## 620MC

620C/ Volumetric Meter-Composite Body Dry Dial



#### **Main characteristics**

#### DN 15 to 25, PN16

Light and easy to handle

Compatibility with all new and planned regulations for potable water

Unrivalled accuracy and measuring range

High resistance to impurities and aggressive water

Quiet operation

#### **Applications**

The 620C/620MC is a high precision meter.

Due to its unique piston measuring chamber even drops of water are counted.

With the 620C/620MC you are assured of continuously good metrology.

A clear view is either provided through a register with an integrated wiper<sup>(1)</sup> or a sealed metal/glass register that does not fog. For a faster and more comfortable readout the 620C/620MC is prepared for AMR.

Due to our broad product range of system solutions you can adapt the 620C/620MC to all your AMR needs.

Not least by its tamper proof design and its long life span you can be confident in selecting the 620C/620MC.

(1) not available for 620C DN 25



#### **Typical Marking**

# Accuracy (%)



Markings can vary according different market or metrological specifications.

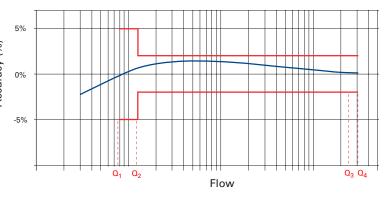
#### Accuracy and reliability

Thanks to the advanced design of its measuring chamber the meter has an extreme low starting flow.

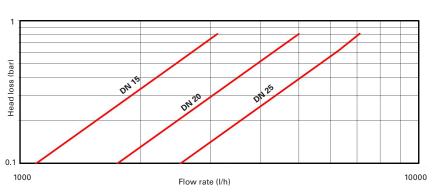
It can be supplied with metrological seal according the MID regulation 2014/32/EU with a ratio R up to 400.

Foreign matter present in the water is filtered out by either the tubular strainer on the inlet or the seat strainer. Particles can go through the meter without damage; the patented elastic pivot enables the particles to pass between the piston and the measuring chamber. All the gears are situated in the dry register, which eliminates any risk of blockage due to suspended particles in the water.

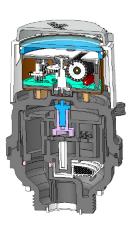
The 620C/620MC water meter keeps its metrological accuracy for many years of operation, even in very difficult working conditions.



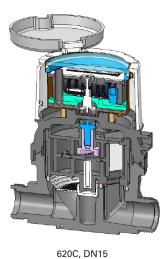
## **Typical Head Loss Curve**

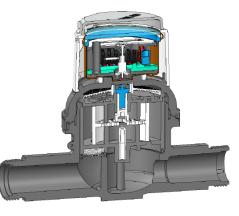


#### **Cross Section**



620MC





620C, DN 20



#### **Approvals**

EC type-examination certificate

in conformity with

- 2014/32/EU (MID)
- OIML R49:2013
- EN 14154:2005+A2:2011
- ISO 4064:2014

Q<sub>3</sub> 2.5 DE-07-MI001-PTB002

Q<sub>3</sub> 4 DE-09-MI001-PTB004

Q<sub>3</sub> 6.3 DE-12-MI001-PTB004

Certificate of compliance for potable drinking water

KTW/DVGW (D)	ACS (F)
WRAS (UK)	Hydrocheck (B)

KIWA ATA (NL)

#### Legibility

The display on 8 drums (5 for m<sup>3</sup>, 3 for litres) and 1 pointer ensures perfect readability. The lowest resolution is 0.05 litres. The dial has a central disc whose rotation indicates the passage of water. This indicator can be used to reveal a downstream leak.

The plastic dial <sup>(1)</sup> is equipped with a wiper for optimum legibility under all conditions. The 620C/620MC water meter can operate in any position and its dry dial register can be rotated up to 350°. The dial can therefore be easily read under all conditions of use. As an option, the meter can be supplied with a metal/glass register, making it perfectly water-tight (IP 68).

 $^{\scriptscriptstyle (1)}$  not available for 620C DN 25

## **Dimensional Diagram**

## **Performance Data**

## Metrological characteristics in accordance with Measuring Instruments Directive

			Coaxial Manifold	inline		
Nominal Size	DN	mm	#	15	20	25
Permanent flowrate	0 <sub>3</sub>	m³/h	2.5	2.5	4	6.3
Ratio "R"	Q <sub>3</sub> /Q <sub>1</sub>	R	40 / 80 / 160 / 315 / 400			40 / 80 / 160
Maximum flowrate <sup>(1)</sup>	Q <sub>4</sub>	m³/h	3.125	3.125	5.0	7.875
Minimum flowrate <sup>(1)</sup> (tolerance ±5%)	Q <sub>1</sub>	l/h	6.25	6.25	10.0	39.375 <sup>(2)</sup>
Transitional flowrate <sup>(1)</sup> (tolerance ±2%)	0 <sub>2</sub>	l/h	10.0	10.0	16.0	63

(1) Values for R=400 (2) at R160

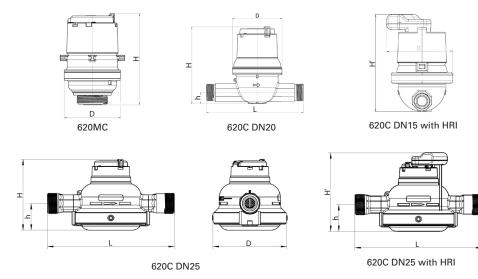
#### **Dimensions and Weights**

			Coaxial Manifold	inline		
Nominal Size	DN	mm	#	15	20	25
Length	L	mm		170 (1)	190 <sup>(3)</sup>	260
Width	D	mm	87	87	97.2	151
Total height	Н	mm	140.3	142.6	149	145
Total height with HRI	H′	mm	155.9	161.5	167.9	163.9
Height to pipe axis	h	mm		18.95	21.5	54.6
Tail Dia	meter	inch	G 11⁄2" B	G ¾" B (2)	G 1" B	G1¼" B
Piece		mm	47.8	26.44	33.25	41.91
Thread	Pitch		2.31	1.81	2.31	2.31
Weight		kg	0.5	0.6	0.68	1.3

(1) Also available in length 110/115/134 and 165 mm

(2) Also available in length 165 and 190 mm with 1" threads

(3) Also available in length 165 and 220 mm



For the installation guidelines please refer to our website and the Volumetric Meter Manual.

### **HRI options**

The dial of the meter is equipped as standard with a pointer able to activate the HRI sensor. By detecting the rotation of the pointer and its direction, the electronic circuitry of the HRI converts this into reliable electrical output signals.

There are two main variants of HRI:

#### 1. HRI Pulse Unit (A-version)

This gives a pulse output which can be used for reliable counting of the volume.

#### 2. HRI Data Unit (B-version)

The HRI Data Unit a is a data interface which supplies serial output according M-Bus standard EN13757 which can be connected to M-Bus converters.

The serial interface can also be used to configure a pulse output. This pulse output can be used alternatively to the serial output.

For more information please refer to the HRI datasheet.





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