WPDK

Woltman meter
for cold water up to 50°C
DN 50, 65, 80, 100, 125, 150, 200, 250, 300

Our strength: Your benefit

- Robust, high grade wear resistant materials:
  Excellent measuring stability and reliability
- Removable measuring insert:
  Retrofittability and replaceability guaranteed

Application

- Measurement of high, relatively constant flow rates, e.g.:
  - Downstream of pumps or at transfer points
  - Reservoir inflows and outflows
  - Industrial processes

Features

- Universal installation position
- Straight flow section 3xDN
- Register can be turned through 355°
- Maximum operating pressure PN16 bar
- Temperature up to 50°C
- Rotor is hydrodynamically balanced
- Powder coating provides optimum corrosion protection
- SVGW certification
- Flood proof standard pulser register (IP68) with ports for two Reed-RD-Pulsers and one Opto-OD-Pulser

Options

- Flood proof GWFcoder® register (IP68) with IEC interface, 5m cable and one port for Opto-OD-Pulser
- Non-ferrous metal design
  🗀 **Documentation: WPDK BMF - EPe10216**
- High-resolution pulse generator Reed RD
  🗀 **Documentation: Reed-RD-Pulser - EPe10206**
- High-resolution pulse generator Opto OD
  🗀 **Documentation: Opto-OD-Pulser - EPe10205**

Technical Data

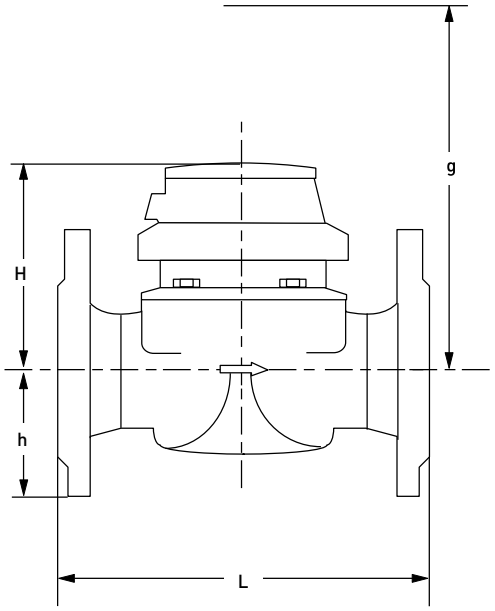
Nominal diameter	**DN**	**mm**	**50**	**65**	**80**	**100**	**125**	**150**	**200**	**250**	**300**
Operating pressure	**PN**	**bar**	**16**	**16**	**16**	**16**	**16**	**16**	**16**	**16**	**16**
Nominal flow rate	**Q_n**	**m^3/h**	**50**	**70**	**120**	**230**	**250**	**450**	**800**	**1250**	**1400**
Overload flow rate (1x24h)	Q_{max}	m^3/h	90	120	200	300	350	600	1200	1600	2000
Transitional flow rate ±2%	Q_t	m^3/h	0,7	0,8	0,8	1,8	2	4	6	11	15
Minimum flow rate ±5%	Q_{min}	m^3/h	0,3	0,4	0,5	0,8	1	1,8	4	6	12
Temperature		max. °C	50	50	50	50	50	50	50	50	50

Dimensions and weights											
Length	**L**	**mm**	**200**	**200**	**225**	**250**	**250**	**300**	**350**	**450**	**500**
Height	H	mm	120	120	150	150	160	177	206	231	256
Height	h	mm	73	85	95	105	118	135	162	194	226
Dismantling height of measuring unit	g	mm	200	200	270	270	280	356	441	446	491
Meter weight		app. kg	7,7	10	14	18	20,5	35,5	50,5	72,3	99,3
Measuring unit weight		app. kg	1,4	1,4	3	3	3	5,5	7,5	7,5	7,5
Body weight		app. kg	6,3	8,6	11	15	17,5	30	43	63,8	91,8

EEC approval											
Nominal flow rate	Q_n	m^3/h	15	25	40	60	100	300	500	800	1200
Temperature		max. °C	30	30	30	30	30	30	30	30	30
Metrological class			B	B	B	B	B	B	B	B	B

CH-SVGW certification				
SVGW / SSIGE certificate No. 8411-1586	DN 50, 65, 80, 100, 125, 150, 200, 250, 300	PN: 16	t_{max}: 30°C	Metrological class A, B

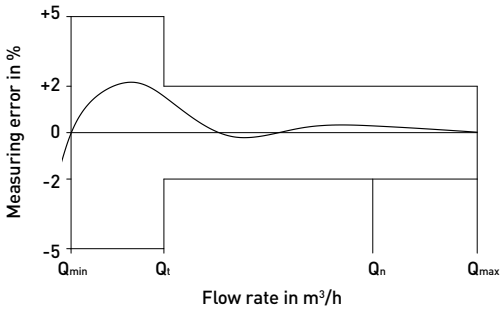
Dimension Diagram



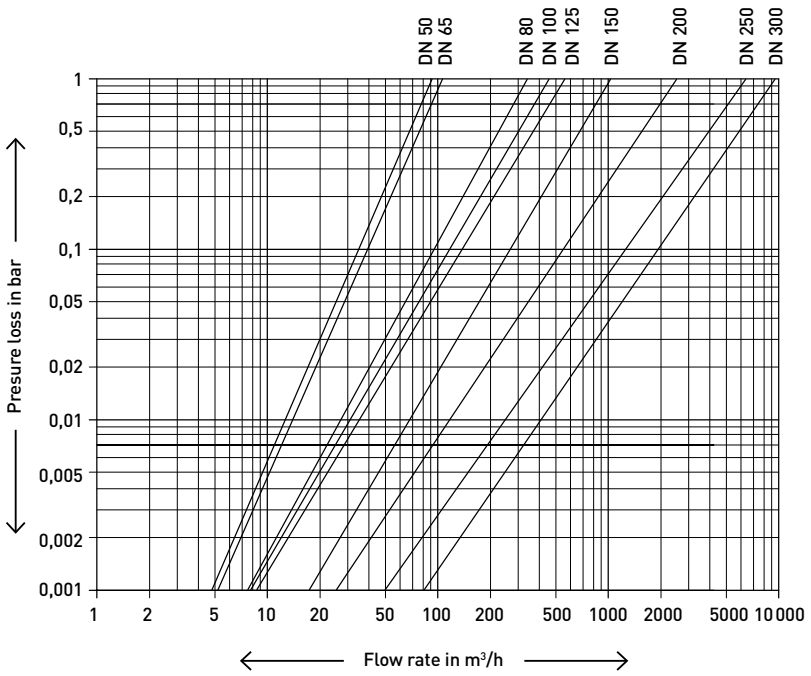
Materials

Body:	Cast iron
Measuring unit:	Plastic
Rotor:	Plastic
Other materials:	Brass / non-rusting steel

Measuring error curve



Typical Head Loss Curve



Commission

When commissioning the meter the measuring section must be filled slowly (bleed slowly).

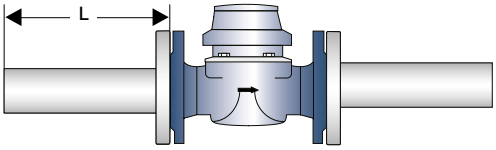
Installation

Pipeline: horizontal —
vertical |
diagonal /

Meter head: upwards
sideways

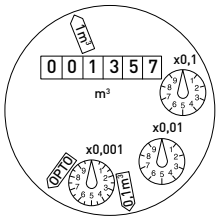
Installation requirements

3xDN (L) straight pipe upstream of the meter. No abrupt restrictions directly downstream of the meter.

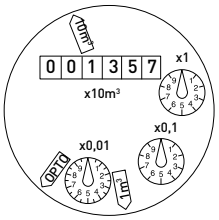


Dial

DN 50 – DN 125



DN 150 – DN 300



Nominal diameter	DN	50 – 125	150 – 300
Smallest reading	m³	0,0005	0,005
Maximum register reading	m³	1'000'000	10'000'000

Pulse values Reed-RD-Pulser

Meter sizes		DN 50...125 1 Pulse = ...Liter	DN 150... 300 1 Pulse = ...Liter
WPDK	Standard	100 1000	1000 10000
	with special register	10 1000	-

Pulse values Opto-OD-Pulser

Meter sizes		DN 50...125 1 Pulse = ...Liter	DN 150... 300 1 Pulse = ...Liter
WPDK	Opto OD 01	1	10
	Opto OD 03	10	100

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Subject to modification

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