



# Multimag Cyble

Commercial and Industrial applications DN25 to DN40

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 Multimig 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 R50 in horizontal position according to :

- ISO 4064 (2014)
- MID certificate
- SNI2547 - 2008.

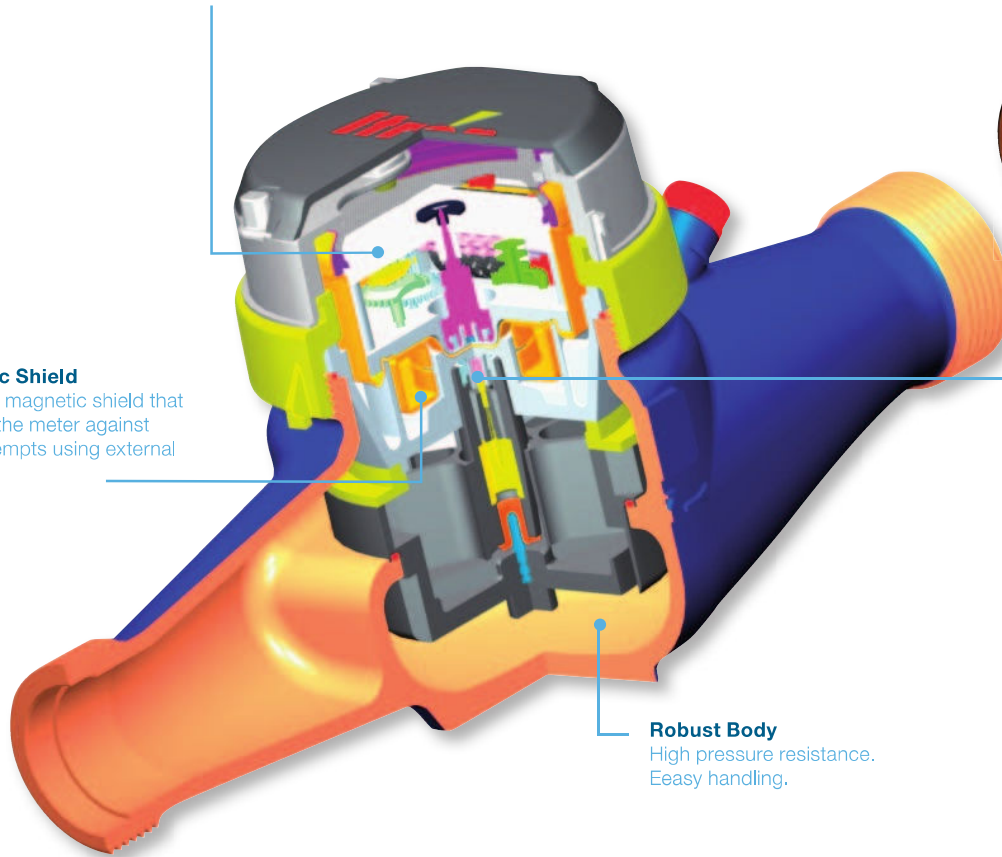
## Main Characteristics

- » 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
- » MID 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 through 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

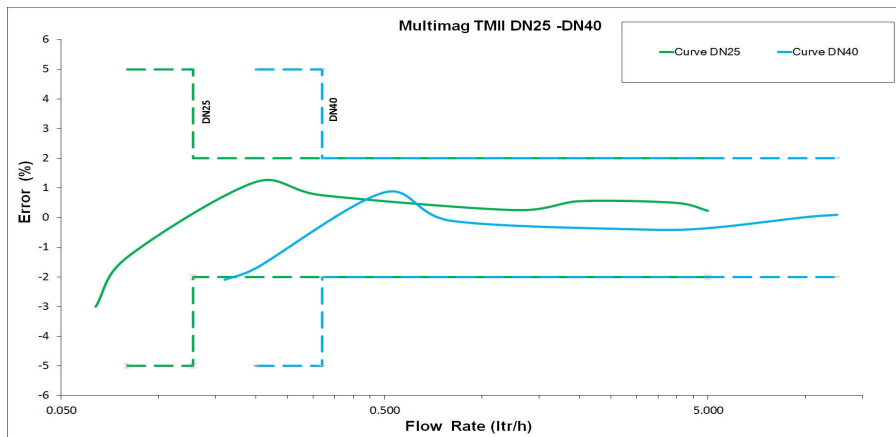


Handheld or Smartphone for walk-by system

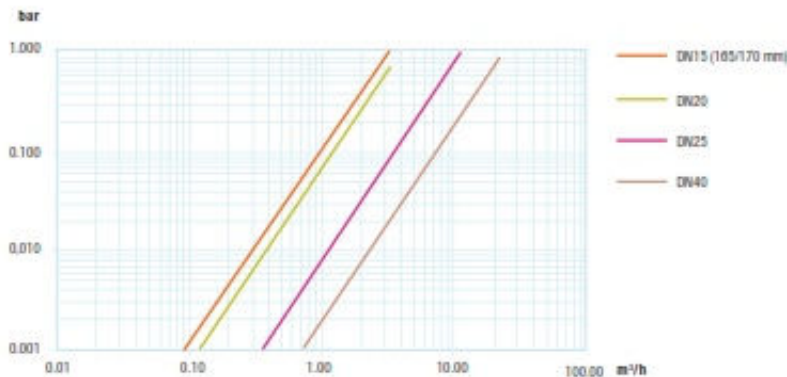


Radio drive-by system

**TYPICAL ACCURACY CURVE - MULTIMAG CYBLE**



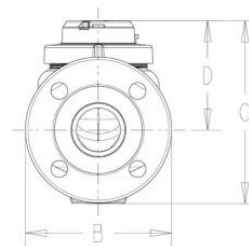
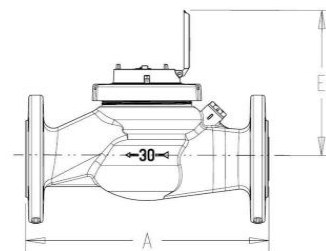
**TYPICAL HEAD LOSS CURVE - MULTIMAG CYBLE**



Multimag Cyble equipped with EverBlu Cyble

## Technical Characteristics

Nominal diameter (DN)	mm	25	40
	threads	1 1/4	2"
Metrology*	Class	R50 (H)	R50 (H)
Typical Start-up	L/h	25	70
Minimum Flow Rate (Q1)	L/h	80	200
Transitional Flow Rate (Q2)	L/h	128	320
Nominal Flow Rate (Q3)	m <sup>3</sup> /h	4.0	10
Maximum Flow Rate (Q4)	m <sup>3</sup> /h	5.0	12.5
Maximum temperature	°C		40
Maximum Operating Pressure	bar		16
Head Loss at Qmax	bar		< 1
Maximum Reading	m <sup>3</sup>	99999.99	999999.9
Minimum Reading	L	0,02	0,2



## Dimensions

Nominal diameter (DN)	mm	25	40
A (length)	mm	260	300
B (Width)	mm	98	130
C (Height)	mm	120	150
D (Axle to lid)	mm	70	90
E (Axle to the open lid)	mm	140	160



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