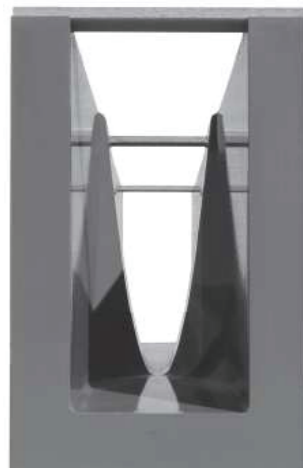


**OPEN CHANNEL FLOW METER  
EXPONENTIAL DEBITFLO**

Flow Measurement  
& Monitoring



**DESCRIPTION**

Venturi channels, Exponential model, are designed to measure flow rate in open channels. When conditions of non-turbulent flow and totally free outlet are respected, the height of fluid (h) is directly related to the flow rate (Q). The width narrowing has parabolic shape to allow a great accuracy even with low flow rates. The main advantage is a ratio of scale 1 to 100, useful when industrial process may vary often and in great proportions or to consider additional storm rains. They are useful either on waste water, contaminated fluid even with solids / particles or chemically aggressive liquids. With our associated monitor BAMOPHOX 759 data logger, it is easy to record and survey the effluents. By constructions, an adequate roughness of polyester isophthalique resin (UV protected) DEBITFLO is ideal for use outside. The material is resistant to hydrolysis and chemically compatible with acids, it will not afford solvents such as styrene, acetone, etc.

**FEATURES**

- ✓ 7 channels in composite material
- ✓ Flow rate scale from 0.22 up to 1440 m<sup>3</sup>/h
- ✓ Easy civil engineering

**TECHNICAL FEATURES**

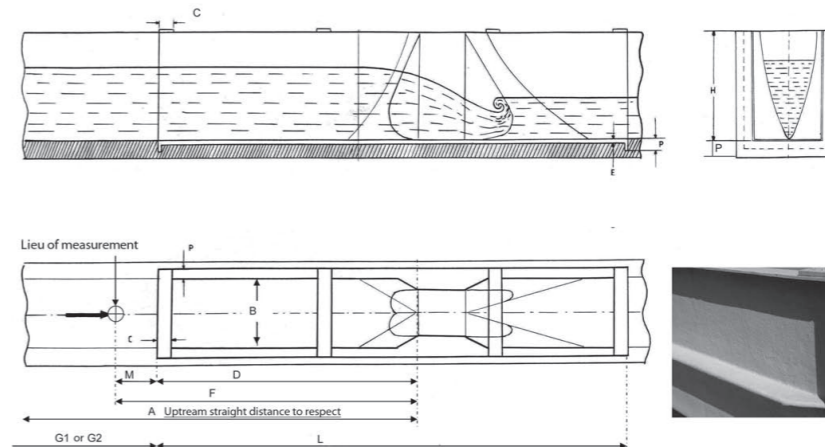
- . Standard types from type 1 to type 7 are delivered with "Flow chart Q(h)".
- . On option we can supply the complete channel integrated in polypropylene housing for mobile unit on easy installation on site.

**Material features**

<b>Deformation</b>	Buckling at 243°C
<b>Strain</b>	1.4%
<b>Barcol Hardness</b>	72
<b>Elasticity</b>	3.40 GPa
<b>Compression</b>	46 MPa

**DIMENSION/DRAWING**

Venturi with exponential restriction



Type	Inner Length (mm)	Inner Width (mm)	Inner Height (mm)
I	950	90	200
II	1300	130	250
III	1900	190	310
IV	2800	280	380
V	4200	420	460
VI	5500 (2 x 2750)	550	600
VII	7300 (2 x 3650)	730	800

**CODES AND REFERENCES**

Refer ISME for more details.

