

WOLTMANN HOT WATER METER FLANGED PN16 PRE-EQUIPPED

Woltmann water meter high flow for hot water with dry dial for water distribution.

Mineral glass with plastic cover and lid.

Horizontal or vertical position without straight length upstream and downstream needed with a flow straightener (U0S/D0).

Pre-equipped for radio MBUS, MBUS or pulse transmitter.



Size : DN50 to DN200

Connection : Flanges PN 10/16 RF (PN16 for DN200)

Min Temperature : +30°C

Max Temperature : +90°C

Max Pressure : 16 Bars

Specifications : Axial helicoid

Dry dial

Magnetic transmission

Materials : Cast iron body

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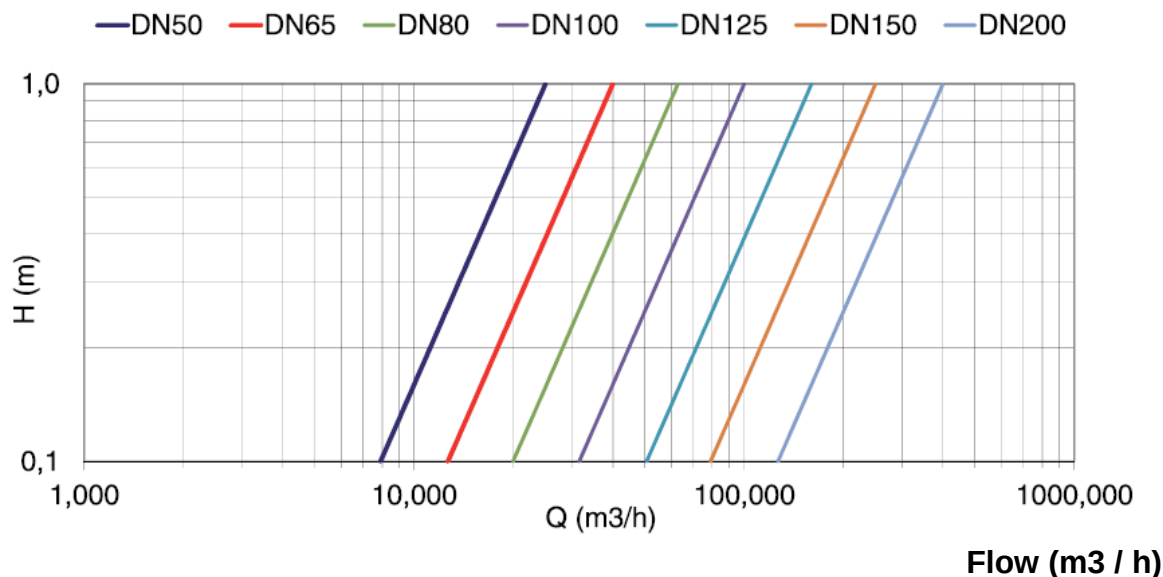
SPECIFICATIONS :

- Woltmann type with interchangeable insert
- **Ratio $Q3/Q1=80$** in horizontal position with horizontal dial and 50 for vertical position or horizontal with vertical dial (respect the flow direction indicated by the arrow)
- Horizontal or vertical mounting without straight length needed with a flow straightener (US0D0), without flow straightener keep a length of 10xDN upstream (=U10)
- Dry dial IP68 with mineral glass
- Magnetic transmission
- Direct reading on 7 numerical rolls
- With lid
- Cast iron body
- Pre-equipped for pulse transmitter : DN50-125 1 impulse /10L or 1000L, over 1 impulse / 100L or 10000L
- No MID

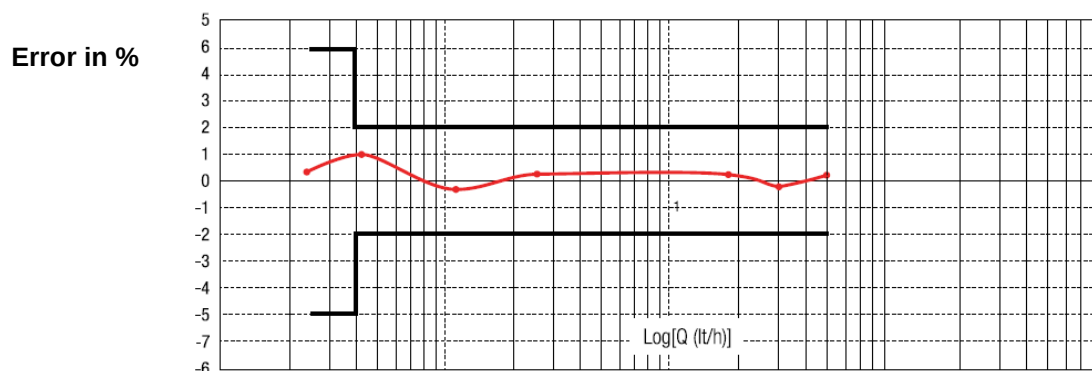
USE :

- Water distribution
- Min and max temperature Ts : +30°C to +90°C
- Max Pressure Ps : 16 bars

HEAD LOSS GRAPH :



TYPICAL ERROR CURVE :



WOLTMANN HOT WATER METER FLANGED PN16 PRE-EQUIPPED**RANGE :**

- Woltmann hot water meter flanged PN10/16 **Ref.2739** from DN50 to DN200

SPECIFICATIONS :

- Copper can register and glass lens (IP68)
- The register is housed in a dry compartment, which has no contact with the water, for continued readability
- Direct read dial with 7 numbered drums for cubic meters (8 on DN150 and DN200 meters) and 2 pointers for Decimals
- Plastic cover and lid with magnetic shielding
- Cast iron flanged body; internal and external epoxy powder coating
- Steel pivot, synthetic sapphire bearing
- Internal mechanism made of anhygroscopic, anti-scaling and hard-wearing plastic materials
- The pulsed version retains the metrological seal and is protected by a cover

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ACCESSORIES :



- Pulse transmitter Reed Switch **Ref.9821017 CIWMAP**
 - DN50 à DN125 : 1 impulse /100 L
 - DN150 et DN200 : 1 impulse/1000 L



- RADIO ARROW module (to connect on the pulse output) IP68
Ref.2749046 MARROW



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



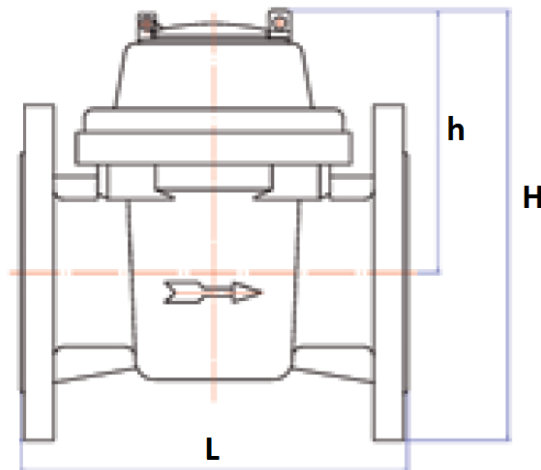
- ARROW mobile radio software
Ref.2749014



- Flow straightener **Ref.2710 STAB**

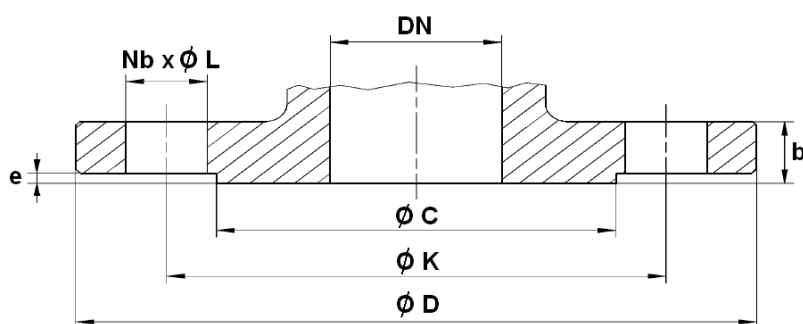
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SIZE (in mm) :



DN	50	65	80	100	125	150	200
L	200	200	225	250	250	300	350
H	213	220	275	290	305	320	368
h	136	136	186	186	186	186	206
Weight (Kg)	10	11.2	15.2	17.2	22.4	29	42.6
Ref.	2739050	2739065	2739080	2739100	2739125	2739150	2739200

FLANGES SIZE (in mm) :



DN	50	65	80	100	125	150	200
Ø C	102	122	138	158	188	212	268
Ø D	165	185	200	220	250	285	340
Ø K	125	145	160	180	210	240	295
Nb x Ø L	4 x 18	4 x 18	8 x 18	8 x 18	8 x 18	8 x 22	12 x 22
b	20	18	20	20	22	22	24
e	2	2	2	2	2	2	2

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TECHNICAL FEATURES :

DN	50	65	80	100	125	150	200
Max flow Q4 max (m3/h)	31.25	50	78.75	125	200	312	500
Nominal flow rate Q3 (m3/h)	25	40	63	100	160	250	400
Min flow Q1 $\pm$ with 5% error (l/h)	312.5	500	787.5	1250	2000	3125	5000
Transitional flow rate Q2 with $\pm$ 3% error (L/h)	500	800	1260	2000	3200	5000	8000
Min reading (l)	2	2	2	2	2	20	20
Max reading (m3)	10.000.000	10.000.000	10.000.000	10.000.000	10.000.000	100.000.000	100.000.000
ΔP	10	10	10	10	10	10	10

STANDARDS :

- Manufacturer certified ISO 9001 : 2015 and ISO 14001 :2015
- DIRECTIVE 2014/68/EU : Products excluded from directive (article 1, § 2b)
- French water agreement **A.C.S. N° 21 ACC LY 846**
- English water agreement **WRAS**
- Flanged according to EN 1092-2 PN16

ADVICE : Our opinion and our advice are not guaranteed and SFERACO shall not be liable for the consequences of damages.
The customer must check the right choice of the products with the real service conditions.

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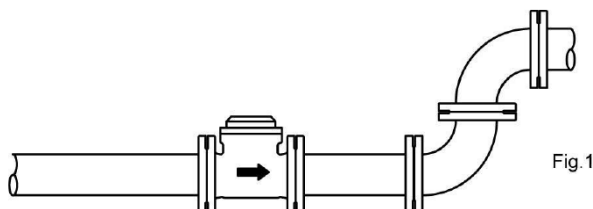
INSTALLATION INSTRUCTIONS OF WATER METER

BEFORE INSTALLATION :

Pipe-line must be cleaned and free from residual of weldings, rubbish, shaving and every kind of extraneous materials.
Pipe-line must be perfectly aligned and their support properly dimensioned so that there's no external constraint.
Tighten the bolts in cross
Use the right bolt tightening so that the ends won't be damaged.

It's recommended to install a strainer before the water meter if there are some solid particles in the water.
Installation of the meters in the vicinity of pumps must be avoided. It is advisable to install the meter as far as possible from them.

Make sure all the water supply outlets, served by the meter, sit higher than the meter itself otherwise its metering precision could be altered. The highest position of the count itself as the recording of the counter may not be reliable. To address these possibilities, simply place the meter after a 'large upward curve that ensures always a pipe completely filled with water (Fig 1). This will prevent air bubbles that could affect the accuracy of measurement



Respect the flow direction indicated by the arrow.

We recommend installing a valve downstream and one upstream of the meter in order to facilitate a possible maintenance of the meter itself, without having to drain the complete pipeline.

During the water meter commissioning it is advisable to open first the valve placed downstream of the meter (so to flood the mechanical part of the instrument) and then slowly open the valve located upstream of the meter. This will prevent possible water hammers or acceleration of the flow that could damage the moving parts of the instrument.

TESTS :

During the tests under pressure, water meter must be removed to avoid overpressure risks.

INSTALLATION

Please make the water flow slowly to avoid water hammer.
The meter pit shall be protected from flooding, rainwater and frost.
Avoid direct solar exposition.

INSTALLATION POSITIONS :

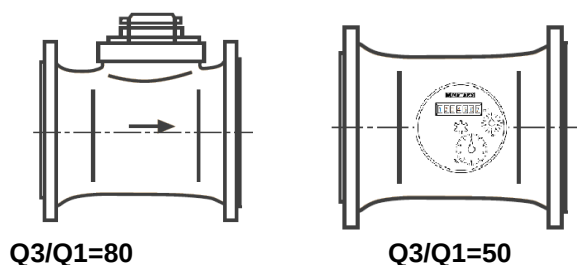
The counter should be normally placed in an horizontal position

The counter can be installed vertically with ascending flow or tilted without suffering any damage.

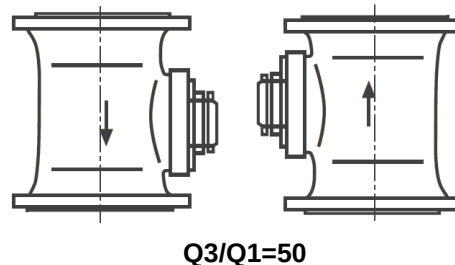
If necessary, the counter can be installed vertically with descending flow but the pipe should always be full of water in this case.

NOTE: Never install the water meter in horizontal position with totalizer in upside down orientation.

HORIZONTAL :



VERTICAL* :



*** : In vertical position, the pipe should always be full of water.**

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