

Compact Communication  
 Long-lasting high accuracy  
 High Efficiency

# Aquadis+

## A New Standard for Volumetric Water Meters

► **Long-term performance**

- Long-lasting high accuracy
- Class C and D in any position
- Permanent Readability
- High Efficiency

► **New Design Features**

- Enhanced Robustness
- Pre-equipped for Communication
- Compact
- Easy Handling



Aquadis+ is a world-class piston type volumetric water meter, designed for the best metering and billing in residential applications. Approved class C and D from Qn 0.75 to 1.5, Aquadis+ is compliant to:

- European Directive EEC 75/33 for cold potable water meters
- Standard ISO 4064 for cold potable water meters
- OIML R49 (2003; 2004 editions) recommendations for water meters intended for metering of cold potable water meters
- British Standard BS 5728, for cold potable water meters
- European Standard EN14154 - 2005 for water meters
- MID - Directive 2004/22/EC of the European Parliament and of the Council of 31 March 2004 on measuring instruments

Aquadis+ is 100% compliant with regulations for products to use in contact

with water intended for human consumption. Aquadis+ has approvals granted by the following laboratories:

- ACS (France)
- Belgaqua (Belgium)
- Kiwa (Netherlands)
- WRAS (United Kingdom)

Focusing on reliable and long-term performance, Aquadis+ offers maximised revenue collection provided by an innovative design to maintain high efficiency over time.

**The Technology**

The working principle of Aquadis+ is based on the combination of an extra dry register (no gears in the water), associated with a hermetical measuring element, using the concept of magnetic transmission.

**Communication Device**

Pre-equipped for future communication through Cyble.



**Hermetically Sealed Register\* (Counter)**  
Glass lens and copper can register, condensation and water proof (IP 68), allows permanent readability

\* option for plastic case, for specific applications



**Communication**  
Pre-equipped with the proven Cyble target allowing the meter's integration into remote reading systems by adding the relevant module



**Robust Case**  
High resistance to pressure

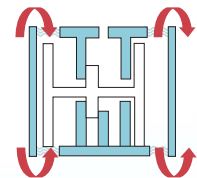
**Effective and Easy Maintenance Filter**  
Prepared to contain major particles, easy to clean



**Compact and Easy Handling**

**Outstanding Accuracy and Long Term Performance**

Hydro-dynamically balanced piston obtained by an innovative design of measuring elements enables not only detection and account of extremely low flows (typically, <math><1\text{L/h}</math>) in wide range of flow rates, but also long-lasting and stable accuracy.



## Options

Aquadis+ meters may be fitted with:

- Cyble modules from the factory (please refer to specific leaflet),
- Non return-valve for outlet pipe,
- Removable cap.

## Communication

### The Aquadis+ is supplied pre-equipped with the Cyble register Target

This allows communication and remote reading through:

- Pulse output (Cyble Sensor)
- M-Bus protocol (Cyble M-Bus)
- Radio frequency wireless link (Cyble RF)

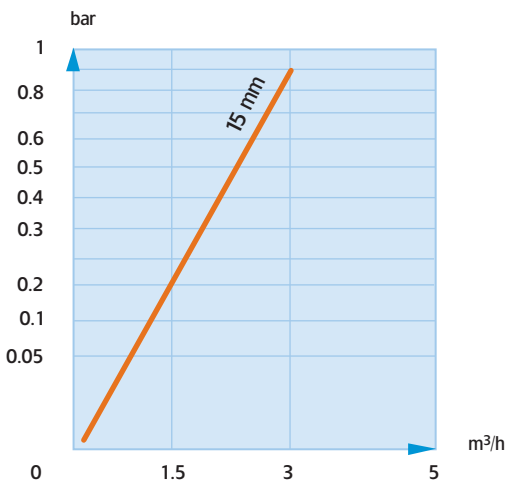
### Key Advantages of Cyble Technology

- No need for additional investment on the meter itself to implement remote reading

- Actaris standard meter interface, irrespective of meter technology.
- Reliable electronic switch (no wear or bouncing).
- It enables reverse flow management.
- Principle proven in the field for more than 10 years.
- Communication is immune to magnetic tampering.

For further information, please contact us.

## Head Loss



## Typical Accuracy Curve



► Cyble RF fitted on Aquadis+ meter



► Aquadis+ Register



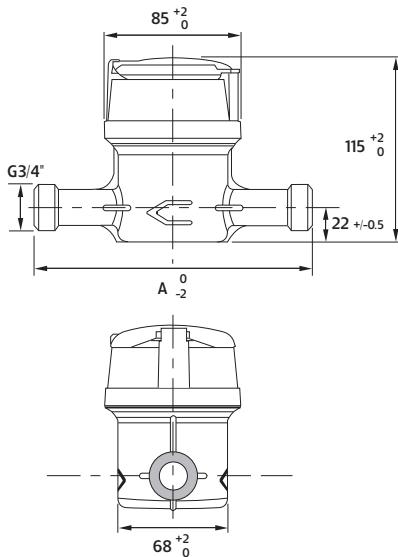
► Aquadis+ Manifold version



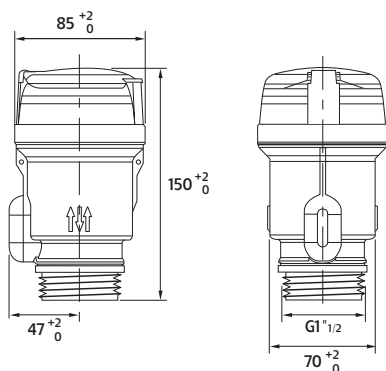
► Aquadis+ Register according to British standards

## Dimensions

### ► In line version



### ► Manifold version



## Metrological Characteristics

<b>Nominal diameter (DN)</b>		<b>mm</b>	<b>15</b>			
		<b>inches</b>	<b>1/2"</b>			
E.E.C. metrology class		Class C all positions				
E.E.C. approval		F-04-G-297				
Max. operating temperature		°C	30			
Max. operating temperature (< 1 h)		°C	50			
Max. admissible pressure		bar	16			
Testing pressure		bar	25			
Pressure loss (Head Loss Group)		bar	1			
Nominal flow rate	Qn	m³/h	0.75	1	1.5	0.75 - 1.5*
Max. flow rate	Qmax	m³/h	1.5	2	3	3
Min. flow rate	Qmin	L/h	7.5	10	15	7.5
Transitional flow rate	Qt	L/h	11.25	15	22.5	11.25
Typical starting flow rate			L/h 1			
Accuracy ± 5%			L/h 3			
Accuracy ± 2%			L/h 6			
Indication range			m³ 99 999			
Min. scale interval			L 0.05			
Communication pre-equipment		Cyble Technology				

\* Variable nominal flow rate / Also available in 0.75-1 and 1-1.5 m³/h.

Dimensions	mm	15					15	
	inches	G 3/4" B					G 1" B	
Meter thread	mm	20x27					26x34	
A	mm	105	110	115	134	165	170	165 190

### Class D - DN15 In line and Manifold - In compliance with British Standard 5728

Nominal flow rate	Qn	m³/h	1 - 1.5				
Maximum flow rate	Qmax	m³/h	2 - 3				
Minimum flow rate	Qmin	L/h	7.5				
Transitional flow rate	Qt	L/h	11.5				
Indication range			m³ 9 999				
Minimum scale interval			L 0.02				

## Pulse Value

	HF Signal	LF Signal (according to K factor for Cyble Sensor Module)					
Meter range		K=1	K=2.5	K=10	K=25	K=100	K=1000
DN15 class C	1 L	1 L	2.5 L	10 L	25 L	100 L	1 m³
DN15 class D (BS 5728)	01 L	01 L	0.25 L	1 L	2.5 L	10 L	100 L

For more information, please contact your local agency.

**Actaris**  
9, rue Ampère  
71031 Mâcon cedex - France  
For more information, see [www.actaris.com](http://www.actaris.com)

**tel** +33 3 85 29 39 00  
**fax** +33 3 85 29 38 58