

# Cold water meter

type WP

AT 7110B

## Internet\_Variants

Dimension range	PN	Temperature range	Material
DN 50 - 150	16	+1 °C to 50 °C	Cast iron

## Range of application

Measurement of cold water with a digital display showing total consumed amount. Suitable for distribution and pumping facilities and when low pressure loss is preferred. The meter is prepared to be equipped with a remote reading sensor of type M-Bus or pulse.

## Program text

UGE.35 Water meter for flow, pipe mounted with digital display, accumulated value.

Cold water meter AT 7110B.... type Woltmann, prepared for remote reading module, Q3 .... m<sup>3</sup>/h, DN .... with flanges PN 16.



## Quality assurance

MID-certificate, CE-marking.

## Material specification

Component	Material
Body	Cast iron
Meter chamber	PPO
Support pin	Hard metall

## Dimensions and weight

DN	50	65	80	100	125	150
A	200	200	225	250	250	300
B	224	234	242	279	279	339
C	82,5	92,5	100	110	110	142,5
D	80	80	80	80	80	80
Weight	11,4	12,6	14,1	19,5	19,5	34

Measurements in mm, weight in kg.

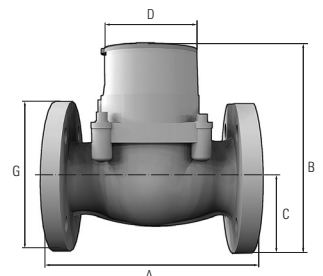
## Function and design

Cold water meter Woltex type turbine wheel, where a free floating spherical turbine unit rotates in the water current, which entails low friction.

The movement is transferred with a magnetic coupling to the counter.

The counter is eight figures, hermetically sealed and also rotatable in 360°, so the counter display can be turned into suitable position.

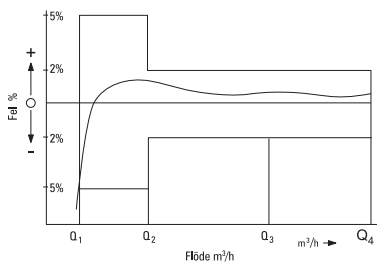
The meter is provided with an indicator for connection of remote reading module type Cyble, either M-Bus or Pulse. See separate product sheet AT 7275CY.



## Function data

DN	50	65	80	100	125	150
Q <sub>3</sub> , permanent flow (m <sup>3</sup> /h)	40	63	100	160	160	400
Q <sub>1</sub> , minimum flow, (m <sup>3</sup> /h)	0,4	0,63	1,0	1,6	1,6	2,5
Q <sub>2</sub> Transitional flow, (m <sup>3</sup> /h)	0,64	1,0	1,6	2,56	2,56	4,0
Q <sub>4</sub> , Overload flow (m <sup>3</sup> /h)	50	79	125	200	200	500
Q <sub>3</sub> /Q <sub>1</sub> , Ratio (R-tal) standard	100	100	100	100	100	100
Start flow, (m <sup>3</sup> /h)	0,19	0,22	0,25	0,38	0,38	0,4
Pressure loss by Q <sub>3</sub> according to EN 14154, (bar)	0,16	0,4	0,4	0,4	0,4	0,16

The values above (exclusive start and pressure loss) shows the meteorological properties according to the standard MID.  
The meter actual values surpasses the given data.



## Largest allowed margin of error

Flow range	Largest allowed margin of error
Q1 - Q2	±5%
Q2 - Q4	±2%

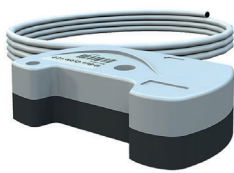
## Sizing

The smallest meter that can handle the given continuous flow Q<sub>3</sub> is selected. All though it's important to control that the pressure loss is not to high. Short term overload is considered to be less than 1 hour each day, or at most 200 hours per year.

## Accessories and options

### Accessories

Remote reading modules type M-Bus or Pulse. For more information on remote readings modules see separate product sheet AT 7275CY.



AT 7275MEI

## Pressure loss

## Installation

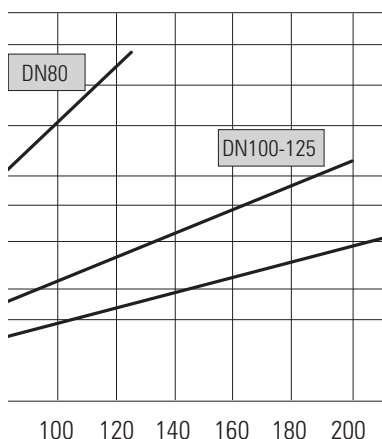
The meter can be mounted horizontally or vertically with the meter head upwards or to the side. A straight inlet of 3 x DN in front of the meter is recommended. After the meter no straight outlet is needed, but there should not be any decrease in pipe in the direct vicinity of the meter. The system should be flushed before the meter is mounted. During commissioning pressure impacts should be avoided. Flange gaskets are included in the delivery.

## Maintenance and spare parts

Revision of the meter should be performed by a notified body.

## Marking

The cold water meter is blue with a gray plastic lid. The meter is marked Itron, Q<sub>3</sub>, R-value, manufacturing year, CE and serial number.



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DN	AT-no
50	AT 7110B50-200
65	AT 7110B65-200
80	AT 7110B80-225
100	AT 7110B100-250
150	AT 7110B150-300