

Flow rate in open channels

VENTURI CHANNELS DEBITFLO



- ISO 4359-compliant
- Up to 1000 m³/h
- Made in fiberglass-reinforced polyester resin
- Easy civil engineering
- Option: Integration into a ready-to-install plastrurgy envelope

APPLICATIONS

Measurement of flow rates in free-surface flows, particularly in polluted, corrosive or particle-laden wastewater.

DESCRIPTION

DEBITFLO venturi channels are designed for flow measurement in open channels with a free surface in compliance with ISO 4359. Made from reinforced polyester, they offer excellent dimensional stability, guaranteeing good measurement accuracy.

Level/flow correspondence :

Combined with a level transmitter, they provide a reliable and accurate solution for continuous flow measurement (see datasheet 755-03). The Level/Flow table is supplied with each Venturi channel.

Approach channel :

For flows up to 100 m³/h, the approach length is integrated into the venturi channel. The overall installation time is reduced and the quality of the result is optimal. Over 100 m³/h, the approach channel (1 or 2 parts) may be supplied or not, depending on the installer's ability to make the approach length on site (in concrete structure) accordingly to recommendations and standards. ISO 4359 requires the approach channel to have a minimum length of 5 times its inside width, upstream of the measurement zone, which is itself between 3 and 4 times the maximum height to be measured upstream of the Venturi restriction.

Polypropylene housing: Simplified commissioning

On request, we supply assemblies integrated in a polypropylene housing, ready to connect & install.



Channel supplied with plastrurgy

CODE NUMBERS AND REFERENCES

Venturi with approach channel :

Code	Reference	Max. flow [l/s]	Max. flow [m ³ /h]	Max H [mm]	Overflow [m ³ /h]
755 620	DF100A	27.8	100	285	111
755 630	DF250A	69.4	250	327	271
755 641	DF500A	138,9	500	444	544
755 650	DF1000A	277,8	1000	560	1070

Venturi without approach channel :

Code	Reference	Description
755 635	DF250C	Venturi DF250 without approach channel
755 645	DF500C	Venturi DF500 without approach channel
755 655	DF1000C	Venturi DF1000 without approach channel



Installation example

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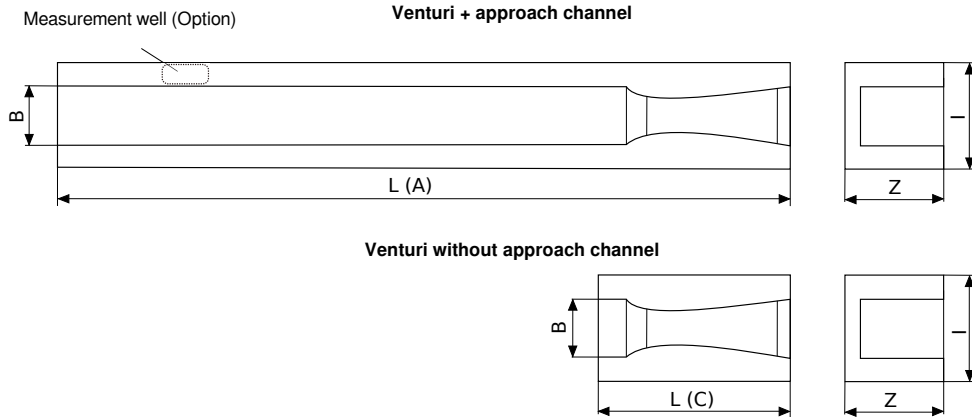
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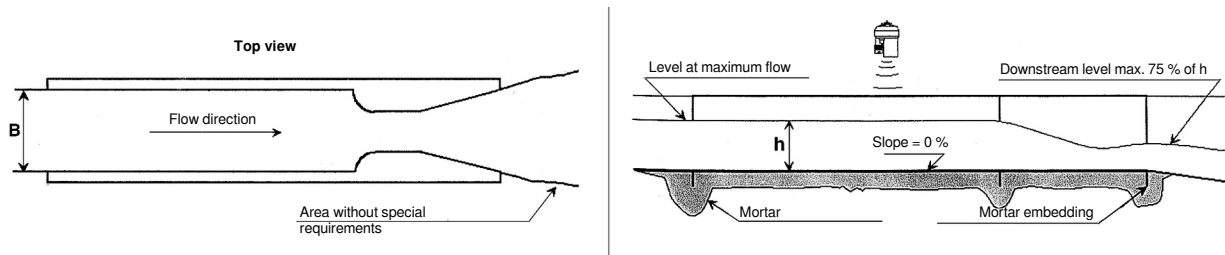
DIMENSIONS

Code	Reference	B	I	Z	L(A)	L(C)
755 620	DF100A	150	250	356	2414	-
755 630	DF250A	300	400	395	3583	1143
755 640	DF500A	360	460	520	4966	1416
755 650	DF1000A	550	650	620	6253	1919



NOTE:

When recommendations for installation are respected, accuracy is $\pm 3\%$ between high and low limits of flow rate. Measurement error between zero flow and Min. flow will be equivalent to $\pm 3\%$ of low limit value. High and low heights of liquid are indicated only to help choosing the right level transmitter.



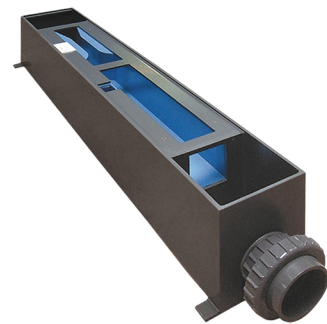
ABOVE-GROUND DEBITFLO VENTURI CHANNEL

For DF100A venturi channel (code 755 620) only:

In a configuration where the venturi channel cannot be installed in the ground, it is possible to add a plasturgy to your channel for an "above ground" installation.

The venturi channel is then supplied in a plasturgy adapted to its dimensions, with the inlet/outlet connections defined by your needs (consult our Technical Sales Department):

- Male spigot input/output
- Flanged inlet/outlet
- Union fittings inlet/outlet
- 90° elbow inlet/outlet
- *Other on request*



Plastic housing for DF100A venturi channel

Venturi channel Code	Reference	Plasturgy Code	Length (overall)	Width	Height
755 620	DF100A	755 330	3214 mm	320 mm	450 mm

Dimensions are indicative only; a drawing based on your configuration will be supplied with the order for approval.



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