

## ECON® Globe valve Type: 277 Low zinc bronze Flange PN16

Low-zinc bronze globe valve, with bronze sealing, fixed or loose [SDNR] disc and flange connection, pressure class PN16.

### Characteristics

**Type:** 277

**Norm:** EN (DIN)

**Construction type:** Straight

**Housing material:** Low zinc bronze

**Connection:** Flange

**Flange finish:** Flat face

**Stem seal type:** Gland seal

**Sealing:** Low zinc bronze

**Material disc:** G-CuSn10Zn (Rg10)

**Primary spindle seal material:** Graphite

**Material bonnet:** G-CuSn10Zn (Rg10)

**Bonnet gasket material:** PTFE

**Minimum medium temperature (continuous):** -10 °C

**Maximum medium temperature (continuous):** 200 °C

**Maximum pressure difference at 20 °C:** 16 bar

### Application

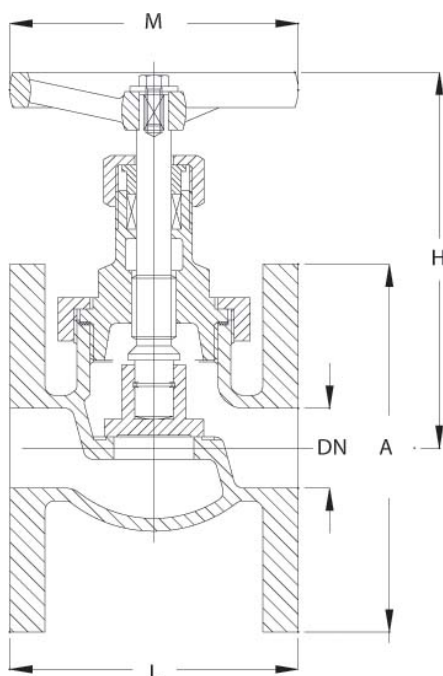
- On board ships (maritime).
- Sea water systems.
- Neutral liquids and gases.
- Hot or cold water, oil (for thermal oil: bellows sealed valve), etc.

### Technical Information

- Material CC480K contains max. 0.5% Zinc and was previously called zinc-free.
- Testing: EN 12266-1.
- Screwed bonnet with secured nut.

### Options

- Available including inspection and certification by all leading Classification societies.
- Available in standard bronze; type 275.
- Available with regulating disc.



Size table:

| DN    | A   | H   | L   | M   | Weight |
|-------|-----|-----|-----|-----|--------|
|       | mm  | mm  | mm  | mm  | kg     |
| DN15  | 95  | 113 | 70  | 63  | 1.6    |
| DN20  | 105 | 121 | 80  | 63  | 2.2    |
| DN25  | 115 | 131 | 90  | 80  | 2.9    |
| DN32  | 140 | 141 | 105 | 90  | 4.3    |
| DN40  | 150 | 151 | 120 | 100 | 5.5    |
| DN50  | 165 | 168 | 140 | 125 | 8      |
| DN65  | 185 | 208 | 180 | 160 | 12.5   |
| DN80  | 200 | 231 | 200 | 200 | 16.5   |
| DN100 | 220 | 275 | 200 | 200 | 22.9   |

### Pressure and temperature range

| Size | 0-120 | 200 | °C |
|------|-------|-----|----|
|------|-------|-----|----|

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| Pressure and temperature range |                        |                 |                       |                           |                                     |                                           |                                 |                   |                  |          |
|--------------------------------|------------------------|-----------------|-----------------------|---------------------------|-------------------------------------|-------------------------------------------|---------------------------------|-------------------|------------------|----------|
| DN15 - DN100                   |                        |                 | 16                    |                           | 12                                  |                                           | [bar]                           |                   |                  |          |
| Material quality               | Nominal inner diameter | Pressure rating | Face to Face norm     | Face to Face length<br>mm | Operation                           | Type of disc                              | Type of bonnet                  | Spindle material  | Kv value<br>m³/h | Article  |
| G-CuSn10Zn (Rg10)              | DN15                   | PN16            | Manufacturer standard | 70                        | Hand wheel, rising with rising stem | Fixed disc                                | Screwed bonnet with secured nut | CuZn35Ni (SoMs59) | 7                | 14238224 |
| G-CuSn10Zn (Rg10)              | DN15                   | PN16            | Manufacturer standard | 70                        | Hand wheel, rising with rising stem | Screw down non-return disc without spring | Screwed bonnet with secured nut | CuZn35Ni (SoMs59) | 7                | 14238233 |
| G-CuSn10Zn (Rg10)              | DN20                   | PN16            | Manufacturer standard | 80                        | Hand wheel, rising with rising stem | Fixed disc                                | Screwed bonnet with secured nut | Bronze (CuSn8)    | 11.2             | 14379204 |
| G-CuSn10Zn (Rg10)              | DN20                   | PN16            | Manufacturer standard | 80                        | Hand wheel, rising with rising stem | Screw down non-return disc without spring | Screwed bonnet with secured nut | Bronze (CuSn8)    | 11.2             | 14379213 |
| G-CuSn10Zn (Rg10)              | DN25                   | PN16            | Manufacturer standard | 90                        | Hand wheel, rising with rising stem | Fixed disc                                | Screwed bonnet with secured nut | Bronze (CuSn8)    | 20.5             | 14379205 |
| G-CuSn10Zn (Rg10)              | DN25                   | PN16            | Manufacturer standard | 90                        | Hand wheel, rising with rising stem | Screw down non-return disc without spring | Screwed bonnet with secured nut | Bronze (CuSn8)    | 20.5             | 14379214 |
| G-CuSn10Zn (Rg10)              | DN32                   | PN16            | Manufacturer standard | 105                       | Hand wheel, rising with rising stem | Fixed disc                                | Screwed bonnet with secured nut | CuZn35Ni (SoMs59) | 24               | 14238227 |
| G-CuSn10Zn (Rg10)              | DN32                   | PN16            | Manufacturer standard | 105                       | Hand wheel, rising with rising stem | Screw down non-return disc without spring | Screwed bonnet with secured nut | Bronze (CuSn8)    | 24               | 14379215 |
| G-CuSn10Zn (Rg10)              | DN40                   | PN16            | Manufacturer standard | 120                       | Hand wheel, rising with rising stem | Fixed disc                                | Screwed bonnet with secured nut | CuZn35Ni (SoMs59) | 39.5             | 14238228 |
| G-CuSn10Zn (Rg10)              | DN40                   | PN16            | Manufacturer standard | 120                       | Hand wheel, rising with rising stem | Screw down non-return disc without spring | Screwed bonnet with secured nut | Bronze (CuSn8)    | 39.5             | 14379216 |
| G-CuSn10Zn (Rg10)              | DN50                   | PN16            | Manufacturer standard | 140                       | Hand wheel, rising with rising stem | Fixed disc                                | Screwed bonnet with secured nut | Bronze (CuSn8)    | 57               | 14379208 |
| G-CuSn10Zn (Rg10)              | DN50                   | PN16            | Manufacturer standard | 140                       | Hand wheel, rising with rising stem | Screw down non-return disc without spring | Screwed bonnet with secured nut | Bronze (CuSn8)    | 57               | 14379218 |
| G-CuSn10Zn (Rg10)              | DN65                   | PN16            | Manufacturer standard | 180                       | Hand wheel, rising with rising stem | Fixed disc                                | Screwed bonnet with secured nut | Bronze (CuSn8)    | 96               | 14379209 |
| G-CuSn10Zn (Rg10)              | DN65                   | PN16            | Manufacturer standard | 180                       | Hand wheel, rising with rising stem | Screw down non-return disc without spring | Screwed bonnet with secured nut | Bronze (CuSn8)    | 96               | 14379219 |
| G-CuSn10Zn (Rg10)              | DN80                   | PN16            | Manufacturer standard | 200                       | Hand wheel, rising with rising stem | Fixed disc                                | Screwed bonnet with secured nut | Bronze (CuSn8)    | 146.5            | 14379210 |
| G-CuSn10Zn (Rg10)              | DN80                   | PN16            | Manufacturer standard | 200                       | Hand wheel, rising with rising stem | Screw down non-return disc without spring | Screwed bonnet with secured nut | Bronze (CuSn8)    | 146.5            | 14379220 |
| G-CuSn10Zn (Rg10)              | DN100                  | PN16            | Manufacturer standard | 230                       | Hand wheel, rising with rising stem | Fixed disc                                | Screwed bonnet with secured nut | CuZn35Ni (SoMs59) | 250              | 14238232 |
| G-CuSn10Zn (Rg10)              | DN100                  | PN16            | Manufacturer standard | 230                       | Hand wheel, rising with rising stem | Screw down non-return disc without spring | Screwed bonnet with secured nut | CuZn35Ni (SoMs59) | 250              | 14238241 |

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