



Water

GWF



Meitwin

Combined meter



Your benefits

- Measurement from the lowest to the highest flow rates:
Improved cost efficiency
- Removable measuring insert consisting of the main meter, bypass meter, and changeover valve:
Ensures retrofit capability and easy replacement
- One measuring insert for all housing sizes:
Reduced inventory costs

Applications

- Measurement of high and highly fluctuating flow rates, for example:
 - Commercial and industrial facilities
 - Schools and sports complexes
 - Apartment buildings
 - Hotels
- Designed for pipeline dimensions specified for fire protection water demand.

Properties

- Achieves one of the widest known measuring ranges while maintaining defined low error limits.
Example: DN 80, $Q_1 = 16 \text{ l/h}$, $Q_3 = 120,000 \text{ l/h}$, Measuring range 1:7500
- Universal installation position
- No upstream straight pipe section required
- Maximum operating pressure: PN 16 bar
- Temperature up to 50 °C
- Hydrodynamically balanced main meter impeller
- Available in the standard installation lengths for Woltman (WS) meters
- Optimum corrosion protection through powder coating
- Starting flow rate approx. 2 l/h
- Common protective cover for the main and bypass meters
- Spring-loaded changeover valve with low pressure loss
- Minimum upstream pressure of 0.5 bar required
- SVGW certified
- **CE** Complies with the European Measuring Instruments Directive (MID)
- IP68 flood-proof pulse register for both the main and bypass meters, each with one slot for an Opto OD pulse transmitter and one mounting position for an HRI-Mei pulse transmitter

Options

- IP68 flood-proof GWFcoder® register for both the main and bypass meters with IEC or M-Bus interface, 5 m cable, and one mounting position for an HRI-Mei pulse transmitter
- High-resolution HRI-Mei pulse transmitter
 [Documentation: HRI-Mei](#)
- High-resolution Opto OD pulse transmitter
 [Documentation: Opto OD](#)

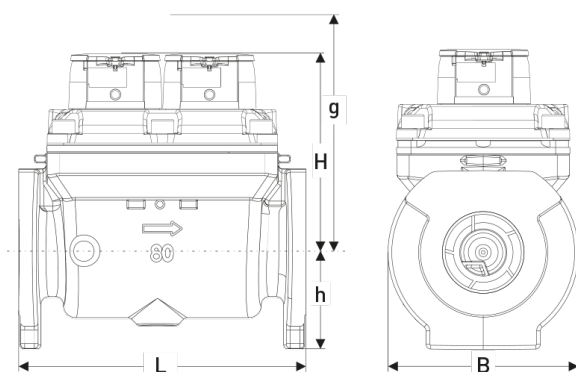
Technical Data

Nominal diameter	DN	mm	50	65	80	100
Nominal pressure	PN	bar	16	16	16	16
Permanent flow rate	Q3	m³/h	50	70	120	180
Overload flow rate (1 × 24 h)	Q4	m³/h	90	120	200	280
Transition flow rate (±2%)	Q2	m³/h	0,012	0,012	0,012	0,012
Minimum flow rate (±5%)	Q1	m³/h	0,006	0,006	0,006	0,006
Changeover point (increasing flow)		m³/h	2,0-2,6	2,0-2,6	2,0-2,6	2,0-2,6
Changeover point (decreasing flow)		m³/h	1,1-1,7	1,1-1,7	1,1-1,7	1,1-1,7
Maximum temperature		max. °C	50	50	50	50

Dimensions and Weights						
Installation length	L	mm	270	300	300	360
Height	H	mm	250	250	250	250
Height	h	mm	80	92,5	100	100
Measuring insert installation height	g	mm	505	505	505	505
Width	B	mm	185	185	210	220
Meter weight		app. kg	23	24,6	26,1	31
Measuring insert weight		app. kg	7	7	7	7

MID Approval Data						
Permanent flow rate	Q3	m³/h	25	40	63	100
Maximum temperature		max. °C	30	30	30	30
Measuring range			R1600	R2500	R4000	R6300

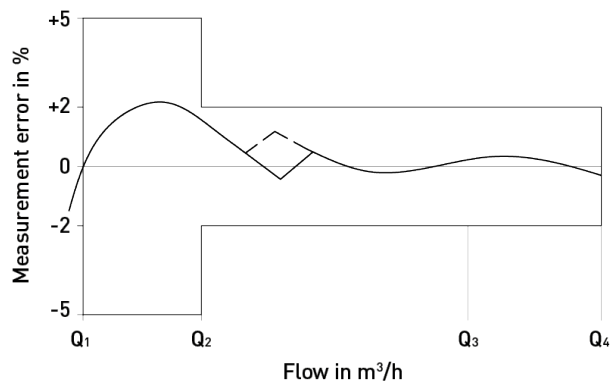
Dimensions



Materials

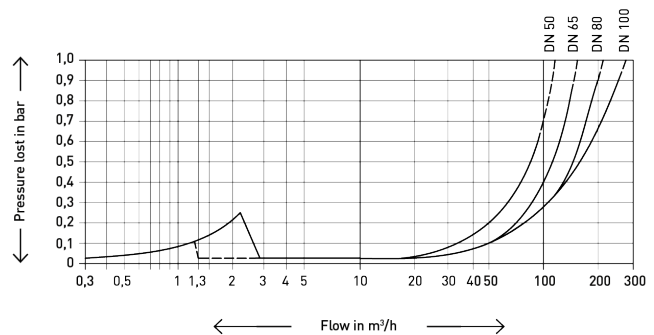
Main meter housing	Cast iron
Bypass meter housing	Brass
Measuring insert	Plastic
Impeller	Plastic
Spring-loaded changeover valve	Plastic / Stainless steel

Accuracy Curve

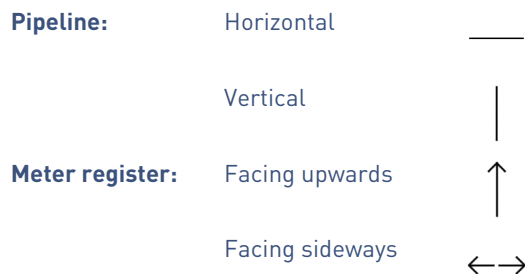


—— Increasing flow rate - - - Decreasing flow rate

Pressure Loss Curve



Installation Positions

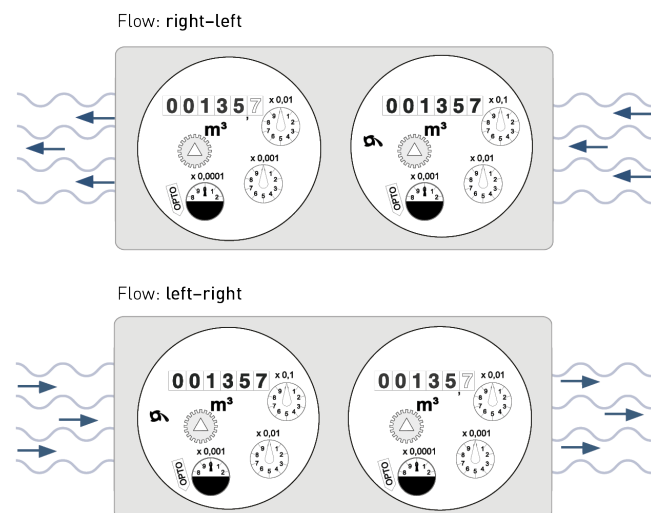


Commissioning Note



When commissioning the meter, always fill the pipeline slowly with water to ensure gradual venting of the system.

Flow Direction



Pulse Value – HRI-Mei Pulse Transmitter

Meter size	DN 50...100 1 pulse = ... litres
Meitwin main meter	10 100
Meitwin bypass meter	1 10

Pulse Value – Opto OD Pulse Transmitter

Meter size	DN 50...100 1 pulse = ... litres
Meitwin main meter	Opto OD 01 Opto OD 03 1 10
Meitwin bypass meter	Opto OD 01 Opto OD 03 0,1 1