

Счетчики воды комбинированные WPVM

Технические характеристики

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WPVM

Compound water meter with cartridge meter as secondary meter for use in drinking water distribution and industrial applications

The WPVM was designed to record fluctuating flows, for use in drinking water distribution and industrial applications. The main meter is based on the proven Woltman parallel technology. As a secondary meter a multi-jet wet dial meter is used, with which even small flows can be reliably recorded.

All the materials used in the drinking water sector correspond to the required standards, directives and current Drinking Water Ordinance (German environmental ministry recommendation of hygienically suitable metal materials for drinking water, KTW guidelines and DVGW worksheet W270).



Performance characteristics at a glance

- Compound water meter with multi-jet wet dial meter as secondary meter
- Nominal sizes DN50 to DN100
- Exchangeable MID-compliant metrological unit (comprising main meter, secondary meter and changeover valve)
- Highest precision and reliability even in case of low flow rates
- Main and secondary meters optimally equipped for remote readout
- No straight inlet or outlet needed (U0/D0) according to OIML R49 and DIN EN ISO 4064
- Approved for horizontal and vertical installation position
- Fully submersible - protection class IP68 (main and secondary meters)
- Operating pressure MAP 16
- Approved in accordance with MID

Applications

- For measurement of high and low flowrates
- For the consumption measurement of cold and unpolluted drinking water or service water up to 50 °C

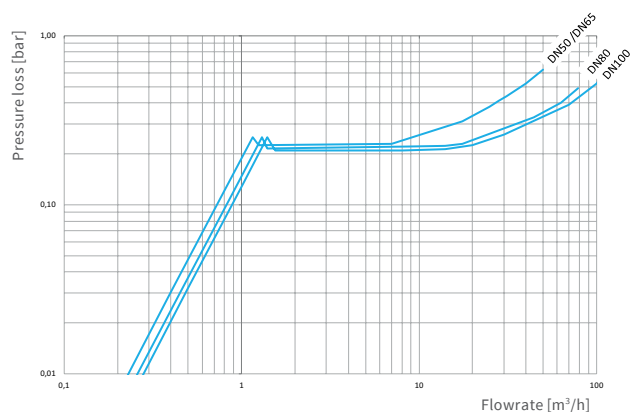
AMR options

- Can be combined with stationary GSM system
- Main meter as standard with communication interface for EDC modules (Electronic Data Capture):
 - EDC LPWAN radio module (868 MHz) for LoRaWAN®
 - EDC wireless M-Bus radio module (868 MHz)
 - EDC combined M-Bus and pulse module
- Secondary meter as standard with communication interface for PDC modules (Pulse Data Capture):
 - PDC LPWAN radio module for LoRaWAN®
 - PDC wireless M-Bus radio module (868 MHz)

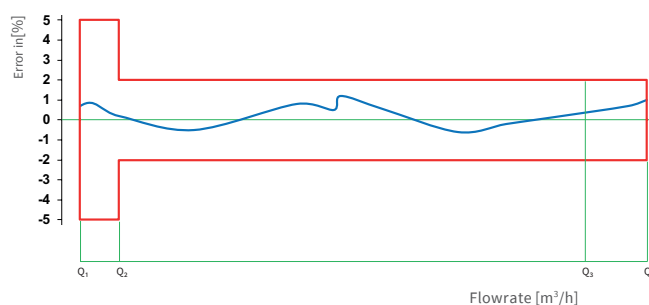
Technical data						
Nominal diameter	DN	mm	50	65	80	100
Permanent flowrate (main meter)	Q_3	m ³ /h	25	40	63	100
Permanent flowrate (secondary meter)	Q_3	m ³ /h	4	4	4	4
Attainable measuring range	Q_3/Q_1	R	500 H/250 V	800 H/400 V	1250 H/630 V	2000 H/1000 V
Standard measuring range	Q_3/Q_1	R	500 H/250 V	800 H/400 V	1250 H/630 V	2000 H/1000 V
Overload flowrate	Q_4	m ³ /h	31.25	50	78.75	125
Brief max. overload flowrate (max. 10 minutes)	Q_{4M}	m ³ /h	39	62	98	156
Minimum flowrate ¹	Q_1	m ³ /h	0.05 H/0.100 V	0.05 H/0.100 V	0.05 H/0.100 V	0.05 H/0.100 V
Transitional flowrate ¹	Q_2	m ³ /h	0.08 H/0.160 V	0.08 H/0.160 V	0.08 H/0.160 V	0.08 H/0.160 V
Switching flow (increasing)	Q_{x2}	m ³ /h	1.3 - 1.6	1.3 - 1.6	1.4 - 1.7	1.5 - 1.7
Switching flow (decreasing)	Q_{x1}	m ³ /h	0.7 - 1.0	0.7 - 1.0	0.9 - 1.3	0.9 - 1.3
Start-up flow rate	-	l/h	< 5	< 5	< 5	< 5
Display range (main meter)	min.	l	0.5	0.5	0.5	0.5
	max.	m ³	999,999	999,999	999,999	999,999
Display range (secondary meter)	min.	l	0.1	0.1	0.1	0.1
	max.	m ³	99,999	99,999	99,999	99,999
Temperature range	-	°C	0.1 - 50	0.1 - 50	0.1 - 50	0.1 - 50
Operating pressure, max.	MAP	bar	16	16	16	16
Operating pressure, min.	-	bar	0.5	0.5	0.5	0.5
Pulse value main meter (modulator disc)	-	l/pulse	10	10	10	10
Pulse value secondary meter (reed)	-	l/pulse	10	10	10	10
Pressure loss class at Q_3	Δp	bar	0.40	0.63	0.63	0.63
Mechanical environmental condition	-	-	M1	M1	M1	M1
Climatic condition ²	-	°C	5 - 55	5 - 55	5 - 55	5 - 55
Flow profile sensitivity	-	-	U0/D0	U0/D0	U0/D0	U0/D0

¹ The data refers to the standard measuring range, other measuring ranges on request

² Condensation possible



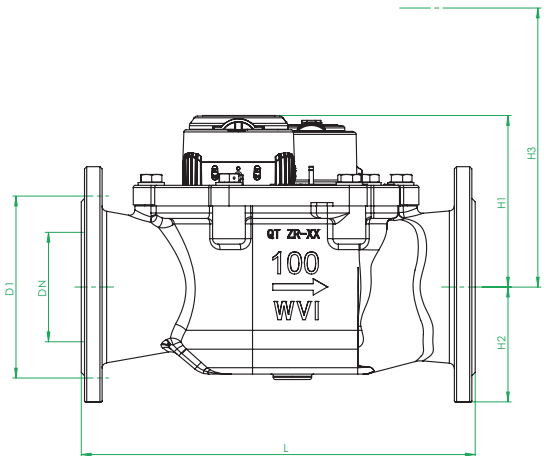
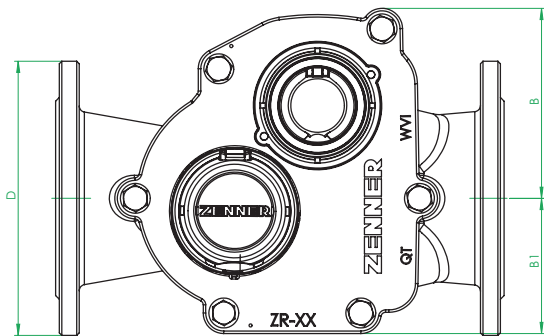
Pressure loss curve



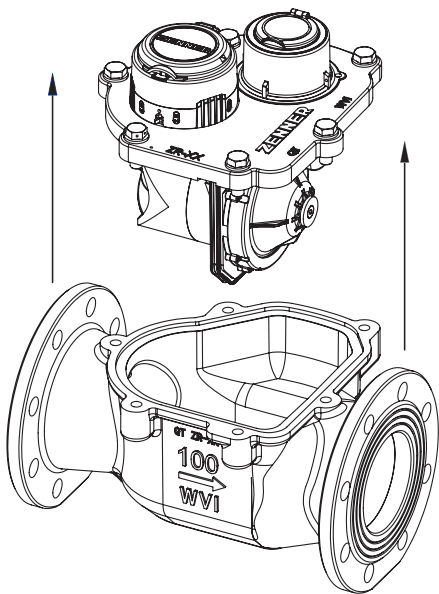
Typical error curve

Dimensions and weights:						
Nominal diameter	DN	mm	50	65	80	100
Overall length	L	mm	270	300	300	360
Height	H1	mm	163	163	163	163
Height	H2	mm	87.5	85	95	105
Total height approx. ¹	H1+H2	mm	250.5	248	258	268
Installation height of the measuring unit	H3	mm	313	313	313	313
Width	B	mm	152.5	152.5	152.5	152.5
Width	B1	mm	108.5	108.5	108.5	108.5
Flange diameter	D	mm	165	185	200	220
Bolt circle diameter	D1	mm	125	145	160	180
Number of bolts	-	pcs.	4	4	8	8
Bolt size	-	mm	M16	M16	M16	M16
Bolt diameter	-	mm	19	19	19	19
Weight approx.	-	kg	19.8	20.8	21.8	25.8

¹ Overall height WPVME + 20 mm
² Flanges according to ISO 7005-2. Other flanges on request
Attention: not all versions are available in all markets



Dimensions



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