



Water

GWF



Meistream Plus

Bulk water meters



Your benefits

- Measurement of low flow rates:
Increased cost effectiveness
- Removable measuring insert:
Retrofittability and replaceability guaranteed
- One measuring insert for various bodies:
Lower storage costs

Applications

- Measurement of medium to high flow rates
- Measurement of low flow rates during offpeak periods
- Measuring of
 - Desalinated / demineralized water
 - Caustic soda up to 20 %
 - Saline water up to 10 %
 - Chlorinated water up to 1 %
 - Glycol-water solutions up to 30 %
 - Caustic solutions up to pH value 9

Properties

- Horizontal installation position
- No straight flow section required before the meter
- Register can be turned through 355°
- Maximum operating pressure PN 16 bar
- Temperatures up to 50 °C
- Rotor is hydrodynamically, radially and axially balanced
- Available in the standard installation lengths for WS and WP meters
- Powder coating provides optimum corrosion protection
- Non-ferrous metal design
- SVGW certification
- **CE** Conformity according to the European Measuring Instrument Directive (MID)
- Flood-proof standard pulser register (IP68) with a port for one Opto-OD-Pulser and provision for a HRI-Mei pulser

Options

- Flood-proof GWFcoder® register (IP68) with IEC or M-Bus interface and 5 m cable and provision for a HRI pulser
- High-resolution pulse generator HRI-Mei
 [Documentation: HRI-Mei](#)
- High-resolution pulse generator Opto OD
 [Documentation: Opto OD](#)

Technical Data

Manufacturer information

Nominal diameter ¹⁾	DN	mm	50	50	65	65	80	80	100	100	150
Nominal pressure	PN	bar	16	16	16	16	16	16	16	16	16
Nominal flow rate	Q3	m ³ /h	35	35	40	40	63	63	100	100	250
Overload flow rate (few minutes)	Q4	m ³ /h	55	55	60	60	120	120	160	160	400
Transitional flow rate ± 2 %	Q2	m ³ /h	0,13	0,13	0,16	0,16	0,25	0,25	0,4	0,4	0,63
Minimum flow rate ± 5 %	Q1	m ³ /h	0,07	0,07	0,1	0,1	0,13	0,13	0,2	0,2	0,35
Temperature		max. °C	50	50	50	50	50	50	50	50	50

Dimensions and weights

Overall length	L	mm	200	270 ²⁾	200	300	225	300	250	360	300 ³⁾
Height ⁴⁾	H	mm	120	120	120	120	150	150	150	150	177
Height	h	mm	73	73	85	85	95	95	105	105	135
Dismantling height of measuring unit ⁴⁾	g	mm	200	200	200	200	270	270	270	270	356
Meter weight		app. kg	7,8	9,6	10,1	12	14,2	16,3	18,2	20,2	35,9
Measuring insert weight		app. kg	1,5	1,5	1,5	1,5	3,2	3,2	3,2	3,2	5,9
Body weight		app. kg	6,3	8,1	8,6	10,5	11	13,1	15	17	30

1) Nominal size DN 40 upon request

2) Also available with 300 mm body length

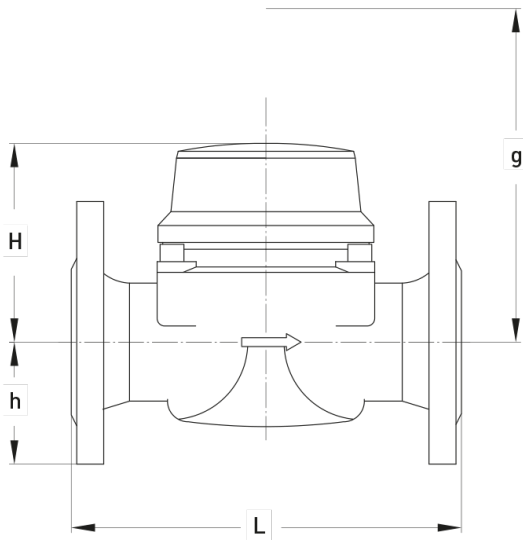
3) Also available with 500 mm body length

4) The dimension g and H increase by 22 mm if a HRI-Mei impulse generator and cover are installed

MID certification data

Nominal flow rate	Q3	m ³ /h	25	25	40	40	63	63	100	100	250
Temperature		max. °C	50	50	50	50	50	50	50	50	50
Measuring range			R315	R315	R400	R400	R400	R400	R400	R400	R630
Standard marking			R315	R315	R315	R315	R315	R315	R315	R315	R315

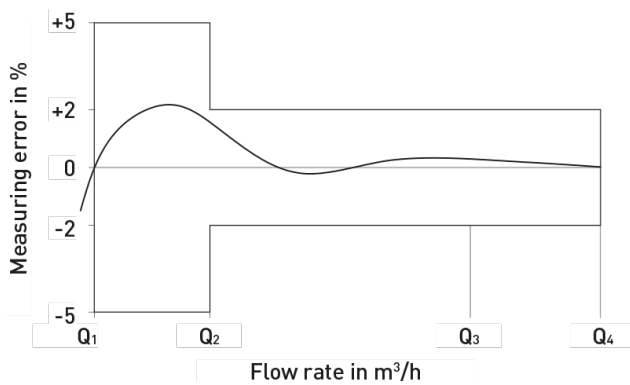
Dimension Diagram



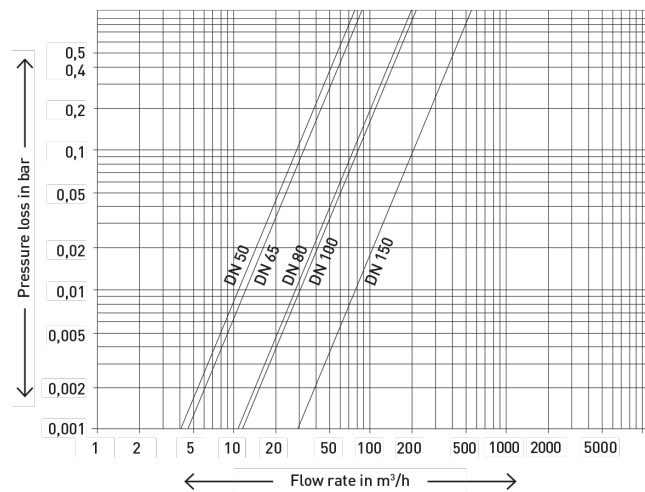
Materials

Body	Cast iron
Measuring insert	Plastic
Rotor	Plastic
Other materials	Brass / non-rusting steel

Measurement error curve



Typical Head Loss Curve



Installation

Pipeline	horizontal	—
Meter head	upwards	↑

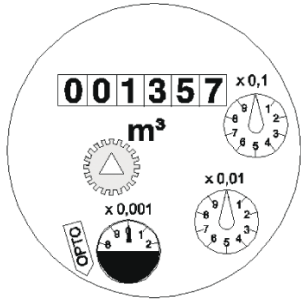
Commission



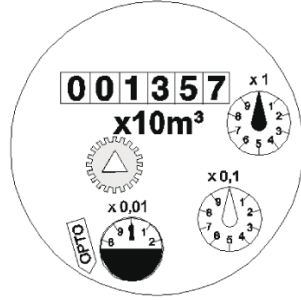
When commissioning the meter the measuring section must be filled slowly (bleed slowly).

Dial

DN 50 – DN 100



DN 150



Nominal size	DN	50-100	150
Smallest reading	m ³	0,0005	0,005
Maximum register reading	m ³	1'000'000	10'000'000

Pulse values HRI-Mei Pulser

Meter sizes	DN 50...100 1 Pulse = ...Liter	DN 150 1 Pulse = ...Liter
Meistream Plus	10 100	100 1000

Pulse values Opto-OD-Pulser

Meter sizes	DN 50...100 1 Pulse = ...Liter	DN 150 1 Pulse = ...Liter
Meistream Plus	Opto OD 01 Opto OD 03	10 100