

MeiTwin

with MID approval

Compound Water Meter
for cold water up to 50 °C
DN 50, DN 65, DN 80, DN 100



Main characteristics

The main meter and the by-pass meter are arranged one behind the other in the direction of flow.

There is no longer any need for the differentiation between the "by-pass meter on the right" and "by-pass meter on the left".

No straight upstream or downstream pipe necessary due to integrated flow straightener (UOD0).

Removable metrological unit consisting of the main meter, the change-over valve and the by-pass meter ("3 in 1" concept).

A multirange metrological unit allows an easy economical replacement after the validity period of the calibration has expired.

Main meter with hydrodynamic balanced rotor.

Spring-loaded change-over valve with low headloss and extended lifetime.

By-pass meter specified as a piston meter cartridge 612MTW-HRI with plug-in non-return valve, register copper/glass, protection class IP68.

Minimum flowrate: 6 l/hour for piston type by-pass meter.

Available in body lengths specified as per DIN 19625 and ISO 4064.

Applications

Measurement of high flow rates with extremely wide spread flow profile

Measurement of very small flow rates for leakage detection

Ideal for fire service pipes



MeiTwin with 612MTW-ER56



MeiTwin with 612MTW

Pattern Approval

Marking CE M-XX* 0102
 SK 11-MI001-SMU020
 *Year of production

Installation



The meter does not require any upstream or downstream straight length

Technical data

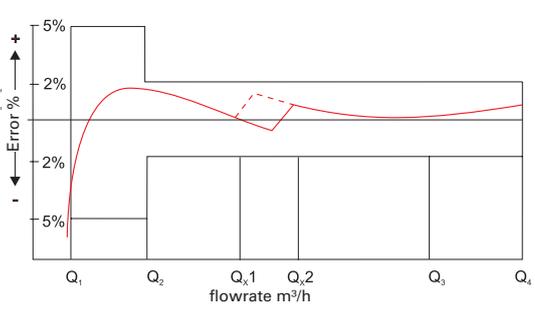
Performance Table acc. to Manufacturers Values

Size	DN	[mm]	50	65	80	100
Maximum Working Pressure	PN	[bar]	16			
Maximum Peak Flow	Q_s	[m ³ /h]	90	120	200	280
Continuous Flow	$Q_{3'}$	[m ³ /h]	50	70	120	180
Changeover Flowrate at Increasing Flow	Q_{x2}	[m ³ /h]	2.0 - 2.6			
Changeover Flowrate at Decreasing Flow	Q_{x1}	[m ³ /h]	1.1 - 1.7			
Transitional Flowrate	Q_2	[m ³ /h]	0.012			
Minimum Flowrate	$Q_{1'}$	[m ³ /h]	0.006			

Performance Table acc. to MID Pattern Approval

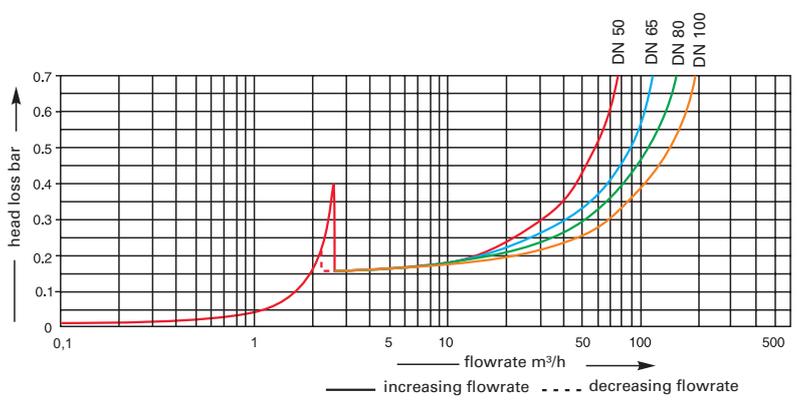
Size	DN	[mm]	50	65	80	100
Maximum Working Pressure	PN	[bar]	16			
Maximum Peak Flow	Q_4	[m ³ /h]	31.25	50	78.75	125
Continuous Flow	Q_3	[m ³ /h]	25	40	63	100
Changeover Flowrate at Increasing Flow	Q_{x2}	[m ³ /h]	2.0 - 2.6			
Changeover Flowrate at Decreasing Flow	Q_{x1}	[m ³ /h]	1.1 - 1.7			
Transitional Flowrate	Q_2	[m ³ /h]	0.025			
Minimum Flowrate	Q_1	[m ³ /h]	0.016			
Ratio	Q_3/Q_1		1600	2500	4000	6300

Typical Accuracy Curve

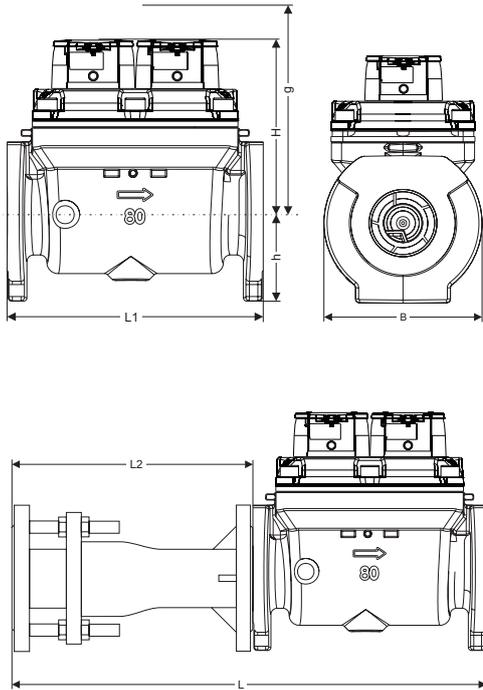


- Q_1 minimum flow $\pm 5\%$
- Q_2 transitional flow $\pm 2\%$
- Q_3 continuous flow $\pm 2\%$
- Q_4 maximum peak flow $\pm 2\%$

Typical Head Loss Curve



Dimension Picture



Dimensions and Weights

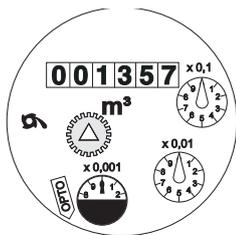
Nominal Diameter	mm	50	65	80	100	
Overall length	L1	mm	270		300	360
	L1	mm	300	300	350	350
Height	H	mm	250			
	h	mm	80	92.5	100	100
Dismantling height	g	mm	505			
Length	L2	mm	330±40		400±60	440±60
	L*	mm	600±40		700±60	800±60
Width	mm	185	185	210	220	
Weight	meter	kg	23.0	24.6	26.1	31.0
	measuring unit	kg	7			
	spool piece	kg	10.5		16.5	20.5

* for MeiTwin with body length according to DIN 19625

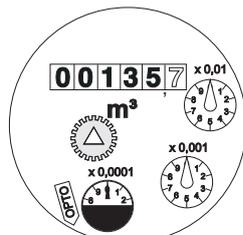
Materials

Body	main meter	cast iron
	by-pass meter	brass
Measuring element	both meters	plastic
Rotor	both meters	plastic
Spring loaded valve		plastic and stainless steel

Dials



Main meter



By-pass meter
(type 612MTW-HRI)

By-pass Meters

Standard By-pass meter

Piston meter cartridge dry dial type 612MTW-HRI Q₃ 4



By-pass meter
(type 612MTW-HRI)



By-pass meter
(type 612MTW-ER56)



By-pass meter
(type 612MTW)

Options

Optional by-pass meter:

- 612MTW-ER56, piston type meter with Encoder register, protection class IP68
- 612MTW, piston type meter with plastic register casing, protection class IP65

Main and by-pass meters fitted with pulse and data interface HRI-Mei and/or pulsers type OD (with by-pass meter 612MTW-HRI)

Main and by-pass meters equipped with Encoder register ER56 for direct meter reading via data protocol (M-Bus, Sensus, IEC 1107)

Spool piece for extension of meter casing as per DIN 19625

Port for 1/4" pressure sensor

Pulse values

Main meter (standard register)	HRI-Mei	0.01 m ³ , 0.1 m ³ and 1 m ³
	OD 01	0.001 m ³
	OD 03	0.01 m ³
Main meter (Encoder register)	HRI	0.1 m ³ or 1 m ³
By-pass meter (type 612MTW-HRI) (Standard)	HRI-Mei	0.001 m ³ ; 0.01 m ³ and 0.1 m ³
	OD 01	0.0001 m ³
	OD 03	0.001 m ³
By-pass meter (type 612 MTW-ER56)	HRI	0.001 m ³ ; 0.01 m ³ ; 0.1 m ³ or 1m ³
By-pass meter (type 612 MTW)	HRI	0.001 m ³ ; 0.01 m ³ ; 0.1 m ³ or 1 m ³

Available design

Size	DN	50	65	80	100
Nominal size	Q ₃	25	40	63	100
		Overall length as per DIN 19625			
Overall length	mm	270		300	360
		Overall length as per ISO 4064			
Overall length	mm	300	300	350	350

Accessories

Spool pieces for extension of meter casing as per DIN 19625					
Size	DN	50	65	80	100
Overall length	mm	330±40		400±60	440+60

Order example

MeiTwin, DN 50, T30/16	Type
Drilled to EN 1092 PN 16	Size
Type 612MTW-HRI by-pass meter Q ₃ 4	Temperature
Overall length 270 mm	Pressure
With MID conformity	Flange drilling
With spool piece	By-pass meter
DN 50	Overall length
	Type of approval
	Fittings
	Nominal width



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Certified according to ISO 9001
Quality Management System Quality Austria Reg.no. 3496/0

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