

DUCTILE IRON GLOBE VALVE WITH BELLOW PN16

ISO 9001
BUREAU VERITAS
Certification



Size : DN 15 to DN 200
Ends : Flanges R.F. ISO PN16
Min Temperature : - 10°C
Max Temperature : + 350°C
Max Pressure : 16 Bars
Specifications : Rotating non rising stem and handwheel
Bolted bonnet and gland pack
Stainless steel bellow

Materials : Ductile iron

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SPECIFICATIONS :

- Respect the flow direction indicated by the arrow
- Rotating non rising stem and handwheel
- Bolted bonnet and gland pack
- Stainless steel bellow
- Flanges R.F. ISO PN16
- Grey painting RAL 7011-7012

USE :

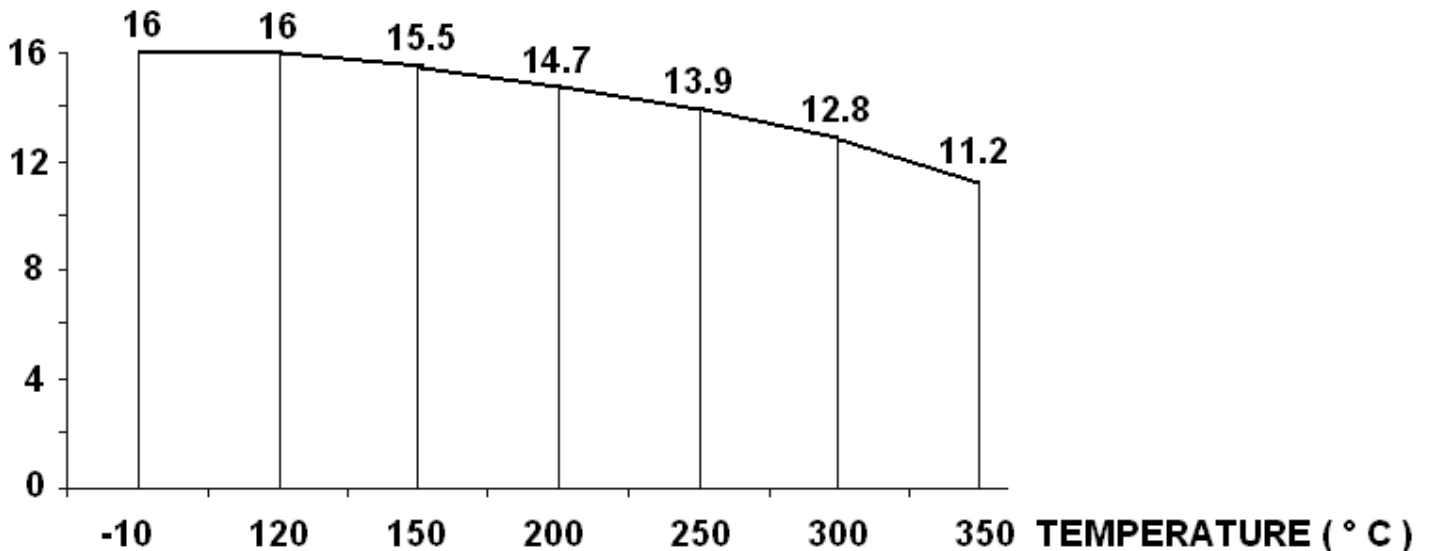
- For all common fluids
- Min and max Temperature Ts : - 10°C to + 350°C
- Max Pressure PN : 16 bars (see graph)
- Keep greased the stem
- **Steam : 10 bars maximum**

FLOW COEFFICIENT Kv (M3 / h) :

| DN | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 |
|-------------|-----|-----|----|----|----|----|----|-----|-----|-----|-----|-----|
| Kv (m3/h) | 5.9 | 7.4 | 13 | 18 | 30 | 41 | 79 | 115 | 181 | 225 | 364 | 725 |

PRESSURE / TEMPERATURE GRAPH :

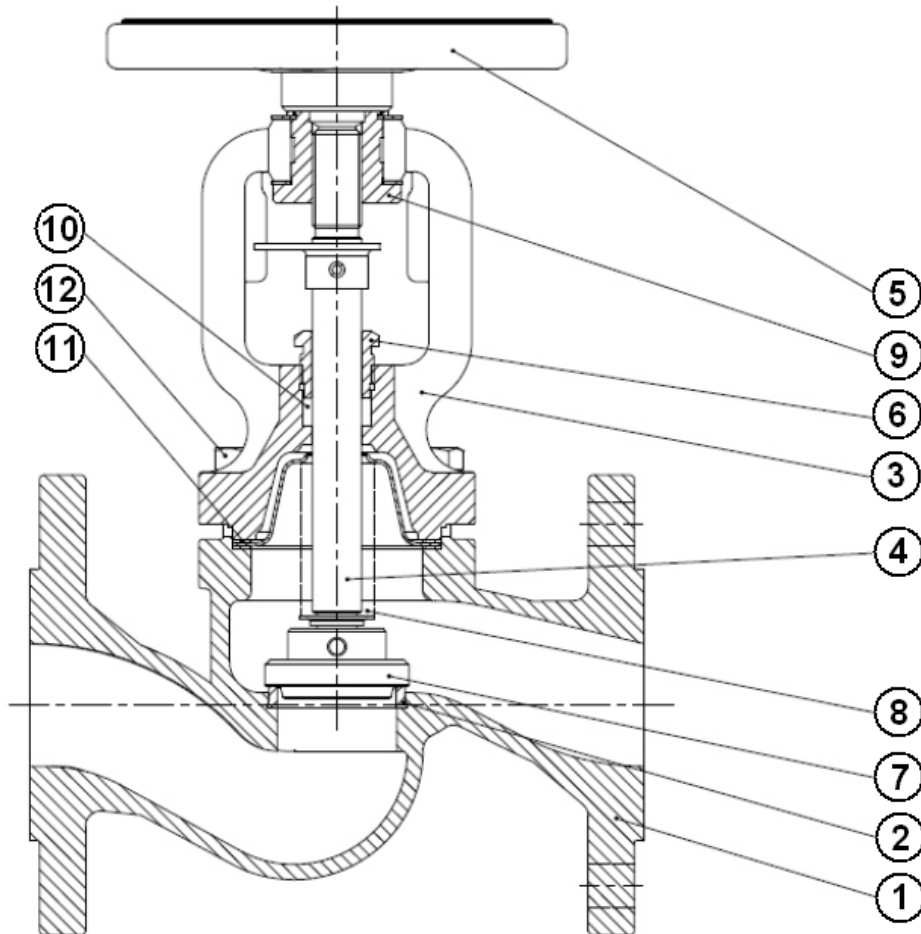
Pressure (Bar)


RANGE :

- Ductile iron globe valve with stainless steel bellow flanged R.F. ISO PN16 **Ref. 476** from DN 15 to DN 200

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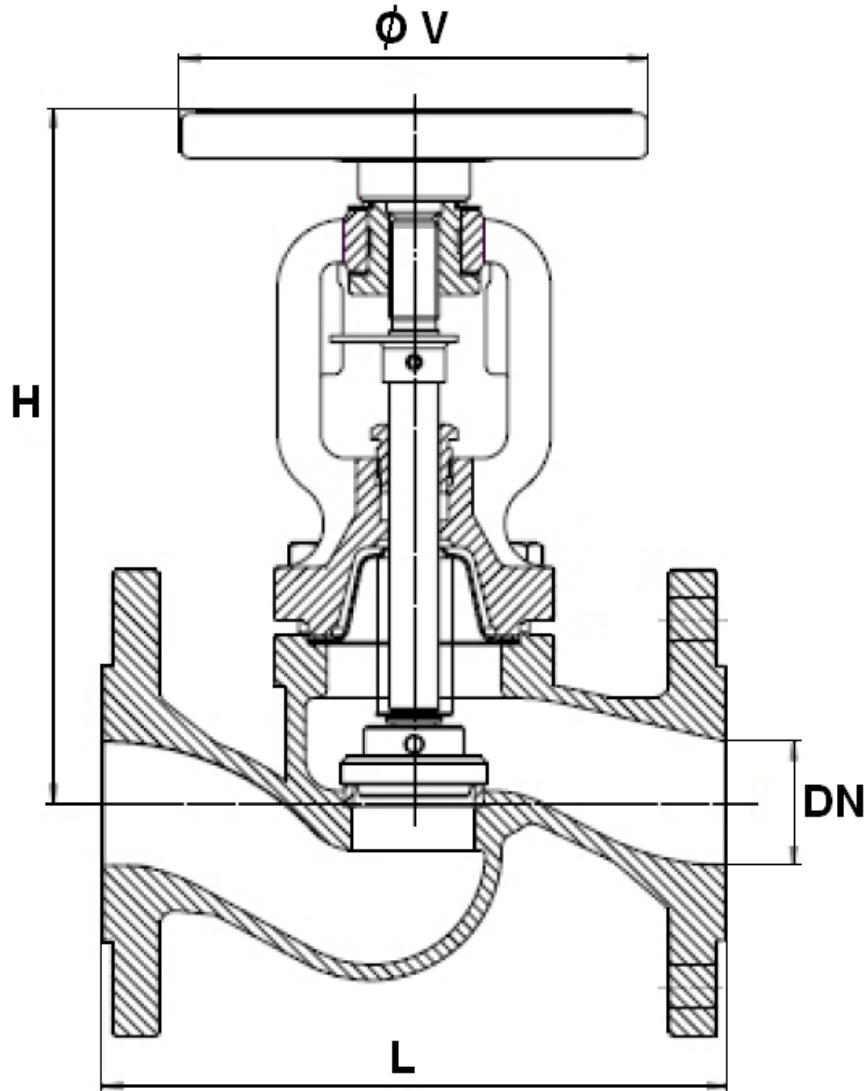
MATERIALS :



| Item | Designation | Materials |
|------|---------------|-------------------|
| 1 | Body | EN-GJS400-18 LT |
| 2 | Seat | SS 410 (1.4006) |
| 3 | Bonnet | EN-GJS400-18 LT |
| 4 | Stem | SS 420 (1.4021) |
| 5 | Handwheel | Steel |
| 6 | Gland pack | Steel 11SMnPb30 |
| 7 | Disc | SS 420 (1.4021) |
| 8 | Bellow | SS 316 |
| 9 | Sleeve | Steel 11SMnPb30 |
| 10 | Packing | Graphite |
| 11 | Bonnet gasket | Graphite + CrNiSt |
| 12 | Bolting | A2-70 |

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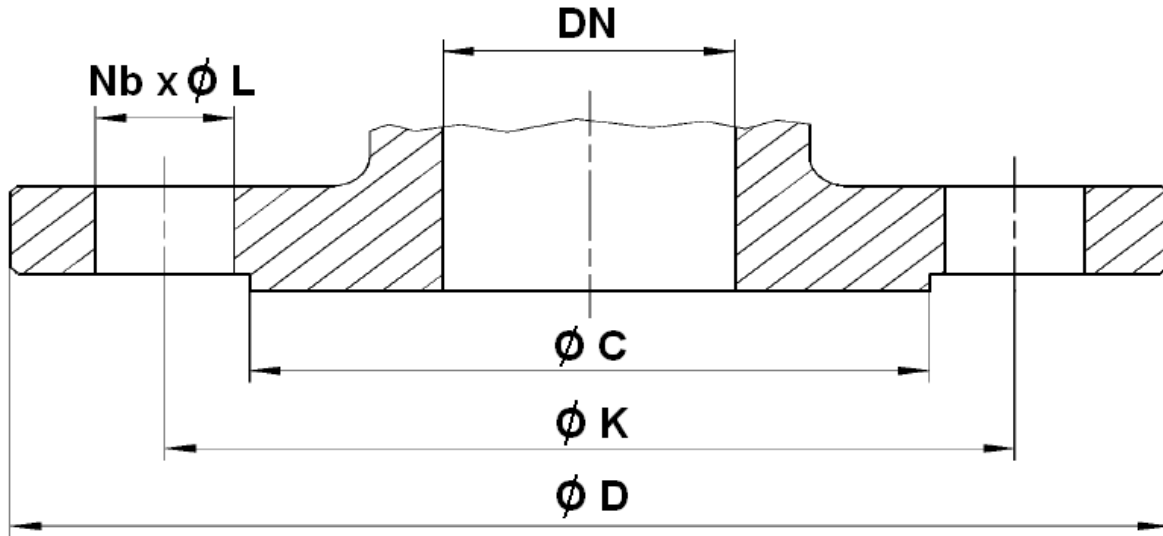
SIZE (in mm) :



| Ref. | DN | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 |
|------|---------------|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-------|
| 476 | L | 130 | 150 | 160 | 180 | 200 | 230 | 290 | 310 | 350 | 400 | 480 | 600 |
| | H | 178 | 178 | 193 | 201 | 224 | 228 | 270 | 295 | 321 | 388 | 448 | 575 |
| | Ø V | 125 | 125 | 125 | 125 | 150 | 150 | 175 | 200 | 250 | 300 | 400 | 500 |
| | Weight (Kg) | 3.2 | 3.9 | 4.6 | 6.5 | 9 | 11 | 15.8 | 20.5 | 35 | 49 | 76 | 130.5 |

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FLANGES SIZE (in mm) :



| Ref. | DN | 15 | 20 | 25 | 32 | 40 | 50 | 65 | 80 | 100 | 125 | 150 | 200 |
|------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 476 | Ø C | 46 | 56 | 65 | 76 | 84 | 99 | 118 | 132 | 156 | 184 | 211 | 266 |
| | Ø D | 95 | 105 | 115 | 140 | 150 | 165 | 185 | 200 | 220 | 250 | 285 | 340 |
| | Ø K | 65 | 75 | 85 | 100 | 110 | 125 | 145 | 160 | 180 | 210 | 240 | 295 |
| | Nb x Ø L | 4 x 14 | 4 x 14 | 4 x 14 | 4 x 19 | 4 x 19 | 4 x 19 | 4 x 19 | 8 x 19 | 8 x 19 | 8 x 19 | 8 x 23 | 12 x 23 |

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STANDARDS :

- Fabrication according to ISO 9001 : 2008
- DIRECTIVE 97/23/CE : CE N° 0062
Risk category III module H
- Tests according to EN 12266-1 (Range A)
- Length according to EN 558-1 series 1 (DIN 3202 F1)
- Flanges R.F. according to EN 1092-2 PN16
- Approval certificate Russian Federation **GOST-R**
- Approval certificate Polish **PZH**

ADVICE : Our opinion and our advice are not guaranteed and SFERACO shall not be liable for the consequences of damages.
The customer must check the right choice of the products with the real service conditions.

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INSTALLATION INSTRUCTIONS

GENERAL GUIDELINES :

- Ensure that the valves to be used are appropriate for the conditions of the installation (type of fluid, pressure and temperature).
- Be sure to have enough valves to be able to isolate the sections of piping as well as the appropriate equipment for maintenance and repair.
- Ensure that the valves to be installed are of correct strength to be able to support the capacity of their usage.
- **Installation of all circuits should ensure that their function can be automatically tested on a regular basis (at least two times a year).**

INSTALLATION INSTRUCTIONS :

- **Before installing the valves, clean and remove any objects from the pipes** (in particular bits of sealing and metal) which could obstruct and block the valves.
- **Ensure that both connecting pipes either side of the valve (upstream and downstream) are aligned (if they're not, the valves may not work correctly).**
- **Make sure that the two sections of the pipe (upstream and downstream) match, the valve unit will not absorb any gaps. Any distortions in the pipes may affect the tightness of the connection, the working of the valve and can even cause a rupture.** To be sure, place the kit in position to ensure the assembling will work.
- **If sections of piping do not have their final support in place, they should be temporarily fixed. This is to avoid unnecessary strain on the valve.**
- Tighten the bolts in cross.
- It's recommended to operate the valve (open and close) 1 to 2 times per year
- Tighten the gland packing at the first start of the installation (with a moderate torque) so that there's no leakage and the handwheel is easy to operate.
- Do not use tools to operate the handwheel
- Respect the flow direction indicated by the arrow