



Multimag Cyble

Commercial and Industrial applications DN25 to DN50

Multimag Cyble is an excellent multi-jet turbine water meter for commercial and industrial applications, ready for automated metering reading (AMR).

Thank to the growing need of automation in the metering application, Itron has developed Multimag Cyble in order to provide very good and durable metrology performance combined with AMR capability.

FEATURES AND BENEFITS

- » Pre-equipped
- » Anti fraud register
- » Reliability
- » Robustness

Communication

Pre-equipped register that enables the use of Cyble communicating modules.

At anytime the Cyble modules can be easily mounted, making it a powerful communicating device for several AMR systems:

- » Radio walk-by systems
- » Radio fixed data collection
- » M-bus wired systems
- » Any other system based on pulse outputs

Technology

The best metrological performance is guaranteed thanks to the great resistance of the hydraulic components and the perfect balance of the turbine.

In addition to that it is equipped with a powerful magnetic transmission combined with an extra dry register. All that resulting in a very high accuracy and durability.

Metrology Performance

Class B in horizontal position according to ISO 4064 (1999).

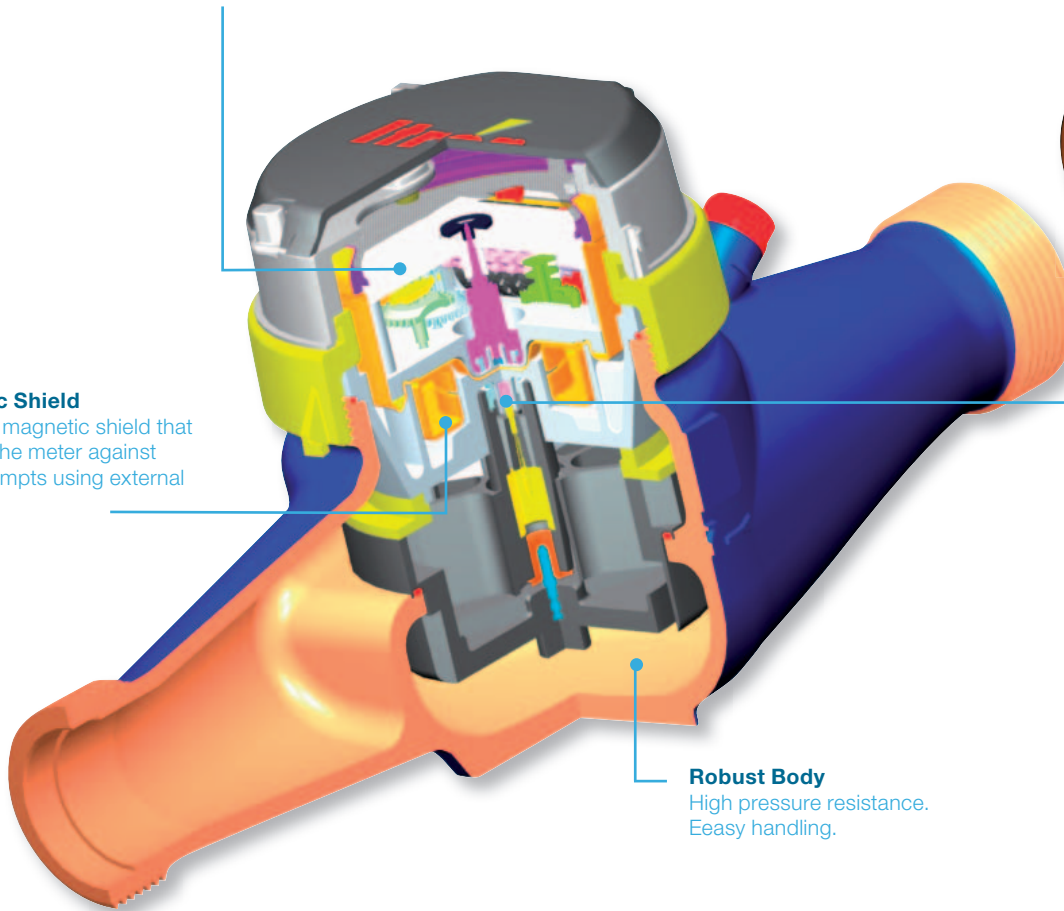
Main Characteristics

- » Enhanced design and technologies combining high performance with long-term reliability
- » High quality engineering materials
- » Register can be oriented to allow easily reading
- » 100% of the products are calibrated on electronic test benches
- » All calibration results can be provided
- » INMETRO approval.



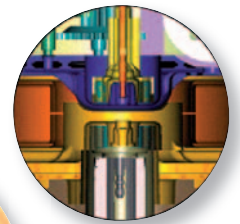
Registers

It is made with a copper case and glass lens, hermetically sealed it is resistant against condensation and also water proof (IP68). As an option, it is available plastic version (IP67). It is equipped with the Cyble target, that allows the mounting of any Cyble module.



Magnetic Shield

Exclusive magnetic shield that protects the meter against fraud attempts using external magnets.



Magnetic Transmission

The transmission between the turbine and extra-dry register is achieved by magnetic coupling ensuring a precise and reliable metering.

Robust Body

High pressure resistance.
Easy handling.



CYBLE MODULE FIXATION

The Cyble modules are mounted on the top of the register, its fixation is secured trough 4 different points, including a screw that is sealed. That assures reliability and security for AMR.

ADAPTABILITY

The Multimag Cyble can be equipped with Cyble modules, becoming a remote reading interface.

Benefits & Characteristics:

- » Fast reading and billing
- » Leak detection
- » Reverse flow detection
- » Fraud detection
- » Study of customers habits
- » Reliability
- » Immune to magnetic fraud
- » Field tested for over 5 years



Cyble M-Bus



Cyble Pulse



Cyble RF

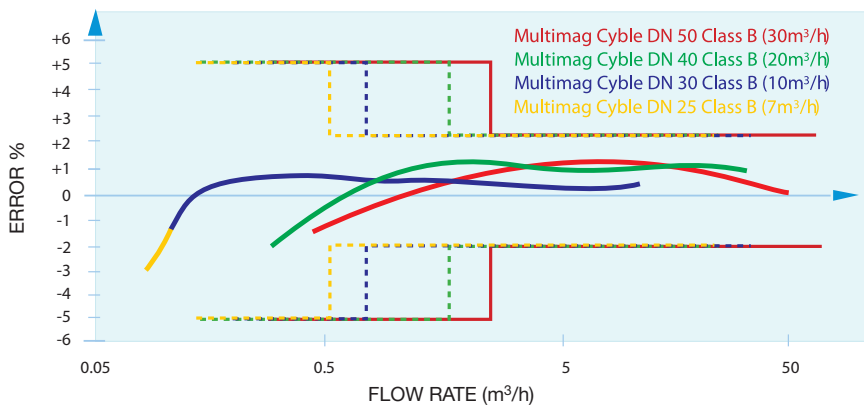


Handheld for walk-by system



Radio drive-by system

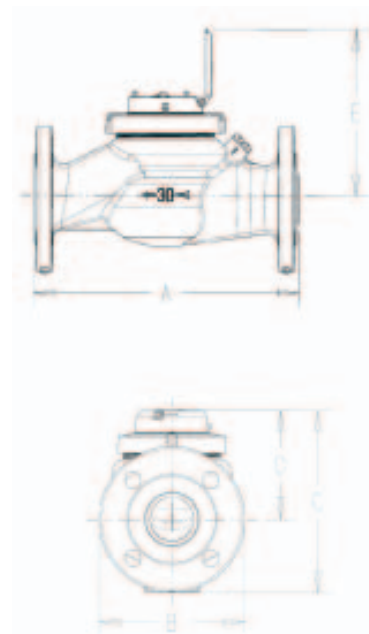
TYPICAL ACCURACY CURVE - MULTIMAG CYBLE



Multimag Cyble equipped with Cyble RF

Technical Characteristics

Nominal diameter (DN)	mm	25	30	40	50
	threads	1 1/4"	1 1/2"	2"	Flanged
Metrology*	Class	B (H)	B (H)	B (H)	B (H)
Typical Start-up	L/h	25	30	70	90
Minimum Flow Rate	L/h	70	100	200	300
Transitional Flow Rate	L/h	280	400	800	1200
Nominal Flow Rate	m ³ /h	3.5	5.0	10	15
Maximum Flow Rate	m ³ /h	7	10	20	30
Maximum temperature	°C			40	
Maximum Operating Pressure	bar			16	
Head Loss at Qmax	bar			< 1	
Maximum Reading	m ³	9.999 or 99.999		99.999	
Minimum Reading	L	0.02		0.2	



Dimensions

Dimensions

Nominal diameter (DN)	mm	25 / 30	40	50
A (length)	mm	260	300	270
B (Width)	mm	98	130	165
C (Height)	mm	120	150	210
D (Axle to lid)	mm	70	90	110
E (Axle to the open lid)	mm	140	160	180



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