解AQUALYSE

## AQUA-UV, <br> 316L stainless steel measuring channel for circular pipe laying

## The Venturi that slides into the tightest spots. <br> Fully 316L stainless steel, Aqua-UV® Aqualyse U-shaped is actually a measurer Canal «U» easily fitting into pipes in all diameters for a very economical and quick installation.

The Aqua-UV has been specially designed to answer to the problematic installation in small dimensions and insertion in cylindrical pipe layings. A simple existing room or the end of a pipe is sufficient for the installation.
Upstream slope up to $1 \%$ is acceptable. Stainless steel improves the fluidity and reduces the deposits on walls. The transport of sediment is optimum and the development of minimum algae. The rigidity of this material makes it easier to install than a polyester channel by reducing the installation costs.
The Aqua-UV is ideally suited for installation in standard vents.

## Applications

- Sanitation systems
- Stormwater systems
- Industrial or collective discharges

|  | $\emptyset 200$ | $\emptyset 250$ | $\emptyset 300$ | $\emptyset 400$ | $\emptyset 500$ | $\emptyset 600$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Recommended <br> minimum flow <br> $\left(\mathrm{m}^{3} / \mathrm{h}\right)$ | 3 | 3 | 4 | 4 | 5 | 6 |
| Recommended <br> maximum flow <br> $\left(\mathrm{m}^{3} / \mathrm{h}\right)$ | 67 | 119 | 180 | 383 | 649 | 1185 |
| Overall length <br> (excluding <br> bracket) | 300 | 300 | 360 | 480 | 600 | 720 |
| Overall height <br> (excluding <br> bracket) | 240 | 300 | 360 | 480 | 600 | 720 |
| Minimum <br> approach length <br> REQUIRED | 2000 | 2500 | 3000 | 4000 | 5000 | 6000 |

Material: stainless steel 316 L. Other models : contact us. All dimensions in mm.


References

| U Threshold triangular section AQUA UV $67 \mathrm{~m}^{3} / \mathrm{h}$ | UV0200 |
| :--- | :--- |
| UThreshold triangular section AQUA UV119 $\mathrm{m}^{3} / \mathrm{h}$ | UVO250 |
| UThreshold triangular section AQUA UV180 $\mathrm{m}^{3} / \mathrm{h}$ | UV0300 |
| U Threshold triangular section AQUA UV $383 \mathrm{~m}^{3} / \mathrm{h}$ | UV0400 |
| UThreshold triangular section AQUA UV $649 \mathrm{~m}^{3} / \mathrm{h}$ | UV0500 |
| UThreshold triangular section AQUA UV $1185 \mathrm{~m}^{3} / \mathrm{h}$ | UV0600 |

## AQUAFLOW,

## Venturis flumes

## Venturi flumes are intended to measure flowrate in open channels with a free surface.

Made from reinforced polyester, they offer excellent dimensional stability, ensuring highly accurate measurement. Combined with a level sensor, they become a continuous flowrate measurement solution that is reliable and accurate. Suitable for liquids loaded with solid or corrosive particles, they can be used in industry, water treatment and WWTP.


## Principle

The Venturi principle is a lateral-contraction system, moving liquids from a subcritical to a super-critical flow at the throat cross-section. Adding a threshold to the bottom of the channel enables low flow rates to be measured.
To obtain the flowrate of this discharge, simply measure the level upstream of the contraction and convert it to a flowrate using a formula specific to the size of each Venturi.
The $\mathrm{Q}(\mathrm{h})$ curve is provided for each channel.

## Installation

The complete channel must have a straight length before the venturi of $10 \times B$. This approach length must be masonry or made from the optional measurement and approach channels.
The measuring channel consists of a measuring well with a level scale. The approach channel uses the dimensions of the measuring channel.

## Reinforced structure

As the main cause of measurement inaccuracy is channel installation conditions, and in particular the risk of deformation associated with pouring concrete, the Venturi channel includes an omega-type patented horizontal side reinforcement that provides its rigidity and better grip for the concrete.

## ADVANTAGES

- Open channel flowrate
- Level conversion to flowrate
- Clear or loaded liquids
- Made of polyester resin
- Compliant with ISO 4359
- Ranges from 5 to $2,200 \mathrm{~m}^{3} / \mathrm{h}$

| Templates | MINIMUM FLOWRATE |  |  | NOMINAL FLOWRATE |  |  | MAXIMUM FLOWRATE |  | $\begin{gathered} \mathbf{b} \\ \mathbf{m m} \end{gathered}$ | $\underset{\text { mm }}{\text { B }}$ | $\begin{gathered} \mathrm{Lc} \\ \mathrm{~mm} \end{gathered}$ | $\begin{gathered} \mathbf{P} \\ \mathrm{mm} \end{gathered}$ | $\underset{\text { mm }}{\text { C }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mathrm{h}_{\text {(mm) }}$ | $0_{(1 / 5)}$ | $\mathbf{0}_{(\mathrm{m} 3 / \mathrm{h})}$ | h ( ${ }_{\text {mm) }}$ | $\mathbf{0}_{(/ / s)}$ | $\mathbf{0}_{(\mathrm{m} 3 \mathrm{~h})}$ | $0_{(/ / s)}$ | $\mathbf{0}_{(\mathrm{m} 3 / \mathrm{h})}$ |  |  |  |  |  |
| A0F6 ${ }^{(1)}$ | 5 | 0,02 | 0,08 | 81 | 1,37 | 4,95 | 1,89 | 6,79 | 35 | 50 | 165 | 15 | 140 |
| A0F15 ${ }^{(1)}$ | 16 | 0,20 | 0,73 | 122 | 4,3 | 15,4 | 5,84 | 21 | 59 | 100 | 245 | 30 | 200 |
| A0F40 | 50 | 1,94 | 7,00 | 178 | 13 | 47 | 18 | 65 | 102 | 156 | 360 | 30 | 270 |
| A0.F100 | 50 | 2,10 | 7,55 | 259 | 25 | 89 | 34 | 123 | 110 | 220 | 520 | 30 | 370 |
| A0F200 | 50 | 3,24 | 11,67 | 330 | 55 | 200 | 76 | 273 | 170 | 340 | 660 | 30 | 460 |
| A0F300 | 50 | 4,00 | 14,41 | 370 | 80 | 290 | 112 | 402 | 210 | 420 | 740 | 30 | 510 |
| A0F600 | 51,5 | 5,38 | 19,37 | 506 | 167 | 600 | 230 | 829 | 270 | 450 | 1012 | 30 | 680 |
| A0F1000 | 61 | 8,73 | 31,44 | 605 | 273 | 982 | 376 | 1355 | 340 | 540 | 1210 | 30 | 800 |
| A0F3000 | Maximum Flowrate : $3860 \mathrm{~m}^{3} / \mathrm{h}$ - Please contact us for more informations |  |  |  |  |  |  |  |  |  |  |  |  |

(1) Standard ISO 4359 requires width b to be $>100 \mathrm{~mm}$

## Venturi Channel

| Templates | OVERALL DIMENSIONS |  |  |
| :---: | :---: | :---: | :---: |
| AOF6 ${ }^{(2)}$ | IT (mm) | LT (mm) | HT (mm) |
| AOFMV1513) | 140 | 733 | 170 |
| AOFV40 | 200 | 995 | 230 |
| AOFV100 | 244 | 607 | 314 |
| AOFV200 | 308 | 930 | 414 |
| AOFV300 | 456 | 1395 | 518 |
| AOFV600 | 540 | 1636 | 570 |
| AOFV1000 | 590 | 1830 | 750 |

(2) A single element with approach, measurement and integrated well (3) Supplied with measurement channel and integrated well (4) Provided in the form of two panels

## Measurement channels

| Templates | OVERALL DIMENSIONS |  |  |
| :---: | :---: | :---: | :---: |
|  | 244 | LT (mm) | HT (mm) |
| AOFM100 | 308 | 780 | 314 |
| AOFM200 | 456 | 1100 | 414 |
| AOFM300 | 540 | 1700 | 518 |

Canaux de mesure pour versions 600 et 1000 non disponibles

## Approach channels

| Templates | OVERALL DIMENSIONS |  |  |
| :---: | :---: | :---: | :---: |
|  | ITm) | LT (mm) | HT (mm) |
| AOFA40 | 200 | 450 | 230 |
| AOFA100 | 244 | 780 | 314 |
| A0.FA200 | 308 | 1100 | 414 |
| AOFA300 | 456 | 1700 | 518 |

600 and 1000 measuring channels not available

## References

| Venturi flume AQUAFLOW with approach channel, $6 \mathrm{~m}^{3} / \mathrm{h}$ | AQF6 |
| :--- | :--- |
| Venturi flume AQUAFLOW with approach channel, $15 \mathrm{~m}^{3} / \mathrm{h}$ | AQF15 |
| Venturi flume AQUAFLOW with approach channel, $40 \mathrm{~m}^{3} / \mathrm{h}$ | AQF40 |
| Venturi flume AQUAFLOW with approach channel, $100 \mathrm{~m}^{3} / \mathrm{h}$ | AQF100 |
| Venturi flume AQUAFLOW with approach channel, $200 \mathrm{~m}^{3} / \mathrm{h}$ |  |
| Venturi flume AQUAFLOW with approach channel, $300 \mathrm{~m}^{3} / \mathrm{h}$ | AQF200 |
| Venturi flume AQUAFLOW $600 \mathrm{~m}^{3} / \mathrm{h}$ | AQF300 |
| Venturi flume AQUAFLOW $1000 \mathrm{~m}^{3} / \mathrm{h}$ | AQF600 |
| Venturi flume AQUAFLOW $3000 \mathrm{~m}^{3} / \mathrm{h}$ | AQF1000 |



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## AOUABAC,

## Measuring tank with overflow of triangular or rectangular notch

## Five models of AQUABAC with integrated overflows allow for measurements from 2.9 to $\mathbf{2 5} \mathbf{m}^{3} / \mathrm{h}$.

The AQUABAC is a rectangular tank made of PVC or 316L stainless steel with a triangular or rectangular overflow. An ultrasonic probe or radar sensor can be placed on the handle for measuring flow rate.
The ideal solution for measuring small flow rates.

## AVANTAGES

- Ultra quick setup and implementation
- Very little engineering required
- More reliable results
- Excellent resistance to chemicals
- Easy to clean (thanks to the purge plug provided for emptying the tank)


## Description

- The AQUABAC measuring tanks are made of stainless material, they have excellent resistance to chemicals.
- The "economic" versions are entirely of PVC (including the weir).
- Delivered in one piece an AQUABAC can be buried or set on the floor, and only requires for intake and drainage.
- Installation does not involve adjusting the «sensitive» parts (the spill blade and internal geometry of the overflow). This simplified installation, minimizing the risk of errors, guarantees excellent measurements.


|  | AQUABAC 3 | AQUABAC 4 | AQUABAC 8 | AQUABAC 16 | AQUABAC 25 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| MAXIMUM FLOW (m³ $\mathbf{h})$ | 2,9 | 4 | 8 | 16 | 25 |
| WIDTH | 290 | 290 | 290 | 290 | 290 |
| TANK HEIGHT | 440 | 440 | 440 | 305 | 305 |
| OVERALL HEIGHT <br> with measuring handle | 850 | 850 | 850 | 715 | 715 |
| LENGTH | 1440 | 1440 | 1440 | 2440 | 2800 |

Tank material: grey PVC - Overflow material: 316L stainless steel (except economical models: PVC).
All dimensions in mm.
AQUALYSE can design and produce all types of overflows (triangular indentation, rectangular or others) to match your specific needs and ready to be installed at your location.
A table of height/flow ratio corresponding to applicable ISO standards is provided.

## References

| Aquabac with " $V$ " weir 20 degrees | AOBACO3 |
| :--- | :--- |
| Aquabac with " $V$ " weir 28 degrees 4 | AOBACO4 |
| Aquabac with " $V$ " weir 53 degrees 8 | AOBACO8 |
| Aquabac with " $V$ " weir 90 degrees | AOBAC16 |
| Aquabac with " $V$ " weir 90 degrees long version | AQBAC25 |
| Aquabac with rectangular weir $125 m^{3} / h$ | AOBAC125 |
| Ultrasonic probe holder for Aquabac | POTENFAQBAC |

