



EnergyMetering

WPVP-N

Woltman compound meters

Bulk water meters with an enhanced measuring range for fluctuating flow rates



ZENNER
All that counts.



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Woltman compound meters

Compound meters were conceived for measuring of fluctuating flow rates and for applications which need an enhanced measuring range. For example, in the case of a fire, a very high flow rate must be measured at a hydrant tap connection where under normal circumstances a domestic meter would be sufficient. In this operation case the spring loaded valve opens and the main meter also measures the volume flowing through.

Typical installation points are schools, homes, office buildings, or supply lines of smaller residential areas, where the flow rate must be exactly measured during the night.

Our compound meters are characterized by a high measuring accuracy in the commutation range and the low pressure loss during maximum load. They are simple in design, stable during use and have a relatively low weight. The counter of the main meter is designed as a dry dial meter. The secondary meter, which is usually arranged to the right, is as a standard a wet dial meter. A variation with the secondary meter arranged to the left, or with other secondary meter types, is available upon request.

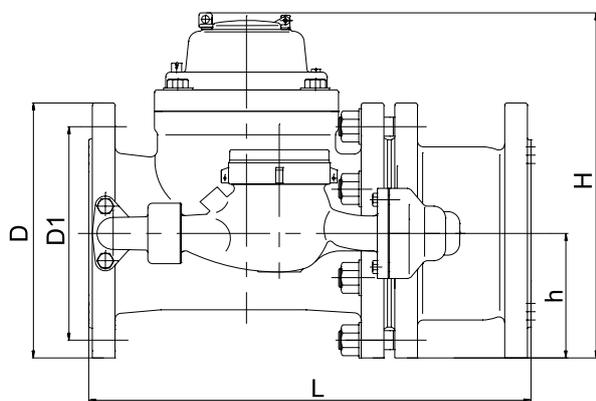
Reed sensor, optical and inductive-NAMUR sensors on the counter can always be retrofitted without damaging the calibration seal.

The secondary meter is supplied in retrofittable version as a standard and can be easily retrofitted with a reed sensor.

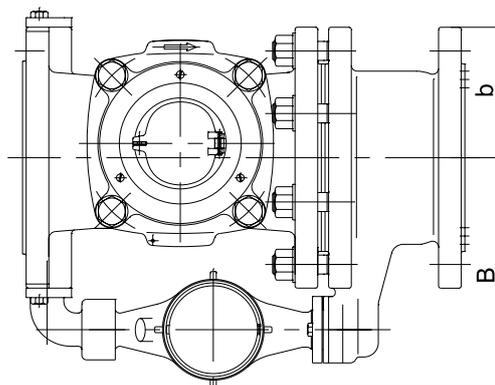
Performance characteristics in overview

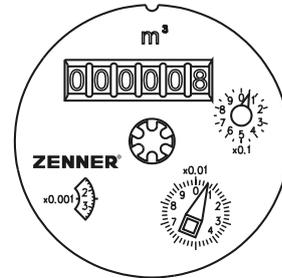
- Extremely wide measuring range
- For cold water up to 30°C
- Evacuated counter protects against condensation
- Low starting flow and high measuring accuracy
- Flanges according to DIN 2501, PN 10
- Secondary meters arranged to the right, upon request to the left
- Main meter WPH-D
- For horizontal installation position

Technical data WPVP-N						
Nominal diameter	DN	mm	50	80	100	
Nominal flow	Q ₃	m ³ /h	40	63	100	
Overload flow	Q ₄	m ³ /h	50	78	125	
Transitional flow	Q ₂	l/h	80	80	80	
Minimum flow	Q ₁	l/h	50	50	50	
Commutation flow	increasing	Qx2	m ³ /h	2	2,5	3
	decreasing	Qx1	m ³ /h	1	1,5	2,2
Display range	min	l		0,5		
	max	m ³		999.999	+ 99.999	
Overall length	L	mm	270	300	360	
Height	H	mm	220	250	260	
	h	mm	78	90	100	
Width	B	mm	147	190	200	
	b	mm	82,5	100	110	
Flange diameter	D	mm	165	200	220	
Number of bolts / Bolt diameters		pcs. /-mm	4- \uparrow 19	8- \uparrow 19	8- \uparrow 19	
Bolt circle diameter	D1	mm	125	160	180	
Weight		kg	19	30	34	

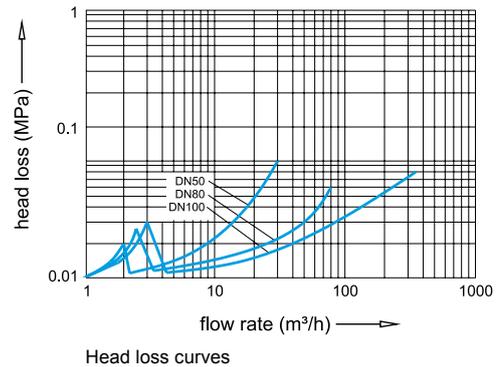
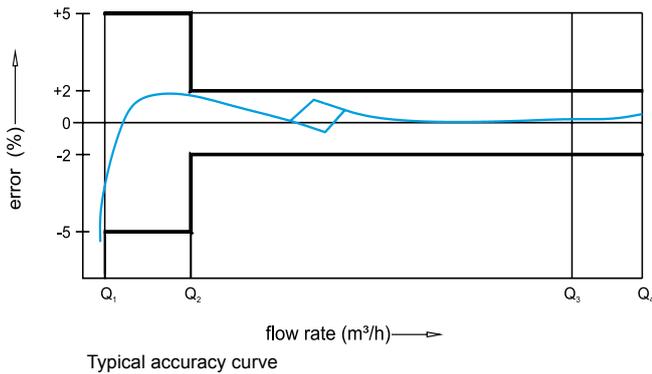


Dimensions WPVP-N





Main meter counter from DN 50 to DN 100



Technical data - main meter pulsers*

Pulsers	Pulse value
	DN 50 – 100
Reed sensors	0,1 and 1 m³
Optical sensors	0,001 m³
Inductive-NAMUR sensors	0,001 m³

* the pulse value of the secondary meter depends on the type of secondary meter used

ZENNER International GmbH & Co. KG

Römerstadt 4
D-66121 Saarbrücken

Telephone +49 6 81 99 676-30
Telefax +49 6 81 99 676-3100

E-Mail info@zenner.com
Internet www.zenner.com