

Compact and Hermetically Sealed
High Precision
 Easy Reading

Multimag

Turbine type residential water meter

- ▶ **Multi-jet Class B**
- ▶ **Superior accuracy and long-term reliability**
- ▶ **Protected against magnetic fraud**



Multimag is a Class B multi-jet turbine type meter with extra dry register for residential applications.

The Technology

Multimag combines the advantages of turbine type technology together with the proven reliability of extra dry register. The magnetic drive technology allows the turbine to be the only part in contact with water passing through the meter.

Metrological performance

- ISO 4064 class B in horizontal positions
- The Multimag second generation maintains its class B metrological performance when installed with angle of up to $\pm 30^\circ$ with reference to the vertical axis.

Reliability-Durability

- The register is hermetically sealed to protect the inner parts from moisture and dust penetration.
- Sapphire is used in the main bearing to ensure the lowest friction possible.
- The body is made of bronze and is externally protected with high-resistance epoxy-polyester paint, electrostatically applied.
- The meter has a special shield to avoid magnetic fraud.

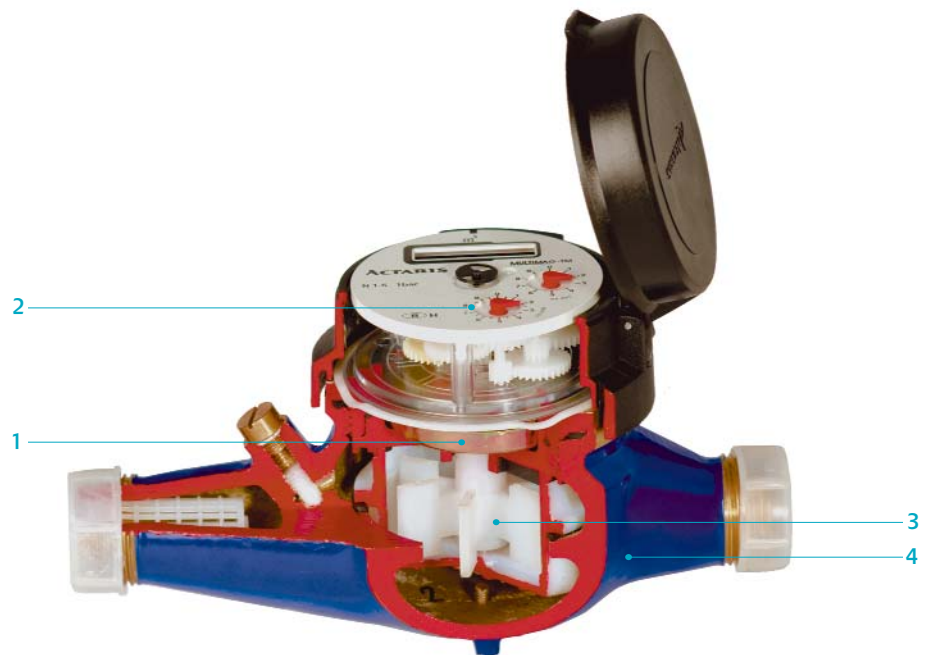
Construction

Magnetic drive allowing the turbine to be the only moving part in the water flow ❶.

Extra-dry register allowing easy reading and resistant against UV-light, moisture, and dust ❷.

Balanced turbine ensuring minimal wear and tear on the bearings ❸.

High-protection body specially designed to provide a smooth flow of water with low head loss ❹.



Maintenance

The construction of the meter makes assembly and maintenance of the Multimag meter real simple.

Ease of Reading

Multimag register combines the following advantages:

- Orientable register.
- Six cyclometric wheels and two pointer dials for accurate reading.
- Central disc, turning at the same speed as the turbine, for automatic calibration and leak detection.

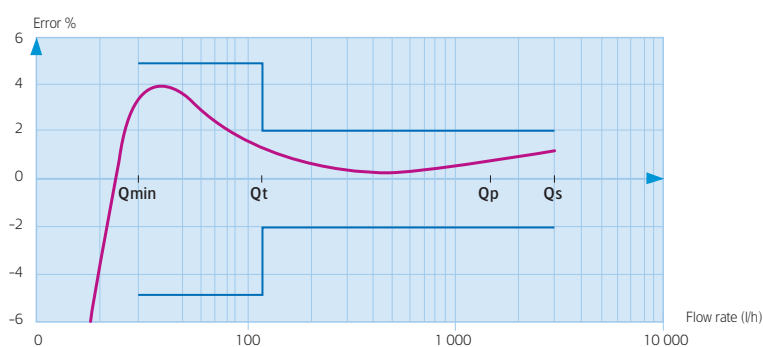


► Register for DN 15 and 20 meters

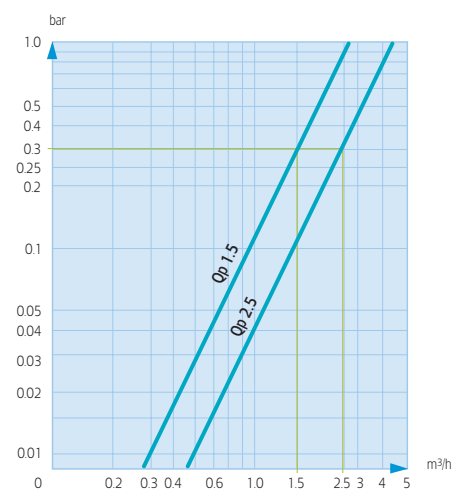
Metrological Characteristics

Nominal diameter (DN)		mm	15	20
		inches	1/2"	3/4"
ISO 4064 metrology class			B horizontal position	
Maximum flow rate	Qs	m ³ /h	3	5
Nominal flow rate	Qp	m ³ /h	1.5	2.5
Transitional flow rate	Qt (± 2%)	l/h	120	200
Minimum flow rate	Qmin (± 5%)	l/h	30	50
Starting flow rate		l/h	<10	15
Maximum admissible temperature		°C	50	
Maximum admissible working pressure		bar	10	
Pressure loss at	Qp	bar	<0.3	
	Qs	bar	<1.0	
Indicator range		m ³	9 999	
Minimum scale interval		l	0.05	

Typical Accuracy Curve (Multimag DN15)

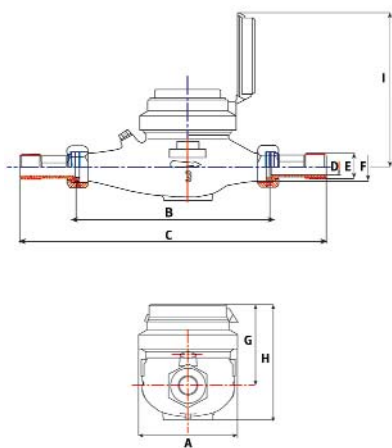


Head Loss (Multimag DN 15 and 20)



- ▶ The meter is manufactured according to the most demanding management standards

► Dimensions



Dimensions

Nominal diameter (DN)	mm	15	20
	inches	1/2"	3/4"
A Meter width	mm	80	
B Length without fittings	mm	165	190
C Length with fittings	mm	245	290
D Internal diameter	mm	13	19
E Coupling thread (BSPT)*	inches	1/2"	3/4"
F Meter thread (BSP)*	inches	3/4"	1"
G Height to pipe centre line	mm	70	
H Total height with closed lid	mm	100	
I Total height with opened lid	mm	120	

* NPT/NPS optional threads

Options

Multimag meters may be fitted with:

- Standard register with thermoplastic dome, UV stabilized and ultrasonically welded.
- Glass register.
- Pre-equipped Cyble target register for remote reading capabilities.
- Non-return valve.

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