



### Main characteristics

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- Meter with MID pattern approval acc. to annex MI001
- Exchangeable metrological unit with MID pattern approval acc. to annex MI001
- Unique measuring range;  $Q_3/Q_1 \geq 100$
- High overload capability
- No straight inlet length necessary (U0D0 acc. to OIML R49 and EN 14154)
- Installation position horizontal and vertical
- Meter body in short (WP) and long (WS) overall length acc. to DIN 19625 and EN 14154 available
- Meter can be submerged; protection class IP68
- Used materials are temperature resistant up to 70 °C
- Register prepared for HRI-Mei pick-up
- Use of optical pulsers type OD is still possible

### Applications

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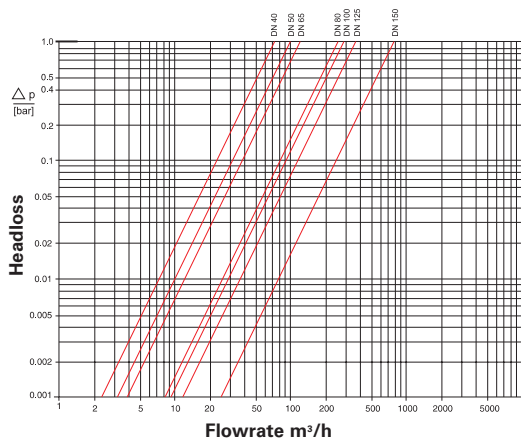
- Measurement for billing of cold potable water up to 50 °C
- Measurement of high flowrates e.g. in pumped pipes
- Measurement of low flow e. g. in light load periods
- For leakage control

### Available options

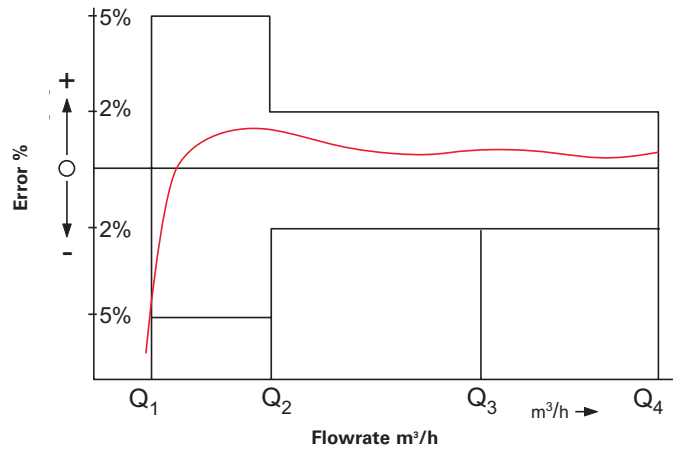
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- Encoder register with different data protocols (M-Bus, MiniBus, Sensus, IEC 1107)
- Version free of copper alloy for aggressive water
- Version for high pressure up to PN 40
- Version for use in hazardous area
- HRI-Mei factory mounted
- 1/4" pressure monitoring port

## Typical Headloss



## Typical Error Curve



## Performance Data

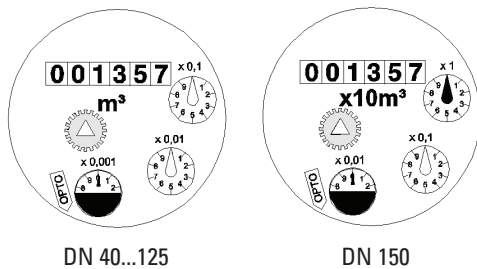
### Metrological Data acc. to Manufacturers Values

	Size	DN	40	50	65	80	100	125	150
$Q_s$	Max. Peak Flow	m³/h	60	90	120	200	300	350	600
$Q_3'$	Continuous Flow	m³/h	40	50	70	120	230	250	450
$Q_{2h}$	Transitional Flowrate horizontal acc. to MID	m³/h	0.32	0.4	0.63	0.51	0.81	1.02	1.6
$Q_{1h}'$	Minimum Flow horizontal	m³/h	0.2	0.15	0.2	0.2	0.3	0.5	0.8
$Q_{2v}$	Transitional Flowrate vertical acc. to MID	m³/h	0.4	0.51	0.81	0.8	1.28	1.6	3.2
$Q_{1v}'$	Minimum Flow vertical	m³/h	0.25	0.28	0.4	0.5	0.5	1	1.6
	Starting Flow	m³/h	0.05	0.05	0.07	0.1	0.11	0.15	0.3

### Metrological Data acc. to 2004/22/EC (MID)



	Size	DN	40	50	65	80	100	125	150
$Q_4$	Overload Flowrate acc. to MID	m³/h	31.25	50	78.75	125	200	200	500
$Q_3$	Permanent Flowrate acc. to MID	m³/h	25	40	63	100	160	160	400
$Q_{2h}$	Transitional Flowrate horizontal acc. to MID	m³/h	0.32	0.4	0.63	0.51	0.81	1.02	1.6
$Q_{1h}$	Minimum Flowrate horizontal acc. to MID	m³/h	0.2	0.25	0.39	0.32	0.51	0.64	1
$Q_{2v}$	Transitional Flowrate vertical acc. to MID	m³/h	0.4	0.51	0.81	0.8	1.28	1.6	3.2
$Q_{1v}$	Minimum Flowrate vertical acc. to MID	m³/h	0.25	0.32	0.5	0.5	0.8	1	2
$Q_3/Q_1 h$	max. Ratio horizontal		125	160	160	315	315	250	400
$Q_3/Q_1 v$	max. Ratio vertical		63	100	100	125	160	125	200
$Q_3/Q_1$	Standard Marking		63	100	100	100	100	100	100
$\Delta p$	Headloss at $Q_3$ acc. to EN 14154	bar	0.08	0.18	0.37	0.16	0.34	0.36	0.32

## Dial





Nominal diameter DN	Smallest reading m³	Max. reading m³
40 ... 125	0.0005	999,999.999
150	0.005	9,999,999.99

## Pulse Values

Pulsar Type		DN 40 ... 125	Pulse Value	DN 150
HRI-Mei (Leaflet see LS 8400)		0.01; 0.05; 0.1 or 1 m <sup>3</sup>		0.1; 0.5; 1 or 10 m <sup>3</sup>
OD 01 (Leaflet see LB 8300)		0.001 m <sup>3</sup>		0.01 m <sup>3</sup>
OD 03 (Leaflet see LB 8300)		0.01 m <sup>3</sup>		0.1 m <sup>3</sup>

## Installation

Pipe	horizontal vertical	
Meter head	upwards sideways	

## Installation Requirements

- Unrestricted straight pipe upstream 0 x DN
- No abrupt restrictions directly downstream of the meter

## Materials

Body	Cast iron (PN16) Ductile iron (PN40)
Measuring element	Plastic
Rotor	Plastic
We also use the following materials	Brass Stainless steel

## Available Lengths

Nominal diameter		40	50	65	80	100	125	150
Overall length L WS (DIN / ISO)	mm		270 / 300*	300	300 / 350*	360 / 350*		500
Overall length L WP (DIN / ISO)	mm	220*	200	200*	225 / 200*	250	250*	300

\* PN16 only

## Approval Mark

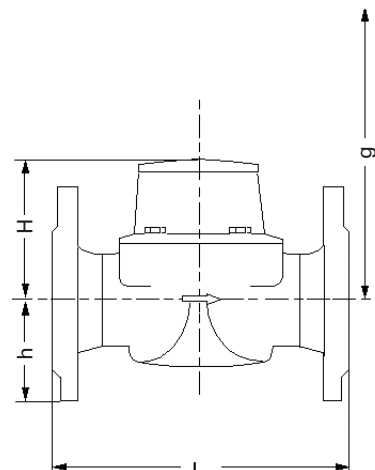
### Meter cpl. and exchangeable metrological unit

Marking CE M-XX\* 0102

DE-09-MI001-PTB 010

\* year of production

## Dimension Picture



# Dimensions and Weights

## Dimensions

Nominal diameter	DN	40	50	50	50	65	65	80	80	
Overall length	L	mm	220	200	270	300	200	300	200	225
Height	H	mm	120	120	120	120	120	120	150	150
	h	mm	69	73	73	73	85	85	95	95
Dismantling height	g	mm	200	200	200	200	200	200	270	270

Nominal diameter	DN	80	80	100	100	100	125	150	150	
Overall length	L	mm	300	350	250	350	360	250	300	500
Height	H	mm	150	150	150	150	150	160	177	177
	h	mm	95	95	105	105	105	118	135	135
Dismantling height	g	mm	270	270	270	270	270	280	356	356

## Weight PN16

Nominal diameter	DN	40	50	50	50	65	65	80	80	
Overall length	L	mm	220	200	270	300	200	300	200	225
Meter cpl.		kg	7.5	7.8	9.6	9.9	10.1	12.0	13.8	14.2
Measuring unit		kg	1.5	1.5	1.5	1.5	1.5	1.5	3.2	3.2
Body		kg	6.0	6.3	8.1	8.4	8.6	10.5	10.6	11.0

Nominal diameter	DN	80	80	100	100	100	125	150	150	
Overall length	L	mm	300	350	250	350	360	250	300	500
Meter cpl.		kg	16.3	17.7	18.2	20.0	20.2	20.7	35.9	44.2
Measuring unit		kg	3.2	3.2	3.2	3.2	3.2	3.2	5.9	5.9
Body		kg	13.1	14.5	15.0	16.8	17.0	17.5	30.0	38.3

## Weight PN40

Nominal diameter	DN	50	50	65	80	80	100	100	150	150	
Overall length	L	mm	200	270	300	225	300	250	360	300	500
Meter cpl.		kg	9.7	10.7	13.1	17	18.6	20.4	22.9	44.6	500
Measuring unit		kg	1.7	1.7	1.7	4	4	4	4	9.3	52.9
Body		kg	8	9	11.4	14.6	14.6	16.4	18.9	35.3	43.6

## Order example

_____	Type
_____	Size
_____	Max. medium temperature
_____	Nominal pressure
<b>MeiStream, DN 50, T50, PN16</b>	
Drilling EN 1092 PN16 _____	Drilling pattern
Length 270 mm _____	Body length
mechanical register / m <sup>3</sup> _____	Register type / unit
with MID conformity _____	Approval standard



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