

COLD WATER METER SINGLE JET MID R160 IMPULSE PRE-EQUIPPED

PRODUCT EVOLUTION



Be careful, our water meters Ref. 2740 are changing

**We currently have 2 different types available (according to DN)
with different dimensions and specifications**

Old type (CD ONE) :



New type (SJ ONE) :



At the end, only the new type will be available (from page 2 to 9)

COLD WATER METER SINGLE JET MID R160 IMPULSE PRE-EQUIPPED

Cold water meter single jet MID R160 dry non rotating protected dial for water distribution.
Horizontal or vertical position without straight length upstream and downstream needed (U0/D0).
Ready for optional pulse emitter.



NEW



Size : DN15 to DN25
Connection : Male BSP
Min Temperature : +0°C
Max Temperature : +50°C
Max Pressure : 16 Bars
Specifications : Single jet
Non rotating protected dial
Dry dial
Mechanical transmission

Materials : Brass body CW617N-4MS according to EN 12165

COLD WATER METER SINGLE JET MID R160 IMPULSE PRE-EQUIPPED

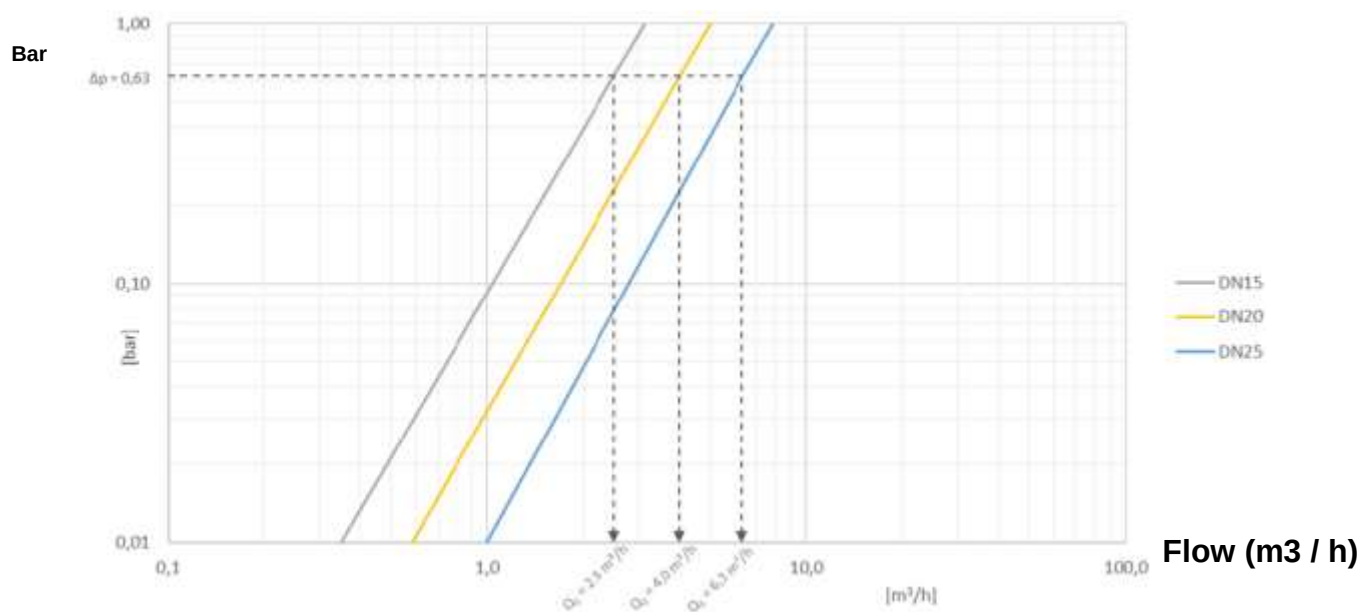
SPECIFICATIONS :

- Single jet type
- **MID R160** for horizontal position and horizontal dial (respect the flow direction indicated by the arrow)
- **MID R100** for vertical position or horizontal position with vertical dial (respect the flow direction indicated by the arrow)
- Horizontal position without straight length needed (U0D0)
- Dry non rotating protected dial
- Mechanical transmission unaffected by external magnetic fields
- Direct reading on 5 numerical rolls
- Design according to EN ISO 4064
- 4MS brass body

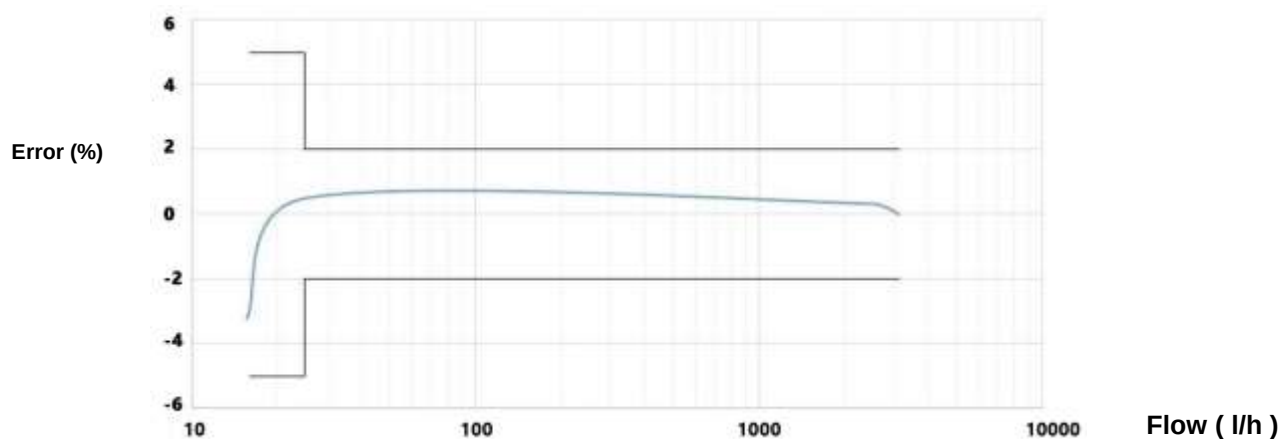
USE :

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

HEAD LOSS GRAPH :



TYPICAL ERROR CURVE :

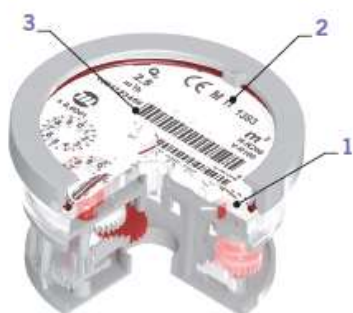


COLD WATER METER SINGLE JET MID R160 IMPULSE PRE-EQUIPPED

RANGE :

- Single jet cold water meter MID R160 impulse pre-equipped 10L **Ref.2740 SJ ONE** DN15 to DN25
- Single jet cold water meter MID R160 impulse pre-equipped 1L **Ref.2740P1 SJ ONE** DN15 to DN20

SPECIFICATIONS :



- Mineral glass (1)
- The numbered drums, the dial with the sub-multiples of the cubic meter, the characteristic inscriptions (MID) and the serial number are in the protected part, without contact with water and are therefore always legible (2)
- The serial number can be found on the dial, either numerically or as a bar code. In addition, it is engraved on the closing ring of the meter (3)
- Internal mechanism in plastic material, anisotropic, anti-encrustation and wear resistant
- Forged brass closing ring
- Roller support shaft in 18/8 stainless steel
- Input filter



COLD WATER METER SINGLE JET MID R160 IMPULSE PRE-EQUIPPED

ACCESSORIES :



- Pulse emitter Reed Switch **Ref.2749031**



- Inductive pulse sensor, insensitive to vibrations and detects backflow **Ref.2749037**



- Static pulse sensor with module RADIO ARROW integrated
Ref.2749038S



- 4 inputs Modbus convertor **Ref. RTUAP**



- USB receiver with programming key **Ref.2749007 VSB 868 MHz**



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



- RADIO ARROW MOBILE software
Ref.2749014

COLD WATER METER SINGLE JET MID R160 IMPULSE PRE-EQUIPPED

ACCESSORIES (SUITE) :



- Free nut water meter union with hole for filling on nut – Male BSP
 - DN15 F3/4"- M1/2" **Ref. 9811054**
 - DN15 F3/4"- M3/4" **Ref. 9811094**
 - DN20 F1" – M3/4" **Ref. 9811065**
 - DN25 F1"1/4 – M1" **Ref. 9811076**



- Plastic antifraud seal
 - DN15 **Ref. 9811040**
 - DN20 **Ref. 9811041**
 - DN25 **Ref. 9811042**



- PVC pipe male BSP threaded
 - DN15 length 110 **Ref. 9811053**
 - DN20 length 130 **Ref. 9811055**



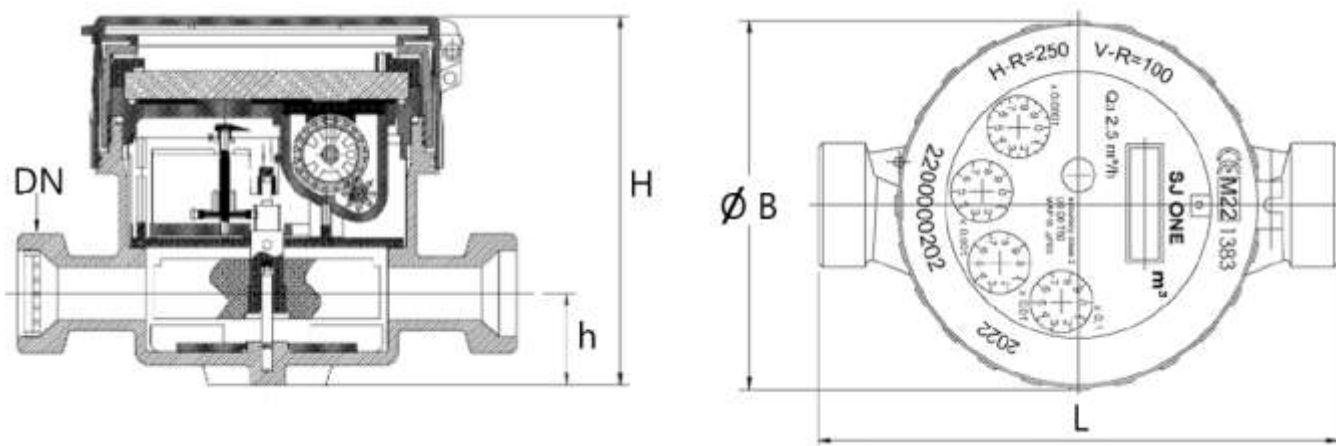
- Brass pipe male BSP threaded
 - For water meter DN15 length 110 **Ref. 9811045**



- Galvanized steel water meter stand with fixed and sliding fitting
 - For water meter DN15 length 110 **Ref. 9851000**

COLD WATER METER SINGLE JET MID R160 IMPULSE PRE-EQUIPPED

SIZE (in mm) :



Bore	15	20	25
DN	3/4"	1"	1"1/4
L	110	130	160
Ø B	77		
H	81		
h	20		
Weight (in Kg)	0.57	0.69	1.25
Ref.	2740015 or 2740015P1	2740020 or 2740020P1	2740025

COLD WATER METER SINGLE JET MID R160 IMPULSE PRE-EQUIPPED

TECHNICAL FEATURES :

Bore	15	20	25
Max flow Q4 max (m3/h)	3.13	5	7.9
Nominal flow rate Q3 (m3/h)	2.5	4	6.3
Min flow rate MID R160 Q1 with $\pm$ 5% error (l/h)	15.6	25	39.38
Min flow rate MID R100 Q1 with $\pm$ 5% error (l/h)	25	40	63
Transitional flow rate Q2 MID R160 with $\pm$ 2% error (L/h)	25	40	63
Transitional flow rate Q2 MID R100 with $\pm$ 2% error (L/h)	40	64	100.8
Starting flow rate (l/h)	5	9	18
Head loss class (ΔP @ Q3)	ΔP 63		
Min reading (L)	0.05	0.05	0.05
Max reading (m3)	100.000	100.000	100.000

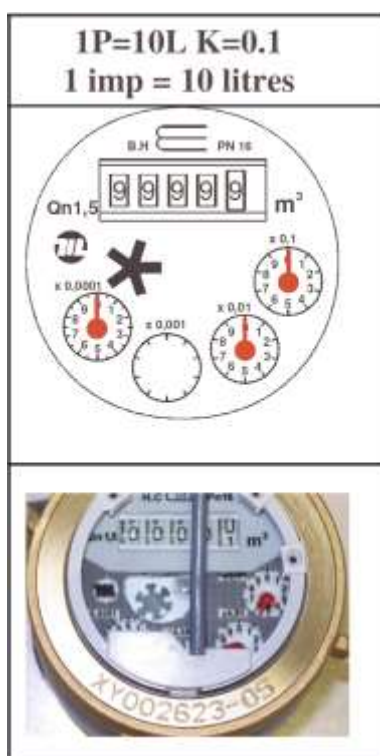
COLD WATER METER SINGLE JET MID R160 IMPULSE PRE-EQUIPPED

STANDARDS :

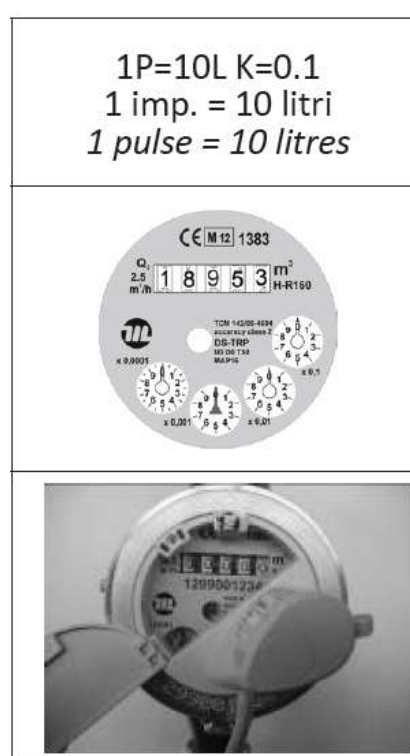
- Manufacturer certified ISO 9001 : 2015 and ISO 14001 :2015
- DIRECTIVE 2014/68/EU : Products excluded from directive (article 1, § 2b)
- Water Meters according to directive **2014/32/EU MID (annex MI001)**
- Designing according to **EN 14154 and EN ISO 4064**
- French water agreement **A.C.S. N° 22 ACC LY 262**
- Male BSP cylindrical threading according to ISO 228-1

PULSER INSTALLATION POSITIONS :

Type Reed Ref.2749031



Type Inductive Ref. 2749035

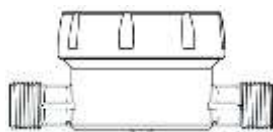


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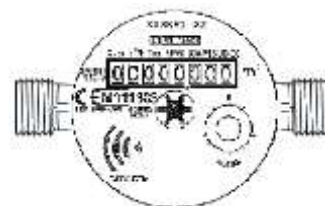
COLD WATER METER SINGLE JET MID R160 IMPULSE PRE-EQUIPPED

INSTALLATION POSITIONS :

HORIZONTAL :



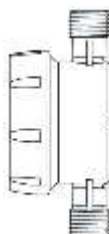
Class MID R=160



Class MID R=100
(Vertical dial assimilated to vertical position)

VERTICAL* :

*** : In vertical position, the metering precision of the meter is going to be slightly altered, and the pipe should always be full of water.**



Class MID R=100

COLD WATER METER SINGLE JET MID R160 IMPULSE PRE-EQUIPPED

Cold water meter single jet MID R160 dry non rotating protected dial for water distribution.
Horizontal or vertical position without straight length upstream and downstream needed (U0/D0).
Ready for optional pulse emitter.



Size : DN15 to DN25
Connection : Male BSP
Min Temperature : +0°C
Max Temperature : +50°C
Max Pressure : 16 Bars
Specifications : Single jet
 Non rotating protected dial
 Dry dial
 Magnetic transmission

Materials : Brass body CW617N-4MS according to EN 12165

COLD WATER METER SINGLE JET MID R160 IMPULSE PRE-EQUIPPED

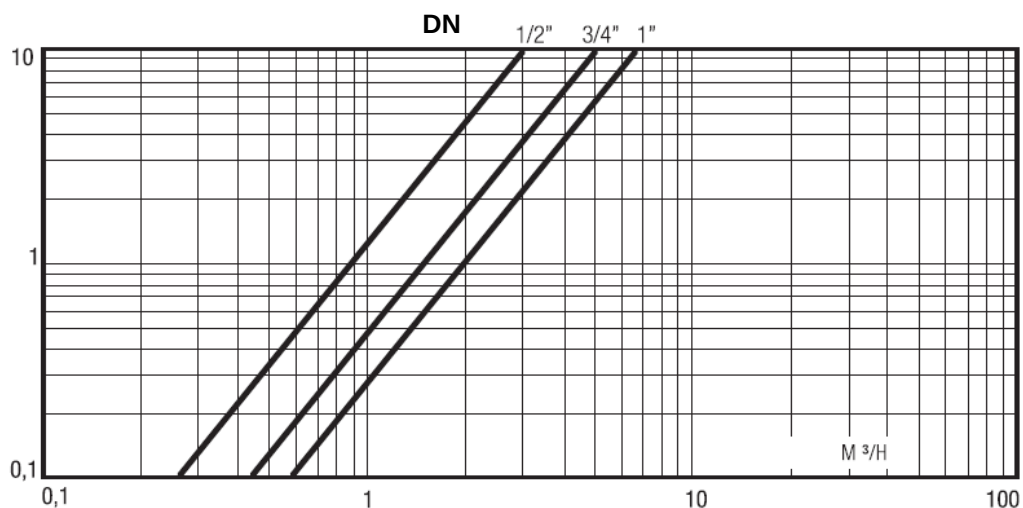
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- Single jet type
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- **MID R100** for vertical position or horizontal position with vertical dial (respect the flow direction indicated by the arrow)
- Horizontal position without straight length needed (U0D0)
- Dry non rotating protected dial
- Magnetic transmission
- Direct reading on 5 numerical rolls
- Design according to EN ISO 4064
- 4MS brass body

USE :

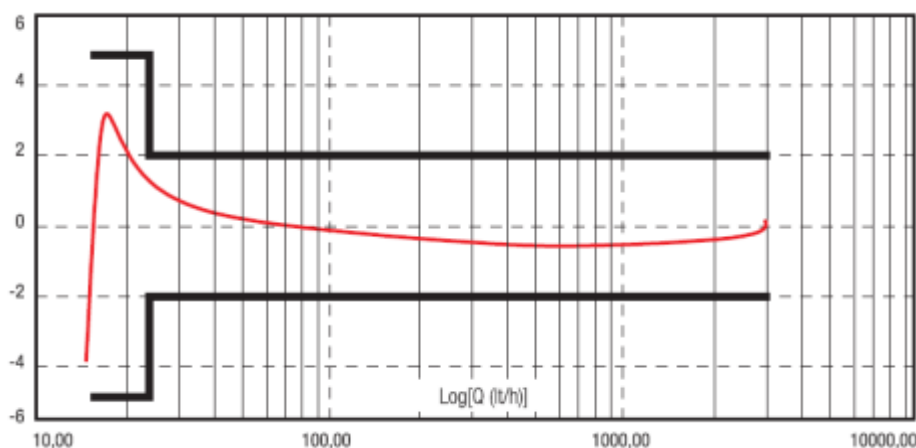
- Water distribution
- Min and max temperature Ts : +0°C to +50°C
- Max Pressure Ps : 16 bars

HEAD LOSS GRAPH :



Flow (m3 / h)

TYPICAL ERROR CURVE :

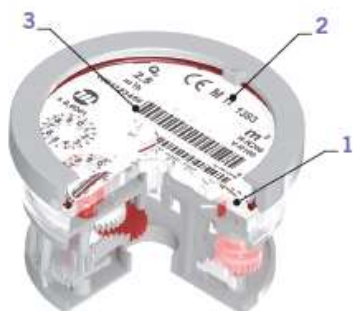


COLD WATER METER SINGLE JET MID R160 IMPULSE PRE-EQUIPPED

RANGE :

- Single jet cold water meter MID R160 impulse pre-equipped 10L **Ref.2740 CDONEEF** DN15 to DN25
- Single jet cold water meter MID R160 impulse pre-equipped 1L **Ref.2740P1 CDONEEF** DN15 to DN20

SPECIFICATIONS :



- Mineral glass (1)
- The numbered drums, the dial with the sub-multiples of the cubic meter, the characteristic inscriptions (MID) and the serial number are in the protected part, without contact with water and are therefore always legible (2)
- The serial number can be found on the dial, either numerically or as a bar code. In addition, it is engraved on the closing ring of the meter (3)
- Internal mechanism in plastic material, anisotropic, anti-encrustation and wear resistant
- Forged brass closing ring
- Roller support shaft in 18/8 stainless steel
- Input filter



COLD WATER METER SINGLE JET MID R160 IMPULSE PRE-EQUIPPED

ACCESSORIES :



- Pulse emitter Reed Switch **Ref.2749031 CICDONE**



- Inductive pulse sensor, insensitive to vibrations and detects backflow **Ref.2749037 CIQUADRA**



- Static pulse sensor with module RADIO ARROW integrated
Ref.2749038S



- 4 inputs Modbus convertor **Ref. RTUAP**



- USB receiver with programming key **Ref.2749007 VSB 868 MHz**



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



- RADIO ARROW MOBILE software
Ref.2749014

COLD WATER METER SINGLE JET MID R160 IMPULSE PRE-EQUIPPED

ACCESSORIES (SUITE) :



- Free nut water meter union with hole for filling on nut – Male BSP
 - DN15 F3/4"- M1/2" **Ref. 9811054**
 - DN15 F3/4"- M3/4" **Ref. 9811094**
 - DN20 F1" – M3/4" **Ref. 9811065**
 - DN25 F1"1/4 – M1" **Ref. 9811076**



- Plastic antifraud seal
 - DN15 **Ref. 9811040**
 - DN20 **Ref. 9811041**
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- PVC pipe male BSP threaded
 - DN15 length 110 **Ref. 9811053**
 - DN20 length 130 **Ref. 9811055**



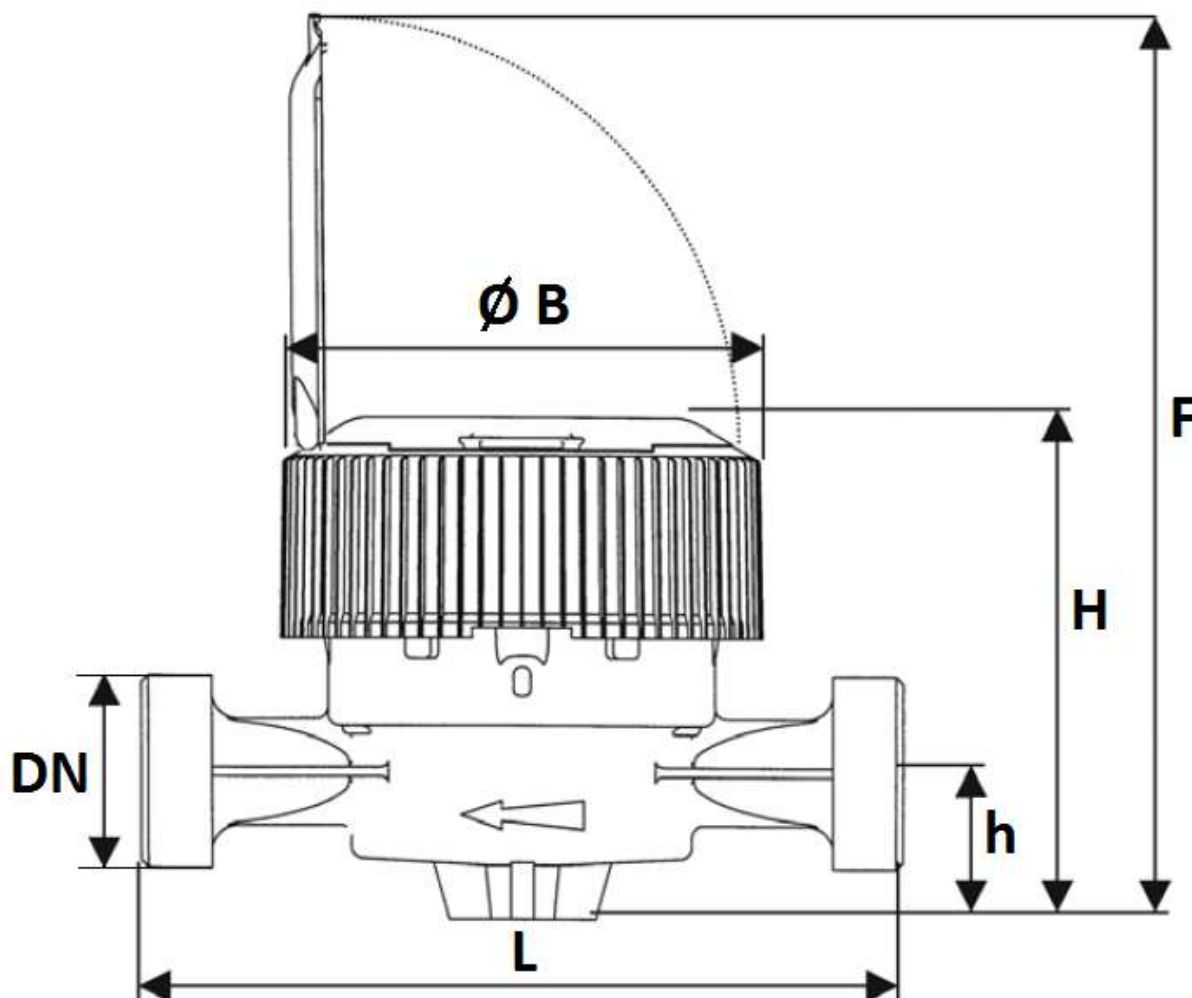
- Brass pipe male BSP threaded
 - For water meter DN15 length 110 **Ref. 9811045**



- Galvanized steel water meter stand with fixed and sliding fitting
 - For water meter DN15 length 110 **Ref. 9851000**

COLD WATER METER SINGLE JET MID R160 IMPULSE PRE-EQUIPPED

SIZE (in mm) :



Bore	15	20	25
DN	3/4"	1"	1"1/4
L	110	130	160
Ø B	82.4	82.4	82.4
F	158	158	158
H	87	87	87
h	25.5	25.5	25.5
Weight (in Kg)	0.75	0.92	1.25
Ref.	2740015 or 2740015P1	2740020 or 2740020P1	2740025

COLD WATER METER SINGLE JET MID R160 IMPULSE PRE-EQUIPPED

TECHNICAL FEATURES :

Bore	15	20	25
Max flow Q4 max (m3/h)	3.13	5	7.9
Nominal flow rate Q3 (m3/h)	2.5	4	6.3
Min flow rate MID R160 Q1 with $\pm$ 5% error (l/h)	15.6	25	
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Transitional flow rate Q2 MID R160 with $\pm$ 2% error (L/h)	25	40	
Transitional flow rate Q2 MID R100 with $\pm$ 2% error (L/h)	40	64	100.8
Starting flow rate (l/h)	5	9	18
Head loss class (ΔP @ Q3)	ΔP 63		
Nb of turns / turbine liter	29.76	22.83	12.53
Min reading (L)	0.05	0.05	0.05
Max reading (m3)	100.000	100.000	100.000

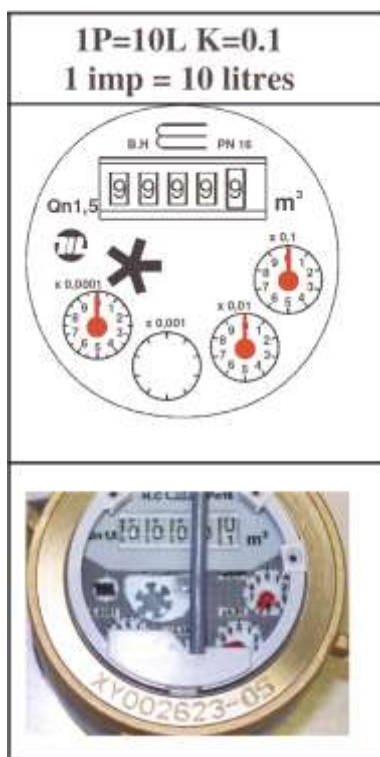
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STANDARDS :

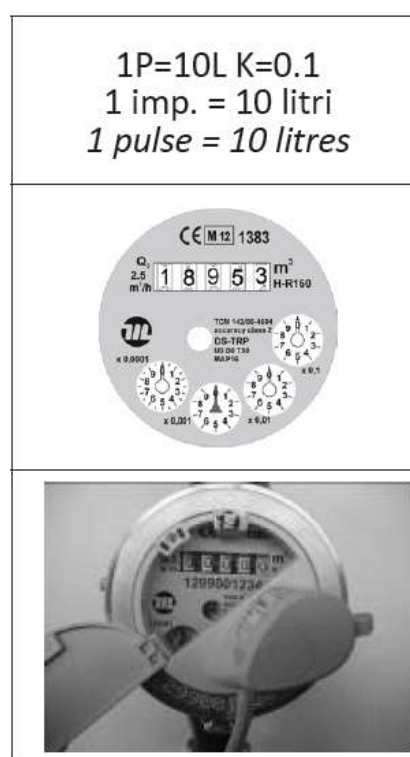
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- DIRECTIVE 2014/68/EU : Products excluded from directive (article 1, § 2b)
- Water Meters according to directive **2014/32/EU MID (annex MI001)**
- Designing according to **EN 14154 and EN ISO 4064**
- French water agreement **A.C.S. N° 19 ACC LY 427**
- Male BSP cylindrical threading according to ISO 228-1

PULSER INSTALLATION POSITIONS :

Type Reed Ref.2749031 CICDONE



Type Inductive Ref. 2749035 CIQUADRA



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Date : 09/24

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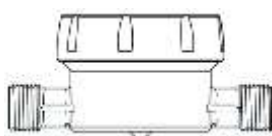
Rev.04

Information provided as an indication and subject to possible modification

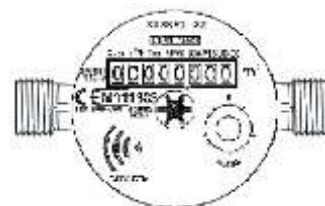
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INSTALLATION POSITIONS :

HORIZONTAL :



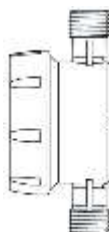
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