

## Shut-off valve with metal bellows Series GL122



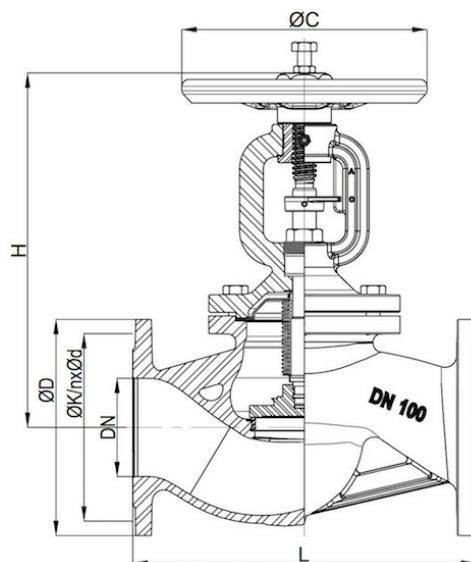
|                    |                                                                                                                                                                                                                              |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Design type        | Shut-off valve, straight-through design with back seal, Bellows and Stuffing box packing, metal-to-metal sealing, non-rising stem, external spindle thread, visual position indicator, Painted housing RAL5013, Coating 40µm |
| Actuation          | via steel handwheel                                                                                                                                                                                                          |
| Connection         | Flanges DN15...DN200 according to EN1092-1 PN16                                                                                                                                                                              |
| Overall length     | corresponding DIN EN558-1R1                                                                                                                                                                                                  |
| Materials          | Housing Grey cast iron EN-JL1040, Bellows Stainless steel, Seat, Cone and Spindle Stainless steel 1.4021, Handwheel Steel, Package Graphite                                                                                  |
| Application range  | Fluids and gases of group 1 and 2 in accordance with PED 2014/68/EU that do not attack the materials used.                                                                                                                   |
| Medium temperature | -10...+300°C                                                                                                                                                                                                                 |
| Operating pressure | Nominal pressure according to the pressure-temperature table                                                                                                                                                                 |
| Mounting type      | Installation in rigid piping system                                                                                                                                                                                          |
| Mounting position  | any                                                                                                                                                                                                                          |
| Approvals          | TA-Luft test (ATEX on request)                                                                                                                                                                                               |
| Special versions   | Control cone, Cone with soft seal, pressure-relieved poppet, Stroke limitation                                                                                                                                               |

### Pressure-temperature table in bar

| -10...+120°C | 150°C | 200°C | 250°C | 300°C |
|--------------|-------|-------|-------|-------|
| 16           | 14,4  | 12,8  | 11,2  | 9,6   |

Intermediate values of the maximum operating pressures may be calculated by linear interpolation between the nearest lower and higher temperature values.





| Nominal size<br>DN[mm] | Pressure range<br>[bar] | C   | D   | H   | K   | L   | nx d     | Kv value<br>[m <sup>3</sup> /h] | Weight<br>[approx. kg] | Type        |
|------------------------|-------------------------|-----|-----|-----|-----|-----|----------|---------------------------------|------------------------|-------------|
| 15                     | 0-16                    | 125 | 95  | 226 | 65  | 130 | 4 x Ø14  | 4,6                             | 3,8                    | GL122-15-W  |
| 20                     | 0-16                    | 125 | 105 | 226 | 75  | 150 | 4 x Ø14  | 7,3                             | 4,5                    | GL122-20-W  |
| 25                     | 0-16                    | 125 | 115 | 232 | 85  | 160 | 4 x Ø14  | 11,7                            | 5,2                    | GL122-25-W  |
| 32                     | 0-16                    | 125 | 140 | 233 | 100 | 180 | 4 x Ø18  | 16,8                            | 6,8                    | GL122-32-W  |
| 40                     | 0-16                    | 150 | 150 | 270 | 110 | 200 | 4 x Ø18  | 26,7                            | 10,1                   | GL122-40-W  |
| 50                     | 0-16                    | 150 | 165 | 273 | 125 | 230 | 4 x Ø18  | 42,6                            | 12,2                   | GL122-50-W  |
| 65                     | 0-16                    | 200 | 185 | 356 | 145 | 290 | 8 x Ø18  | 77,9                            | 20,5                   | GL122-65-W  |
| 80                     | 0-16                    | 200 | 200 | 360 | 160 | 310 | 8 x Ø18  | 111                             | 23,5                   | GL122-80-W  |
| 100                    | 0-16                    | 250 | 220 | 405 | 180 | 350 | 8 x Ø18  | 177                             | 34,5                   | GL122-100-W |
| 125                    | 0-16                    | 300 | 250 | 450 | 210 | 400 | 8 x Ø18  | 262                             | 46                     | GL122-125-W |
| 150                    | 0-16                    | 350 | 285 | 510 | 240 | 480 | 8 x Ø22  | 368                             | 66,5                   | GL122-150-W |
| 200                    | 0-14*                   | 400 | 340 | 680 | 295 | 600 | 12 x Ø22 | 664                             | 117,5                  | GL122-200-W |

\* for higher operating pressures use special version with pressure-relieved poppet cone

#### Kv value depending on the valve opening for Control cone [m³/h]

| Nominal size<br>DN [mm] | 15   | 20   | 25   | 32   | 40   | 50   | 65   | 80   | 100  | 125  | 150  | 200 |
|-------------------------|------|------|------|------|------|------|------|------|------|------|------|-----|
| 20%                     | 0,33 | 0,84 | 1,3  | 2,2  | 3,72 | 8,26 | 8,91 | 16,1 | 21,1 | 35,9 | 51,1 | 72  |
| 40%                     | 0,99 | 1,77 | 2,81 | 4,53 | 7,24 | 14,2 | 18   | 30,9 | 40,4 | 60,9 | 109  | 143 |
| 60%                     | 2,17 | 3,52 | 4,91 | 8,3  | 13,5 | 22,2 | 34,2 | 55,2 | 74,6 | 103  | 190  | 258 |
| 80%                     | 3,27 | 5,47 | 7,64 | 12,5 | 19,8 | 30,8 | 53,8 | 80,4 | 117  | 154  | 252  | 377 |
| 100%                    | 4,19 | 6,77 | 9,22 | 15,4 | 24,5 | 36,5 | 64,1 | 91,7 | 138  | 182  | 286  | 446 |

Illustrations non-binding  
Design, dimensional and material changes reserved

Armatures / Valves, butterfly valves and gate valves - manually operated / Other materials - A04 / Globe valve Series GL122

Version 7

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