





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.

FEATURES AND BENEFITS

- » 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

Efficiency

Focusing on reliable and longterm 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.

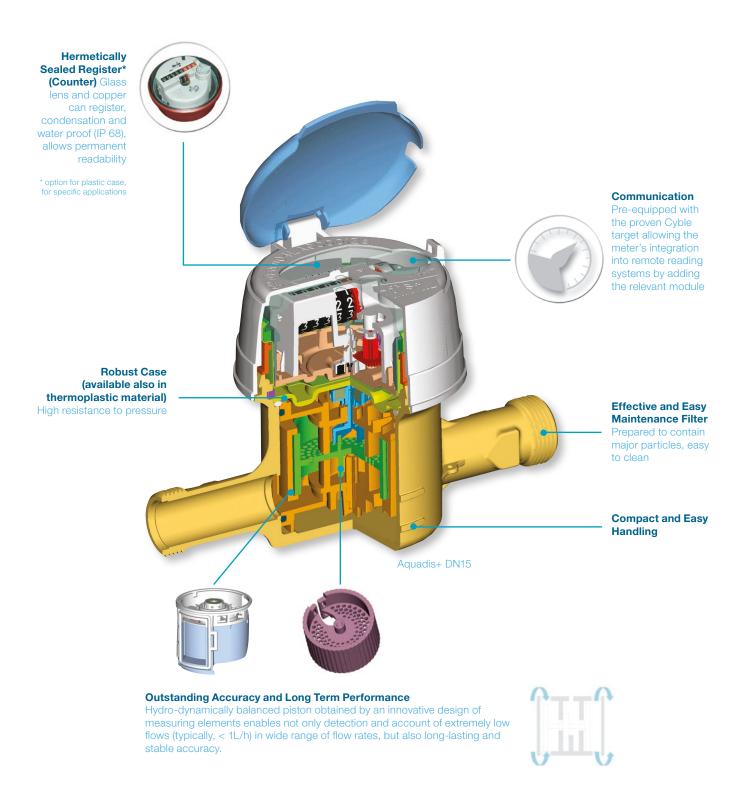
Approvals and Standards

Aquadis+ is approved at Q3 1,6, 2,5 and 4m³/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 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)





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

HEAD LOSS

- » 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

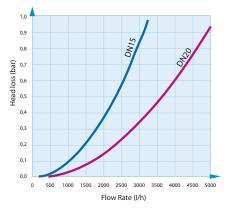
For further info, refer to the specific leaflet.



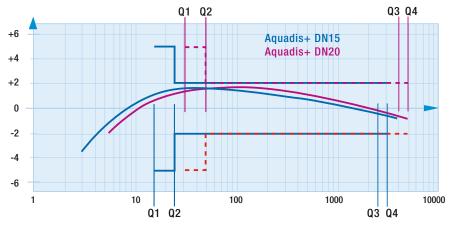
Cyble RF fitted on Aquadis+ DN15 meter



Aquadis+ DN20



TYPICAL ACCURACY CURVE ACCORDING WITH R160 MID 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 (Q3 > Qn).



Aquadis+ Manifold version

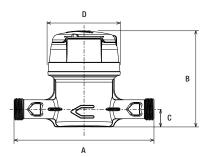


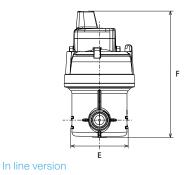
Aquadis+ DN15 composite version: - robust - lighter and ergonomic

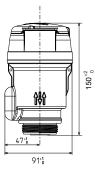
- resistant to dezincification

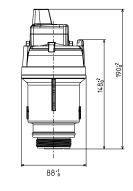
Technical Specifications

Technical Specifications								
Meter Capacity		mm	15		20			
		inches	1/2	"	3	4"	3	3⁄4"
In compliance with MID								
MID Accuracy Ratio (Q3/Q1) - al	II positions	5		50 /	400		63	/ 400
MID Type Approval Number			LNE 13636			LNE 16467		
Nominal Flow Rate	(Q3)	m³/h	1.6	6	2	2.5	2.5	4.0
Standard Ratio (*)	(Q3/Q1)		10	0	1	60	100	160
Minimum Flow Rate	(Q1)	l/h	16	3	1	5.6	25	25
Transitional Flow Rate	(Q2)	l/h	25	.6	2	25	40	40
Overload Flow Rate	(Q4)	m³/h	2		3.	125	3.1	5
Pressure Loss Class at Q3		bar	0.2	25	0.	.63	0.25	0.63
Maximum Admissible Pressure	(MAP)	bar		1	6			16
Operating Temperature	(T)	°C	0.1 / 50			0.1 / 50		
Climatic Environment		°C	5 / 55			70 / -10		
(*) Other Ratios available under specific requ	iest							
Other Characteristics								
Indication Range		m ³	99999,999			99999,999		
Minimum Scale Interval		I	0.02			0.02		
Typical Starting Flow Rate		l/h	1			2		
Accuracy +/- 5%		l/h	3			5		
Accuracy +/- 2%		l/h	5			8		
Testing Pressure		bar	25			25		
Maximum Accidental Water Tem	perature	°C	50 (<1h/day)			60 (<1h/day)		
n compliance with EEC 75/		iring da					(
EEC Metrology Class		ining da				tion		_
EEC approval number			Class C all position F-04-G-297					
Nominal Flow Rate	(Qn)	m³/h	0.75	1	1.5	0.75/1,5*	r	_
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	(Qthini) (Qt)	l/h	11.25	15	22.5	11.25		-
Maximum Admissible Pressure	(Qt) (PN)	bar	11.20			11.20		-
Pressure Loss (Head Loss Grou	,	bar	16 1				_	
Maximum Operating Temperatu	. /	°C	30					
						1 - h 00		-
In compliance with British S	standard	15/28 -		-			J14	
BS Metrology Class		2.4	Class D all position				-	
Nominal Flow Rate		m³/h	1 1.5		-			
Maximum Flow Rate		m³/h	2 3		-			
Minimum Flow Rate		l/h	7.5		-			
Transitional Flow Rate		l/h		1	1.5			-
Dimensions								
Nominal Diameter		mm			5			20
Meter Thread		inches	G ¾" G 1"		G 1"			
		mm	20 x 27 26 x 34		26 x 34			
A		mm	105/110/115* 130/165/190		190			
В		mm	115		143			
С		mm	22		20			
D		mm	85		88			
E		mm	68		70			
F		mm	158		186			
(*) Other available lenghts: 134, 165, 170								









Manifold version

Weight - Brass Version

Dimension	mm	15	20
Weight in line	Kg	0.75/0.95	1.5
Weight coaxial	Kg	1.12	-



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