

# WESAN WS G

BULK WATER METER | WOLTMAN

**DIEHL**  
Metering



## APPLICATION

For measuring of fluctuating flows in the utility sector.

## FEATURES

- ▶ Calibratable and exchangeable measuring insert
- ▶ For horizontal 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 WS G can be extended with IZAR RADIO (clip-on radio module) or IZAR PULSE (clip-on pulse module)
- ▶ Strong protection against magnetic manipulation

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## GENERAL

| WESAN WS 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 <sup>1</sup> |
| Protection class              | IP 68 |          |                 |

<sup>1</sup> see also special versions

## TECHNICAL DATA

| Nominal diameter                   | DN             | mm                | 50    | 65   | 80    | 100  | 150   |
|------------------------------------|----------------|-------------------|-------|------|-------|------|-------|
| Permanent flow rate                | Q <sub>3</sub> | m <sup>3</sup> /h | 25    | 40   | 63    | 100  | 250   |
| Minimum flow rate                  | Q <sub>1</sub> | m <sup>3</sup> /h | 0.63  | 1    | 1.58  | 2.5  | 6.25  |
| Transitional flow rate             | Q <sub>2</sub> | m <sup>3</sup> /h | 1     | 1.6  | 2.52  | 4    | 10    |
| Overload flow rate                 | Q <sub>4</sub> | m <sup>3</sup> /h | 31.25 | 50   | 78.75 | 125  | 312.5 |
| Starting flow rate                 |                | l/h               | 60    | 60   | 90    | 90   | 150   |
| Flow rate at 0.1 bar pressure loss |                | m <sup>3</sup> /h | 21    | 22   | 55    | 60   | 143   |
| Pressure loss at Q <sub>3</sub>    |                | bar               | 0.14  | 0.34 | 0.13  | 0.28 | 0.31  |

## APPROVAL

| Nominal diameter                                | DN | mm | 50      | 65      | 80      | 100     | 150     |
|-------------------------------------------------|----|----|---------|---------|---------|---------|---------|
| MID (A 0445/3505/2011)                          |    |    | •       | •       | •       | •       | •       |
| Dynamic range (Q <sub>3</sub> /Q <sub>1</sub> ) | R  |    | 40•H    | 40•H    | 40•H    | 40•H    | 40•H    |
| Potable water                                   |    |    | AoC DEU | AoC DEU | AoC DEU | AoC DEU | AoC DEU |

## 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)

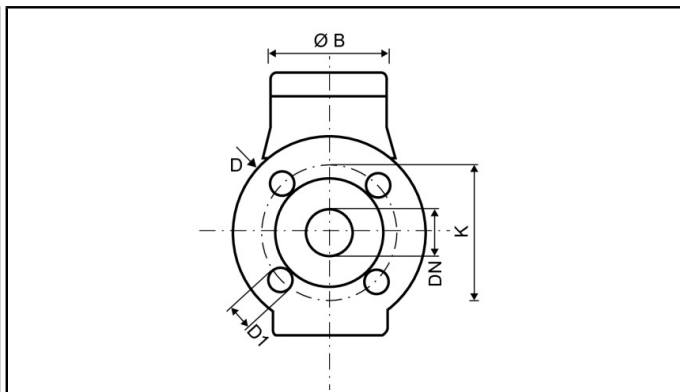
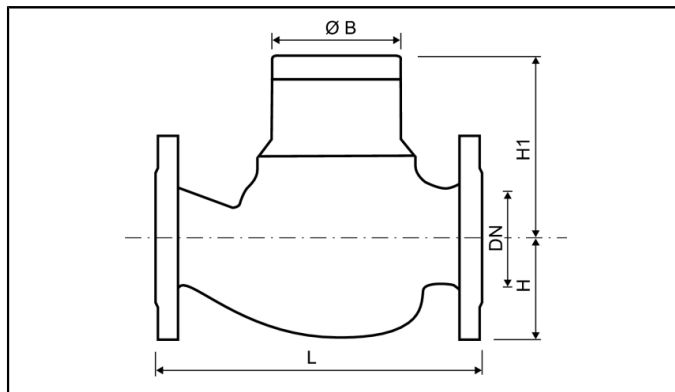
## DISPLAY RANGE

| Nominal diameter                   | DN | mm | 50 | 65 | 80 | 100 | 150 |
|------------------------------------|----|----|----|----|----|-----|-----|
| 0.5 l ... 999,999 m <sup>3</sup>   |    |    | •  | •  | •  | •   |     |
| 5.0 l ... 9,999,999 m <sup>3</sup> |    |    |    |    |    |     | •   |

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## DIMENSIONS

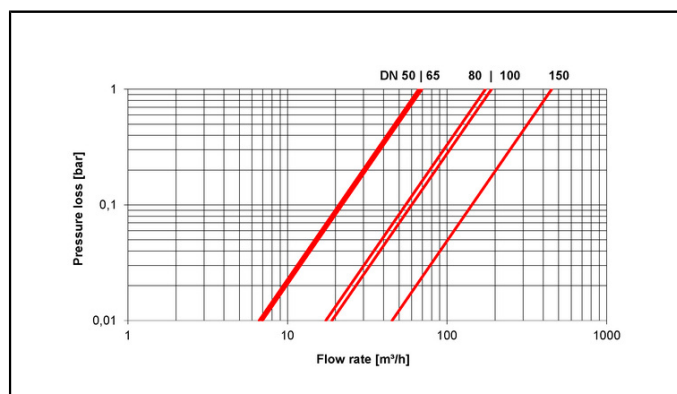


| Nominal diameter                  | DN  | mm  | 50   | 65   | 80    | 100 | 150       |
|-----------------------------------|-----|-----|------|------|-------|-----|-----------|
| Overall length (DIN 19625)        | L   | mm  | 270  | 300  | 300   | 360 | 430 / 500 |
| Overall length (DIN ISO 4064)     | L   | mm  | 300  | 300  | 350   | 350 | 500       |
| Flange diameter                   | D   | mm  | 165  | 185  | 200   | 220 | 285       |
| Hole circle diameter              | K   | mm  | 125  | 145  | 160   | 180 | 240       |
| Number of screwholes              |     | pcs | 4    | 4    | 4 / 8 | 8   | 8         |
| Screw hole diameter               | D1  | mm  | 18   | 18   | 18    | 18  | 23        |
| Height                            | H   | mm  | 85   | 97   | 102   | 113 | 141       |
| Height                            | H1  | mm  | 135  | 135  | 180   | 190 | 351       |
| Height to remove measuring insert |     | mm  | 240  | 240  | 330   | 340 | 620       |
| Diameter                          | Ø B | mm  | 110  | 110  | 110   | 110 | 110       |
| Meter width                       |     | mm  | 173  | 173  | 239   | 239 | 310       |
| Weight                            |     | kg  | 14.5 | 17.7 | 24    | 28  | 79.5      |

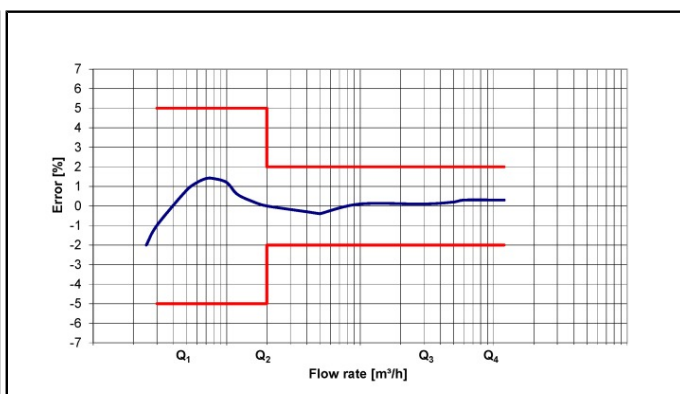
## SPECIAL VERSIONS

- Versions with different nominal pressure on request
- Flange for ANSI and BS on request
- Temperature up to 90 °C on request
- Special pulse values on request
- Special overall lengths on request

## PRESURE LOSS GRAPH / TYPICAL ERROR GRAPH



Pressure loss graph



Typical error graph

## 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.

For questions, please contact: [metering-germany-info@diehl.com](mailto:metering-germany-info@diehl.com)