

ELECTROMAGNETIC FLOW METER BAMOMATIC



- The most competitive on the market
- 6 models
- From 0.25 to 250 L/min
- Pulse output, calibrated range
- Stainless steel 316 L electrodes
- Easy fitting, small instrument
- Independent of fluid density, temperature or pressure
- Pressure loss insignificant

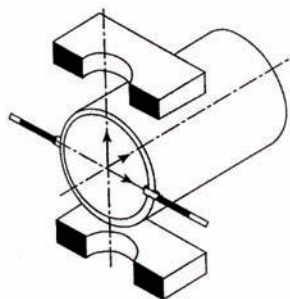
TECHNICAL FEATURES

Power supply:	24 V DC / ± 3 V DC
Consumption:	20 mA / 0.65 W
Protection:	Against polarity inversion
Output signal:	NPN Type
Status indicators:	Red LED = powered Green LED = output (pulses)
Wiring:	DIN 43650-A Plug
Process connection:	$\frac{1}{2}$ ", $\frac{3}{4}$ ", 1" or 1 $\frac{1}{4}$ " (vs. model)
Nominal diameter:	8 mm, 14 mm, 18 mm, 25 mm (vs. model)
Pipe material:	PVDF, red color excepted 1 $\frac{1}{4}$ " model, POM (Delrin) blue color
Tube and electrodes:	Stainless steel 316 L
Mass:	250...690 g
Minimal conductivity:	20 μ S
Maximal pressure:	10 bar /20°C – 8 bar /40°C – 6 bar /60°C
Operating temperature:	-10°C to +60°C

Green LED = output (pulses)



Red LED = power ON



According to Faraday electromagnetism principle, the induced tension, in a conductor moving in a magnetic field, is directly proportional to the conductor speed.

ACCURACY / PRINCIPLE

Those flow meters are calibrated on a test bench with a precision better than ± 5 pulses /1000. Tests are carrying out at room temperature with water.

In an electromagnetic flow meter, the fluid section is in a magnetic field originated by toroidal spools. Electrodes, fitted at 90° from the fluid movement and in contact with the conductive liquid measure the generated potential. This potential is proportional to the speed flow (Faraday law) and to the flow rate if the pipe section is constant.

CODE NUMBERS and REFERENCES

Power supply 24 V DC			Pulse output			
POM pipe	PVDF pipe	Range L/min	Ø	Hz / L /min	Range Hz	Pulse / L
-	775 301	0,25 to 5	$\frac{1}{2}$ "	16,6667	1,6 à 83	1000
-	775 302	1 to 20	$\frac{1}{2}$ "	13,3333	13 à 267	800
-	775 303	2.5 to 50	$\frac{3}{4}$ "	2,6666	5 à 134	160
-	775 304	5 to 100	1"	2,6666	13 à 267	160
-	775 305	10 to 150	1"	1,3333	13 à 200	80
775 006	-	12.5 to 250	1 $\frac{1}{4}$ "	1,6666	19 à 383	100

BAMO MESURES

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19-02-2013

775 I1 01 K

DEB

775-01/1

CAUTION

The mounting on site of a BAMOMATIC should strictly follow these **recommendations**.

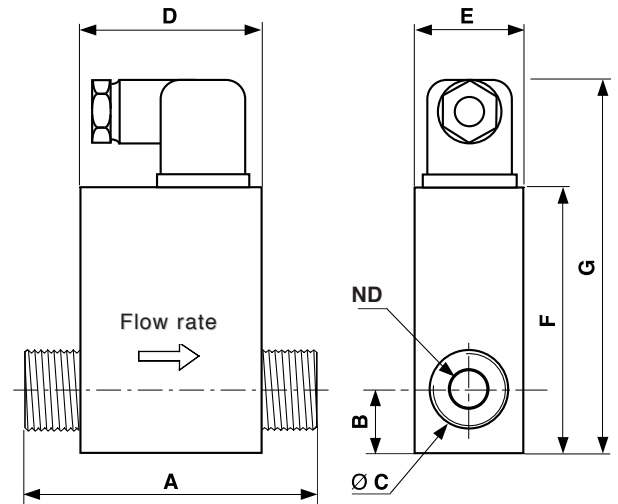
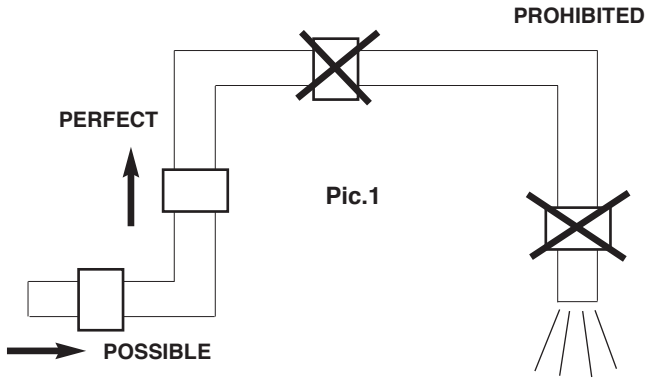
The 2 flow meter electrodes have to be imperatively in a permanent contact with the fluid.

According to **Pic. 1** here under, the upward and downward lengths of the pipe (respectively upstream and downstream) should be as long as possible; the pipe diameter should corresponds to the connection diameter.

Avoid elbows, valves and obstruction close to the flow meter.

Non respect of those conditions may originate lowest performance.

It is not convenient to install a BAMOMATIC close to a heating device and/or a powerful magnetic field.

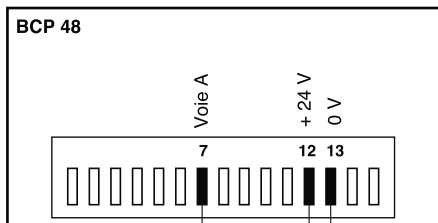


DIMENSIONS

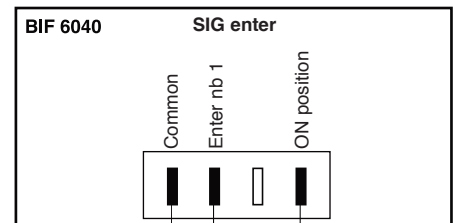
Model	A	B	Ø C	D	E	F	G	ND
1/2"	84,5	18,5	1/2" MG	80	36	88	100	8
3/4"	90	20	3/4" MG	80	36	88	100	14
1"	90	22	1" MG	80	36	88	100	18
1 1/4"	115	36,5	1 1/4" MG	64	60	130	155	25

ASSOCIATED Display and/or Totalizer

Wiring to BCP 48 device



Wiring to BIF 6040 device



BAMOMATIC

Wiring DIN 43650 Plug

- Pin 1: Power supply +24 Vdc
- Pin 2: Output collector opto-isolated
- Pin 3: Output transmitter opto-isolated
- Pin : 0 Vdc

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