

# AURIGA DN15/20

## SINGLE-JET METER

**DIEHL**  
Metering



### APPLICATION

AURIGA DN15/20 is a single-jet water meter designed for measuring cold water in main metering market. Robust, it is particularly suitable for demanding installation conditions and sediment laden waters.

Developed within the framework of the MID, AURIGA complies with the European regulations and holds sanitary conformity certificates.

Modular, AURIGA can be fitted at any time with an IZAR clip-on module converting it into a communicating meter ready for mobile reading (walk-by, drive-by, passive drive-by) or fixed network reading (radio/wired).

### FEATURES

- ▶ DN15/20
- ▶ Q3=2.5m<sup>3</sup>/h (DN15) / Q3=4m<sup>3</sup>/h (DN20)
- ▶ MID / OIML approvals up to R=160H & R=63V
- ▶ Starting flow rate: 3l/h (DN15) / 8 l/h (DN20)
- ▶ Brass or composite body
- ▶ High resistance to demanding water conditions (sand, iron)
- ▶ Compact and modular

# AURIGA DN15/20

## SINGLE-JET METER

### METROLOGICAL DATA

| Nominal diameter                               | DN                             | mm                | 15       | 15       | 15        | 15       | 20       |
|------------------------------------------------|--------------------------------|-------------------|----------|----------|-----------|----------|----------|
| Length                                         | L                              | mm                | 110      | 115      | 115       | 165/170  | 190      |
| R standard*                                    | Q <sub>3</sub> /Q <sub>1</sub> |                   | 160H-63V | 160H-63V | 160H-63V  | 160H-63V | 160H-63V |
| Body                                           |                                |                   | brass    | brass    | composite | brass    | brass    |
| Nominal flowrate                               | Q <sub>3</sub>                 | m <sup>3</sup> /h | 2.5      | 2.5      | 2.5       | 2.5      | 4        |
| Starting flowrate horizontal                   |                                | l/h               | 3        | 3        | 3         | 3        | 8        |
| Minimum flowrate horizontal                    | Q <sub>1</sub>                 | l/h               | 15.625   | 15.625   | 15.625    | 15.625   | 25       |
| Transition flowrate horizontal                 | Q <sub>2</sub>                 | l/h               | 25       | 25       | 25        | 25       | 40       |
| Minimum flowrate vertical                      | Q <sub>1</sub>                 | l/h               | 39.7     | 39.7     | 39.7      | 39.7     | 63.5     |
| Transition flowrate vertical                   | Q <sub>2</sub>                 | l/h               | 63.5     | 63.5     | 63.5      | 63.5     | 101.6    |
| Maximum flowrate                               | Q <sub>4</sub>                 | m <sup>3</sup> /h | 3.125    | 3.125    | 3.125     | 3.125    | 5        |
| Head loss at Q <sub>3</sub>                    |                                | bar               | 0.62     | 0.62     | 0.62      | 0.62     | 0.58     |
| Head loss at Q <sub>4</sub>                    |                                | bar               | 0.98     | 0.98     | 0.98      | 0.96     | 0.91     |
| kvs (deltaP=Q <sup>2</sup> /Kvs <sup>2</sup> ) |                                |                   | 3.15     | 3.15     | 3.15      | 3.15     | 5.25     |

\*Other values on request - H=horizontal installation position / V=vertical installation position

### APPROVAL

| AURIGA DN15/20      |                                             |
|---------------------|---------------------------------------------|
| MID approval        | LNE-30014   Type B2                         |
| Standards           | ISO 4064-1-2014   OIML R49-1-2013           |
| Sanitary conformity | ACS   AoC DEU   Belgaqua   KIWA   OTH   PZH |

### 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 articles with the following substances in a concentration of more than 0.1% weight by weight (w/w):

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

### TEMPERATURE AND PRESSURE

| AURIGA DN15/20                |     |              |
|-------------------------------|-----|--------------|
| Water temperature             | °C  | +0.1 ... +50 |
| Ambient operating temperature | °C  | +1 ... +55   |
| Storage temperature           | °C  | -10 ... +55  |
| Nominal pressure              | bar | 16           |

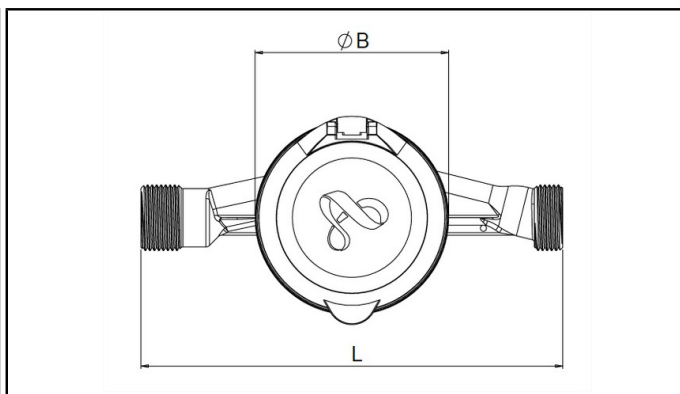
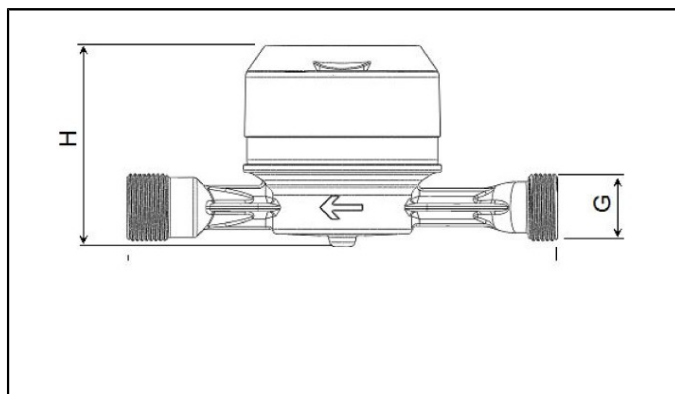
### OPTIONS

- Pair of connectors
- Non-return valve

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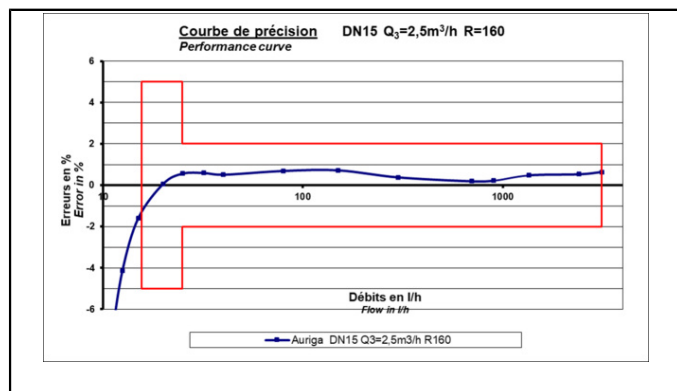
### DIMENSIONS



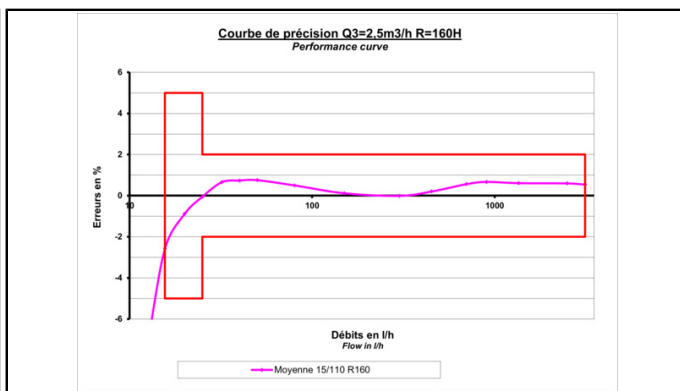
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|--------------------|--------------------------------|------|----------|-----------|-----------|----------|----------|
| Length             | L                              | mm   | 110      | 115       | 115       | 165/170  | 190      |
| R standard*        | Q <sub>3</sub> /Q <sub>1</sub> |      | 160H-63V | 160H-63V  | 160H-63V  | 160H-63V | 160H-63V |
| Body               |                                |      | brass    | brass     | composite | brass    | brass    |
| Width              | B                              | mm   | 73       | 73        | 73        | 73       | 90       |
| Height             | H                              | mm   | 79       | 79        | 79        | 75       | 80       |
| Thread connections | G                              | inch | 3/4"     | 3/4" 7/8" | 3/4" 7/8" | 3/4"     | 1"       |
| Weight             |                                | kg   | 0.49     | 0.5       | 0.25      | 0.53     | 0.73     |

\*Other values on request

### PRECISION CURVES - DN15



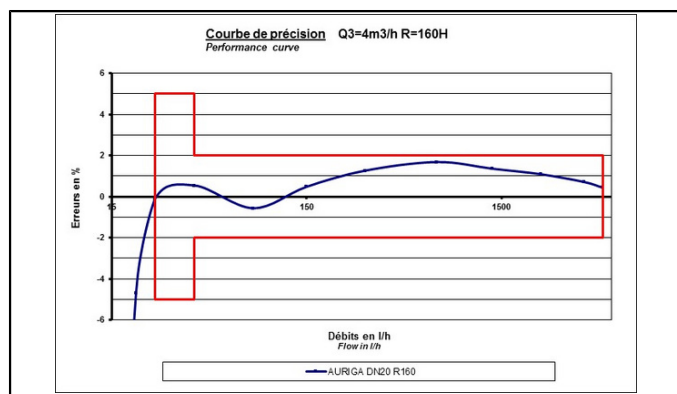
DN15 - brass



DN15 - composite

This technology does not require straight length.

### PRECISION CURVES - DN20



DN20 - brass

This technology does not require straight length.