



# TD8

## Rotary piston volumetric water meter

TD8 is a piston-type water meter suitable for clean water conditions in residential and commercial environments. Measuring water from very low to very high flows, TD8 provides accuracy beyond category standards. With tamperproof capabilities and a communication-ready design, TD8 delivers proven robustness to Australian utilities.

### ACCURACY BEYOND INDUSTRY STANDARDS

Designed to reduce head losses, Itron's TD8 extensive measuring range encompasses very low to very high flows (R400), ensuring sustained accuracy beyond market standards.

### PROTECTING THE INTEGRITY OF CONSUMPTION DATA

Combining Itron's proven metrology and an embedded anti-tampering system protecting the register, TD8 preserves the accuracy and reliability of water consumption data.

### COMMUNICATION-READY FOR WIRELESS DATA COLLECTION

Compatible with Itron's Cyble technology, TD8 meters support communication through industry standards such as M-Bus, pulse outputs, or wireless radio-frequency for connectivity to drive-by/walk-by or networked data collection systems.

### FEATURES

- » Very large measuring range with Q3/Q1 Ratio up to R400 (DN20)
- » Very low starting flow allowing for leakage detection
- » Easy to read extra dry register with large contrasted roller numbers
- » Embedded wiper for readability in humid conditions
- » 360° Register rotation adjustable on site
- » IP 68 case protection
- » Lead free brass in compliance with NCC 2022 Vol. 3

### Communication

Compatible with Itron's Cyble technology

- » Pulse output
- » M-Bus
- » Radio frequency

### Standard Compliance

- » NMI R49-1 class 2 in all positions
- » AS 3565.1



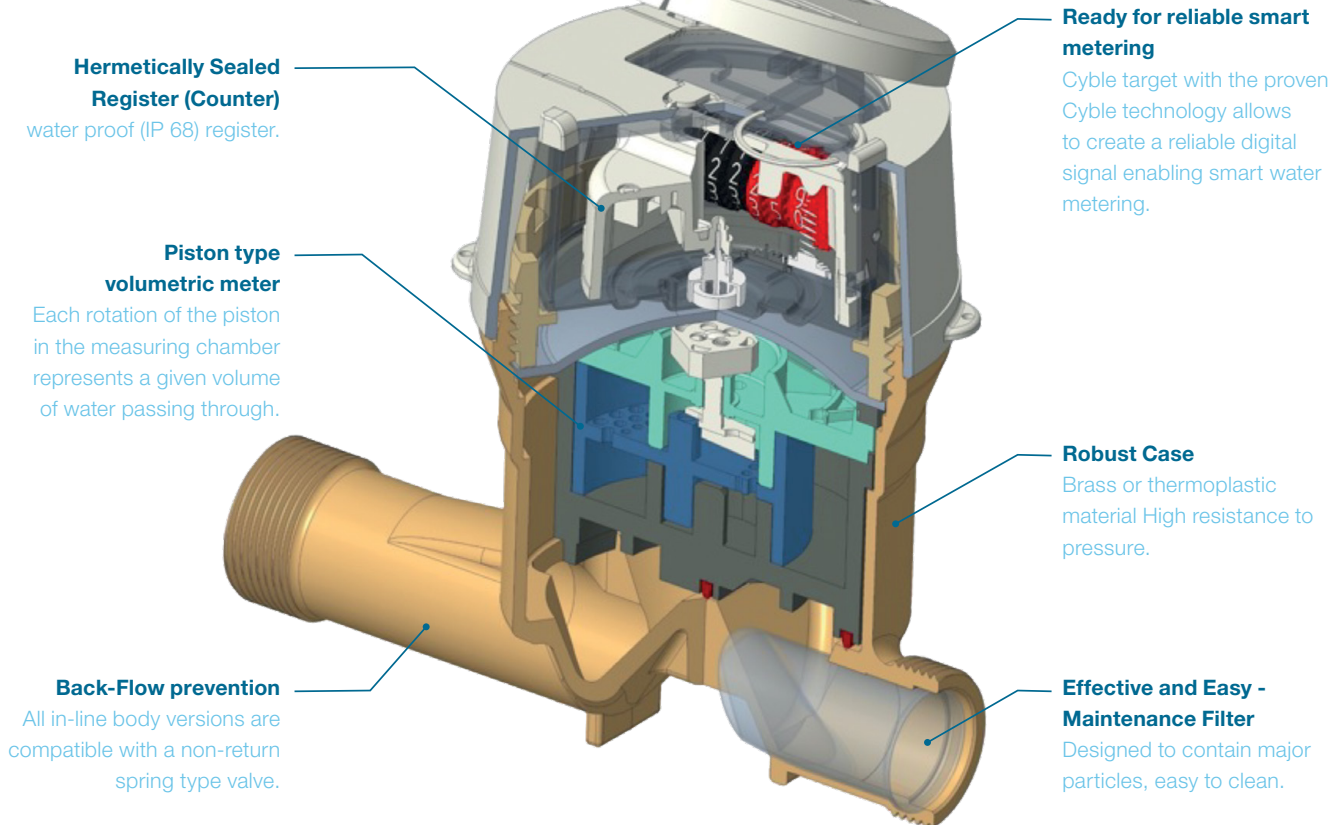
Cyble 5 fitted on TD8 DN20

## THE TECHNOLOGY

TD8 combines the advantages of piston type technology together with proven reliability of the extra dry register. With no gears in contact with the water, the

smooth piston chamber ensures long term accuracy. The irreversible meter cap mounting makes it totally tamperproof without the use of lead seals.

## WORKING PRINCIPLE



### Hermetically Sealed Register (Counter)

water proof (IP 68) register.

### Piston type volumetric meter

Each rotation of the piston in the measuring chamber represents a given volume of water passing through.

### Back-Flow prevention

All in-line body versions are compatible with a non-return spring type valve.

### Ready for reliable smart metering

Cyble target with the proven Cyble technology allows to create a reliable digital signal enabling smart water metering.

### Robust Case

Brass or thermoplastic material High resistance to pressure.

### Effective and Easy - Maintenance Filter

Designed to contain major particles, easy to clean.



Cyble RF (wireless, radio frequency)



Wired Cyble (Sensor & M-Bus)

## CYBLE TECHNOLOGY

This proven technology for smart metering allows to mount a Cyble module on a water meter and has the following key advantages:

- » Simple & robust installation by clip-in (either pre-installation or retrofit)
- » Perfect correlation of the digital index
- » Reliable electronic detection principle (no wear or bounce)
- » Not sensitive to magnetic fields (reduce risk of tampering)

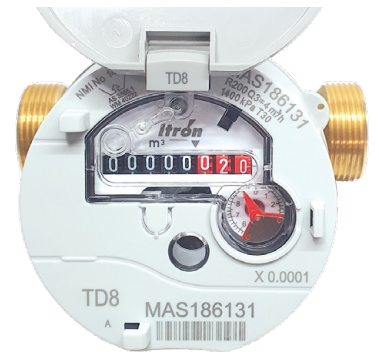
## SMART METERING SOLUTIONS

Cyble modules allow communication through a large range of advanced and reliable data collection solutions (AMR & AMI), along with a rich dataset.

- » Walk-by & Drive-By Systems
- » Radian Fixed Network
- » M-Bus & wireless M-Bus systems (OMS)
- » LoRaWAN & Sigfox networks dedicated to the IoT (Cyble5)
- » Systems based on universal pulse outputs

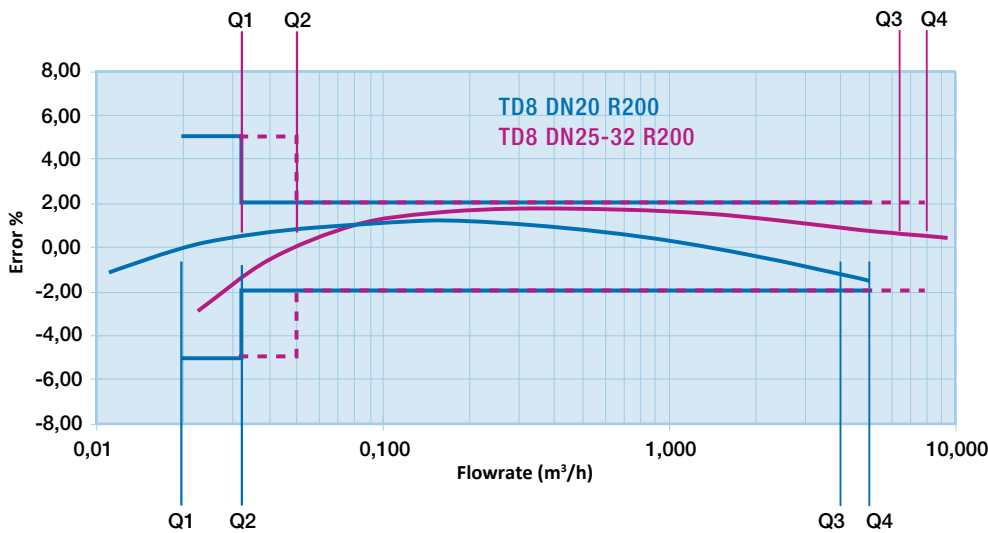
## METROLOGICAL CHARACTERISTICS

Meter Capacity	m <sup>3</sup> /h	20	25	32
NMI R49-1 approval		14/3/3	14/3/26	14/3/26
Maximum admissible temperature	°C		30	
Maximum temperature for short period	°C		50	
Maximum admissible pressure	kPa	1400/1600	1600	1600
Pressure loss P (Q4)	kPa		<100	
Flow rate ratio (Q3/Q1)		200/400	200/315	200/315
Overload flow rate (Q4)	m <sup>3</sup> /h	5	7.875	7.875
Permanent flow rate (Q3)	m <sup>3</sup> /h	4	6.3	6.3
Transitional flow rate (Q2)	l/h	16/32	40	40
Minimum flow rate (Q1)	l/h	10/20	25	25
Starting flow rate	l/h	2	6	6
Indication range	m <sup>3</sup>		10 <sup>5</sup>	
Minimum scale interval	l		0.5	
Communication pre-equipment		Cyble Technology		



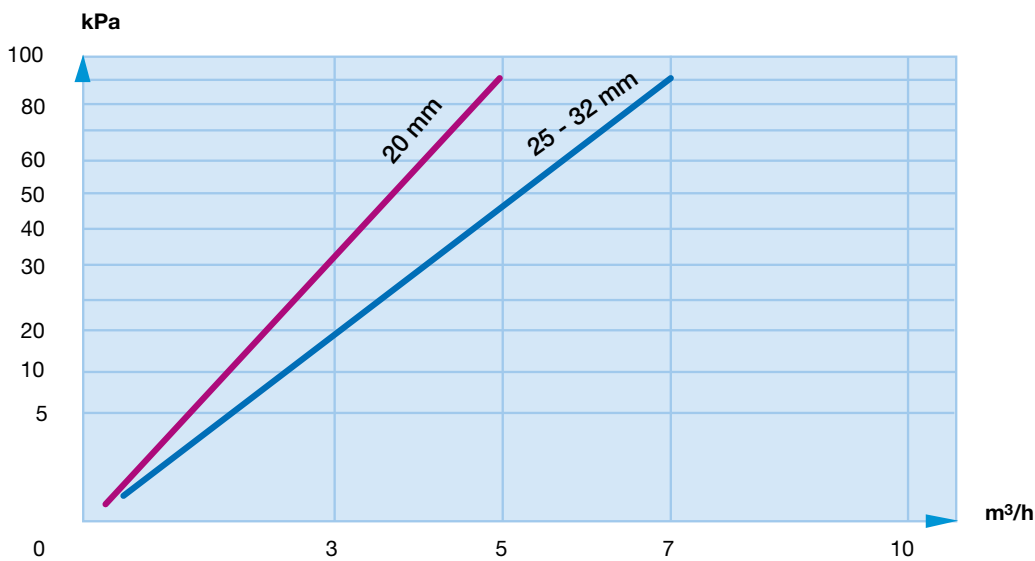
TD8 indicator

## TYPICAL ACCURACY CURVE



TD8 coaxial version

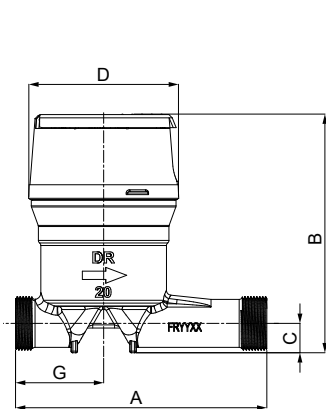
## HEAD LOSS



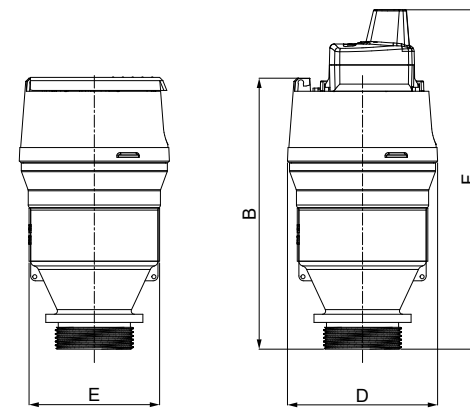
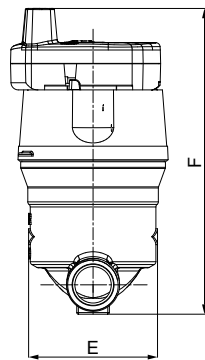
## DIMENSIONS

Nominal diameter (DN)	mm	20		20 Coaxial		25		32	
Meter Thread	inches mm	Gasket seat	Ball seat	G1 ¼ 12-8"	G1 ½	Gasket seat	Ball seat	G1 ¼ (14TPI) 38-8" (14TPI)	32mm Flange
A	mm	154	154	140	-	175	178	178	190
B	mm	146.3	146.5	149.2	167	142.5	142.5	142.5	142.5
C	mm	18	18.3	20.1	-	41.5	41.5	41.5	41.5
D	mm	92	92	92	92	-	-	-	-
E	mm	79	79	79	80	104	104	104	104
F	mm	187.4	190.3	190.3	195.3	184	184	184	184
G	mm	54	54	70	-	87.5	89	89	95
Weight*	kg	1.2	1.452	1.28	1.19	2.8	3.1	3.1	3.9

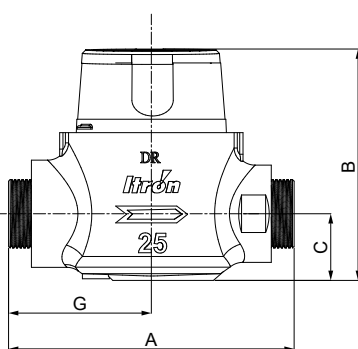
\*Without module



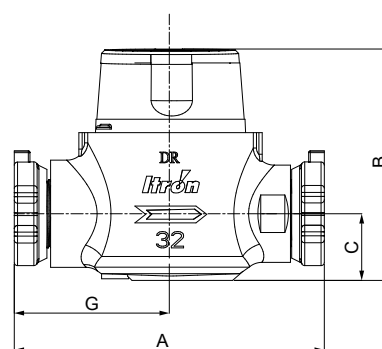
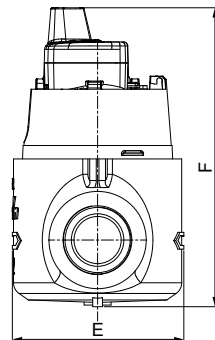
DN 20



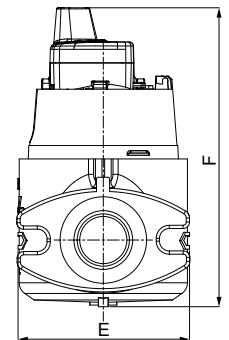
DN 20 Coaxial



DN 25



DN 25



## OPTIONS (NON EXHAUSTIVE LIST)

TD8 meters may be fitted with:

- » Removable 316 stainless steel filter inserted in the inlet
- » Colour coded body available
- » Copper/glass register

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