

WESAN WP G

Bulk Water Meter | Woltman



APPLICATION

The bulk water meter WESAN WP G can be used for measuring the flow in supply lines with high flow at low pressure loss.

FEATURES

- Calibratable and exchangeable measuring insert
- For horizontal and vertical installation
- Sealed measuring insert for better accuracy
- Hydraulic bearing relief
- Encapsulated counter of glass/copper IP 68
- Complete head unit with counter and sensors can be rotated by 350° for easier reading
- System compatibility, WESAN WP G can be extended with IZAR RADIO (clip on radio module) or IZAR PULSE (clip on pulse module)
- Strong protection against magnetic manipulation

GENERAL

WESAN WP G			
Medium temperature range	°C	1 ... 30	
Temperature safety	°C	1 ... 50	
Ambient operating temperature	°C	1 ... 55	
Ambient storage temperature	°C	1 ... 55	
Nominal pressure	PN	bar	16 ¹
Protection class	IP 68		

¹ special versions on request

TECHNICAL DATA

Nominal diameter	DN	mm	50	65	80	100	125
Permanent flow rate	Q ₃	m ³ /h	40	40	100	160	160
Starting flow rate		l/h	90	130	160	190	190
Minimum flow rate	Q ₁	m ³ /h	0.63	0.63	1	1.6	1.6
Transitional flow rate	Q ₂	m ³ /h	1.02	1.01	1.6	2.56	2.56
Overload flow rate	Q ₄	m ³ /h	50	50	125	200	200
Flow rate at 0.1 bar pressure loss		m ³ /h	29	50	95	95	95
Pressure loss at Q ₃		bar	0.19	0.16	0.14	0.28	0.29

Nominal diameter	DN	mm	150	200	250 ²	300 ²
Permanent flow rate	Q ₃	m ³ /h	250	250	1000	1600
Starting flow rate		l/h	1500	2500	5000	10000
Minimum flow rate	Q ₁	m ³ /h	5	5	10	16
Transitional flow rate	Q ₂	m ³ /h	8	8	16	25.6
Overload flow rate	Q ₄	m ³ /h	312.5	312.5	1250	2000
Flow rate at 0.1 bar pressure loss		m ³ /h	290	550	800	1250
Pressure loss at Q ₃		bar	0.08	0.02	0.16	0.16

² only available without approval

APPROVAL

Nominal diameter	DN	mm	50	65	80	100	125
MID (DE-13-MI001-PTB005)			•	•	•	•	•
Dynamic range (Q ₃ /Q ₁)	R ³		63•H	63	100	100	100
Sanitary conformity			ACS, AoC DEU	ACS, AoC DEU	ACS, AoC DEU	ACS, AoC DEU	ACS, AoC DEU

Nominal diameter	DN	mm	150	200	250 ²	300 ²
MID (DE-13-MI001-PTB005)			•	•	-	-
Dynamic range (Q ₃ /Q ₁)	R ³		50	50	100	100
Sanitary conformity			ACS, AoC DEU	ACS, AoC DEU	ACS, AoC DEU	ACS, AoC DEU

² only available without approval

³ standard dynamic other dynamics on request

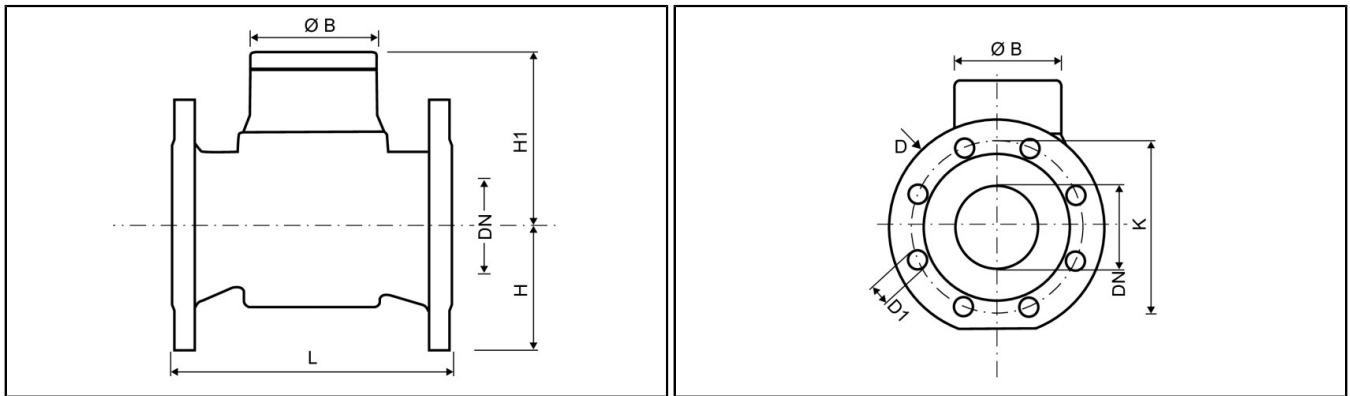
DISPLAY RANGE

Nominal diameter	DN	mm	50	65	80	100	125
0.5 l ... 999,999 m ³			•	•	•	•	•
5.0 l ... 9,999,999 m ³			-	-	-	-	-

Nominal diameter	DN	mm	150	200	250 ²	300 ²
0.5 l ... 999,999 m ³			-	-	-	-
5.0 l ... 9,999,999 m ³			•	•	•	•

² only available without approval

DIMENSIONS



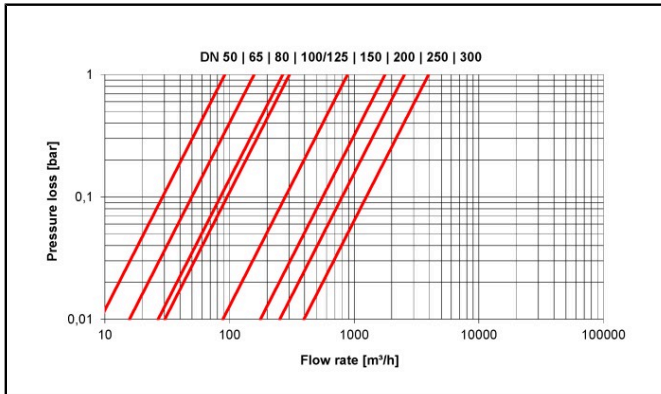
Nominal diameter	DN	mm	50	65	80	100	125
Overall length	L	mm	200 / 300	200	200 ⁴ / 225 / 350 ⁴	250 / 350 ⁴	250
Flange diameter	D	mm	165	185	200	220	250
Hole circle diameter PN 10 / PN 16	K	mm	- / 125	- / 145	160 / 160	- / 180	- / 210
Number of screwholes PN 10 / PN 16		pcs	- / 4	- / 4	4 / 8	- / 8	- / 8
Screwhole diameter PN 10 / PN 16	D1	mm	- / 18	- / 18	18 / 18	- / 18	- / 18
Height	H	mm	75	83	89	105	115
Height	H1	mm	103	103	134	134	134
Height to remove measuring insert		mm	205	205	255	255	255
Meter width		mm	155	155	200	220	250
Diameter	Ø B	mm	110	110	110	110	110
Weight		kg	10.2	11.2	13	16	21.5

Nominal diameter	DN	mm	150	200	250 ²	300 ²
Overall length	L	mm	300	350	450	500
Flange diameter	D	mm	285	340	405	460
Hole circle diameter PN 10 / PN 16	K	mm	- / 240	295 / 295	350 / 355	400 / 410
Number of screwholes PN 10 / PN 16		pcs	- / 8	8 / 12	12 / 12	12 / 12
Screwhole diameter PN 10 / PN 16	D1	mm	- / 22	22 / 22	23 / 27	23 / 27
Height	H	mm	135	163	193	230
Height	H1	mm	225	225	222	270
Height to remove measuring insert		mm	255	455	452	500
Meter width		mm	285	340	405	460
Diameter	Ø B	mm	110	110	110	110
Weight		kg	39	47	75	165

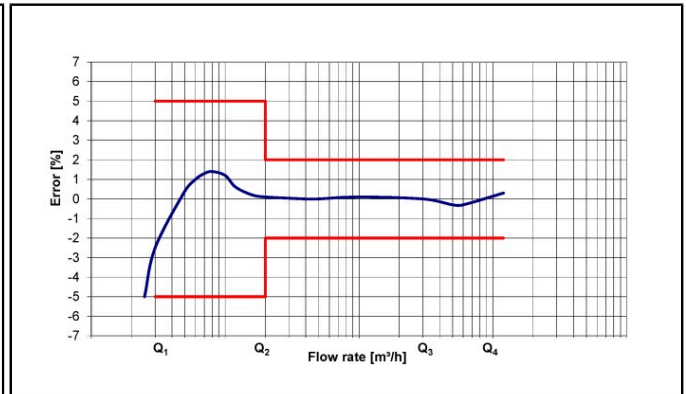
² only available without approval

⁴ special body lengths on request

PRESSURE LOSS GRAPH / TYPICAL ERROR GRAPH



Pressure loss graph



Typical error graph

REACH

Information pursuant to Article 33 (1) of Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006:

This product series contains components with the following substances in a concentration of more than 0.1% weight by weight (w/w):

- Lead (CAS no.: 7439-92-1)

Economic Actor Information

Applicable regulation and legal obligations for products may change.

DIEHL METERING monitors applicable regulation to ensure their products comply at the date of placing on the market.

Each economic actor making products available on the market thereafter must independently keep informed about the current applicable regulation.

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