

MeiStream Plus

Class C Bulkmeter for cold potable water DN 40...150 PN 16



Applications

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

Environmental conditions

- According to ISO 4064-1:2017
- Environmental class O acc. to OIML R49-1:2013
- Environmental temperature: 5 °C ... 70 °C
- Mechanical environmental conditions: class M2

Materials

Body	Cast iron
Metrological module	Engineering polymer
Rotor	Engineering polymer
We also use the following materials	Brass Stainless steel

Main characteristics

- Meter with MID pattern approval acc. to annex MI001
- Exchangeable metrological unit with MID pattern approval acc. to annex MI001
- Unique measuring range; $Q_3/Q_1 \geq 315$ in horizontal installation
- High overload capability
- No straight inlet length necessary (U0D0 acc. to OIML R49:2013 and ISO 4064-1:2017)
- Meter body in short (WP) and long (WS) overall length acc. to DIN 19625 and ISO 4064-1:2017 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

Available options

- With encoder register for direct meter readout via data protocol (M-Bus, MiniBus, Sensus, IEC 1107)
- HRI-Mei factory mounted
- Version for use in hazardous area
- ¼" pressure monitoring port

Approval mark

Meter cpl. and exchangeable metrological module

Marking CE M-XX* 0102

DE-09-MI001-PTB 012

* year of production

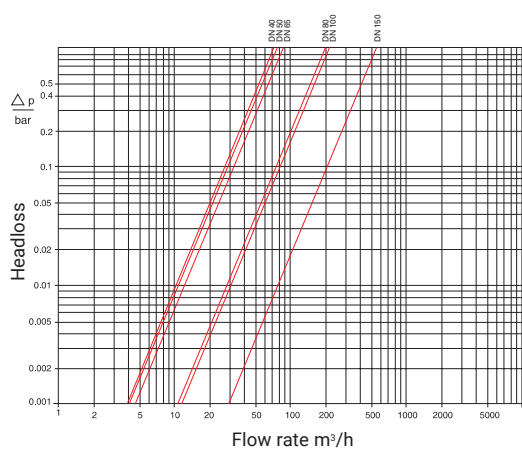
Metrological data acc. to manufacturers values

Size	DN	40	50	65	80	100	150
Q_5 Max. peak flow	m ³ /h	50	55	60	120	160	400
Q_3' Continuous flow	m ³ /h	30	35	40	63	100	250
Q_2 Transitional flow rate horizontal acc. to MID	m ³ /h	0.13	0.13	0.16	0.25	0.4	0.63
Q_1' Minimum flow horizontal	m ³ /h	0.08	0.07	0.1	0.13	0.2	0.35
Starting flow	m ³ /h	0.03	0.03	0.035	0.04	0.065	0.12

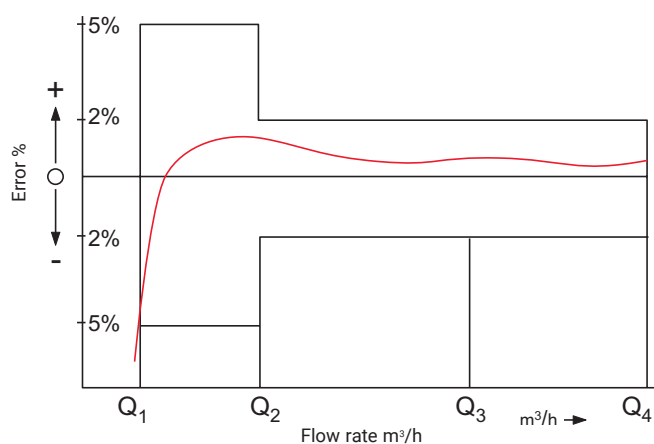
Metrological data acc. to 2014/32/EU (MID)

Size	DN	40	50	65	80	100	150
Q_4 Overload flow rate acc. to MID	m ³ /h	31.25	31.25	50	78.75	125	312.5
Q_3 Permanent flow rate acc. to MID	m ³ /h	25	25	40	63	100	250
Q_2 Transitional flow rate horizontal acc. to MID	m ³ /h	0.13	0.13	0.16	0.25	0.4	0.63
Q_1 Minimum flow rate horizontal acc. to MID	m ³ /h	0.08	0.08	0.1	0.16	0.25	0.4
Q_3/Q_1 max. Ratio		315	315	400	400	400	630
Q_3/Q_1 Standard marking		315	315	315	315	315	315
Δp Headloss at Q_3 acc. to ISO 4064-1:2017	bar	0.09	0.08	0.17	0.07	0.16	0.14

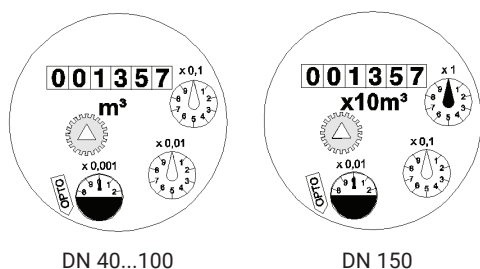
Typical headloss curve



Typical error curve



Dial

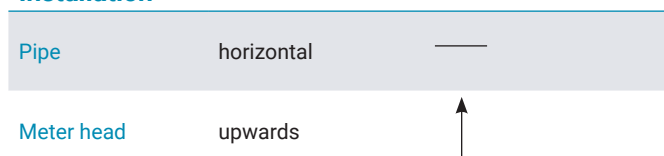


DN 40...100

DN 150

Nominal diameter DN	Smallest reading m ³	Max. reading m ³
40 ... 100	0.0005	999,999.999
150	0.005	9,999,999.99

Installation



Pulse values

Pulser Type	Pulse Value DN 40 ... 100	Pulse Value DN 150
HRI-Mei	0.01; 0.05; 0.1 or 1 m³	0.1; 0.5; 1 or 10 m³
OD 01	0.001 m³	0.01 m³
OD 03	0.01 m³	0.1 m³

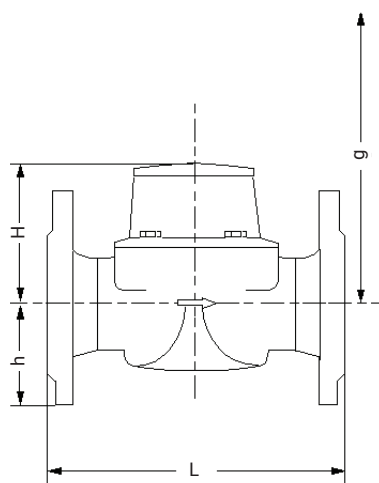
Installation requirements

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

Dimensions and weight

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
Height to pipe axis	h	mm	69	73	73	73	85	85	95	95
Width	B	mm	166	166	166	166	186	186	201	201
Dismantling height	g	mm	200	200	200	200	200	200	270	270
Meter complete		kg	8.0	8.5	9.6	9.9	10.1	12.0	12.4	14.2
Metrological module		kg	1.5	1.5	1.5	1.5	1.5	1.5	3.2	3.2
Body		kg	6.5	7.0	8.1	8.4	8.6	10.5	9.2	11.0
Nominal diameter		DN	80	80	100	100	100	150	150	
Overall length	L	mm	300	350	250	350	360	300	500	
Height	H	mm	150	150	150	150	150	177	177	
Height to pipe axis	h	mm	95	95	105	105	105	135	135	
Width	B	mm	201	201	220	220	220	285	285	
Dismantling height	g	mm	270	270	270	270	270	356	356	
Meter complete		kg	16.3	17.7	17.0	20.0	20.2	35.9	44.2	
Metrological module		kg	3.2	3.2	3.2	3.2	3.2	5.9	5.9	
Body		kg	13.1	14.5	13.8	16.8	17.0	30.0	38.3	

Dimension picture



Order example

Type
 Size
 Maximum medium temperature
 Nominal pressure
MeiStream Plus, DN 50, T50, PN16
 Drilling EN 1092 PN16 — Drilling pattern
 Length 270 mm — Body length
 mechanical register / m³ — Register type / unit
 with MID conformity — Approval standard

