

ResidiaJet

Single jet water meter with modular register and communication module option



Main Characteristics

DN 15 - 20

Single jet dry dial meter with magnetic coupling
Magnetic transmission
Suitable up to 50 °C as a cold water meter
Suitable from 30 °C to 90 °C as a warm water meter
Insensitive to upstream disruptive elements
355° rotating register
High resistance to water impurities
AMR pre-equipped for pulse or radio interface
Available with non return valve

Special features

Protection against external magnetic fields in accordance with EN 14 154, but over the whole measuring range

Modular register; prepared to take an electronic communication module (e.g. M-Bus)

Option Factory fitted with an electronic communication module

Residia-M M-Bus module for systems in accordance with EN 13757-3 (IEC 870/EN 1434-3)

Residia-P Pulse module for digital pulses (e.g. for remote counting)

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 water flow. This indicator can be used to reveal a downstream leak.

The ResidiaJet water meter operates in horizontal position and its dry dial can rotate up to 355°. The dial can therefore be easily read under all conditions of use.

Approvals

EC type-examination certificate

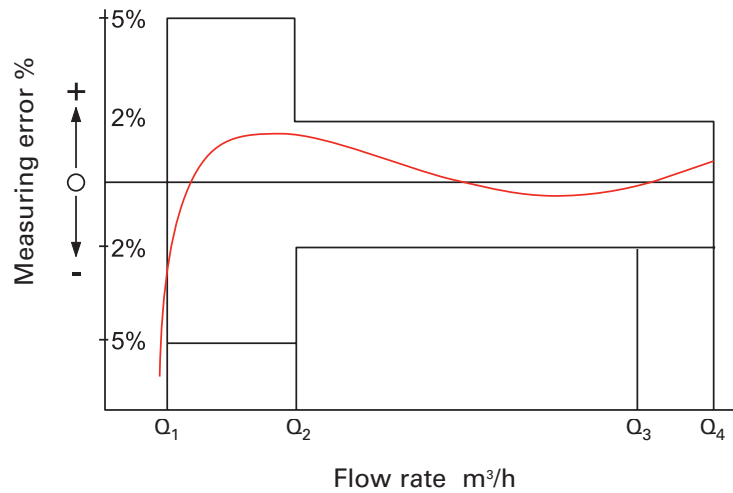
in conformity with

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

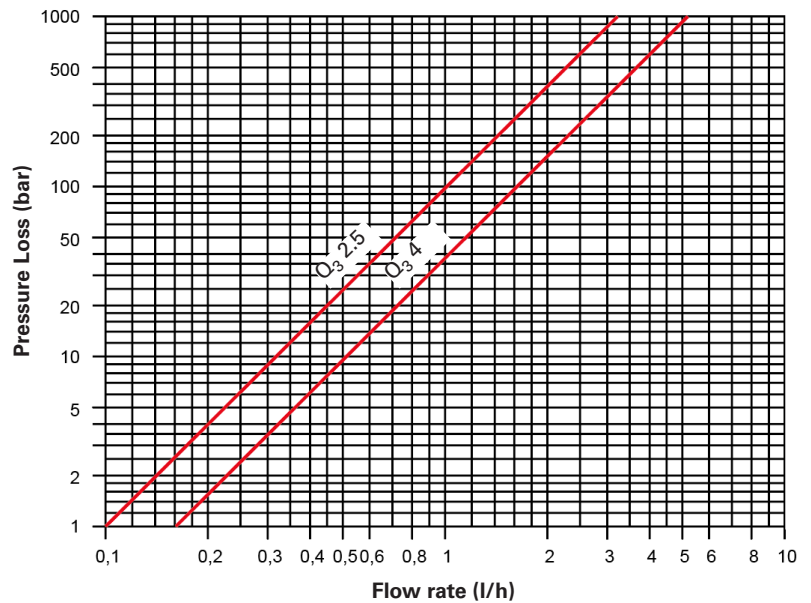
DE-12-MI001-PTB013 (Q₃ 2.5)

DE-16-MI001-PTB008 (Q₃ 4)

Typical Accuracy Curve



Typical Head Loss Curve



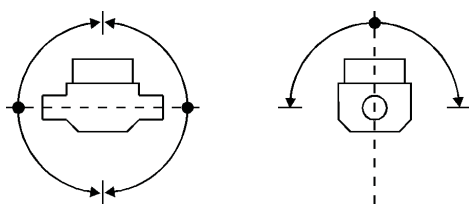
Technical characteristics

Metrological characteristics

Nominal Size	2.5 m ³ /h				4 m ³ /h			
	Temperature Range	0.1 °C to 50 °C		30 °C to 90 °C		0.1 °C to 50 °C		30 °C to 90 °C
Installation Position	Horizontal ¹⁾	Vertical	Horizontal ¹⁾	Vertical	Horizontal ¹⁾	Vertical	Horizontal ¹⁾	Vertical
Flowrate Range:								
Q ₃ /Q ₁	100 ²⁾	40	100 ²⁾	40	100 ³⁾	40	100 ³⁾	40
Q ₂ /Q ₁	1,6							
Q ₁	0.025 m ³ /h	0.063 m ³ /h	0.025 m ³ /h	0.063 m ³ /h	0.040 m ³ /h	0.100 m ³ /h	0.040 m ³ /h	0.100 m ³ /h
Q ₂	0.040 m ³ /h	0.1 m ³ /h	0.040 m ³ /h	0.1 m ³ /h	0.064 m ³ /h	0.160 m ³ /h	0.064 m ³ /h	0.160 m ³ /h
Q ₃	2.5 m ³ /h				4 m ³ /h			
Q ₄	3.125 m ³ /h				5 m ³ /h			
Accuracy Class	± 2% (Q ₂ ≤ Q ≤ Q ₄) for water temperatures ≤ 30 °C ± 3% (Q ₂ ≤ Q ≤ Q ₄) for water temperatures > 30 °C ± 5% (Q ₁ ≤ Q ≤ Q ₂)							
Pressure Range	0.3 bar (0.03 MPa) to 16 bar (1.6 MPa)							
Pressure Loss Class ΔP	0.63 bar (at Q ₃)							
Stream profile sensitivity	U0D0							
Environmental Class	O							
Mechanical Environmental Conditions	M2							
Climatic Environmental Conditions	5 °C to 70 °C							

- 1) no top down installation
 2) Also available in R160, 125, 80, 63, 50, 40
 3) Also available in R80, 63, 50, 40

Permissible installation position



Register max. 90° to the side
 (not the overhead position)

Metrological performance up to R125 for Q₃ 2.5 and R100 for Q₃ 4 is achieved only with horizontal installation, register upwards. In vertical installation only R40.

Installation position optional, except overhead position

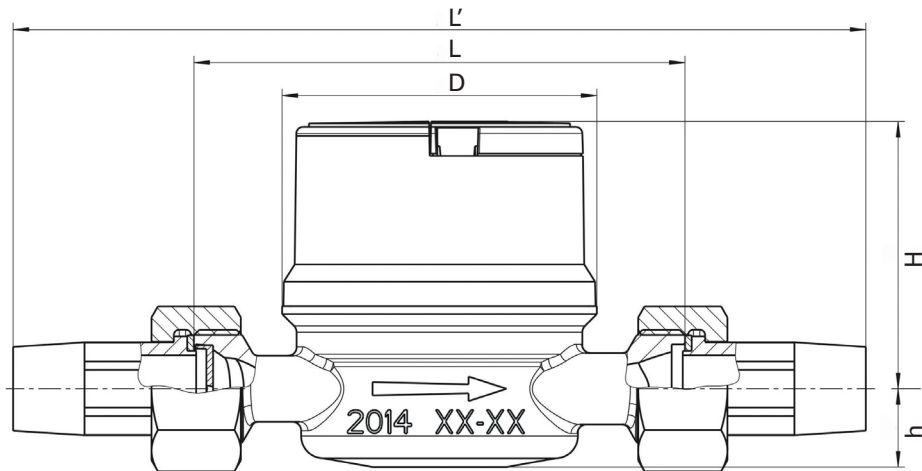
Meter head can be aligned for best readout position

Sizes and weight

Nominal Size	DN	mm	15				20	
Length	L	mm	80	110	115		130	130 ¹⁾
Length with connectors	L'	mm	159	189	194	212	209	227
Width	D	mm	70	70	70		70	70
Total height	H	mm	60	60	60		60	60
Height to pipe axis	h	mm	17.5	17.5	17.5		17.5	17.5
Piping dimension		inch	R $\frac{1}{2}$ "	R $\frac{1}{2}$ "	R $\frac{1}{2}$ "		R $\frac{1}{2}$ "	R $\frac{3}{4}$ "
Tail	Diameter		G $\frac{3}{4}$ "B	G $\frac{3}{4}$ "B	G $\frac{3}{4}$ "B	G $\frac{7}{8}$ " x $\frac{3}{4}$ "	G $\frac{3}{4}$ "B	G1"
Weight		g	0.41	0.45	0.47		0.48	0.50

1) Also available in 80 mm, 110 mm and 130 mm

Dimensions



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Certified according to ISO 9001
Quality Management System Quality Austria Reg.no. 3496/0

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