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 downsream pipe necessary due to integrated flow straightener (U0D0).

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 with plug-in non-return valve, protection

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



Pattern Approval

CE M-XX* 0102 Marking

SK 11-MI001-SMU020

*Year of production

Installation

Pipe	horizontal vertical	<u> </u>
Meter Head	upwards sideways	

The meter does not require any upstream or downstream straight length

Technical data

Performance Table acc. to Manufacturers Values

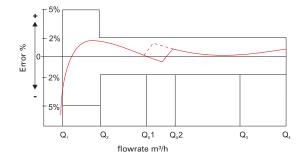
Size	DN	[mm]	50	65	80	100
Maximum Working Pressure		[bar]	16			
Maximum Peak Flow	O _s	[m³/h]	90 120 200 28		280	
Continuous Flow		[m³/h]	50	70	120	180
Changeover Flowrate at Increasing Flow	O _{x2}	[m³/h]	2.0 - 2.6			
Changeover Flowrate at Decreasing Flow	O _{x1}	[m³/h]	1.1 - 1.7			
Transitional Flowrate	02	[m³/h]	[m³/h] 0.012			
Minimum Flowrate		[m³/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	O ₄	[m³/h]	31.25 50 78.75 125			125
Continuous Flow	O ₃	[m³/h]	25 40 63 100			100
Changeover Flowrate at Increasing Flow	O _{x2}	[m³/h]	2.0 - 2.6			
Changeover Flowrate at Decreasing Flow	O _{x1}	[m³/h]	1.1 - 1.7			
Transitional Flowrate	O ₂	[m³/h]	0.025			
Minimum Flowrate	Q ₁	[m³/h]	0.016			
Ratio	Q ₃ /Q ₁		1600 2500 4000 6			6300

Typical Accuracy Curve

Typical Head Loss Curve

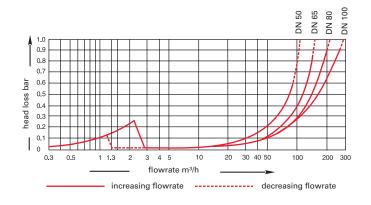




 Q_2 transitional flow ±2%

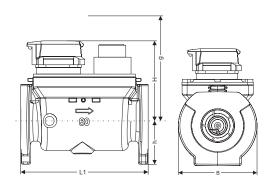
 O_3 continuous flow ±2%

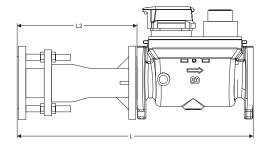
maximum peak flow ±2%





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
Dismantling	Н	mm		2!	50	
height	h	mm	80	92,5	100	100
	g	mm		50	05	
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 DIN 19625

Materials

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

Dials



Main meter



By-pass meter (type 612MTW)

By-pass Meters

Standard By-pass meter

Piston meter cartridge dry dial type 612MTW Q₃ 4



By-pass meter (type 612MTW)



By-pass meter (type 612MTW-ER56)



By-pass meter (type 612MTW-HRI)

Options

Pulse values

Optional by-pass meter:

- 612MTW-HRI, piston type meter with copper/ glass register, protection class IP68
- 612MTW-ER56, piston type meter with Encoder register, protection class IP68

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, MiniBus, Sensus, IEC 1107)

Spool piece for extension of meter casing as per DIN 19625

Port for 1/4" pressure sensor

Main meter	HRI-Mei	0.01 m ³ , 0.1 m ³ and 1 m ³
(standard register)	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 612 MTW)	HRI	0.001 m ³ ; 0.01 m ³ ; 0.1 m ³ or 1 m ³
By-pass meter	HRI-Mei	0.001 m ³ ; 0.01 m ³ and 0.1 m ³
(type 612MTW-HRI)	OD 01	0.0001 m ³
	OD 03	0.001 m ³
By-pass meter (type 612 MTW-ER56)	HRI	0.001 m³; 0.01 m³; 0.1 m³ or 1m³

Available design

Size	DN	50	65	80	100		
Nominal size	O 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







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