

## Shut-off valve cast steel Series GL120



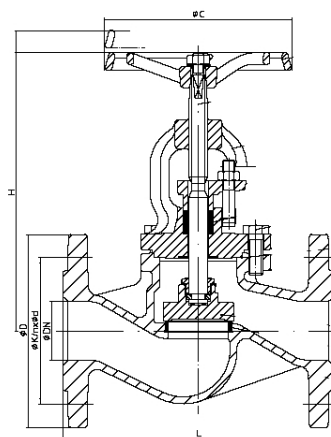
|                    |                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Design type        | Shut-off valve in in-line design with back seal and Stuffing box packing, metallic sealing, rising stem, external spindle thread |
| Connection         | Flanges DN15...DN200 acc. to EN1092-1 PN40                                                                                       |
| Materials          | Housing GP240GH+N, Seat Stainless steel 1.4370, Cone and Spindle Stainless steel 1.4021, Handwheel Steel, Package Graphite       |
| Mounting type      | Installation in rigid piping system                                                                                              |
| Mounting position  | any                                                                                                                              |
| Application range  | Fluids and gases of group 1 and 2 according to PED 2014/68/EU that do not attack the materials used.                             |
| Medium temperature | -10...+400°C                                                                                                                     |
| Operating pressure | Nominal pressure according to pressure-temperature table                                                                         |
| Actuation          | by handwheel made of steel                                                                                                       |
| Overall length     | corresponding DIN EN558-1R1                                                                                                      |
| Approvals          | ATEX on request                                                                                                                  |
| Special versions   | Control cone, Cone with soft seal, pressure-relieved poppet                                                                      |

### Pressure-temperature table in bar

| -10...+50°C | 100°C | 150°C | 200°C | 250°C | 300°C | 350°C | 400°C |
|-------------|-------|-------|-------|-------|-------|-------|-------|
| 40          | 38,2  | 35,2  | 33,3  | 30,5  | 27,6  | 25,7  | 23,8  |

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] | PN<br>[bar] | C   | D   | H** | K   | L   | nxd      | Kv value<br>[m³/h] | Weight<br>[approx. kg] | Type        |
|------------------------|-------------|-----|-----|-----|-----|-----|----------|--------------------|------------------------|-------------|
| 15                     | 40          | 125 | 95  | 234 | 65  | 130 | 4 x Ø14  | 4,8                | 4,5                    | GL120-15-W  |
| 20                     | 40          | 125 | 105 | 239 | 75  | 150 | 4 x Ø14  | 7,6                | 5,0                    | GL120-20-W  |
| 25                     | 40          | 125 | 115 | 247 | 85  | 160 | 4 x Ø14  | 12,2               | 6,5                    | GL120-25-W  |
| 32                     | 40          | 125 | 140 | 257 | 100 | 180 | 4 x Ø18  | 17,5               | 9,0                    | GL120-32-W  |
| 40                     | 40          | 150 | 150 | 288 | 110 | 200 | 4 x Ø18  | 27,8               | 12,5                   | GL120-40-W  |
| 50                     | 40          | 150 | 165 | 301 | 125 | 230 | 4 x Ø18  | 44,3               | 15,0                   | GL120-50-W  |
| 65                     | 40          | 200 | 185 | 392 | 145 | 290 | 8 x Ø18  | 81                 | 25,5                   | GL120-65-W  |
| 80                     | 40          | 200 | 200 | 400 | 160 | 310 | 8 x Ø18  | 115                | 30,0                   | GL120-80-W  |
| 100                    | 40          | 250 | 235 | 439 | 190 | 350 | 8 x Ø22  | 184                | 43,0                   | GL120-100-W |
| 125                    | 30*         | 300 | 270 | 494 | 220 | 400 | 8 x Ø26  | 272                | 68,0                   | GL120-125-W |
| 150                    | 21*         | 350 | 300 | 559 | 250 | 480 | 8 x Ø26  | 383                | 95,0                   | GL120-150-W |
| 200                    | 14*         | 400 | 375 | 686 | 320 | 600 | 12 x Ø30 | 691                | 180                    | GL120-200-W |

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

\*\* Height in open position

#### 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%                     | 0,34 | 0,87 | 1,35 | 2,29 | 3,87 | 8,57 | 9,27 | 16,7 | 21,9  | 37,3  | 53,1  | 74,9  |
| 40%                     | 1,03 | 1,84 | 2,92 | 4,71 | 7,53 | 14,8 | 18,7 | 32,1 | 42    | 63,3  | 113,4 | 148,7 |
| 60%                     | 2,26 | 3,66 | 5,17 | 8,63 | 14   | 23,1 | 35,6 | 57,4 | 77,6  | 107,1 | 197,6 | 268,3 |
| 80%                     | 3,4  | 5,69 | 7,95 | 13   | 20,6 | 32   | 56   | 83,6 | 121,7 | 160,2 | 262,1 | 392,1 |
| 100%                    | 4,36 | 7,04 | 9,59 | 16   | 25,5 | 38   | 66,7 | 95,4 | 143,5 | 189,3 | 297,4 | 463,8 |

Illustrations non-binding

Design, dimensional and material changes reserved

Armatures / Valves, butterfly valves and gate valves - manually operated / Globe and gate valves / Globe valve Series GL120

Version 9

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