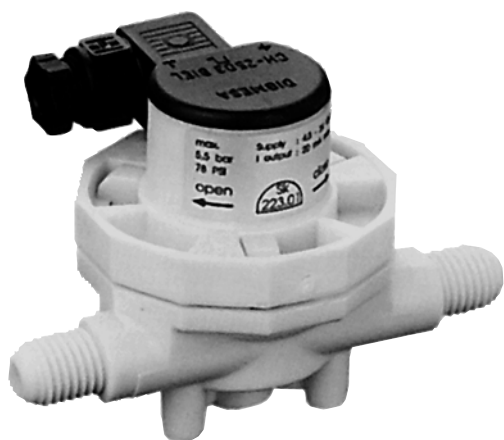


TURBINE FLOWMETER FFG



- Totalization and low flow measure
- Compact equipment
- PVDF, Polysulfon and arnite execution
- Easy dismantling
- Measure range: 6 to 720 l/h
- Accuracy $\pm 1\%$
- Frequency output: high resolution
- Connection 1/4" GM

PRINCIPLE

A PVDF turbine, climbing on axis in PCTFE is put in rotation by the dynamic pressure of the fluid exerted on its dawns. The fluid is directed through a buzzard of diameter injection gauged, what increases its clean speed and that the turbine.

Permanent magnets are inserted in the turbine and sue to their passage an electronic collector inserted in the part upper the flowmeter.

The electronic generates a proportional pulses train to the speed of rotation of the turbine and therefore to the flow crossing.

APPLICATIONS

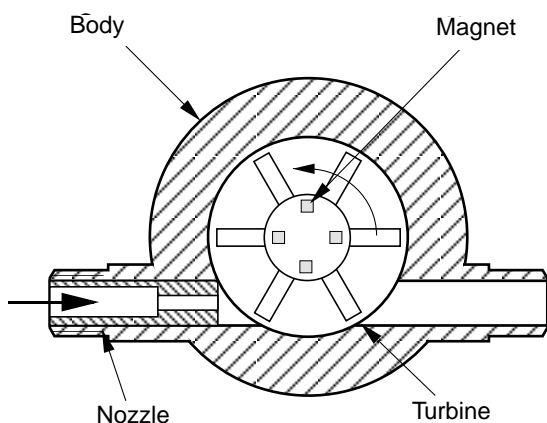
Weak instantaneous or drawn flow measure of neutrals or very aggressive fluid, in all industries.

By its idea, the flowmeter FFG only accepts fluids without particle and not crystallizing.

It is recommended to install a filter upstream of the flowmeter so as to avoid a freezing of the turbine, particularly for the low flows.

TECHNICAL CHARACTERISTICS

Measure range	: 6 to 720 l/h (water). according to nozzle diameter
Accuracy	: $\pm 1\%$ in measure scale 1:10 : $\pm 2\%$ in measure scale 1:25
Reproductibility	: $> 0,25\%$
Température	: 0 ... + 40°C (Area)
Pressure / T °C	: See 784/2 page
Viscosity	: 0,2 to 20 cSt
Body	: PVDF - Polysulfon - Arnite
Turbine	: PVDF
Nozzle	: PTFE
Turbine axes	: PCTFE
Ø ring	: FPM
Supply	: 4,5 to 24 Vdc -13 mA max.
Output	: 5 V rectangular signal (NPN collector)
Connection	: IP 65 plug-in connector according to DIN 43650
Cable	: 3 x 0,75 mm ² shielded -100 meters maximum length : 3 x 0,75 mm ² no shielded - 30 meters maximum length
Process connection	: 1/4" GM
Volumetric mass	: 185 g



BAMO MESURES

13, rue Pasteur - 95 100 ARGENTEUIL - FRANCE
Tél : (+33) 01 30 25 83 20 - E-mail : info@bamo.fr
Fax : (+33) 01 34 10 16 05 - Site : http://www.bamo.fr

TURBINE FLOWMETER
FFG

02/01/2003

784 11 01 B

DEB

784/1

MEASURE RANGES & ORDERING

Code	Flowmeter Material	Reference
784 406	Arrnite	FFG - 6 / A
784 506	Polysulfon	FFG 6 / PSU
784 606	PVDF	FFG 6 / PVDF
784 101	PVC assembly connections 1/4" GM x 16	

Code	Buse		Plage* l/h	Imp. / litre**
	Ø mm			
784 001	Ø 1 PTFE		6 - 35	4700
784 002	Ø 2 PTFE		18 - 140	2000
784 003	Ø 3 PTFE		30 - 200	1140
784 004	Ø 4 PTFE		50 - 300	670
	Ø 6 (corps)		150 - 720	330

* Flows maxima are indicated for a loss of charge of 1 bar.

It is possible to get from over flows, but the loss of charge will increase in function of the rost of the flow.

** For indication.

ASSOCIATED DEVICES

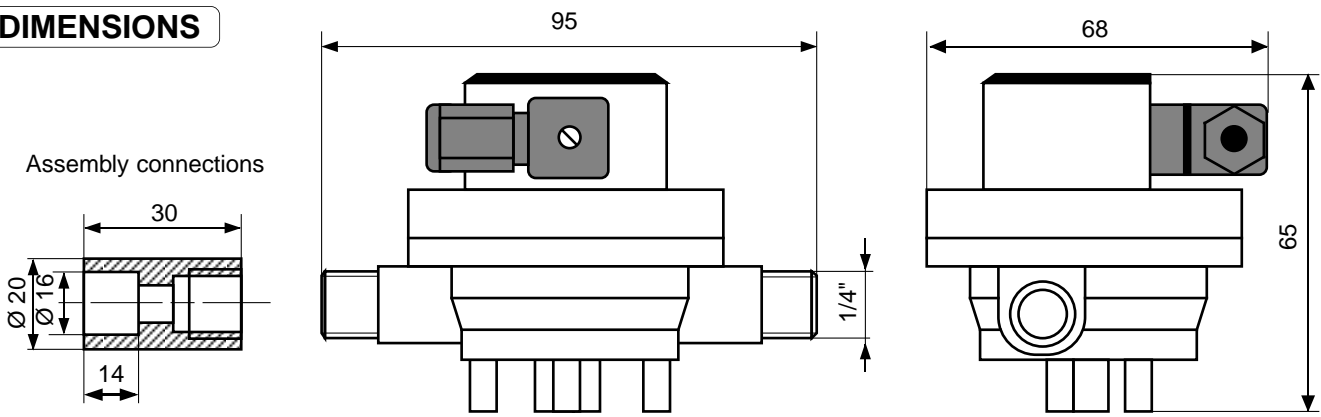
BIF 6040 Ratemeter / Totaliser with options and analogical output (See 282 doc.)

BCP 48 programmable counter with 2 adjusted settings (See 289 doc.)

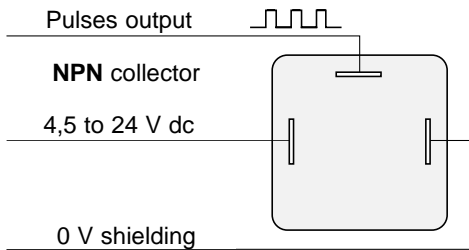
BAMOTOP 281 frequency converter, 0-2-5/10 V or 0-4/20 mA (See 281 doc.)

All electronic includes a collector supply. Adjustments according to using.

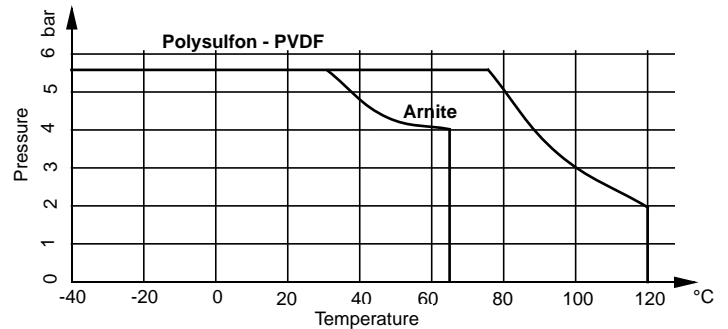
DIMENSIONS



RACCORDMENT



PRESSURE / TEMPERATURE DIAGRAMME



INSTALLATION REQUIREMENTS

The collector can be mounted in all positions, but it is recommended, to obtain from precise and reliable measures, to install on horizontal axis, with its upper in horizontal plan.

Install a filter upstream so as to avoid that particles in suspension blocks the turbine (shavings to start service, fibers...).

If a collector nozzle equipped, the senses of passage is imperative.

The nozzle must be to at collector entry.

Install the collector on a minimum section straight piping of 100 to 150 mm upstream and 50 mm in endorsement so as to obtain an homogeneous liquid vein.

It will be necessary therefore to distance it pumps, sluices, filters as well as of elbows and other connection.

The vein of fluid must be homogeneous and always the piping full. (alternation liquidates / gas)

-The BAMO FFG flowmeter do not be able to the measure of gas flow.

BAMO MESURES

13, rue Pasteur - 95 100 ARGENTEUIL - FRANCE
Tél : (+33) 01 30 25 83 20 - E-mail : info@bamo.fr
Fax : (+33) 01 34 10 16 05 - Site : http://www.bamo.fr

TURBINE FLOWMETER
FFG

02/01/2003

784 11 01 B

DEB

784/2