



Excellence in volumetric water metering

With more than twenty million units installed worldwide, a new release of Aquadis+ has been conceived to exceed accuracy and reliability for all residential applications.

## FEATURES AND BENEFITS

- » Proven long-term performance: with unchanged design and materials of the unique measuring chamber architecture, Aquadis+ maintains high efficiency and maximises the water volume measured over time.
- » New design features include
  - Improved magnetic transmission: with focus on very low flow detection and measurement, Aquadis+ can now reach a dynamic range of R800 in all positions (Q3 2,5 m<sup>3</sup>/h), in compliance with the latest edition of ISO4064 standard.
  - Enlarged cover and new look: wider cover to guarantee legal marking regulatory compliance

#### **Complete portfolio**

- » Aquadis+ is available in several variants to fit the majority of worldwide installations and conditions of use
  - DN 15 and 20 mm in-line body, several lengths available
  - DN 15 and DN20 manifold (concentric)
  - Body in brass and composite materials
  - Registers in plastic with wiper and optional mineral glass version for tough environment

#### **Smart Metering**

Aquadis+ is smart metering ready, making it possible to mount a plug-and-play Cyble communicating module at any time.

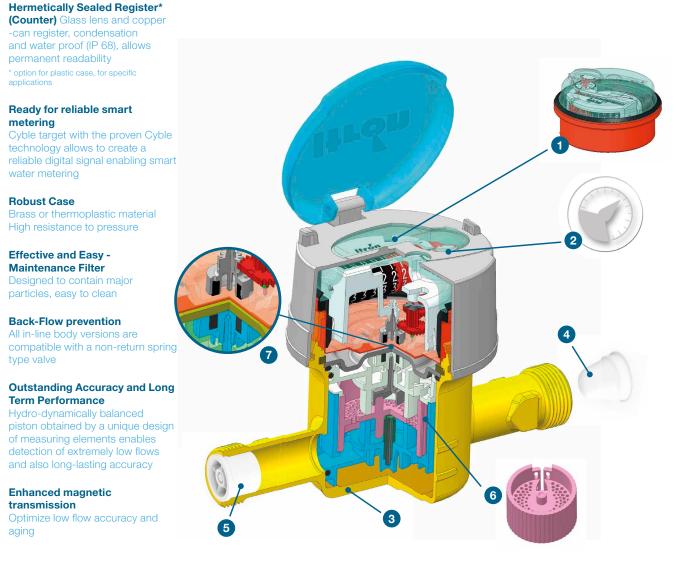
### **Approvals and Standards**

- » Aquadis+ is approved as a measuring instrument for billing applications according with:
  - MID, Directive 2014/32/EU of the European Parliament
  - International Standard EN ISO 4064
  - Recommendations OIML R49
- » Aquadis+ is compliant with regulations for products to be used in contact with water intended for human consumption.
- ACS (France)
- WRAS (United Kingdom)
- Belgaqua (Belgium)
- Kiwa (Netherlands)
- KTW DVGW W270 (Germany)
- DM174 (Italy) (non-exhaustive list)
- » Aquadis+ is compliant with the directive (2011/65/EU) for Restriction on Hazardous Substances - RoHS2

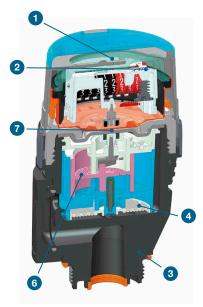
### **PRODUCT CHARACTERISTICS**

Aquadis+ is a volumetric water meter with piston principle combined with the well-known ltron extra-dry register technology.

No parts of the register are in contact with the water flow.



Brass, In-line version



2

3

5

6

# KEY ADVANTAGES OF COMPOSITE MATERIAL

- » Lighter (30% less of brass) and ergonomic
- » More suitable to be used with potable water (lead free)
- » Not affected by corrosion (desincification immunity)
- » No value for theft

### **MATERIAL CHARATERISTICS**

- » Reinforced polymer fiber glass
- » High resistance to chemicals
- » High dimensional stability to temperature
- » Robustness to handling and installation

Composite, manifold version

## **Technical Specifications**

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Nominal Diameter (DN)		mm	<b>15</b> or <b>20</b>		2	20	
		inches	1/2" or 3/4"		3/4"		
In compliance with MID							
MID Accuracy Ratio (Q3/Q1) - all positions		6	50 / 800		63 / 400		
MID Type Approval Number			LNE 34003		LNE 16467		
Nominal Flow Rate	(Q3)	m³/h	1.6	2.5	2.5	4.0	
Standard Production Ratio (*)	(Q3/Q1)		100	160	100	160	
Minimum Flow Rate	(Q1)	l/h	16	15.6	25	25	
Transitional Flow Rate	(Q2)	l/h	25.6	25	40	40	
Overload Flow Rate	(Q4)	m³/h	2	3.125	3.1	5	
Pressure Loss Class at Q3		bar	0.25	0.63	0.25	0.63	
Maximum Admissible Pressure	(MAP)	bar	16		16		
Operating Temperature	(T)	°C	0.1 / 50		0.1 / 50		
Climatic Environment		°C	5 / 55		5 / 55		
(*) Other Ratios available under specific request							
Other Characteristics							
Indication Range		m <sup>3</sup>	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 Temperature		°C	60 (<1h/week)		60 (<1	60 (<1h/week)	



Aquadis+ Register available in plastic and mineral glass versions

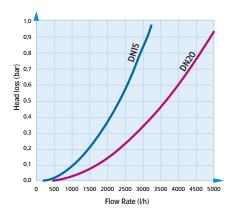


Aquadis+ DN20

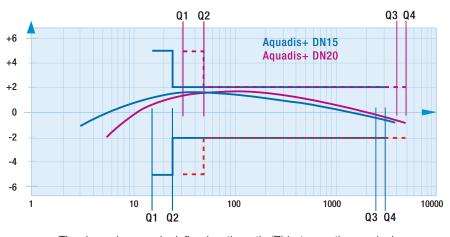


Aquadis+ Composite

## **HEAD LOSS**



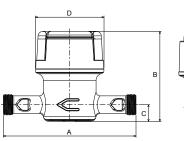
### TYPICAL ACCURACY CURVE ACCORDING WITH R160 ISO 4064 CHANNEL

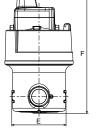


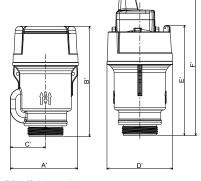
The dynamic range is defined as the ratio (R) between the nominal and the minimum flowrates.

#### **Dimensions**

Nominal Diameter	mm	15 or 20		20	
Meter Thread	inches	G 3⁄4	G 1"	G 1"	
	mm	20 x 27	26 x 34	26 x 34	
А	mm	105/110/115/ 134/165/170	130/165/190	190	
В	mm	115		143	
С	mm	21		20	
D	mm	88		88	
E	mm	68		70	
F	mm	157		186	
Manifold		Q3=2.5m <sup>3</sup> /h		Q3=4m <sup>3</sup> /h	
A'	mm	90		101	
B'	mm	148		159	
C'	mm	47		50.5	
D'	mm	88		101	
E'	mm	147		157	
F'	mm	190		201	







Manifold version

# **CYBLE TECHNOLOGY**

In line version

This proven technology for smart metering allows to mount a Cyble module on a water meter and has the following key advantages:

- » Simple & robust installation by clip-in (either pre-installation or retrofit)
- » Perfect correlation of the digital index
- » Reliable electronic detection principle (no wear or bounce)
- Not sensitive to magnetic fields (reduce risk of tampering)

#### **OPTION**

Aquadis+ meters may be fitted with:

- » Cyble modules from the factory
- » Non return-valve for outlet pipe (EN 13959)
- » Removable cap
- » Connection set (delivered separately)

# SMART METERING SOLUTIONS

Cyble modules allow communication through a large range of advanced and reliable data collection solutions (AMR & AMI), along with a rich dataset.

- » Walk-by & Drive-By Systems
- » Radian Fixed Network
- » M-Bus & wireless M-Bus systems (OMS)
- » LoRaWAN & Sigfox networks dedicated to the IoT (Cyble4ioT)
- » Systems based on universal pulse outputs



Cyble RF (wireless, radio frequency)



Wired Cyble (Sensor & M-Bus)



Aquadis+ equipped with cyble 4IoT



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