

410 PC

Multijet Meter Semi Dry Protected Register Class C



Main Characteristics

DN 15 to 40 PN16

Excellent legibility of the register

Direct transmission

Robust, suited to extended periods of immersion

Application

Like the other members of the 410 family, this multijet meter benefits from the long experience of Sensus in high-performance meters. Like them, it retains excellent metrological characteristics and an unequalled robustness, qualities which have already ensured their success throughout the world.

Its dial, housed in a case filled with lubricated solution, is protected from the impurities in the network. It can be read perfectly under all conditions.

Options

Pipe to meter couplings

Metal lid

Non-return valve

Upstream and downstream stop valves

www.sensus.com
info.int@sensus.com

The logo for Sensus Metering Systems, featuring a stylized blue and yellow circular graphic to the left of the text "SENSUS METERING SYSTEMS".

SENSUS
METERING SYSTEMS

Body and Head

These two very thick components made of high quality brass (type UZ-Y30) ensure the meter is perfectly waterproof and highly robust.

The 410 PC can remain submerged.

Metering Unit

The turbine mounted on sapphire is highly resistant to wear.

The balanced pressure of the water and its upward movement in the injection box ensure a low starting flow rate.

Totalizer with protected wheels

The totalizer wheels, cubic decimetre pointer and terminal transmission worn are immersed in a lubricating solution, ensuring optimum operation and protection.

This technique prevents any condensation and enables perfect legibility of the counter under all conditions, irrespective of the nature of the water.

The direct transmission gives the 410 PC good sensitivity, especially low flow rates.

Register

The very thick (8 mm) glass ensures the unit is highly robust.

The five wheels count m3.

Four pointers indicate the subdivisions of a m3.

A notched disc shows the least rotation of the turbine.

The counter returns to zero at 100,000 m3.

Filtering

Excellent filtering of the water through the combined action of a pipe strainer and a seat filter.

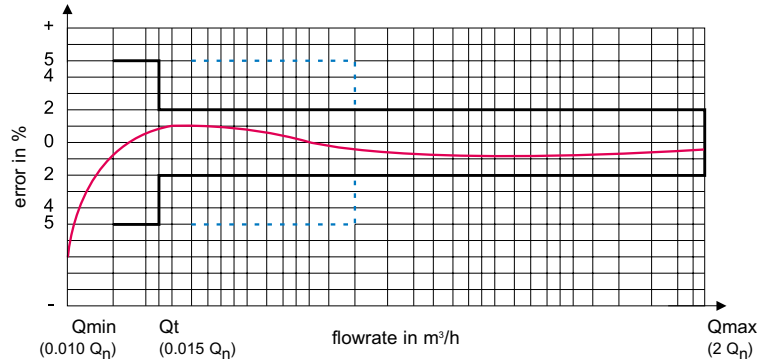
This effective protection of the metering element prevents wear by abrasion and increases its life expectancy.

Adjustment Screw

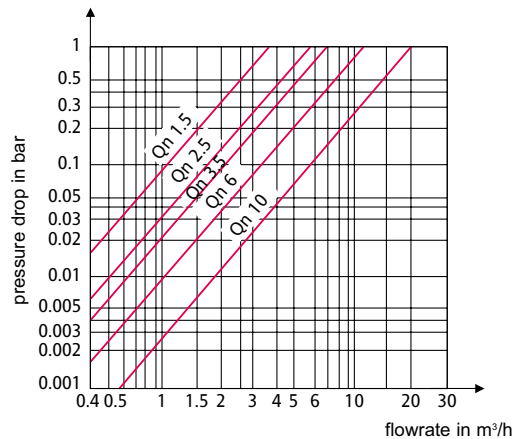
An adjustment screw enables optimum setting up of the meter in the factory.

Opening of the meter and access to the adjustment screw are prevented by a lead-sealed wire.

Typical Accuracy Curve



Typical Pressure Drop Chart



410 PC

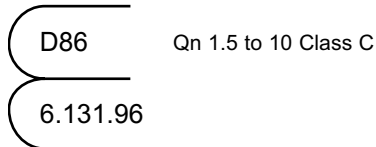
Compliance

The 410 PC meter complies with:

- ISO 4064,
- Recommendation n°49 of the OIML,
- EC directive 75/33.

Pattern Approval No.

The 410 PC meter is approved to the EEC pattern approvals:



On request, the 410 PC meter can be delivered stamped Class B.

Marking

Two arrows on the body show the direction of flow.

The year of manufacture and the individual meter number are engraved on the head.

The manufacturer's name, the type of the meter, the nominal flowrate, the metrological class and the EC pattern approval number are printed on the dial.

Installation and Maintenance Instructions

The 410 PC meter must be installed in a low point of the pipeline.

The meter must be installed with the arrow cast on the body corresponding to the direction of water flow.

Before fitting the water meter, all pipework must be flushed out to remove all foreign bodies.

An upstream valve is recommended to allow installation and removal of the meter.

During tightening, the meter can be maintained in position with a standard tool owing to the flats on the pipe.

When connecting the meter with the water network, the upstream valve must be opened slowly in order to fill the meter with water smoothly.

No special maintenance is required.

Technical Characteristics

Metrological Characteristics - EEC Directive 75/33

Nominal Diameter	DN	mm	15	20	25	32	40
Nominal flowrate	Q _n	m ³ /h	1.5	2.5	3.5	6	10
Maximal flowrate	Q _{max}	m ³ /h	3	5	7	12	20
Class C							
Minimum flow rate (tolerance ±5%)	Q _{min}	l/h	15	25	35	60	100
Transitional flow rate (tolerance ±2%)	Q _t	l/h	22.5	37.5	52.5	90	150
Class B							
Minimum flow rate (tolerance ±5%)	Q _{min}	l/h	30	50	70	120	200
Transitional flow rate (tolerance ±2%)	Q _t	l/h	120	200	250	480	800

Operational Characteristics

Nominal Diameter	DN	mm	15	20	25	32	40
Start to register at about		l/h	5	8	15	15	25
Totalizer maximum registration		m ³	10 ⁵ (99999)	10 ⁵ (99999)	10 ⁵ (99999)	10 ⁵ (99999)	10 ⁵ (99999)
Lowest reading unit		l	0.05	0.05	0.05	0.05	0.05
Nominal pressure		bar	16	16	16	16	16

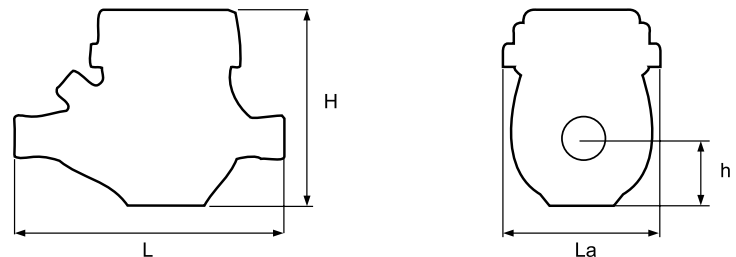
Sizes and Weight

Dimensional characteristics

Nominal Diameter	DN	mm	15	20	25	32	40
Length	L	mm	170*	190	260	260	300
Width	La	mm	96	96	103	103	134
Total height	H	mm	109	111	126	126	151
Height from bottom to pipe centre	h	mm	34	36.5	45	45	61
Pipe thread	Diameter	inch	3/4"	1"	1"1/4	1"1/2	2"
	Diameter	mm	26.44	33.25	41.91	47.80	59.61
	Pitch	mm	1.814	2.309	2.309	2.309	2.309
Weight (without connector)		kg	1.36	1.6	2.3	2.5	5

* available on request in lengths 145 and 165 mm.

Dimensions



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