

VOLUMETRIC PISTON ROTARY COLD WATER METER MID R400 WIRELESS MBUS

PRODUCT EVOLUTION



Be careful, our meters 2775215 DN15 Length 110m are changing

OLD TYPE :



NEW TYPE :



Body bottom and low ducts to improve the evacuation of impurities and facilitate installation in niche
A suitable cage inside the water meter for retaining any impurities
New measuring chamber with water inlet and outlet from the same direction suitable for metrological performance, wear resistance, better evacuation of impurities
Measuring chamber cup filter improved in the openings to prevent impurities from entering the measuring chamber
New closing diaphragm and relative ring nut in high-performance material resistant up to a burst pressure ≥ 70 bar

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water meter for applications in the Utilities sector that guarantees maximum accuracy and reliability in all installation conditions. Its extremely low starting flow rate and its wide measuring range allow the accounting of the entire consumption, making it easier to identify leaks. All thanks to the combination of rotary piston technology and the innovative IP68 copper/glass register. Robust, durable, suitable for the most challenging environments and types of installation. It can be equipped with the latest remote data transmission technologies.

All positions without straight length upstream and downstream needed (U0/D0).



Size : DN15 to DN40

Connection : Male BSP

Min Temperature : +0°C

Max Temperature : +50°C

Max Pressure : 16 Bars

Specifications : Volumetric piston rotary type

Dry rotating dial

Magnetic transmission

With lid

Materials : Brass CC770S-4MS EN 12165 body or composite

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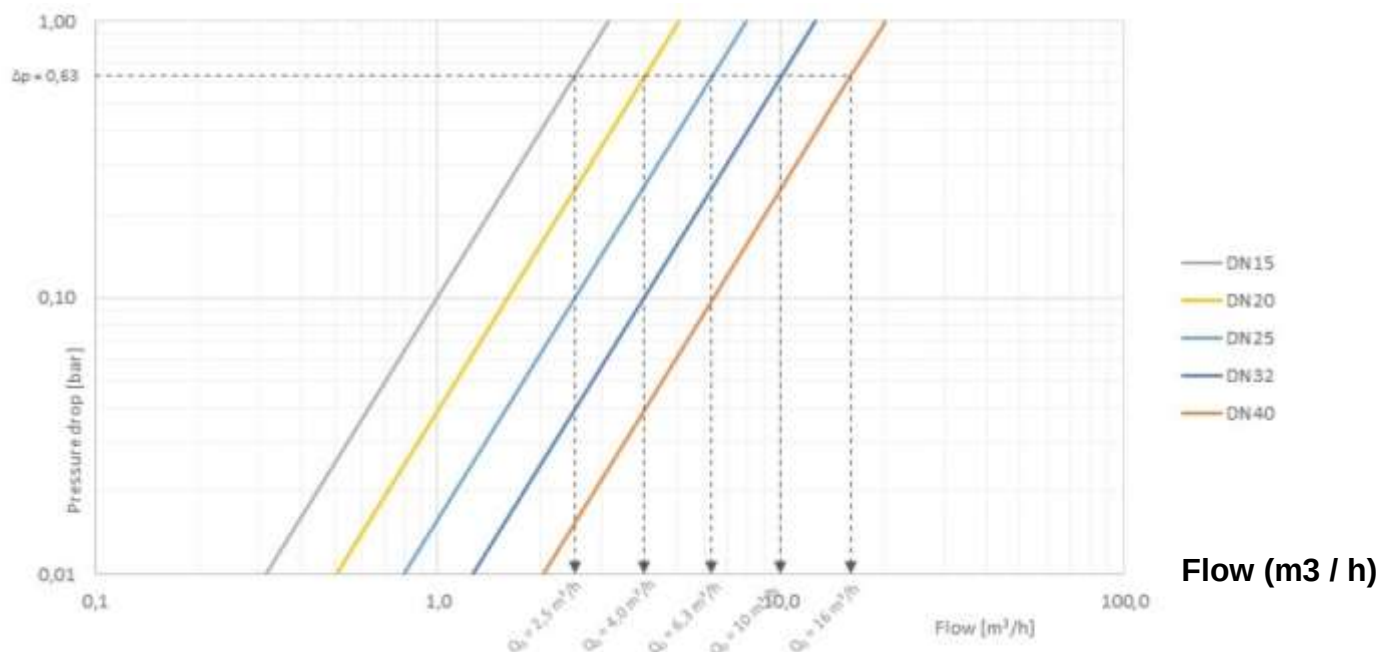
SPECIFICATIONS :

- Volumetric piston rotary type
- **MID R400 range**(respect the flow direction indicated by the arrow)
- All positions mounting without straight length needed (U0D0)
- Rotating dry dial IP68
- Magnetic transmission
- Direct reading on 8 numerical rolls
- With lid
- 4MS brass body or composite

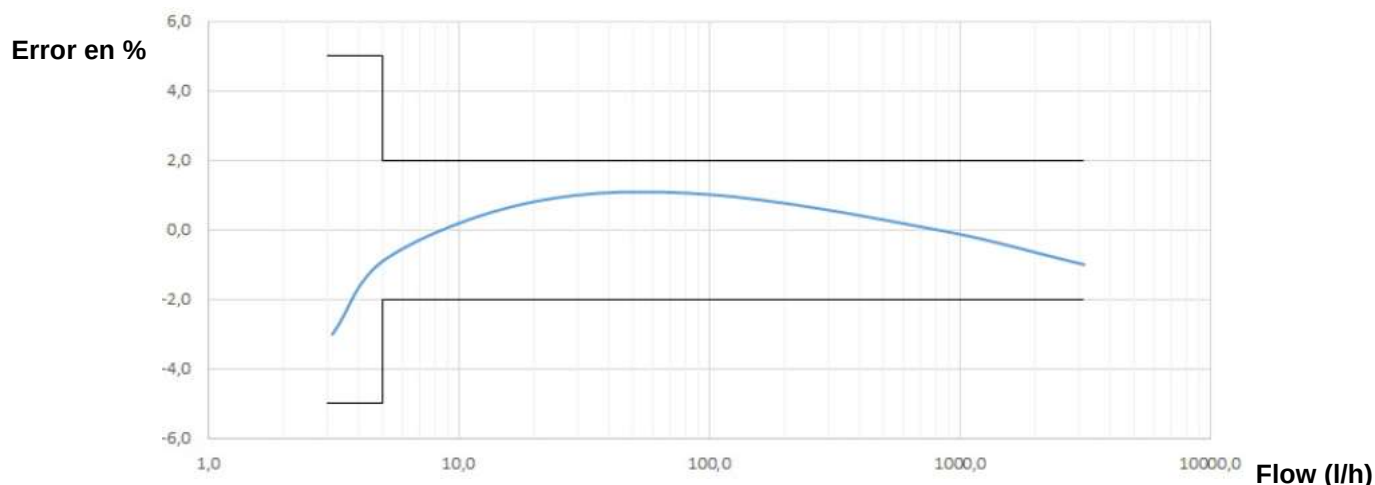
USE :

- Water distribution
- Min and max temperature Ts : 0°C to +50°C
- Max Pressure Ps : 16 bars

HEAD LOSS GRAPH :



TYPICAL ERROR CURVE :



Sferaco 90 rue du Ruisseau 38297 St Quentin Fallavier Tel: + 33 (0) 474.94.15.90 Fax: + 33 (0) 474.95.62.08 Internet: www.sferaco.com E-mail : info@sferaco.fr

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RANGE :

- Volumetric piston rotary cold water meter MIDR400 brass body pre-equipped radio **Ref.27750 and 27752 CVEFR** DN15 to DN40
- Volumetric piston rotary cold water meter MIDR400 composite body pre-equipped radio **Ref.27751 CVEFR** DN15

SPECIFICATIONS :

- According to directive 2014/32/EU (annex MI-001)
- Internal mechanism made of anhygroscopic, anti-scaling and hard-wearing plastic materials
- Piston composed of special polymer to keep a light weight and a long life time
- With strainer
- High protection against external magnetic fields
- No upstream and downstream straight pipe requirements (U0-D0)
- Pre-equipped for static pulse emitter, wireless M-Bus or wired M-Bus
- With lid



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ACCESSORIES :



- RADIO Wireless M-BUS 868 MHz IP68 **Ref.2749025 CICVEFR** for DN15 and 20, **Ref.2749125** for DN25-32-40



- RADIO receiver (with USB or Bluetooth) **Ref.2749024 RRADIO**



- RADIO LORAWAN 868 MHz Bidirectional compact, Configuration with NFC interface **Ref.2749026 CICVEFRLORA**

- RADIO Wireless M-BUS 169 MHz Bidirectional compact, Configuration with NFC interface, according to AFNOR E17Z **Ref.2749027 CICVEFR169**



- RADIO ARROW MOBILE software **Ref.2749014**



- Wired M-BUS with static pulse emitter, 1 impulse /L **Ref.2749033 CICVEFM** for DN15 and 20, **Ref. 2749133** for DN25-32-40



- Static pulse emitter, inductive bidirectional, 1 impulse /L **Ref.2749036** for DN15 and 20, **Ref.2749136** for DN25-32-40

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ACCESSORIES :



- Free nut water meter union with hole for filling on nut – Male BSP
 - Bore 15 F3/4"- M1/2" **Ref. 9811054**
 - Bore 15 F3/4"- M3/4" **Ref. 9811094**
 - Bore 20 F1" – M3/4" **Ref. 9811065**
 - Bore 25 F1"1/4- M1" **Ref. 9811076**
 - Bore 30 F1"1/2- M1"1/4 **Ref. 9811087**
 - Bore 40 F2"- M1"1/2 **Ref. 9811098**
 - Bore 50 F2"1/2- M2" **Ref. 9811099**



- Plastic antifraud seal
 - Bore 15 **Ref. 9811040**
 - Bore 20 **Ref. 9811041**
 - Bore 25 **Ref. 9811042**



- Check valve
 - Bore 15 **Ref. 9811061**
 - Bore 20 **Ref. 9811062**



- PVC pipe male BSP threaded
 - Bore 15 length 110 **Ref. 9811053**
 - Bore 15 length 170 **Ref. 9811067**



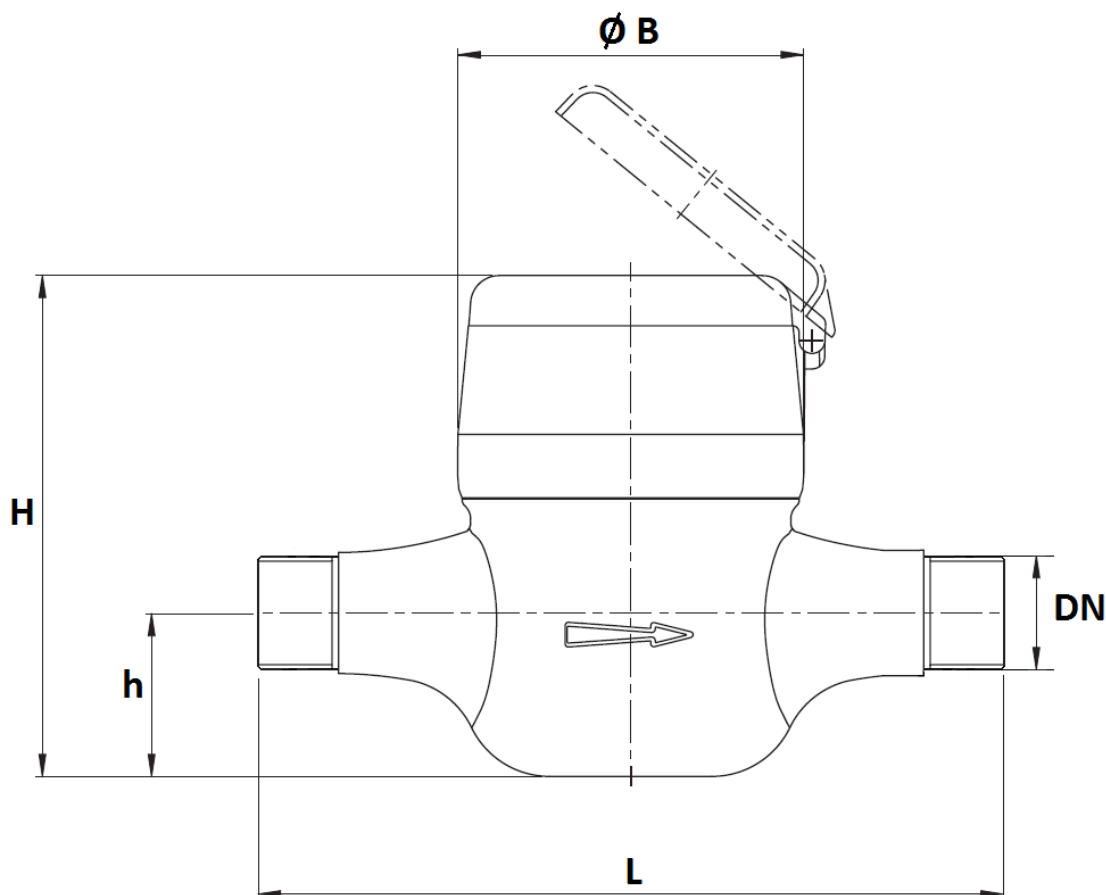
- Brass pipe male BSP threaded
 - For water meter bore 15 length 110 **Ref. 9811045**
 - For water meter bore 15 length 170 **Ref. 9811046**



- Brass water meter stand
 - For water meter bore 15 length 110 **Ref. 9851000**
 - For water meter bore 15 length 170 **Ref. 9851001**
 - For water meter bore 20 length 190 **Ref. 9851002**
 - For water meter bore 25 length 260 **Ref. 9851003**
 - For water meter bore 32 length 260 **Ref. 9851004**
 - For water meter bore 40 length 300 **Ref. 9851005**

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SIZE (in mm) :



**New type, modification in progress (height increased on new type)

*Composite type

Bore	15			20	25	32	40
DN	3/4"			1"	1"1/4	1"1/2	2"
L	110	110	170	190	260	260	300
Ø B	94	89 - 86**	89	92	129	150	172
H	115	106 – 118.5**	106	126	135	166	176
h	16	37 – 19**	37	44	63	77	88
Weight (in Kg)	0.45	0.8 – 0.75**	0.88	1.23	3.02	4.65	6.48
Ref.	2775115*	2775215	2775015	2775020	2775025	2775032	2775040
Type	MVM+C DN15	MVM+ DN15	MVM DN15	MVM DN20	MVM DN25	MVM DN32	MVM DN40

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TECHNICAL FEATURES :

Bore	15	20	25	32	40
Max flow Q4 max (m3/h)	3.13	5	7.88	12.5	20
Nominal flow rate Q3 (m3/h)	2.5	4	6.3	10	16
Transitional flow rate Q2 MID R400 with $\pm 2\%$ error (L/h)	10	16	25.2	40	64
Min flow rate MID R400 Q1 with $\pm 5\%$ error (l/h)	6.25	10	15.75	25	40
Starting flow rate (l/h)	0.5	1	2.5	4.5	7
Head loss class (ΔP @ Q3)	ΔP 63				
Min reading (m3)	0.02				
Max reading (m3)	100.000		1.000.000		10.000.000

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STANDARDS :

- Manufacturer certified ISO 9001 : 2015 and ISO 14001 :2015
- DIRECTIVE 2014/68/EU : Products excluded from directive (article 1, § 2b)
- Water Meters according to directive **2014/32/EU MID (annex MI001)**
- Designing according to **EN 14154 and EN ISO 4064**
- French water agreement **A.C.S. N° 22 ACC NY 263** for brass body type DN15 length 110
- French water agreement **A.C.S. N° 23 ACC NY 288** for brass body type DN15 length 170
- French water agreement **A.C.S. N° 23 ACC NY 289** for brass body type DN20
- French water agreement **A.C.S. N° 23 ACC NY 290** for brass body types DN25 to DN40
- French water agreement **A.C.S. N° 24 ACC LY 163** for composite body types
- Male BSP cylindrical threading according to ISO 228-1

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The customer must check the right choice of the products with the real service conditions.