MeiTwin

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".

Removable measuring element consisting of the main meter, the change-over valve and the bypass meter ("3 in 1" concept)

A multirange measuring element (compatible for DN 50, 80 or 100) allows an easy economical replacement after the calibrated validity period has expired.

Main meter with hydrodynamic balanced rotor

Spring-loaded change-over valve with low headloss

By-pass meter specified as a velocity or piston meter cartridge with plug-in non-return valve

Minimum flowrate (Qmin): 6 l/hour for piston type by-pass meter

Available in body lengths specified as per DIN 19625 and ISO 7858

Applications

Measurement of high flow rates with extremely wide spread flow profile

Measurement of smallest flow rates for leakage detection

Ideal for fire service pipes

Available Options

Main and by-pass meters fitted with pulsers (reed, optical)

Main and by-pass meters equipped with electronic registers (Encoder, Hybrid)

Spool piece for extension of meter casing as per DIN 19625

Preparation for quarter inch pressure sensor

Change-over valve with non-return valve function up to PN 10 as per DIN 3269 $\,$



Pattern Approval

Installation

6.152 01.16 Metrological Class B

Pipe	horizontal vertical	
Meter Head	upwards sideways	

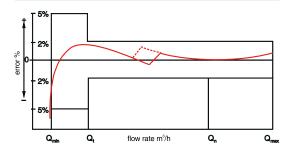
Technical Data

Nominal Diameter	DIN	l mm	50	65	80	100
Size of meter (EEC)	Q _n	Q _n		25	40	60
Working pressure	PN	bar				
Maximum peak flow (1 x 24 hours)	Q _{ma}	ıx m³/h	90	120	200	280
Continuous flow	Q _n	m³/h	50	70	120	180
By-pass meter	<u>u</u> n			2.5		
Transitional flow ±2%*	Qt	m³/h	0.0375			
Change over with increasing flow m³/h				2.	3	
decreasing flow		m³/h	1.2			
	Ω _m	in m³/h	type 612 = 0.006			06

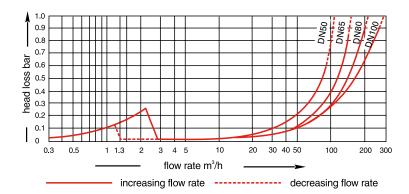
Pulse Values

Main meter	RD 01	0.1 m³ and 1 m³
	OD 01	0.001 m³
		0.01 m³
By-pass meter (type 612)	HRI	0.001 m³, 0.01 m³, 0.1 m³ or 1 m³
By-pass meter	OD 01	0.1 Ltr.
RPD	OD 03	1 Ltr.
NFD	RD 01	0.01 m³ and 0.1 m³

Typical Accuracy Curve

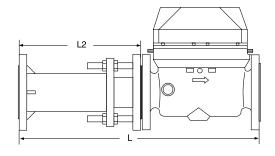


 $egin{array}{lll} O_{max} &=& maximum peak flow \\ O_n &=& continuous flow \\ O_t &=& transitional flow \pm 2\% \\ O_{min} &=& minimum flow \pm 5\% \\ \end{array}$





Dimension Picture



Dimensions and Weights

Nomina	al Diameter	mm	50	65	80	100
	Size of meter (EEC) Qn			25	40	60
Overall	length					
	L1	mm	270		300	360
	L1	mm	300	300	350	350
Height	Н	mm		22	20	
	h	mm	80	92.5	100	100
	g	mm		47	75	
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		
Measurin	g element both meters	plastic		
Rotor	both meters	plastic		
Spring lo	aded valve	plastic and stainless steel		

Dials



Main meter



By-pass meter cartridge (Type 612)

By-pass Meters

Standard By-pass meter

Piston meter cartridge dry dial

Options:

Piston meter cartridge dry dial with Standard register with Encoder register

with Hybrid register

type RPD QN 2,5 Standard type RPD QN 2,5 Encoder type RPD QN 2,5 Hybrid

type 612 QN 2,5

other by-pass meters on request



By-pass meter cartridge (type 612)



By-pass meter cartridge (type RPD QN 2,5)

Available design

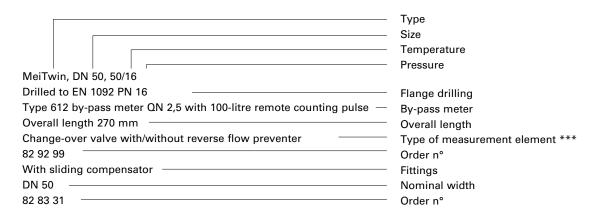
Size	DN	50	65	80	100		
Nominal size	Qn	15	25	40	60		
		Overall length as per DIN 19625					
Overall length	(mm)	270		300	360		
Order n°		82 92 99		82 93 00	82 93 01		
		Overall length as per ISO 4064					
Overall length	(mm)	300	300	350	350		
Order n°		82 93 74	82 93 75	82 93 76	82 93 77		
Measuring		82 93 18 *	82 93 02 **	82 93 18 *	82 93 18 *		
unit							

^{*} Multi-range measuring unit, compatible for DN 50, 80 & 100 in DIN and ISO lengths

^{**} Essential to mention DN 65 in your order

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 n°		82 83 31		82 83 33	82 83 36	

Order example



^{***} Please state as appropriate.

If the MeiTwin is ordered with a RPD type by-pass meter, it is supplied with a head assembly covering both, main and by-pass meter register.



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



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