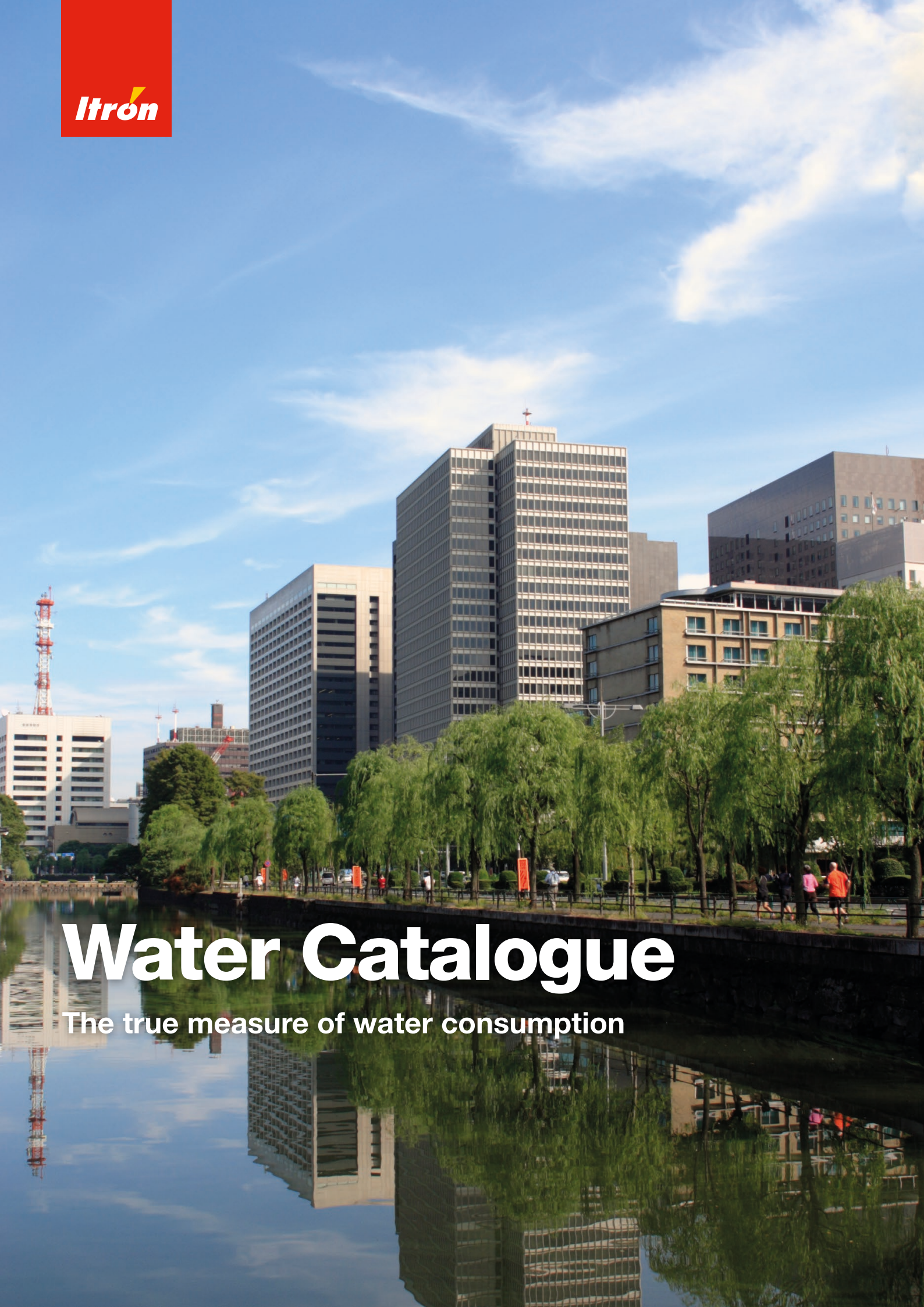


The background of the entire page is a photograph of a city skyline. In the foreground, a calm body of water reflects the sky and the buildings. A row of lush green trees stands between the water and the city. Several people are visible walking along a path behind the trees. The sky is a clear blue with some light, wispy clouds. The overall scene is bright and clear, suggesting a sunny day.

Water Catalogue

The true measure of water consumption

WORLDWIDE PRESENCE



Liberty Lake, Washington
 Vancouver, Washington
 Mississauga, Ontario
 Oakland, California
 San Diego, California
 Waseca, Minnesota
 Maynard, Massachusetts
 Boston, Massachusetts
 Owenton, Kentucky
 Raleigh, North Carolina
 Greenwood, South Carolina
 Oconee, South Carolina
 Mexico City, Mexico



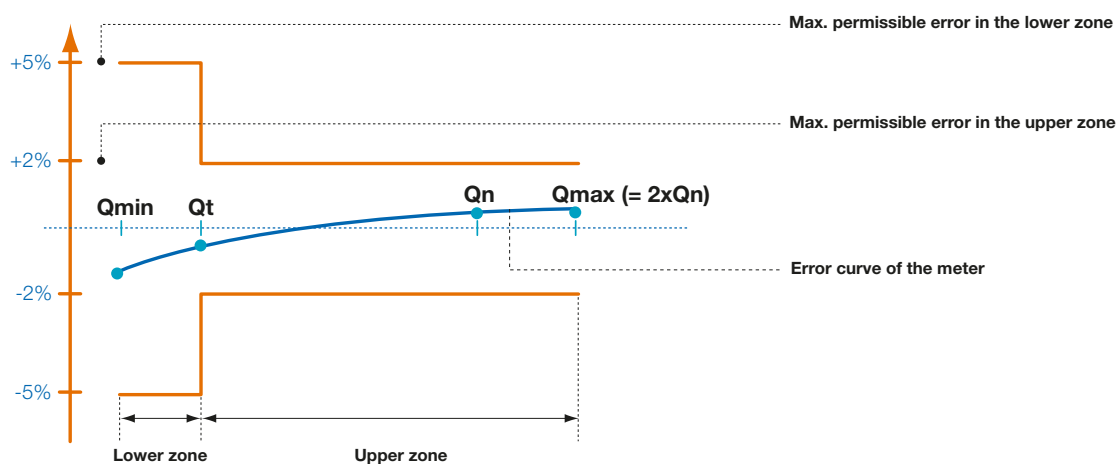
Amsterdam, Netherlands
 Argenteuil, France
 Asti, Italy
 Barcelona, Spain
 Brussels, Belgium
 Chasseneuil, France
 Dordrecht, Netherlands
 Felixstowe, UK
 Geneva, Switzerland
 Gödöllő, Hungary
 Haguenau, France
 Hameln, Germany
 Karlsruhe, Germany
 Krakow, Poland
 Luxembourg HQ
 Mâcon, France
 Manchester, UK
 Massy, France
 Milan, Italy
 Naples, Italy
 Oldenburg in H., Germany
 Paris, France
 Porto, Portugal
 Prague, Czech Republic
 Reims, France
 Stockholm, Sweden
 Vienna, Austria

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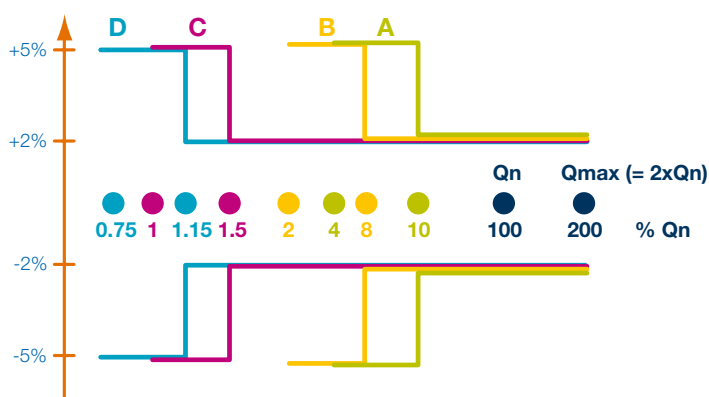
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METROLOGICAL CLASSES

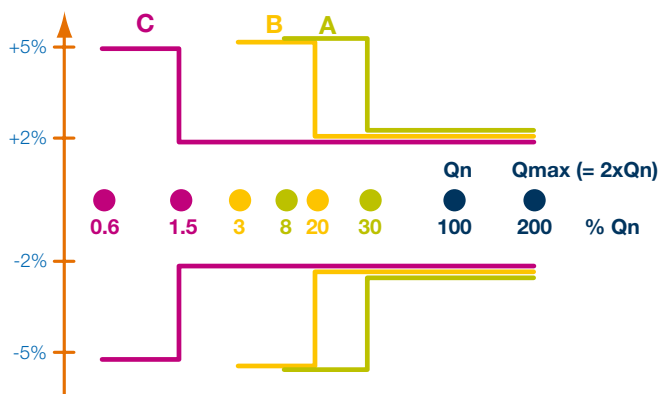
According to standards ISO 4064 - 1:1993, Recommendation OIML R49 before 2003 and European Directive EEC 75/33



Metrological Classes : $Q_N < 15 \text{ m}^3/\text{h}$ (up to DN40)

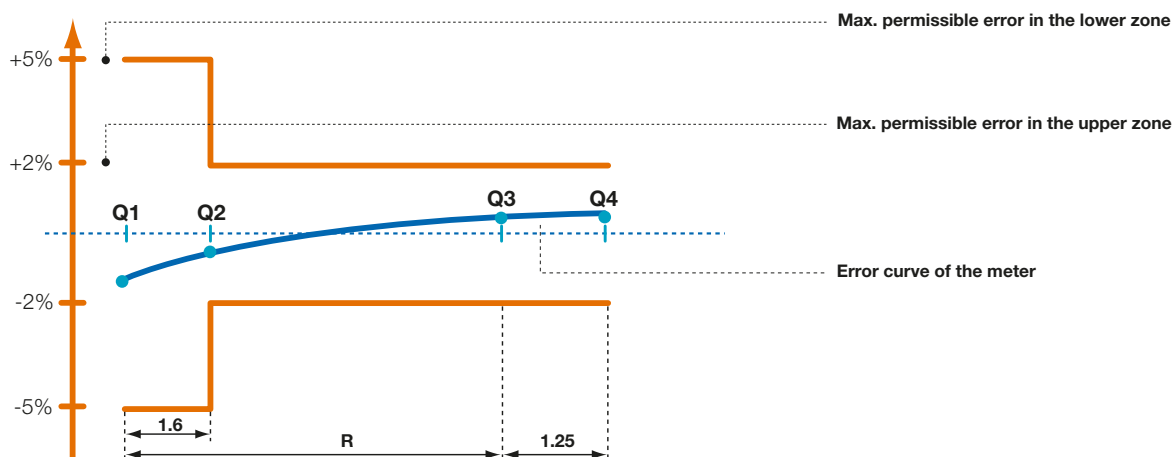


Metrological Classes : $Q_N \geq 15 \text{ m}^3/\text{h}$



METROLOGICAL PERFORMANCE

According to MID (European Measurement Instrument Directive), standards EN14154-1 & ISO 4064 - 1:2005, recommendation OIML R49 - 1:2003



The meter is defined by:

Q3: permanent flowrate

R: $Q3/Q1$ ratio (where Q1 is minimum flowrate)

Secondary characteristics:

Q2: transitional flowrate defined by $Q2/Q1 = 1.6$

Q4: overload flowrate defined by $Q4/Q3 = 1.25$

Q3 value must be chosen in the table below (values in m³/h)

1	1.6	2.5	4	6.3
10	16	25	40	63
100	160	250	400	630
1000	1600	2500	4000	6300

R value must be chosen in the table below

10	12.5	16	20	25	31.5	40	50	63	80
100	125	160	200	250	315	400	500	630	800

$$Q1 = Q3/R$$

$$Q2 = 1.6 \times Q1$$

$$Q4 = 1.25 \times Q3$$

Residential water meters

AQUADIS+

High performance volumetric water meter



Cold water



Warm water



Composite version

MID, EN14154-1 & ISO 4064 - 1:2005

Nominal diameter (DN)		Cold water		Warm water	
		15	20	15	20
		mm		mm	
		inches	1/2"	3/4"	
Metrology class (MID)	(Q ₃ /Q ₁)		50 - 400		100 - 160
Nominal flow rate	(Q ₃)	m ³ /h	1.6 - 2.5		1.6 - 2.5
Standard Ratio	(Q ₃ /Q ₁)		100 - 160		100 - 160
Starting flow		L/h	1		1
Overload flow rate	(Q ₄)	m ³ /h	2 - 3.125		2 - 3.125
Maximum admissible pressure		Bar	16		16
Max. admissible temperature		°C	30		90
Length		mm	105 - 110 - 115 - 134 - 165 - 170	130 - 165 - 190	105 - 110 - 170 130 - 190
Meter thread		inches mm	G 3/4" B 20x27	G 1" B 26x44	G 3/4" B 20x27 G 1" B 26x44

ISO 4064 - 1 : 1993 class C

Nominal diameter (DN)		mm		15 (C)			15 (D)
		inches		1/2"			1/2"
Nominal flow rate	(Qn)	m³/h	0.75	1	1.5	0.75-1.5 (*)	1-1.5
Starting flow		L/h			1		1
Maximum flow rate	(Qmax)	m³/h	1.5	2	3	3	2-3
Transitional flow rate	(Qt)	L/h	11.25	15	22.5	11.25	11.5
Minimum flow rate	(Qmin)	L/h	7.5	10	15	7.5	7.5
Maximum admissible pressure		Bar			16		16
Max. admissible temperature		°C			30		30
Length		mm	105 - 110 - 115 - 134 - 165 - 170				134
Meter thread		inches	G 3/4" B				G 3/4" B
		mm	20x27				20x27

(*) Variable nominal flow rate - Also available in 0.75-1 and 1-1.5 m³/h.

MID, EN14154-1 & ISO 4064 - 1:2005

Nominal diameter (DN)		mm	15
Composite		inches	1/2"
Metrology class (MID)	(Q ₃ /Q ₁)		50 - 315
Nominal flow rate	(Q ₃)	m ³ /h	1.6 - 2.5
Standard Ratio	(Q ₃ /Q ₁)		100 - 160
Starting flow		L/h	1
Overload flow rate	(Q ₄)	m ³ /h	2 - 3.125
Maximum admissible pressure		Bar	16
Max. admissible temperature		°C	30
Length		mm	110 - 115 - 165 - 170
Meter thread		inches mm	G 3/4" B 20x27

FLODIS

High performance single-jet type water meter,
copper can register
Pre-equipped for communication



MID - (MI-001)

Nominal diameter (DN)		mm	15	20	25	32	
		inches	1/2"	3/4"	1"	1" 1/4	
Nominal Flow Rate	(Q3)	m³/h	1,6	2,5	4	6,3	10
Standard Ratio (*)	(Q3/Q1)		100	160	160	160	160
Minimum Flow Rate	(Q1)	L/h	16	15,6	25	39,4	62,5
Transitional Flow Rate	(Q2)	L/h	25,6	25	40	63	100
Overload Flow Rate	(Q4)	m³/h	2	3,1	5	7,9	13
Pressure Loss Class at Q3		bar	0,25	0,63	0,63	0,63	0,63
Maximum Admissible Pressure	(MAP)	bar			16		
Sensitivity Class					Uo Do		
Operating Temperature	(T)	°C			0,1 / 50		
Climatic Environment		°C			5 / 55		

(*) Other Ratios available under specific request

EEC 75/33

Nominal diameter (DN)		mm	15	20	25	32
		inches	1/2"	3/4"	1"	1" 1/4
EEC metrology class			C horizontal - B all other positions			
EEC approval			F-06-G-1277			
Nominal flow rate	(Q _n)	m ³ /h	1,5	2,5	3,5	6
Maximum flow rate	(Q _{max})	m ³ /h	3	5	7	12
Minimum flow rate	(Q _{min})	L/h	15	25	35	60
Transitional flow rate	(Q _t)	L/h	22,5	37,5	52,5	90
Pressure loss group at Q _{max}		bar		<1 (=0,8)		
Maximum admissible pressure		bar		16		
Maximum admissible temperature		°C		30		

Other Characteristics

Nominal diameter (DN)		mm	15	20	25	32
		inches	1/2"	3/4"	1"	1" 1/4
Indication Range			99999,999			
Minimum Scale Interval			0,05			
Typical Starting Flow Rate	L/h	4	6	10	12	
Testing Pressure	bar	25				
Communication pre-equipment		Cyble Technology				

MULTIMAG CYBLE

High and standard performance
Multi-jet water meter



MID, EN14154-1 & ISO 4064 - 1:2005

Nominal diameter (DN)		mm	15			20		
		inches	1/2"			3/4"		
Metrology class (MID)	(Q3/Q1)		R100	R50	R31.5	R100	R50	R31.5
Permanent flow rate	(Q3)	m³/h	1.6			2.5		
Starting flow		L/h	7			12		
Minimum flow rate	(Q1)	L/h	16	32	51	25	50	79
Transitional flow rate	(Q2)	L/h	26	51	81	40	80	127
Overload flow rate	(Q4)	m³/h	2			3.1		
Maximum flow rate	(Qmax)	m³/h	3			5		
Maximum admissible pressure		Bar	16					
Temperature Class			T50					
Length		mm	145-165-170			190		
Meter thread		inches	G 3/4" B			G 1" B		
		mm	20x27			26x34		

ISO 4064 - 1 : 1993 class B & C

Nominal diameter (DN)		mm	15		20	
		inches	1/2"		3/4"	
Metrology Class			B	C	B	C
Nominal flow rate	(Qn)	m³/h	1.5	1.5	2.5	2.5
Starting flow		L/h	7	7	12	12
Maximum flow rate	(Qmax)	m³/h	3	3	5	5
Transitional flow rate	(Qt)	L/h	120	22.5	200	37.5
Minimum flow rate	(Qmin)	L/h	30	15	50	25
Maximum admissible pressure		Bar	16			
Length		mm	165-170-190		190	
Meter thread		inches	G 3/4" B		G 1" B	
		mm	20x27		26x34	



Anti-fraud ring

UNIMAG / UNIMAG CYBLE

Single-jet type water meter class B
Standard version and pre-equipped version
for communication



Pre-equipped version for communication

ISO 4064 - 1 : 1993 class B

Nominal diameter (DN)			Cold water		Warm water	
			15	20	15	20
		mm inches	1/2"	3/4"	1/2"	3/4"
Nominal flow rate	(Q _n)	m ³ /h	1.5	2.5	1.5	2.5
Starting flow						
- Standard version		L/h	10	13	10	13
- Pre-equipped version			8.5	12	8.5	12
Maximum flow rate	(Q _{max})	m ³ /h	3	5	3	5
Transitional flow rate	(Q _t)	L/h	120	200	120	200
Minimum flow rate	(Q _{min})	L/h	30	50	30	50
Maximum admissible pressure		Bar	16		16	
Max. admissible temperature		°C	30		90	
Length (*)		mm	170	190	110	130
Meter thread		inches mm	G 3/4" B 20x27	G 1" B 26x34	G 3/4" B 20x27	G 1" B 26x34

(*) Other available lengths on request

INTELIS

Ultrasonic water meter with integrated radio
technology



EN14154-1 & ISO 4064 - 1:2005

Nominal Diameter DN		mm	15	20		
		inches	1/2"	3/4"		
Approved dynamic Ratio = Q ₃ / Q ₁			160 - 250	160 - 400	160 - 400	160 - 630
Permanent flow rate	Q ₃	m³/h	1.6	2.5	2.5	4
Starting flow		l/h		1.5		
Minimum flow rate	Q ₁	l/h		6.4		
Overload flow rate	Q ₄	m³/h	2	3.125	3.125	5
Nominal pressure	MAP	bar		16		
Permanent temperature	MAT	°C		70		
Length		mm	110 - 115 - 165 - 170		130 - 190	
Meter thread		inches	G 3/4 B		G 1 B	

Electronics

Back-up memory	EEPROM
Display	LCD - 9 digits
Optical interface	According to EN 60870-5
Power supply	Long life-time lithium battery (15 years min.)

Radio Frequency Features

Protocol	RADIAN
Modulation	Frequency Shift Keying
Frequency carrier	433.82 MHz
Radiated power	≤ 10 mW
Transmission	Symmetrical 2-way communication
Line of sight reading distance (LOS)	> 1500m

ECHODIS

Ultrasonic water meter
High performance Ultrasonic



EN14154-1 & ISO 4064 - 1:2005

Nominal diameter (DN)		mm	15	20
Metrology Class			100	100 - 160
Permanent flow rate	(Q ₃)	m ³ /h	1.6	1.6 - 2.5 - 4
Overload flowrate	(Q ₄)	m ³ /h	2	2 - 3.125 - 5
Q ₂ /Q ₁			1.6	1.6
Accuracy class			2	
Orientation			all positions	
Temperature class			T50	
Maximum Admissible Pressure		Bar	20	

Electronics

Back-up memory	EEPROM
Display	LCD - 7 digits
Optical interface	According to EN 60870-5
Power supply	Battery lithium 3.6 V Long life-time lithium battery (12 years typical) Main - 230 V (Optional)
Option board	 AnyQuest EverBlu M-Bus + protocole (cf product brochure)

Commercial and Industrial meters

MULTIMAG TM

Multi-jet water meter class B



Multimag TM

ISO 4064 - 1 : 1993 class B

Nominal diameter (DN)		mm inches	25 1"	30 1" 1/4	40 1" 1/2	50(*) 2"
Nominal flow rate	(Q _n)	m ³ /h	3.5	5	10	15
Starting flow		L/h	25	25	70	90
Maximum flow rate	(Q _{max})	m ³ /h	7	10	20	30
Transitional flow rate	(Q _t)	L/h	280	400	800	3000
Minimum flow rate	(Q _{min})	L/h	70	100	200	450
Maximum admissible pressure		Bar	16			
Max. admissible temperature		°C	30			
Length (*)		mm	260	260	300	300
Meter thread		mm	G 1" 1/4 B 33x42	G 1" 1/2 B 40x49	G 2" B 50x60	G 2" 1/2 B 66x76

(*) Flanged version available on request

FLOSTAR M

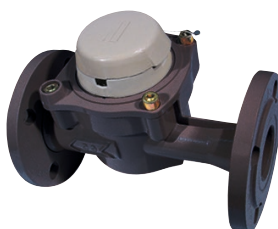
High performance Single-jet water meter



Flostar M DN40



Mobile flanges



Cast iron version

ISO 4064 - 1 : 1993 class C

Nominal diameter (DN)		mm	40	50 - 65	65 - 80	80 - 100	100	150
		inches	1" 1/2	2" - 2" 1/2	2" 1/2 - 3"	3" - 4"	4"	
Nominal flow rate	(Qn)	m³/h	10	15	20	30	50	100
Starting flow		L/h	22	32	35	50	70	90
Maximum flow rate	(Qmax)	m³/h	20	30	40	60	100	200
Transitional flow rate	(Qt)	L/h	150	225	300	450	750	1500
Minimum flow rate	(Qmin)	L/h	100	90	120	180	300	600
Testing pressure		Bar	25		32			
Max. admissible temperature		°C	30					
Hot water version		°C	90	90	-	-	-	-

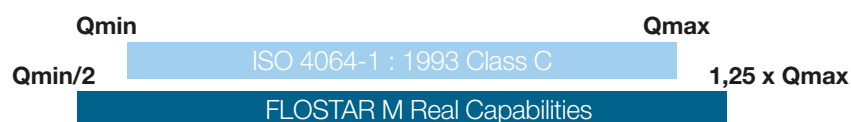
Nominal diameter (DN)	mm	40	50	50	65	80	100	150
Meter thread	inches	G 2" B	G 2" 1/2 B	Flanges	Mobile Flanges			
		ISO PN10/16 compatible with major standards (ISO/DIN/ANSI/BS)						
	mm	50x60	66x76	-	-	-	-	-
Length (*)	mm	300	300	300	300	350	350	350

(*) Other available lengths and drilling on request

MID / ISO 4064-1:2005 / OIML R49

Nominal diameter (DN)	mm	40	50	65	80	100	150
Metrology class (MID)	(Q3/Q1)	≤ 160	≤ 315	≤ 400	≤ 400	≤ 400	≤ 630
Minimal flowrate	(Q1) L/h	≥ 100*	≥ 79*	≥ 127*	≥ 157.5*	≥ 250*	≥ 254*
Transition flowrate	(Q2) L/h	≥ 160	≥ 127	≥ 203	≥ 252	≥ 400	≥ 406
Permanent flow rate	(Q3) m³/h	16	25	40	63	100	160
Overload flowrate	(Q4) m³/h	20	31.25	50	78.75	125	200
Standard ratio	(Q3/Q1)	160	250	315	315	315	315
Q2/Q1		1.6					
Accuracy class		2					
Temperature class	°C	T50					T30
Maximum Admissible Pressure	bar	16					20
Orientation		Horizontal					Horizontal
Indicating range	m³	999999					9999999
Verification scale interval	L	0.2					2
Climatic influence class		+5°C ; +55°C					-

* respectively with Metrology class (MID) Q3/Q1



WOLTEX

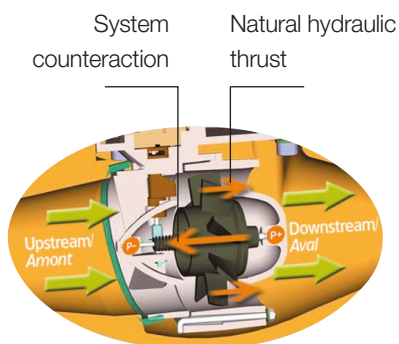
Horizontal Woltmann type water meter class B all positions, copper can register
Pre-equipped for communication
2 Nominal flow rate approved



Woltex DN100



Woltex DN500



Hydrodynamic balance of helix

Typical Performance

Nominal diameter (DN)	mm inches	50 2"	65 2" 1/2	80 3"	100 4"	125 5"	150 6"
Starting flowrate*	m³/h	0.19	0.22	0.3	0.38	0.4	1
Accuracy ± 2% from *	m³/h	0.4	0.6	1.2	1.5	1.5	3
Accuracy ± 5% from *	m³/h	0.35	0.5	0.75	0.9	1.2	1.5
Max. admissible flowrate	m³/h	50	80	120	200	200	500
Max. admissible temperature	°C	50					
Max. admissible pressure	bar	20					

* Average values

Nominal diameter (DN)	mm inches	200 8"	250 10"	300 12"	400 16"	500 20"
Starting flowrate *	m³/h	1.6	3	10	15	20
Accuracy ± 2% from*	m³/h	3.5	5	15	30	40
Accuracy ± 5% from *	m³/h	2.5	3.5	12	25	30
Max. admissible flowrate	m³/h	800	1200	2000	3000	5000
Max. admissible temperature	°C	50				
Max. admissible pressure	bar	20				

* Average values

ISO 4064 - 1 : 1993 class B

Nominal diameter (DN)		mm inches	50 2"	65 2" 1/2	80 3"	100 4"	125 5"	150 6"
Nominal flow rate (variable)	(Qn)	m³/h	25 15	25 40	40 60	60 100	100* -	150 250
Max. flow rate	(Qmax)	m³/h	50	80	120	200	200	500
Accuracy ± 2% class B:	(Qt)	m³/h	3	5	8	12	20	30
Accuracy ± 5% class B:	(Qmin)	m³/h	0.45	0.75	1.2	1.8	3	4.5
Max. working pressure		bar	20					
EEC approval certificate			F-02-G071					

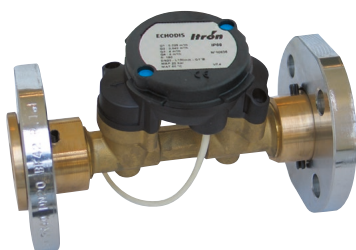
* DN 125 single Qn approval only

Nominal diameter (DN)		mm inches	200 8"	250 10"	300 12"	400 16"	500 20"
Nominal flow rate (variable)	(Qn)	m³/h	250 400	400 600	600 1000	1000 1500	1500 2500
Max. flow rate	(Qmax)	m³/h	800	1200	2000	3000	5000
Accuracy ± 2% class B:	(Qt)	m³/h	50	80	120	200	300
Accuracy ± 5% class B:	(Qmin)	m³/h	7.5	12	18	30	45
Max. working pressure		bar	20				
EEC approval certificate			F-02-G071				

* DN 125 single Qn approval only

ECHODIS

Ultrasonic static water meter
Pre-equipped for communication
High performance Ultrasonic



EN14154-1 & ISO 4064 - 1:2005

Nominal diameter (DN)		mm	25	32	40	50
Metrology Class			100 - 160	100	100 - 160	100 - 160
Permanent flow rate	(Q ₃)	m ³ /h	4.0 - 6.3	6.3	4.0 - 6.3 - 16	6.3 - 16
Overload flowrate	(Q ₄)	m ³ /h	5.0 - 7.88	7.88	5.0 - 7.88 - 20	7.88 - 20
Q ₂ /Q ₁			1.6	1.6	1.6	1.6
Accuracy class			2			
Orientation			all positions			
Temperature class			T50			
Maximum Admissible Pressure		Bar	20			

Electronics

Back-up memory	EEPROM
Display	LCD - 7 digits
Optical interface	According to EN 60870-5
Power supply	Battery lithium 3.6 V Long life-time lithium battery (12 years typical) Main - 230 V (Optional)
Option board	 AnyQuest EverBlu M-Bus + protocole (cf product brochure)

Pulse emitter

CYBLE SENSOR

Pulse emitter



Version		2-wire	5-wire
LF signal		•	•
Cable cut detection			•
HF signal			•
Direction signal			•
Internal power supply		•	•
Signal output	- Power supply	DC	DC
	- Max. current (mA)		100
	- Max. voltage (V)		30
	- Polarization	NO	YES
	- Type	Open collector	
Internal battery/Life time(*)		Lithium battery/12 years - Not replaceable	
Length of moulded cable	m	5	
Conductor diameter	mm	0.9	
Working temperature	°C	-10°C/+55°C	
Protection		IP68	
E.M.C. standards		EN50081-1, 50081-2, 50082-1, 50082-2	

(*) Under normal applications within the specified working temperature range.

Remote meter reading with M-Bus protocol.

CYBLE M-BUS

Remote reading module

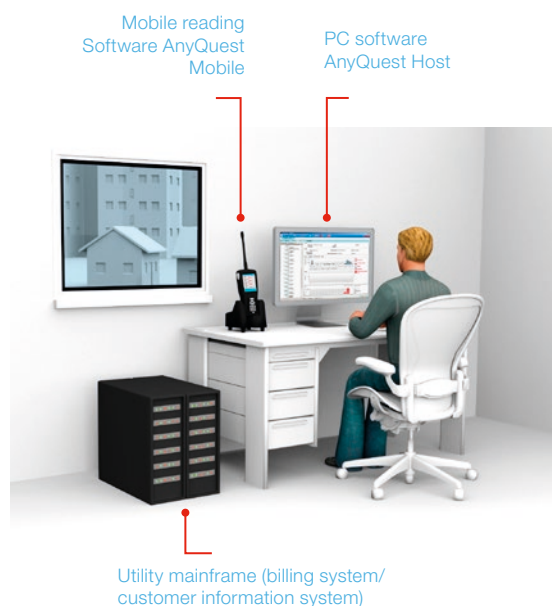
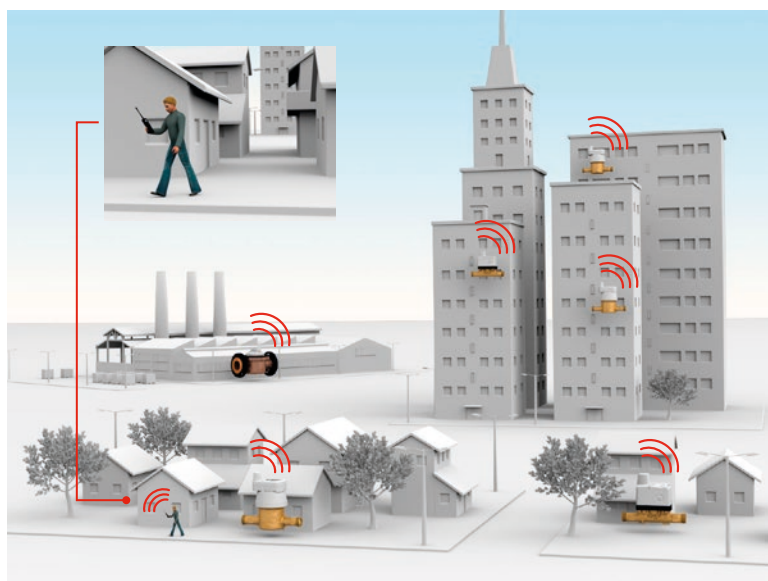


M-Bus features	
Compliant with	EN1434-3
Baud rate	300 to 2400 bps
Cable	2 wires, non polarized cable
Functional specifications	
Operating temperature	-10°C/+55°C
Storage temperature	-20°C/+55°C
Case protection	IP68
E.M.C. standards	EN 50081-1, 50081-2, 50082-1, 50082-2
Power source	Lithium battery
Battery life time (*)	12 years

(*) Under normal applications within the specified working temperature range.

Since the product is powered by the bus, the number of readings does not affect the battery life time.

AnyQuest Enhanced - Mobile Radio Frequency meter reading



Key features

Advanced radio walk-by reading system for water, heat or gas utilities Enhanced data content transmitted during classic reading routes.

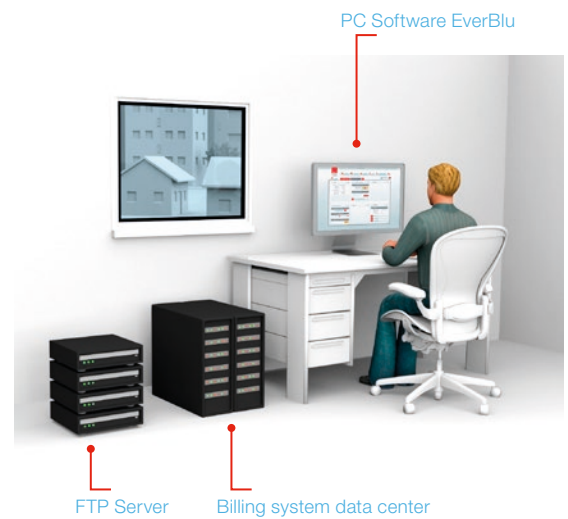
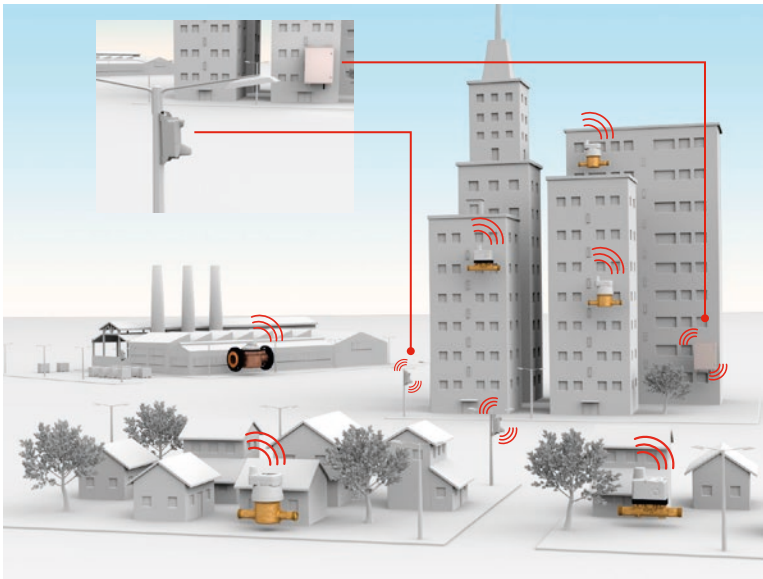
- » Meter index recorded at preset billing dates
- » Up to 180 consumption intervals
- » Special consumption indexes based on time-of-use and flow-rates
- » Recording of peak flow rates and alarms

Two-way communication to each endpoint:

- » Customization of parameters
- » Radio communication only when requested

Special modules allowing migration to EverBlu fixed network AMI system.

EverBlu - Wireless fixed network system



Transmission networks



Key features

Advanced fixed network AMI system for water, heat and gas utilities

Fully unattended Consumption readings each day, every day for every meter in the network

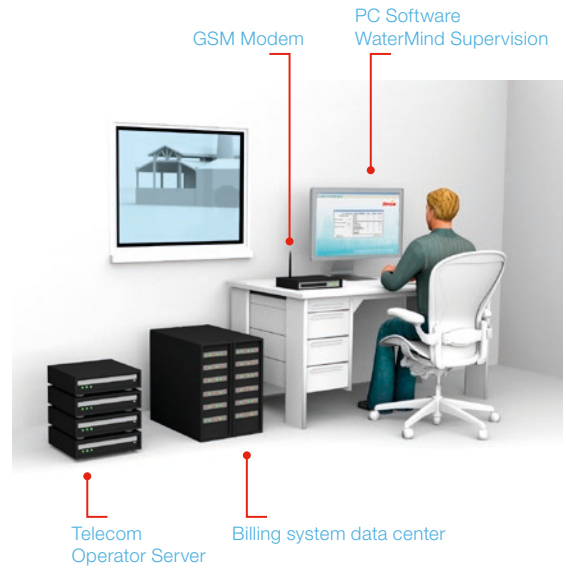
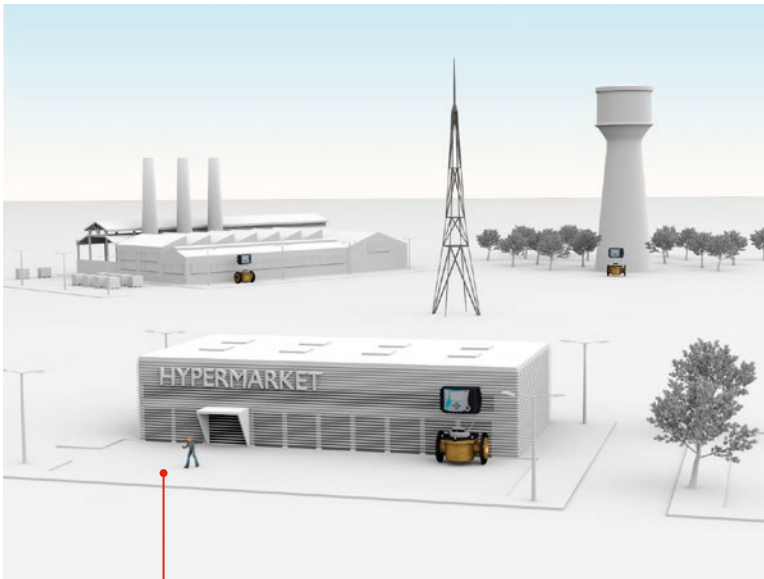
Time-synchronized data logging with hourly consumption intervals and a set of abnormal consumption indicators.

Two-way communication to each endpoint enabling on-Request Consumption Reads.

Secured data transmission:

- » Mesh radio network with self-healing capability
- » Automatic data recovery

WaterMind - Large consumers supervision system



Real time critical
alert on cell phones

Key features

Dedicated system for 24/7 supervision of large water consumers.

Detailed consumption information each day, every day for every large water meter.

Immediate notification to operators in case of tamper or abnormal consumption / pressure.

Revenue protection:

- » Continuous audit function to check if meter is appropriate for actual water usage pattern
- » Detection of events that could impact water supply or measurement

Strainers



"Y" Strainers



"T" Strainers



"Y" Strainers

Nominal diameter	mm	15	20	32	40		
Max. pressure	bar	10/16					
Length	mm	58	70	96	106		
Nominal diameter	mm	50	65	80	100	125	150
Max. pressure	bar	10/16(*)					
Length	mm	230	290	310	350	400	480
Weight	kg	9.5	12	15.5	23	40	52
Nominal diameter	mm	200	250	300	350	400	500
Max. pressure	bar	10/16(*)					
Length	mm	600	730	850	980	1100	1250
Weight	kg	101	160	225	405	540	800

(*) PN25-40 on request

"T" Strainers

Nominal diameter	mm	50	65	80	100	150	200	250
Filtering area strainer/diameter		10.5	10.8	10.5	10.3	10.9	5	5
Max. pressure	bar	20						
Length	mm	200	230	270	300	330	350	350
Weight	mm	13	21	28	35	58	80	92

Flow Straighteners



S-3D



RJ-1

S-3D Flow Straighteners

Nominal diameter	mm	50	65	80	100	150	200
Inches		2"	2 1/2"	3"	4"	6"	8"
End connection (Flange)		PN 10/16				PN 10 or 16	
Length	mm	150	195	240	300	450	600
Width	mm	165	185	200	222	323	427
Weight	kg	7.5	10.5	13.5	22	51	89
Max. pressure	bar	20					

RJ-1 Flow Straighteners

Nominal diameter	mm	250	300	400	500
Inches		10"	12"	16"	20"
End connection (Flange)		PN 10 or 16			
Length	mm	500			
Weight	kg	81	97	160	221
Max. pressure	bar	20			

Water meters pre-paid applications

Consult us for tailored metering solutions

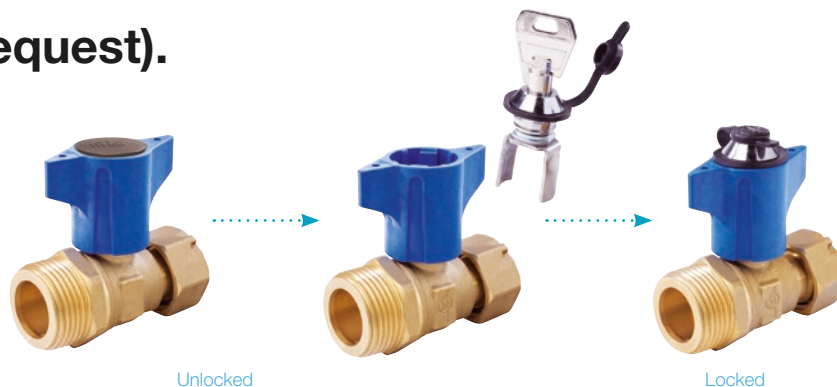
Water meter test benches

» Available from DN15 up to DN500
Gravimetric or volumetric

- Fully automatic
- Manual
- Portable



Accessories (upon request).



» Lockable valves

Locking function with a simple key and easy-to-operate handle



» Non return-valves

Many sizes



» Connections (unions)

Many sizes



» Rings sealing

Many sizes



» Isobar+

Pressure reducer for cold and hot water, equipped with innovative reversible multi-threaded unions



» Meter box



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