# **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

Installation with or without meter bracket

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(1) or a sealed metal/glass register that does not fog. For a faster and more comfortable readout the 620C/620MC is prepared for AMR.

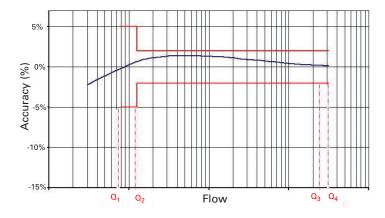
Due to our broad product range of system solutions you can adapt the 620C/620MC to all your AMR needs.

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 Accuracy Curve**

Markings can vary according different market or metrological specifications.



# Accuracy and reliability

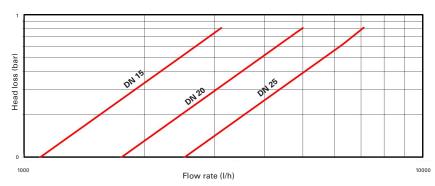
Thanks to the advanced design of its measuring chamber the meter has an extreme low starting flow.

It can be supplied with metrological seal according the MID regulation 2004/22/EC with a ratio R up to 400.

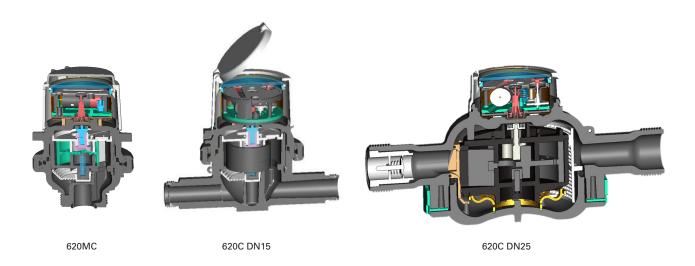
Foreign matter present in the water is filtered out by either the tubular strainer on the inlet or the seat strainer. Particles can go through the meter without damage; the patented elastic pivot enables the particles to pass between the piston and the measuring chamber. All the gears are situated in 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**



# **Approvals**

#### EC type-examination certificate

in conformity with

- 2004/22/EC (MID)
- EN 14154:2007
- OIML R49:2006
- ISO 4064:2005

 $O_3$  2,5 DE-07-MI001-PTB002  $O_3$  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 m³, 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).

(1) not available for 620C DN 25

#### **Performance Data**

# Metrological characteristics - Directive 2004/22/EC (MID) & EN 14154:2007

			Coaxial Manifold	inline		
Nominal Size	DN	mm	#	15	20	25
Permanent flowrate	O <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 /	40 / 80 / 160		
Maximum flowrate (1)	O <sub>4</sub>	m³/h	3.125	3.125	5.0	7.875
Minimum flowrate (1) (tolerance ±5%)	Q <sub>1</sub>	l/h	6.25	6.25	10.0	39.375 <sup>(2)</sup>

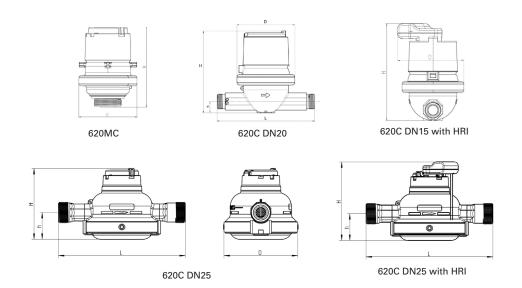
<sup>(1)</sup> Values for R=400

# **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	101.7	101.7	113.5	151
Total height	Н	mm	140.3	142.6	149	145
Height to pipe ax	is h	mm		18.95	21.5	54.6
Tail	Diameter	inch	G 1½" 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

<sup>(1)</sup> Also available in length 110/114/115/130/134 and 165 mm

# **Dimensional Diagram**



<sup>(2)</sup> at R160

<sup>(2)</sup> Also available in length 165 and 190 mm with 1" threads

<sup>(3)</sup> Also available in length 165 and 220 mm

# **HRI options**

The dial of the 620C/620MC meter is equipped as standard with a pointer able to activate the HRI sensor. The HRI reproduces the mechanical register index exactly, by detecting the direction of rotation of the pointer. It provides a reliable pulse and data interface for remote and mobile readout. The HRI can be fitted on site to already installed Sentinel water meters or ordered factory fitted to the meter.

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

The litre pointer activates the HRI allowing a basic resolution of one litre per pulse. The output pulse value can be factory set using the divisor D

(e.g. D = 100 means 1 pulse per 100 litres).

The possible pulse output D values are:

1 / 10 / 100 / 1000 / 2.5 / 25 / 250





