

# WPV-MS

Combined meter



## Your benefits

- Precise sizing of the water meter according to the flow rates occurring in the system:  
**Improved efficiency**

## Applications

- Measurement of high, strongly fluctuating flow rates, e.g.:
  - Commercial and industrial installations
  - School and sports complexes
  - Apartment blocks
  - Hotels
- Specified pipe sizing for fire-fighting water demand

## Properties

- Achievement of the largest known measuring range with defined low error limits
- Horizontal installation position
- No inlet straight pipe section required
- Maximum operating pressure PN 16 bar
- Temperature up to 50 °C
- Hydrodynamic vane balancing of the main meter
- Optimal corrosion protection by powder coating
- Starting flow approx. 8 l/h
- Spring-loaded changeover valve with low pressure loss
- Minimum pressure of 0.5 bar upstream of the meter required
- SVGW certification
- **CE** Conformity according to the European Measuring Instruments Directive (MID)
- Flood-proof pulse transmitter registers for main and secondary meter (IP68), each with one slot for an Opto-OD pulse transmitter and one interface for an HRI-Mei pulse transmitter

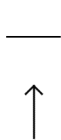
## Options

- Flood-proof GWFcoder® main and secondary registers (IP68) with IEC or M-Bus interface, 5 m cable and one interface each for an HRI pulse transmitter
- High-resolution pulse transmitter HRI-Mei
  - 📄 [Dokumentation: HRI-Mei - EPe10222](#)
- High-resolution pulse transmitter Opto OD
  - 📄 [Dokumentation: Opto-OD-Impulsgeber - EPe10205](#)

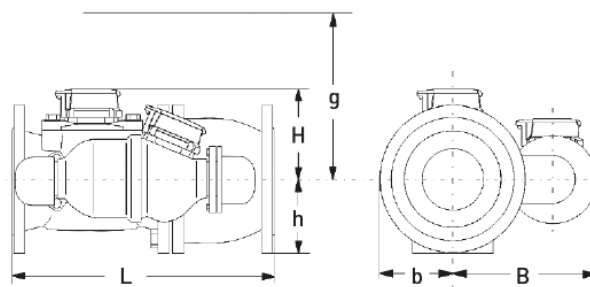
## Installation positions

**Pipeline:** horizontal

**Meter head** upwards



## Dimension diagram



## Technical Data

<b>Nominal diameter</b>	<b>DN</b>	<b>mm</b>	<b>150</b>
<b>Secondary meter nominal diameter</b>	<b>DN</b>	<b>mm</b>	<b>40</b>
<b>Nominal pressure</b>	<b>PN</b>	<b>bar</b>	<b>16</b>
<b>Permanent flow rate</b>	<b>Q3</b>	<b>m<sup>3</sup>/h</b>	<b>400</b>
Maximum flow rate (1x24h)	Q4	m <sup>3</sup> /h	600
Transitional flow rate ±2%	Q2	m <sup>3</sup> /h	0,15
Minimum flow rate +/- 5%	Q1	m <sup>3</sup> /h	0,035
Changeover at increasing flow rate		m <sup>3</sup> /h	8,3
Changeover at decreasing flow rate		m <sup>3</sup> /h	4,7
Temperature		max.°C	50

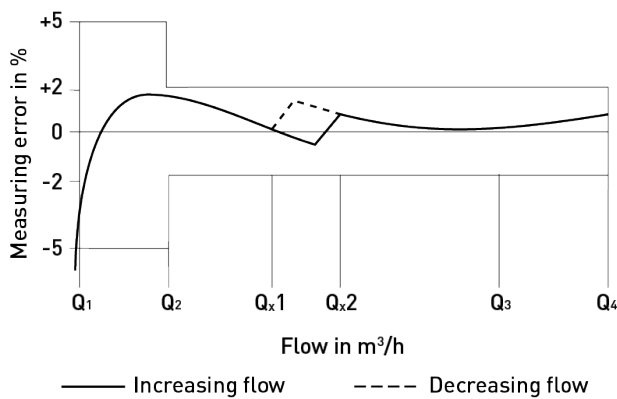
Dimensions and weights			
<b>Length</b>	<b>L</b>	<b>mm</b>	<b>500</b>
Hight	H	mm	177
Hight	h	mm	135
Measuring insert removal height	g	mm	356
Width	B	mm	275
Width	b	mm	145
Meter weight		approx. kg	60

MID approval data			
Permanent flow rate	Q3	m <sup>3</sup> /h	250
Temperature		max.°C	30
Measuring range			R2500

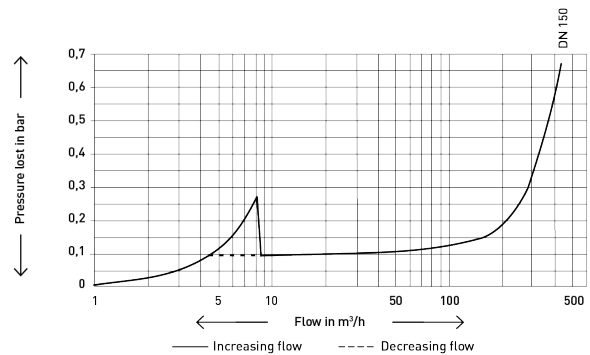
# Materials

Housing primary meter	Grey cast iron
Housing secondary meter	Brass
Measuring insert primary and secondary meter	Plastic
Spring-loaded changeover valve:	Plastic / stainless steel

## Measuring error curve



## Druckverlustkurve



## Comission notes



During commissioning, the pipes must be filled with water slowly (slow venting must be ensured).

## Pulse value HRI-Mei pulse transmitter

Meter size	DN 150 Impuls = ...liters
WPV-MS primary meter	100 1000
WPV-MS secondary meter	10 100

# Pulse value of the Opto-OD pulse transmitter

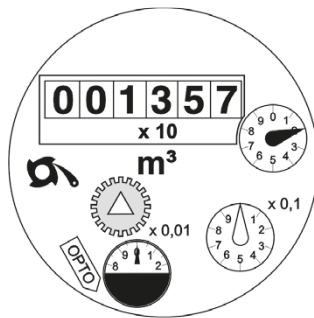
Meter size		DN 150 1 Impuls = ...liters
WPV-MS primary meter	Opto OD 01	10
	Opto OD 03	100
WPV-MS secondary meter	Opto OD 01	1
	Opto OD 03	10

## Order information

Flow direction	Position of the secondary meter...
left to right	...in flow direction right
right to left	...in flow direction left

## Register dials

Primary Meter



Secondary Meter

