

Knowledge to Shape Your Future





A New Standard for Volumetric Water Meters

Aquadis+ is a world-class piston type volumetric water meter, designed for the best metering and billing in residential applications.

Efficiency

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.

Approvals and Standards

Aquadis+ is approved at Q3 1,6 and 2,5 m3/h from Ratio 50 to 400 according with:

- MID, Directive 2004/22/EC of the European Parliament
- European Standard EN14154 2005
- International Standard ISO 4064
- Recommendations OIML R49

Aquadis+ is also approved class C and D from Qn 0.75 to 1.5 according with:

- European Directive EEC 75/33 for cold potable water meters
- > British Standard BS 5728

Aquadis+ is 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)

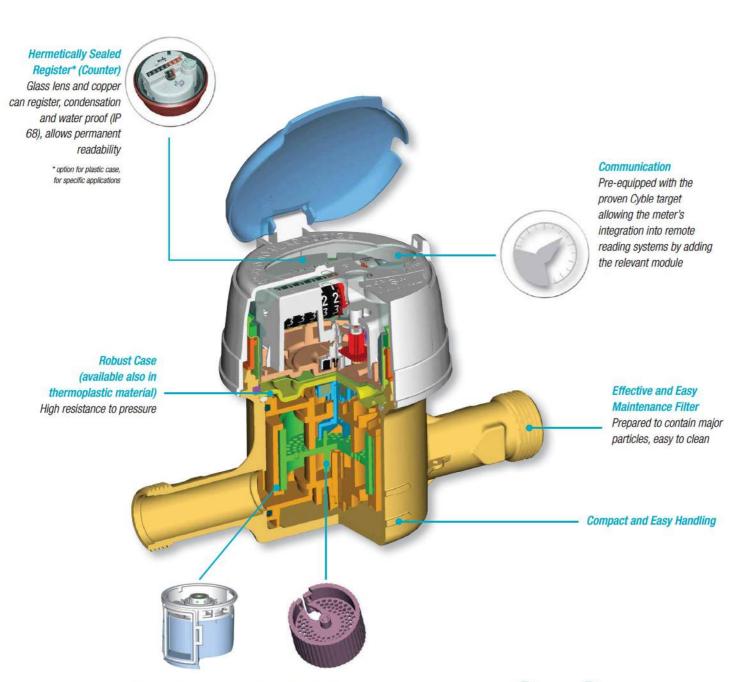


> Long-term performance

- Long-lasting high accuracy
- High Efficiency
- Any installation position
- Permanent Readability

> New Design Features

- Enhanced Robustness
- Pre-equipped for Communication
- Compact
- 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, < 1L/h) in wide range of flow rates, but also long-lasting and stable accuracy.



Option

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

Aquadis+ is always pre-equipped with the proven Cyble technology, making it possible to mount plug-and-play Cyble modules at any time. This opens up to a large range of advanced and reliable AMR systems:

- > Radio walk-by systems
- > Radio fixed data collection systems
- M-Bus wired systems (walk-by or fixed network)
- > or any other system based on universal pulse outputs

Key Advantages of Cyble Technology

- > Itron standard meter interface
- No need of additional investments on the water meter
- > Electronic detection principle (no wear or bounce)
- > Leak detection
- > Reverse flow detection
- > Fraud detection
- > Not sensitive to magnetic fields
- > Perfect index correlation

For further info, refer to the specific leaflet.

> Cyble RF fitted on Aquadis+ meter



> Aquadis+ Register



> Aquadis+ Manifold version

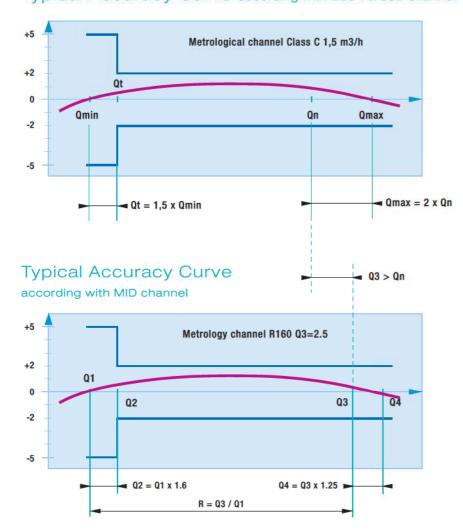


> Aquadis+ composite version:

- robust
- lighter and ergonomic
- resistant to dezincification



Typical Accuracy Curve according with EEC 75/33D channel



The dynamic range is defined as the Ratio (R) between the Nominal and the minimum flowrates. The MID approval proves the Aquadis+ real capacity to withstands to higher nominal flows ($Q_a > Qn$).

Nominal diameter (DN)		mm inches	15 1/2"	20 3/4"
In compliance with MID				
MID Metrological Class (R) - all position			50	- 400
MID Type Approval Number			LNE	13636
Nominal Flow Rate	(Q3)	m3/h	1.6	6 - 2.5
Standard Ratio *	(Q3/Q	1)	100	0 - 160
Minimum Flow Rate	(Q1)	L/h	16	- 15.6
Transitional Flow Rate	(Q2)	L/h	25.	6 - 25
Overload Flow Rate	(Q4)	m3/h	2-	3.125
Pressure Loss Class at Q3		bar	0.25	5 - 0.63
Maximum Admissible Pressure (MAP)		bar		16
Operating Temperature	(T)	°C	0.1	1 - 30
Climatic Environment	1811018	°C	5	- 55

^{*} Other Ratios available under specific request

In compliance with EEC 75/33

EEC Metrology Class	Class C all positions				
EEC approval number	F-04-G-297				
Nominal Flow Rate (Qn)	m3/h	0.75	1	1.5	0.75 - 1.5*
Maximum Flow Rate (Qmax)	m3/h	1.5	2	3	3
Minimum Flow Rate (Qmin)	L/h	7.5	10	15	7.5
Transitional Flow Rate (Qt)	L/h	11.25	15	22.5	11.25
Maximum Admissible Pressure (PN)	bar			16	
Pressure Loss (Head Loss Group)	bar			1	
Maximum Operating Temperature (T)	°C			30	

In compliance with British Standard 5728

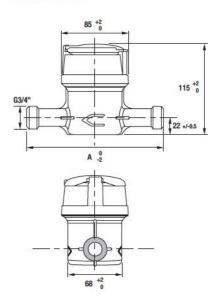
BS Metrology		Class D all positions		
Nominal Flow Rate	m3/h	1	1.5	
Maximum Flow Rate	m3/h	2	3	
Minimum Flow Rate	L/h	7	7.5	
Transitional Flow Rate	L/h	1	1.5	

Common Characteristics

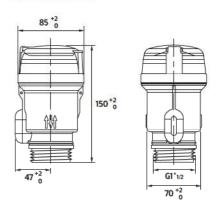
Indication Ran	ige	m3	99999.999
Minimum Sca	le Interval	L	0.02
Typical Startin	g Flow Rate	L/h	1
Accuracy +/-	5%	L/h	4
Accuracy +/-	2%	L/h	8
Testing Pressu	ure	bar	25
Maximum Acc	idental Operating Temperature	°C	50 (< 1h/day)

Dimensions	mm inches	15 20 G3/4" B G 1" B	
Meter thread	mm	20x27 26x34	
A	mm	105 110 115 134 165 170 130 165 190	

> In line version



> Manifold version



About Itron Inc.

Itron Inc. is a leading technology provider to the global energy and water industries. Our company is the world's leading provider of metering, data collection and utility software solutions, with nearly 8,000 utilities worldwide relying on our technology to optimize the delivery and use of energy and water. Our products include electricity, gas and water meters, data collection and communication systems, including automated meter reading (AMR) and advanced metering infrastructure (AMI); meter data management and related software applications; as well as project management, installation, and consulting services. To know more, start here: www.itron.com

For more information, contact your local sales representative or agency.



9, rue Ampère 71031 Mâcon cedex France

Phone: +33 3 85 29 39 00 Fax: +33 3 85 29 38 58

www.itron.com