



## **DIN Valves Series Bellows Gate Valve/Globe Valve**

## DIN Gate Valve

### Product structural features

Gate valve seal acc. to DIN is applicable to the cutting and connection of pipelines medium that are used in various industries such as petroleum, chemical industry, pharmacy, chemical fertilizer, electric power industry, etc under nominal pressure of PN1.6~16MPa and working temperature within -110~600°C.

### Main structural features

- 1.This product has logical structure, reliable seal, excellent performance and nice design.
- 2.The seal surface is build-up welding with Co hard alloy, which is attrition-resistant, corrosion-resistant, has good friction resistant and long life.
- 3.The stem quenched and tempered, and its surface is treated by nitriding treatment, thus it has good corrosion resistant and friction resistant.
- 4.It has double seal capability, which is more reliable.
- 5.The part material, flange and butt weld end dimension may be selected according to current operating condition and users' requirement, so that meeting the requirements of various engineering.

### Technical specification

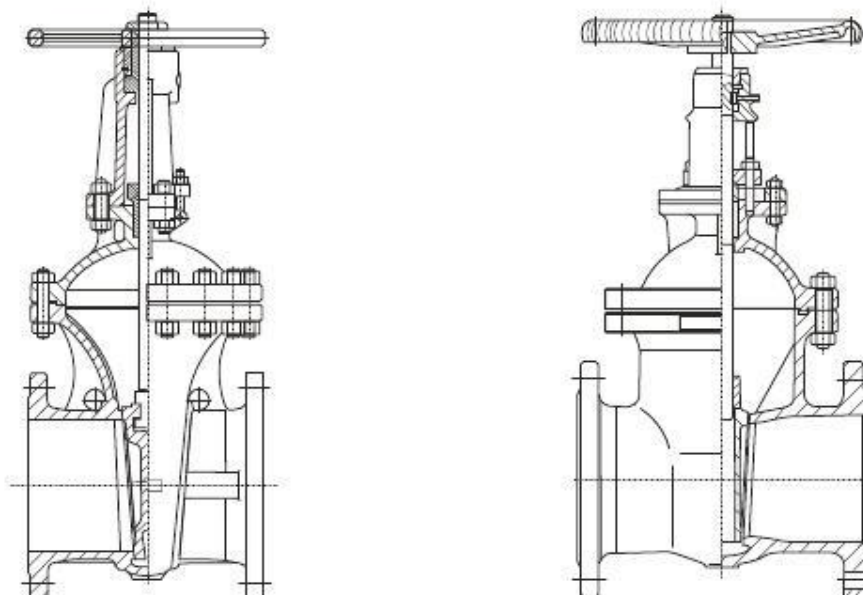
| Structural Formation | BB-BG-OS & Y      |
|----------------------|-------------------|
| Driving Manner       | Hand-Operated     |
|                      | Electric-Actuated |
| Design Standard      | DIN3352           |
| Face to Face         | DIN3202           |
| Flange Ends          | DIN2543-2547      |
| Test & Inspection    | DIN3230           |

Notes: The size of serial, valve connecting flange can be design according to customers requirment.

### Products performance specification

| Nominal Pressure (Mpa) | Shell Test (MPa) | Sealing Test (MPa) | Suitable Temp(°C) | Suitable Medium |
|------------------------|------------------|--------------------|-------------------|-----------------|
| 1.6                    | 2.4              | 1.76               | -110~600°C        | Water Oil & Gas |
| 2.5                    | 3.75             | 2.75               |                   |                 |
| 4.0                    | 6.0              | 4.4                |                   |                 |
| 6.4                    | 9.6              | 7.04               |                   |                 |

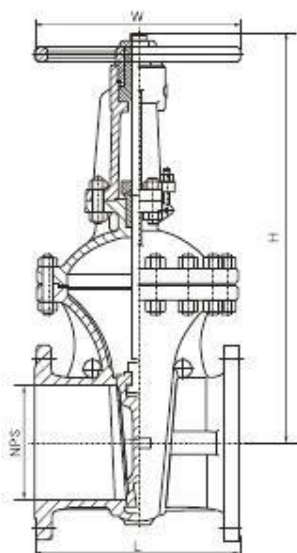
## DIN Gate Valve



### Main part material and property

| Body                    | GS-C25 |        |     |        |        |        |        |        | 1.4308 |        |     |
|-------------------------|--------|--------|-----|--------|--------|--------|--------|--------|--------|--------|-----|
| Disc                    | GS-C25 |        |     | 1.4308 |        | 1.4408 |        | Monel  |        |        |     |
| Stem                    | 13Cr   |        |     | 1.4308 |        | 1.4408 |        | Monel  | F304   |        |     |
| Wedge Disc Sealing Face | 13Cr   | 13Cr   | STL | 1.4308 | STL    | 1.4408 | STL    | Monel  | 1.4308 | 1.4308 | STL |
| Seat Ring Sealing Face  | 13Cr   | STL    | STL | 1.4308 | STL    | 1.4408 | STL    | Monel  | 1.4308 | STL    | STL |
| Body                    | 1.4408 |        |     | 1.4306 |        |        |        | 1.4301 |        |        |     |
| Disc                    |        |        |     |        |        |        |        |        |        |        |     |
| Stem                    | 1.4408 |        |     | 1.4306 |        |        |        | 1.4301 |        |        |     |
| Wedge Disc Sealing Face | 1.4408 | 1.4408 | STL | 1.4306 | 1.4306 | STL    | 1.4301 | 1.4301 | STL    |        |     |
| Seat Ring Sealing Face  | 1.4408 | STL    | STL | 1.4306 | STL    | STL    | 1.4301 | STL    | STL    |        |     |

## Rising Stem Gate Valves DIN F5 Series PN1.6MPa~2.5MPa



### Dimensions data

| Pressure (MPa) |     | PN1.6MPa |     |     |     |     |     |      |      |      |      |      |      |      |     |
|----------------|-----|----------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|-----|
| Size           | mm  | 50       | 65  | 80  | 100 | 125 | 150 | 200  | 250  | 300  | 350  | 400  | 450  | 500  | 600 |
| L              | 250 | 270      | 280 | 300 | 325 | 350 | 400 | 450  | 500  | 550  | 600  | 650  | 700  | 800  |     |
| H              | 417 | 452      | 530 | 607 | 720 | 790 | 885 | 1014 | 1190 | 1350 | 1460 | 1630 | 1800 | 2200 |     |
| W              | 200 | 280      | 280 | 300 | 350 | 350 | 400 | 450  | 500  | 600  | 600  | 650  | 700  | 800  |     |
| Weight(kg)     | 16  | 25       | 30  | 55  | 75  | 98  | 150 | 245  | 353  | 490  | 750  | 985  | 1063 | 1390 |     |

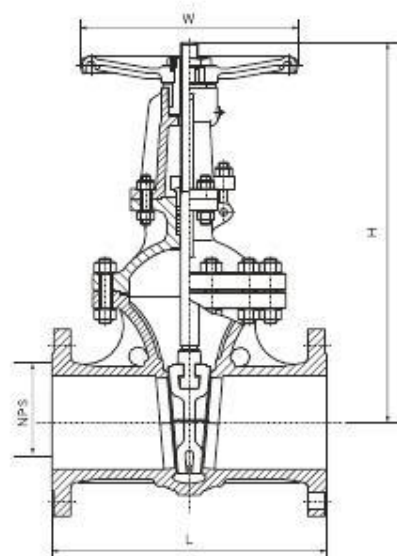
| Pressure (MPa) |     | PN2.5MPa |     |     |     |     |     |      |      |      |      |      |      |      |     |
|----------------|-----|----------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|-----|
| Size           | mm  | 50       | 65  | 80  | 100 | 125 | 150 | 200  | 250  | 300  | 350  | 400  | 450  | 500  | 600 |
| L              | 250 | 270      | 280 | 300 | 325 | 350 | 400 | 450  | 500  | 550  | 600  | 650  | 700  | 800  |     |
| H              | 417 | 452      | 530 | 607 | 720 | 790 | 885 | 1014 | 1190 | 1350 | 1460 | 1630 | 1800 | 2200 |     |
| W              | 200 | 280      | 280 | 300 | 350 | 350 | 400 | 450  | 500  | 600  | 600  | 650  | 700  | 800  |     |
| Weight(kg)     | 16  | 31       | 43  | 58  | 82  | 103 | 180 | 265  | 385  | 547  | 835  | 1050 | 1130 | 1500 |     |

## PN4.0MPa~6.4MPa Rising stem gate valves DIN F7 series

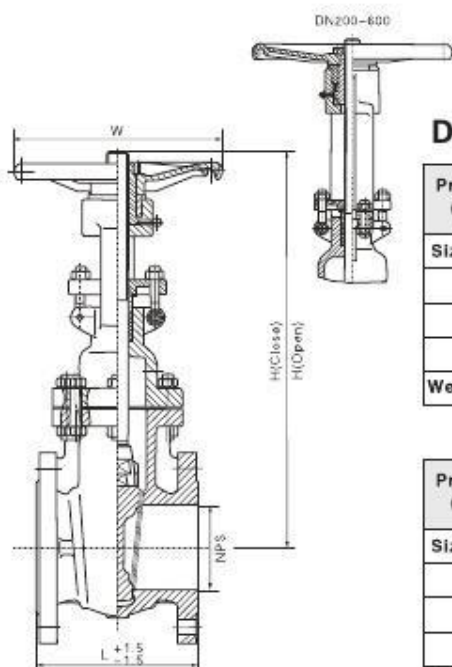
### Dimensions data

| Pressure (MPa) |     | PN4.0MPa |     |     |     |     |     |      |      |      |      |      |      |      |     |
|----------------|-----|----------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|-----|
| Size           | mm  | 50       | 65  | 80  | 100 | 125 | 150 | 200  | 250  | 300  | 350  | 400  | 450  | 500  | 600 |
| L              | 250 | 290      | 310 | 350 | 400 | 450 | 550 | 650  | 750  | 850  | 950  | 1050 | 1150 | 1350 |     |
| H              | 404 | 456      | 604 | 607 | 720 | 780 | 875 | 1260 | 1480 | 1605 | 1788 | 1956 | 2168 | 2601 |     |
| W              | 200 | 280      | 300 | 350 | 350 | 400 | 450 | 500  | 500  | 600  | 650  | 700  | 700  | 800  |     |
| Weight(kg)     | 18  | 32       | 47  | 60  | 95  | 130 | 220 | 290  | 490  | 760  | 900  | 1250 | 1450 | 1700 |     |

| Pressure (MPa) |     | PN6.4MPa |     |     |     |     |     |      |      |      |      |      |      |      |     |
|----------------|-----|----------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|-----|
| Size           | mm  | 50       | 65  | 80  | 100 | 125 | 150 | 200  | 250  | 300  | 350  | 400  | 450  | 500  | 600 |
| L              | 250 | 290      | 310 | 350 | 400 | 450 | 550 | 650  | 750  | 850  | 950  | 1050 | 1150 | 1350 |     |
| H              | 404 | 456      | 604 | 607 | 720 | 780 | 875 | 1260 | 1480 | 1605 | 1788 | 1956 | 2168 | 2601 |     |
| W              | 200 | 280      | 300 | 350 | 350 | 400 | 450 | 500  | 500  | 600  | 650  | 700  | 700  | 800  |     |
| Weight(kg)     | 20  | 35       | 52  | 66  | 103 | 140 | 230 | 300  | 510  | 780  | 940  | 1300 | 1600 | 1850 |     |



## Rising Stem Gate Valves DIN F4 Series PN1.6MPa~2.5MPa



### Dimensions data

| Pressure (MPa) | PN1.6MPa |     |     |     |     |     |     |     |     |      |      |      |      |      |
|----------------|----------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| Size mm        | 50       | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  | 450  | 500  | 600  |
| L              | 150      | 170 | 180 | 190 | 200 | 210 | 230 | 250 | 270 | 290  | 310  | 330  | 350  | 390  |
| H              | 305      | 354 | 402 | 437 | 496 | 541 | 699 | 815 | 914 | 1189 | 1350 | 1680 | 1907 | 2050 |
| W              | 200      | 200 | 750 | 250 | 300 | 350 | 400 | 400 | 450 | 450  | 500  | 500  | 600  | 600  |
| Weight(kg)     | 15       | 17  | 23  | 43  | 51  | 68  | 105 | 176 | 285 | 356  | 568  | 702  | 895  | 1045 |

| Pressure (MPa) | PN2.5MPa |     |     |     |     |     |     |     |     |      |      |      |      |      |
|----------------|----------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| Size mm        | 50       | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  | 450  | 500  | 600  |
| L              | 150      | 170 | 180 | 190 | 200 | 210 | 230 | 250 | 270 | 290  | 310  | 330  | 350  | 390  |
| H              | 325      | 363 | 415 | 453 | 505 | 556 | 744 | 864 | 948 | 1269 | 1450 | 1680 | 1907 | 2050 |
| W              | 200      | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600  | 600  |      | 600  | 600  |
| Weight(kg)     | 20       | 30  | 39  | 58  | 80  | 101 | 190 | 290 | 405 | 510  | 650  | 702  | 895  | 1045 |

## PN1.6MPa~4.0MPa

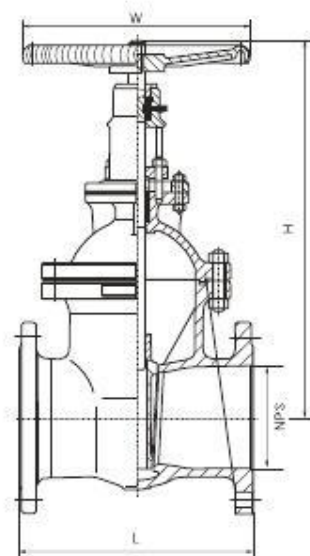
## Non-rising stem gate valves DIN F15 series

### Dimensions data

| Pressure (MPa) | PN1.6MPa |     |     |     |     |     |     |     |     |      |      |  |
|----------------|----------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|--|
| Size mm        | 50       | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  |  |
| L              | 250      | 270 | 280 | 330 | 360 | 390 | 460 | 530 | 630 | 690  | 750  |  |
| H              | 305      | 354 | 402 | 437 | 496 | 541 | 699 | 815 | 914 | 1189 | 1350 |  |
| W              | 200      | 200 | 750 | 250 | 300 | 350 | 400 | 450 | 500 | 550  | 600  |  |
| Weight(kg)     | 20       | 30  | 38  | 56  | 75  | 100 | 182 | 278 | 398 | 500  | 618  |  |

| Pressure (MPa) | PN2.5MPa |     |     |     |     |     |     |     |     |      |      |  |
|----------------|----------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|--|
| Size mm        | 50       | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  |  |
| L              | 250      | 270 | 280 | 330 | 360 | 390 | 460 | 530 | 630 | 690  | 750  |  |
| H              | 325      | 363 | 415 | 453 | 505 | 556 | 744 | 864 | 948 | 1269 | 1450 |  |
| W              | 200      | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600  | 600  |  |
| Weight(kg)     | 20       | 30  | 39  | 58  | 80  | 101 | 190 | 290 | 405 | 510  | 650  |  |

| Pressure (MPa) | PN4.0MPa |     |      |     |     |     |     |       |     |      |      |  |
|----------------|----------|-----|------|-----|-----|-----|-----|-------|-----|------|------|--|
| Size mm        | 50       | 65  | 80   | 100 | 125 | 150 | 200 | 250   | 300 | 350  | 400  |  |
| L              | 250      | 270 | 280  | 330 | 360 | 390 | 460 | 530   | 630 | 690  | 750  |  |
| H              | 325      | 370 | 430  | 480 | 532 | 589 | 783 | 888   | 965 | 1285 | 1512 |  |
| W              | 200      | 200 | 250  | 300 | 350 | 400 | 450 | 500   | 550 | 600  | 600  |  |
| Weight(kg)     | 22       | 31  | 41.5 | 61  | 83  | 110 | 210 | 318.5 | 430 | 520  | 680  |  |



## DIN Globe Valve

### Product structural features

Globe valve seal acc. to DIN is applicable to the cutting and connection of pipelines medium that are used in various industries such as petroleum, chemical industry, pharmacy, chemical fertilizer, electric power industry etc under nominal pressure of PN1.6~16MPa and working temperature within -110~600°C

### Main structural features

- 1.This product has logical structure, reliable seal, excellent performance and nice design.
- 2.The seal surface is build-up welding with Co hard alloy, which is attrition-resistant, corrosion-resistant, has good friction resistant and long life.
- 3.The stem quenched and tempered, and its surface is treated by nitriding treatment, thus it has good corrosion resistant and friction resistant.
- 4.The part material, flange and butt weld end dimension may be selected according to current operating condition and users' requirement, so that meeting the requirements of various engineering.

### Technical specification

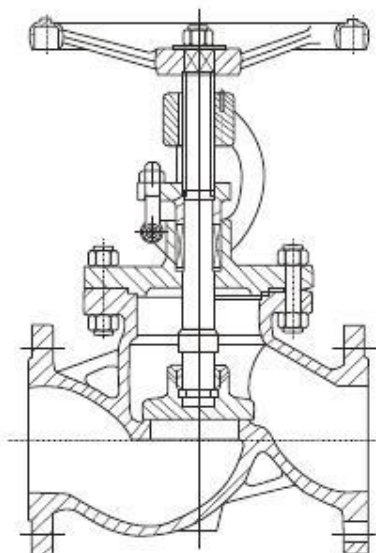
|                      |                   |
|----------------------|-------------------|
| Structural Formation | BB-BG-OS & Y      |
| Driving Manner       | Hand-Operated     |
|                      | Electric-Actuated |
| Design Standard      | DIN3356           |
| Face to Face         | DIN3202           |
| Flange Ends          | DIN2543-2545      |
| Test & Inspection    | DIN3230           |

Notes: The size of serial, valve connecting flange can be design according to customers requirement.

### Products performance specification

| Nominal Pressure (MPa) | Shell Test(MPa) | Sealing Test (MPa) | Suitable Temp(°C) | Suitable Medium |
|------------------------|-----------------|--------------------|-------------------|-----------------|
| 1.6                    | 2.4             | 1.76               | -110~600°C        | Water Oil & Gas |
| 2.5                    | 3.75            | 2.75               |                   |                 |
| 4.0                    | 6.0             | 4.4                |                   |                 |
| 6.4                    | 9.6             | 7.04               |                   |                 |

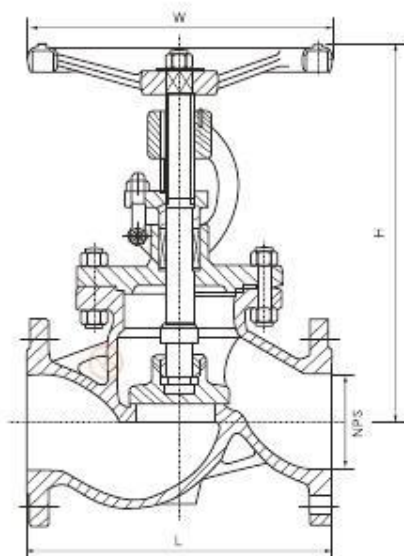
## DIN Globe Valve



### Main part material and property

| Body                    | GS-C25 |        |     |        |        |        |        |        | 1.4308 |        |     |
|-------------------------|--------|--------|-----|--------|--------|--------|--------|--------|--------|--------|-----|
| Disc                    | GS-C25 |        |     | 1.4308 |        | 1.4408 |        | Monel  |        |        |     |
| Stem                    | 13Cr   |        |     | 1.4308 |        | 1.4408 |        | Monel  | F304   |        |     |
| Wedge Disc Sealing Face | 13Cr   | 13Cr   | STL | 1.4308 | STL    | 1.4408 | STL    | Monel  | 1.4308 | 1.4308 | STL |
| Seat Ring Sealing Face  | 13Cr   | STL    | STL | 1.4308 | STL    | 1.4408 | STL    | Monel  | 1.4308 | STL    | STL |
| Body                    | 1.4408 |        |     | 1.4306 |        |        | 1.4301 |        |        |        |     |
| Disc                    |        |        |     |        |        |        |        |        |        |        |     |
| Stem                    | 1.4408 |        |     | 1.4306 |        |        | 1.4301 |        |        |        |     |
| Wedge Disc Sealing Face | 1.4408 | 1.4408 | STL | 1.4306 | 1.4306 | STL    | 1.4301 | 1.4301 | STL    |        |     |
| Seat Ring Sealing Face  | 1.4408 | STL    | STL | 1.4306 | STL    | STL    | 1.4301 | STL    | STL    |        |     |

## DIN Globe Valve F1 Series PN1.6MPa~4.0MPa



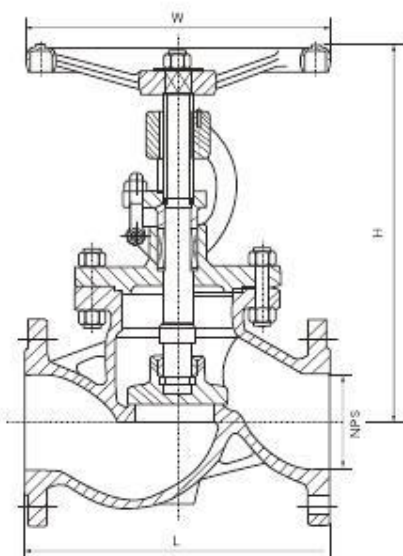
### Dimensions data

| Pressure(MPa) |    | PN1.6MPa |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|---------------|----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Size          | mm | 15       | 20  | 25  | 32  | 40  | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  |
| L             |    | 130      | 150 | 160 | 180 | 200 | 230 | 290 | 310 | 350 | 400 | 480 | 600 | 730 | 850 | 980  | 1100 |
| H             |    | 240      | 260 | 276 | 285 | 300 | 305 | 354 | 402 | 437 | 496 | 541 | 699 | 815 | 914 | 1189 | 1350 |
| W             |    | 120      | 140 | 160 | 160 | 180 | 200 | 200 | 250 | 250 | 300 | 350 | 400 | 450 | 500 | 550  | 600  |
| Weight(kg)    |    | 5.2      | 7.1 | 7.4 | 8.5 | 13  | 20  | 25  | 35  | 50  | 75  | 100 | 210 | 446 | 648 | 805  | 1050 |

| Pressure(MPa) |    | PN2.5MPa |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|---------------|----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Size          | mm | 15       | 20  | 25  | 32  | 40  | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  |
| L             |    | 130      | 150 | 160 | 180 | 200 | 230 | 290 | 310 | 350 | 400 | 480 | 600 | 730 | 850 | 980  | 1100 |
| H             |    | 240      | 260 | 276 | 285 | 300 | 325 | 363 | 415 | 453 | 505 | 556 | 744 | 864 | 948 | 1269 | 1450 |
| W             |    | 120      | 140 | 160 | 160 | 180 | 200 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600  | 600  |
| Weight(kg)    |    | 6        | 7.5 | 8   | 9   | 14  | 22  | 27  | 38  | 55  | 82  | 105 | 220 | 450 | 660 | 810  | 1100 |

| Pressure(MPa) |    | PN4.0MPa |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|---------------|----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Size          | mm | 15       | 20  | 25  | 32  | 40  | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  |
| L             |    | 130      | 150 | 160 | 180 | 200 | 230 | 290 | 310 | 350 | 400 | 480 | 600 | 730 | 850 | 980  | 1100 |
| H             |    | 240      | 260 | 276 | 285 | 300 | 325 | 370 | 430 | 480 | 532 | 589 | 783 | 888 | 965 | 1285 | 1512 |
| W             |    | 120      | 140 | 160 | 160 | 180 | 200 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600  | 600  |
| Weight(kg)    |    | 6        | 7.5 | 8   | 9   | 15  | 24  | 30  | 41  | 60  | 85  | 110 | 225 | 460 | 670 | 830  | 1120 |

## DIN Globe Valve F2 Series PN6.4MPa~16.0MPa



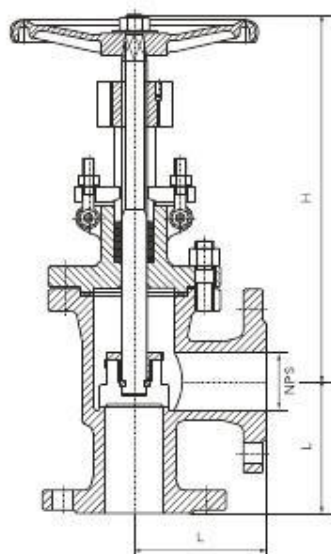
### Dimensions data

| Pressure(MPa) |    | PN6.4MPa |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|---------------|----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Size          | mm | 15       | 20  | 25  | 32  | 40  | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  |
| L             |    | 130      | 150 | 160 | 180 | 200 | 300 | 340 | 380 | 430 | 500 | 550 | 650 | 775 | 900 | 1025 | 1150 |
| H             |    | 240      | 260 | 276 | 285 | 300 | 305 | 354 | 402 | 437 | 496 | 541 | 699 | 815 | 914 | 1189 | 1350 |
| W             |    | 120      | 140 | 160 | 160 | 180 | 200 | 200 | 750 | 250 | 300 | 350 | 400 | 450 | 500 | 550  | 600  |
| Weight(kg)    |    | 8        | 10  | 12  | 16  | 17  | 26  | 33  | 45  | 65  | 90  | 120 | 230 | 470 | 680 | 850  | 1130 |

| Pressure(MPa) |    | PN10.0MPa |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|---------------|----|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Size          | mm | 15        | 20  | 25  | 32  | 40  | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  |
| L             |    | 130       | 150 | 160 | 180 | 200 | 300 | 340 | 380 | 450 | 500 | 550 | 650 | 775 | 900 | 1025 | 1250 |
| H             |    | 240       | 260 | 276 | 285 | 300 | 325 | 363 | 415 | 453 | 505 | 556 | 744 | 864 | 948 | 1269 | 1450 |
| W             |    | 120       | 140 | 160 | 160 | 180 | 200 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600  | 600  |
| Weight(kg)    |    | 8         | 10  | 13  | 17  | 19  | 27  | 34  | 46  | 67  | 95  | 125 | 235 | 480 | 690 | 860  | 1150 |

| Pressure(MPa) |    | PN16.0MPa |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|---------------|----|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Size          | mm | 15        | 20  | 25  | 32  | 40  | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  |
| L             |    | 130       | 150 | 160 | 180 | 200 | 300 | 340 | 380 | 450 | 500 | 550 | 650 | 775 | 900 | 1025 | 1250 |
| H             |    | 240       | 260 | 276 | 285 | 300 | 325 | 370 | 430 | 480 | 532 | 589 | 783 | 888 | 965 | 1285 | 1512 |
| W             |    | 120       | 140 | 160 | 160 | 180 | 200 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600  | 600  |
| Weight(kg)    |    | 8         | 10  | 13  | 17  | 20  | 28  | 35  | 49  | 70  | 100 | 130 | 245 | 490 | 710 | 890  | 1190 |

## DIN Angle Globe Valve F32 Series PN1.6MPa~4.0MPa



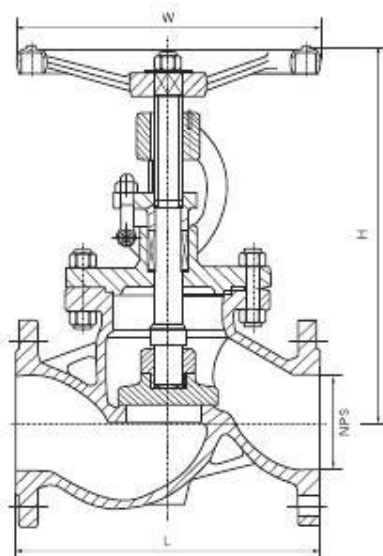
### Dimensions data

| Pressure(MPa) |    | PN1.6MPa |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|---------------|----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Size          | mm | 15       | 20  | 25  | 32  | 40  | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  |
| L             |    | 90       | 95  | 100 | 105 | 115 | 250 | 270 | 280 | 330 | 360 | 390 | 460 | 530 | 630 | 690  | 750  |
| H             |    | 246      | 260 | 276 | 285 | 300 | 305 | 354 | 402 | 437 | 496 | 541 | 699 | 815 | 914 | 1189 | 1350 |
| W             |    | 120      | 140 | 160 | 160 | 180 | 200 | 200 | 750 | 250 | 300 | 350 | 400 | 450 | 500 | 550  | 600  |
| Weight(kg)    |    | 6        | 7.5 | 8   | 9   | 14  | 22  | 27  | 38  | 55  | 82  | 105 | 220 | 450 | 660 | 810  | 1100 |

| Pressure(MPa) |    | PN2.5MPa |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|---------------|----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Size          | mm | 15       | 20  | 25  | 32  | 40  | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  |
| L             |    | 90       | 95  | 100 | 105 | 115 | 250 | 270 | 280 | 330 | 360 | 390 | 460 | 530 | 630 | 690  | 750  |
| H             |    | 246      | 260 | 276 | 285 | 300 | 325 | 363 | 415 | 453 | 505 | 556 | 744 | 864 | 948 | 1269 | 1450 |
| W             |    | 120      | 140 | 160 | 160 | 180 | 200 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600  | 600  |
| Weight(kg)    |    | 6        | 7.5 | 8   | 9   | 15  | 24  | 30  | 41  | 60  | 85  | 110 | 225 | 460 | 670 | 830  | 1120 |

| Pressure(MPa) |    | PN4.0MPa |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|---------------|----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Size          | mm | 15       | 20  | 25  | 32  | 40  | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  |
| L             |    | 90       | 95  | 100 | 105 | 115 | 250 | 270 | 280 | 330 | 360 | 390 | 460 | 530 | 630 | 690  | 750  |
| H             |    | 246      | 260 | 276 | 285 | 300 | 325 | 370 | 430 | 480 | 532 | 589 | 783 | 888 | 965 | 1285 | 1512 |
| W             |    | 120      | 140 | 160 | 160 | 180 | 200 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600  | 600  |
| Weight(kg)    |    | 8        | 10  | 12  | 16  | 17  | 26  | 33  | 45  | 65  | 90  | 120 | 230 | 470 | 680 | 850  | 1130 |

## DIN Stop Globe Valve F1 Series PN1.6MPa~4.0MPa



### Dimensions data

| Pressure(MPa) |    | PN1.6MPa |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|---------------|----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Size          | mm | 15       | 20  | 25  | 32  | 40  | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  |
| L             |    | 130      | 150 | 160 | 180 | 200 | 230 | 290 | 310 | 350 | 400 | 480 | 600 | 730 | 850 | 980  | 1100 |
| H             |    | 240      | 260 | 276 | 285 | 300 | 305 | 354 | 402 | 437 | 496 | 541 | 699 | 815 | 914 | 1189 | 1350 |
| W             |    | 120      | 140 | 160 | 160 | 180 | 200 | 200 | 250 | 250 | 300 | 350 | 400 | 450 | 500 | 550  | 600  |
| Weight(kg)    |    | 5.2      | 7.1 | 7.4 | 8.5 | 13  | 20  | 25  | 35  | 50  | 75  | 100 | 210 | 446 | 648 | 805  | 1050 |

| Pressure(MPa) |    | PN2.5MPa |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|---------------|----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Size          | mm | 15       | 20  | 25  | 32  | 40  | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  |
| L             |    | 130      | 150 | 160 | 180 | 200 | 230 | 290 | 310 | 350 | 400 | 480 | 600 | 730 | 850 | 980  | 1100 |
| H             |    | 240      | 260 | 276 | 285 | 300 | 325 | 363 | 415 | 453 | 505 | 556 | 744 | 864 | 948 | 1269 | 1450 |
| W             |    | 120      | 140 | 160 | 160 | 180 | 200 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600  | 600  |
| Weight(kg)    |    | 6        | 7.5 | 8   | 9   | 14  | 22  | 27  | 38  | 55  | 82  | 105 | 220 | 450 | 660 | 810  | 1100 |

| Pressure(MPa) |    | PN4.0MPa |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|---------------|----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Size          | mm | 15       | 20  | 25  | 32  | 40  | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  |
| L             |    | 130      | 150 | 160 | 180 | 200 | 230 | 290 | 310 | 350 | 400 | 480 | 600 | 730 | 850 | 980  | 1100 |
| H             |    | 240      | 260 | 276 | 285 | 300 | 325 | 370 | 430 | 480 | 532 | 589 | 783 | 888 | 965 | 1285 | 1512 |
| W             |    | 120      | 140 | 160 | 160 | 180 | 200 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600  | 600  |
| Weight(kg)    |    | 6        | 7.5 | 8   | 9   | 15  | 24  | 30  | 41  | 60  | 85  | 110 | 225 | 460 | 670 | 830  | 1120 |

## DIN Check Valve

### Product structural features

Check valve seal acc. to DIN is applicable to the cutting and connection of pipelines medium that are used in various industries such as petroleum, chemical industry, pharmacy, chemical fertilizer, electric power industry, etc under nominal pressure of PN1.6~16MPa, and working temperature within -110~600°C

### Main structural features

- 1.This product has logical structure, reliable seal, excellent performance and nice design.
- 2.The seal surface is build-up welding with Co hard alloy, which is attrition-resistant, corrosion-resistant, has good friction resistant and long life.
- 3.The part material, flange and butt weld end dimension may be selected according to current operating condition and users' requirement, so that meeting the requirements of various engineering.

### Technical specification

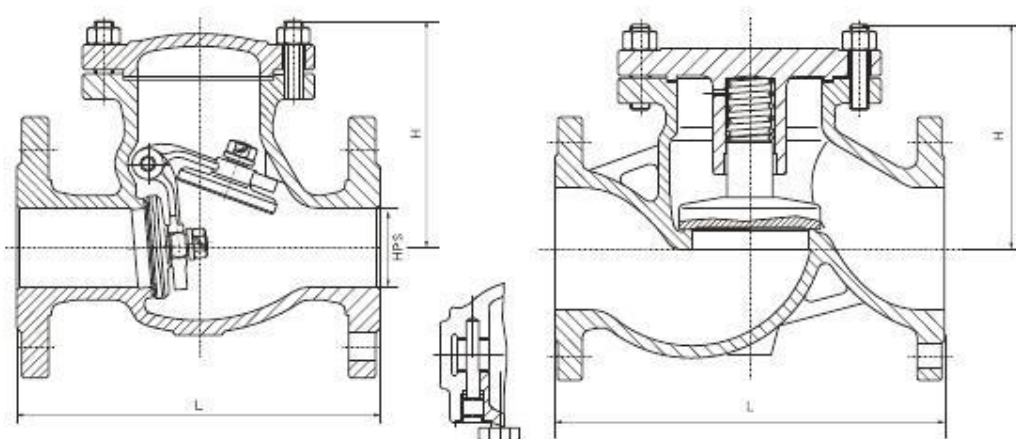
|                      |                   |
|----------------------|-------------------|
| Structural Formation | BB-BG-OS & Y      |
| Driving Manner       | Hand-Operated     |
|                      | Electric-Actuated |
| Design Standard      | DIN3356           |
| Face to Face         | DIN3202           |
| Flange Ends          | DIN2543-2547      |
| Test & Inspection    | DIN3230           |

Notes: The size of serial, valve connecting flange can be design according to customers requirement.

### Products performance specification

| Nominal Pressure (MPa) | Shell Test (MPa) | Sealing Test (MPa) | Suitable Temp(°C) | Suitable Medium |
|------------------------|------------------|--------------------|-------------------|-----------------|
| 1.6                    | 2.4              | 1.76               | -110~600°C        | Water Oil & Gas |
| 2.5                    | 3.75             | 2.75               |                   |                 |
| 4.0                    | 6.0              | 4.4                |                   |                 |
| 6.4                    | 9.6              | 7.04               |                   |                 |

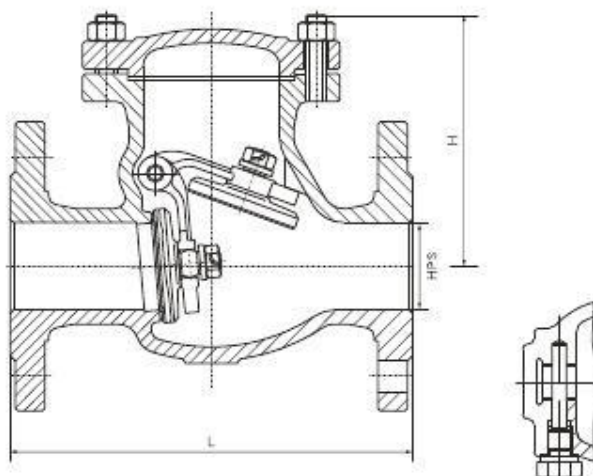
## DIN Check Valve



### Main part material and property

| Body                    | GS-C25 |        |     |        |        |        |        |        | 1.4308 |        |     |
|-------------------------|--------|--------|-----|--------|--------|--------|--------|--------|--------|--------|-----|
| Disc                    | GS-C25 |        |     | 1.4308 |        | 1.4408 |        | Monel  |        |        |     |
| Wedge Disc Sealing Face | 13Cr   | 13Cr   | STL | 1.4308 | STL    | 1.4408 | STL    | Monel  | 1.4308 | 1.4308 | STL |
| Seat Ring Sealing Face  | 13Cr   | STL    | STL | 1.4308 | STL    | 1.4408 | STL    | Monel  | 1.4308 | STL    | STL |
| Body                    | 1.4408 |        |     | 1.4306 |        |        |        | 1.4301 |        |        |     |
| Disc                    |        |        |     |        |        |        |        |        |        |        |     |
| Wedge Disc Sealing Face | 1.4408 | 1.4408 | STL | 1.4306 | 1.4306 | STL    | 1.4301 | 1.4301 | STL    |        |     |
| Seat Ring Sealing Face  | 1.4408 | STL    | STL | 1.4306 | STL    | STL    | 1.4301 | STL    | STL    |        |     |

## DIN Swing Check Valve F6 Series PN1.6MPa~4.0MPa



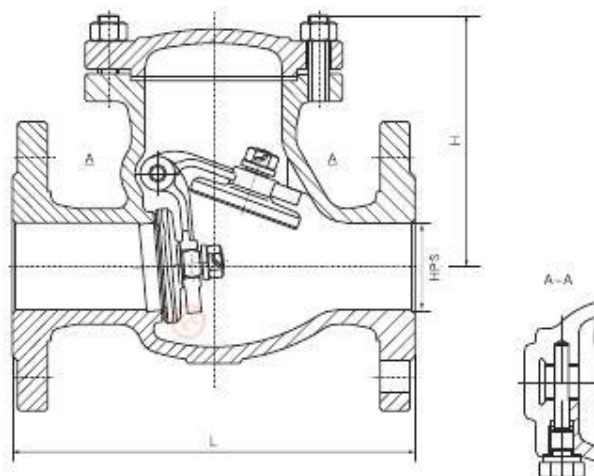
### Dimensions data

| Pressure(MPa) |    | PN1.6MPa |     |     |     |     |     |     |     |     |      |      |
|---------------|----|----------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Size          | mm | 50       | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  |
| L             |    | 200      | 240 | 260 | 300 | 350 | 400 | 500 | 600 | 700 | 800  | 900  |
| H             |    | 305      | 354 | 402 | 437 | 496 | 541 | 699 | 815 | 914 | 1189 | 1350 |
| Weight(kg)    |    | 21       | 28  | 38  | 58  | 92  | 130 | 210 | 295 | 365 | 410  | 460  |

| Pressure(MPa) |    | PN2.5MPa |     |     |     |     |     |     |     |     |      |      |
|---------------|----|----------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Size          | mm | 50       | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  |
| L             |    | 200      | 240 | 260 | 300 | 350 | 400 | 500 | 600 | 700 | 800  | 900  |
| H             |    | 325      | 363 | 415 | 453 | 505 | 556 | 744 | 864 | 948 | 1269 | 1450 |
| Weight(kg)    |    | 22       | 29  | 38  | 61  | 96  | 132 | 213 | 297 | 375 | 415  | 480  |

| Pressure(MPa) |    | PN4.0MPa |     |      |     |     |     |     |     |     |      |      |
|---------------|----|----------|-----|------|-----|-----|-----|-----|-----|-----|------|------|
| Size          | mm | 50       | 65  | 80   | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  |
| L             |    | 200      | 240 | 260  | 300 | 350 | 400 | 500 | 600 | 700 | 800  | 900  |
| H             |    | 325      | 370 | 430  | 480 | 532 | 589 | 783 | 888 | 965 | 1285 | 1512 |
| Weight(kg)    |    | 22       | 31  | 41.5 | 65  | 100 | 136 | 220 | 305 | 400 | 450  | 510  |

## DIN Swing Check Valve F1 Series PN6.4MPa~16.0MPa



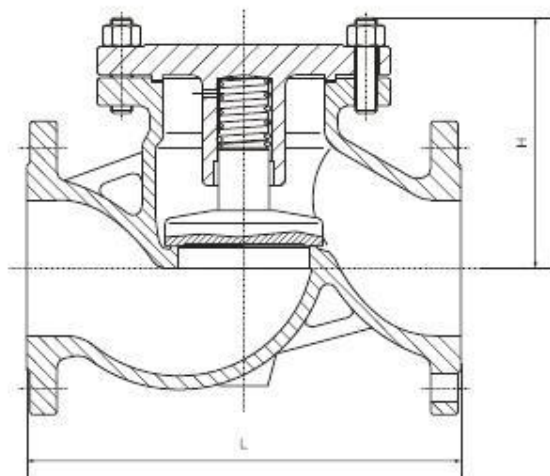
### Dimensions data

| Pressure(MPa) |    | PN6.4MPa |     |     |     |     |     |     |     |     |      |      |
|---------------|----|----------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Size          | mm | 50       | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  |
| L             |    | 250      | 270 | 280 | 330 | 360 | 390 | 460 | 530 | 630 | 690  | 750  |
| H             |    | 305      | 354 | 402 | 437 | 496 | 541 | 699 | 815 | 914 | 1189 | 1350 |
| Weight(kg)    |    | 27       | 37  | 57  | 87  | 135 | 184 | 266 | 396 | 643 | 815  | 1230 |

| Pressure(MPa) |    | PN10.0MPa |     |     |     |     |     |     |     |     |      |      |
|---------------|----|-----------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Size          | mm | 50        | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  |
| L             |    | 250       | 270 | 280 | 330 | 360 | 390 | 460 | 530 | 630 | 690  | 750  |
| H             |    | 325       | 363 | 415 | 453 | 505 | 556 | 744 | 864 | 948 | 1269 | 1450 |
| Weight(kg)    |    | 30        | 40  | 60  | 92  | 140 | 195 | 280 | 406 | 670 | 850  | 1260 |

| Pressure(MPa) |    | PN16.0MPa |     |     |     |     |     |     |     |     |      |      |
|---------------|----|-----------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Size          | mm | 50        | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  |
| L             |    | 250       | 270 | 280 | 330 | 360 | 390 | 460 | 530 | 630 | 690  | 750  |
| H             |    | 325       | 370 | 430 | 480 | 532 | 589 | 783 | 888 | 965 | 1285 | 1512 |
| Weight(kg)    |    | 32        | 42  | 63  | 95  | 145 | 200 | 289 | 415 | 685 | 880  | 1300 |

## DIN Lift Check Valve F1 Series PN1.6MPa~4.0MPa



### Dimensions data

| Pressure(MPa) |    | PN1.6MPa |     |     |     |     |     |     |     |     |      |      |
|---------------|----|----------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Size          | mm | 50       | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  |
| L             |    | 230      | 290 | 310 | 350 | 400 | 480 | 600 | 730 | 850 | 980  | 1100 |
| H             |    | 305      | 354 | 402 | 437 | 496 | 541 | 699 | 815 | 914 | 1189 | 1350 |
| Weight(kg)    |    | 10       | 20  | 30  | 39  | 50  | 70  | 161 | 251 | 395 | 500  | 618  |

| Pressure(MPa) |    | PN2.5MPa |     |     |     |     |     |     |     |     |      |      |
|---------------|----|----------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Size          | mm | 50       | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  |
| L             |    | 230      | 290 | 310 | 350 | 400 | 480 | 600 | 730 | 850 | 980  | 1100 |
| H             |    | 325      | 363 | 415 | 453 | 505 | 556 | 744 | 864 | 948 | 1269 | 1450 |
| Weight(kg)    |    | 12       | 22  | 33  | 44  | 55  | 78  | 180 | 270 | 410 | 520  | 650  |

| Pressure(MPa) |    | PN4.0MPa |     |     |     |     |     |     |     |     |      |      |
|---------------|----|----------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Size          | mm | 50       | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  |
| L             |    | 230      | 290 | 310 | 350 | 400 | 480 | 600 | 730 | 850 | 980  | 1100 |
| H             |    | 325      | 370 | 430 | 480 | 532 | 589 | 783 | 888 | 965 | 1285 | 1512 |
| Weight(kg)    |    | 13       | 23  | 34  | 46  | 60  | 85  | 190 | 280 | 430 | 550  | 680  |

# Bellows Gate Valve

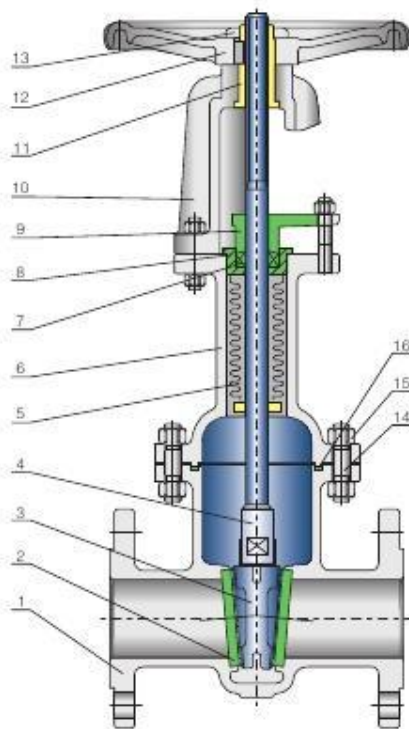
## Applicable Standards :

DESIGN AND MANUFACTURE ON THE BASIS OF API 600 , ASME B16.34

CONNECTION SIZE ON THE BASIS OF ASME B16.5 , EN 1092

STRUCTURAL DIMENSION ON THE BASIS OF ASME B16.10 , EN 588-1 , DIN 3202

TEST AND INSPECTION ON THE BASIS OF ISO 5208 , API 598 , EN 12266



| No | Part Name | No | Part Name    |
|----|-----------|----|--------------|
| 1  | Body      | 9  | Gland Flange |
| 2  | Seat      | 10 | Yoke         |
| 3  | Disc      | 11 | Stem Nut     |
| 4  | Stem      | 12 | Handwheel    |
| 5  | Bellows   | 13 | Locknut      |
| 6  | Bonnet    | 14 | Bolt         |
| 7  | Packings  | 15 | Nut          |
| 8  | Gland     | 16 | Gasket       |

## Product Features:

Bellows globe valve adopts sealed structure. In common valves, the packing seal of the stem ages fast and it is easy to leak, but this design totally eliminates these shortcomings. Apart from increasing the efficiency of materials and the safety of production equipment, it not only reduces maintenance costs and frequent maintenance of products but also provides a clean and safe working environment.

Double seal design (bellows and packings): if the bellows invalidates, the stem packings will prevent outside leaking. There are no fluid loss, but it reduces the energy loss and improves the equipment safety.

Longer service life, less maintenance and lower operating costs.

Firm and durable seal design of bellows ensures the zero leakage of stem and provides more reliable performance and no maintenance. Quenched stem and surface nitridation with good performance of corrosion and friction resistance.

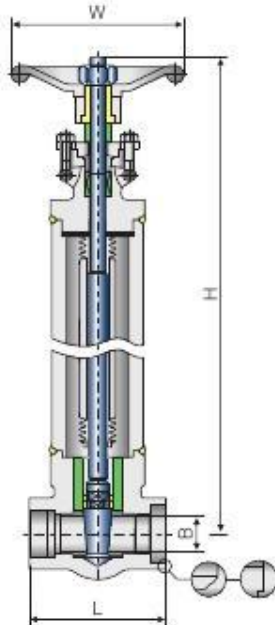
Excellent performance, graceful outline, and more visibility with position indicating of stem.

## Materials of parts

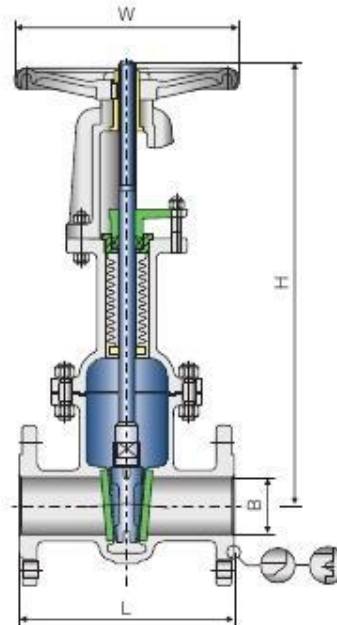
|          |                                             |
|----------|---------------------------------------------|
| Body     | GS-C25/WCB/CF8M/CF8/CF3M/CF3/CD3MN          |
| Seat     | A105/F316/F304/F316L/F304L/F51              |
| Disc     | GS-C25/WCB/CF8M/CF8/CF3M/CF3/CD3MN          |
| Bellows  | 304/316/316L/304L/S31803                    |
| Stem     | F6a/F304/F316/F304L/F316L/F51/Monel         |
| Bonnet   | GS-C25/WCB/CF8M/CF8/CF3M/CF3/CD3MN          |
| Bolt     | B7M/B8M/L7M/B16M                            |
| Nut      | 2HM/8M/7M/4M                                |
| Gland    | 410/304/316/304L/316L                       |
| Stem Nut | C95200/D2/A536                              |
| Gasket   | Flexible graphite+304/Flexible graphite+316 |
| Packings | Flexible graphite                           |

Materials can be altered according to the customers' requirement and valves' performances.

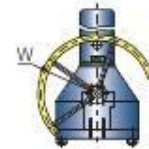
## Bellows Gate Valve



Structure of Forged steel valve(1/2"-2")



Structure of Cast steel valve(2"-16")



### Main Dimensional Parameter

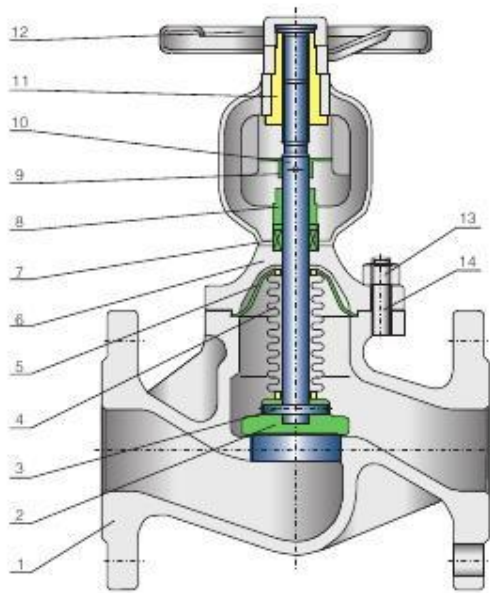
| Class 150 |    |         |         |         |         |          |          |     |      |         |         |         |         |          |          |
|-----------|----|---------|---------|---------|---------|----------|----------|-----|------|---------|---------|---------|---------|----------|----------|
| NPS       | DN | L<br>mm | B<br>mm | H<br>mm | W<br>mm | WT<br>Kg | T<br>N.M | NPS | DN   | L<br>mm | B<br>mm | H<br>mm | W<br>mm | WT<br>Kg | T<br>N.M |
| 1/2       | 15 | 79      | 10      | 200     | 100     | 7        | 13       | 3   | 80   | 203     | 76      | 444     | 250     | 53       | 36       |
| 3/4       | 20 | 92      | 13      | 212     | 120     | 8        | 17       | 4   | 100  | 229     | 102     | 492     | 280     | 68       | 65       |
|           | 25 | 111     | 18      | 248     | 125     | 9        | 22       | 6   | 150  | 267     | 152     | 585     | 300     | 142      | 88       |
| 1         | 32 | 120     | 24      | 263     | 160     | 13       | 25       | 8   | 200  | 292     | 201     | 677     | 350     | 188      | 155      |
| 1 1/4     | 40 | 120     | 29      | 290     | 160     | 20       | 27       | 10  | 250  | 330     | 252     | 766     | 400     | 255      | 205      |
| 1 1/2     | 50 | 178     | 51      | 375     | 200     | 29       | 31       | 12  | ★300 | 356     | 303     | 845     | 450     | 355      | 319      |
| 2         | 65 | 190     | 65      | 400     | 220     | 40       | 32       | 14  | ★350 | 381     | 337     | 903     | 500     | 420      | 369      |
| Class 300 |    |         |         |         |         |          |          |     |      |         |         |         |         |          |          |
| NPS       | DN | L<br>mm | B<br>mm | H<br>mm | W<br>mm | WT<br>Kg | T<br>N.M | NPS | DN   | L<br>mm | B<br>mm | H<br>mm | W<br>mm | WT<br>Kg | T<br>N.M |
| 1/2       | 15 | 79      | 10      | 200     | 100     | 7        | 14       | 3   | 80   | 203     | 76      | 444     | 250     | 78       | 52       |
| 3/4       | 20 | 92      | 13      | 212     | 120     | 8        | 18       | 4   | 100  | 229     | 102     | 492     | 280     | 95       | 103      |
|           | 25 | 111     | 18      | 248     | 125     | 9        | 25       | 6   | 150  | 267     | 152     | 585     | 350     | 185      | 209      |
| 1         | 32 | 120     | 24      | 263     | 160     | 13       | 28       | 8   | 200  | 292     | 201     | 677     | 400     | 230      | 311      |
| 1 1/4     | 40 | 120     | 29      | 290     | 160     | 20       | 36       | 10  | 250  | 330     | 252     | 766     | 450     | 360      | 524      |
| 1 1/2     | 50 | 178     | 51      | 375     | 200     | 40       | 40       | 12  | ★300 | 356     | 303     | 845     | 500     | 480      | 706      |
| 2         | 65 | 190     | 65      | 400     | 220     | 56       | 45       | 14  | ★350 | 381     | 337     | 903     | 560     | 705      | 1031     |
| Class 300 |    |         |         |         |         |          |          |     |      |         |         |         |         |          |          |
| NPS       | DN | L<br>mm | B<br>mm | H<br>mm | W<br>mm | WT<br>Kg | T<br>N.M | NPS | DN   | L<br>mm | B<br>mm | H<br>mm | W<br>mm | WT<br>Kg | T<br>N.M |
| 1/2       | 15 | 79      | 10      | 200     | 100     | 7        | 17       | 3   | 80   | 203     | 76      | 444     | 280     | 90       | 122      |
| 3/4       | 20 | 92      | 13      | 212     | 120     | 8        | 22       | 4   | 100  | 229     | 102     | 492     | 350     | 130      | 166      |
|           | 25 | 111     | 18      | 248     | 125     | 9        | 28       | 6   | 150  | 267     | 152     | 585     | 450     | 290      | 446      |
| 1         | 32 | 120     | 24      | 263     | 160     | 13       | 32       | 8   | 200  | 292     | 201     | 677     | 560     | 480      | 659      |
| 1 1/4     | 40 | 120     | 29      | 290     | 160     | 20       | 49       | 10  | 250  | 330     | 252     | 766     | 600     | 750      | 1168     |
| 1 1/2     | 50 | 178     | 51      | 375     | 250     | 52       | 56       | ★12 | ★300 | 356     | 303     | 845     | 460     | 920      | 1586     |
| 2         | 65 | 190     | 65      | 400     | 250     | 71       | 95       | ★14 | ★350 | 381     | 337     | 903     | 460     | 1120     | 2412     |

Insulation: ★ Means that it is operated by wormwheel.

# Bellows Globe Valve

## Applicable Standards :

DESIGN & MANUFACTURE CONFORM WITH: EN 13709, ASME B16.34  
 CONNECTION DIMENSION CONFORMS WITH: EN 1092, ASME B16.5  
 INSPECTION & TEST CONFORMS WITH: EN 588-1, DIN 3202, ASME B16.10  
 MATERIAL CONFORMS WITH: EN 12266, ISO 5208, API 598



| No | Part Name | No | Part Name     |
|----|-----------|----|---------------|
| 1  | Body      | 8  | Gland Bushing |
| 2  | Disc      | 9  | Guide Member  |
| 3  | Pin       | 10 | Stem          |
| 4  | Bellow    | 11 | Stem Nut      |
| 5  | Gasket    | 12 | Handwheel     |
| 6  | Bonnet    | 13 | Nut           |
| 7  | Packing   | 14 | Bolt          |

## Features and Application:

Bellows globe valve adopts sealed structure. In common valves, the packing seal of the stem ages fast and it is easy to leak, but this design totally eliminates these shortcomings. Apart from increasing the efficiency of materials and the safety of production equipment, it not only reduces maintenance costs and frequent maintenance of products but also provides a clean and safe working environment.

Double seal design (bellows and packings), if the bellows invalidates, the stem packings will prevent outside leaking. There are no fluid loss, but it reduces the energy loss and improves the equipment safety.

Longer service life, less maintenance and lower operating costs. Firm and durable seal design of bellows ensures the zero leakage of stem and provides more reliable performance and no maintenance.

Quenched stem and surface nitridation with good performance of corrosion and friction resistance.

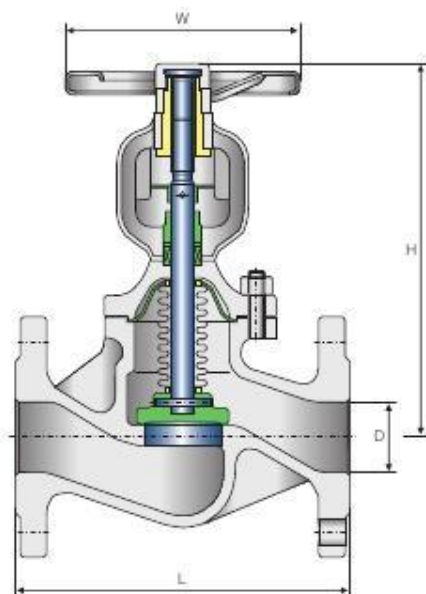
Excellent performance, graceful outline, and more visibility with position indicating of stem.

## Materials of parts

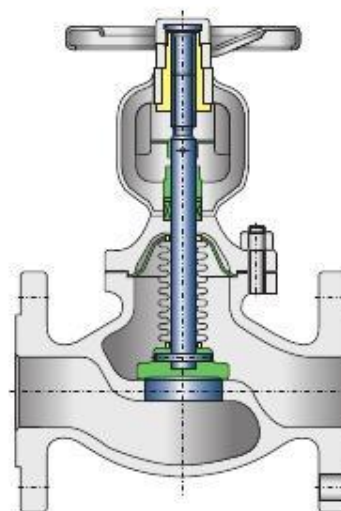
|               |                                             |
|---------------|---------------------------------------------|
| Body          | GS-C25/WCB/CF8M/CF8/CF3M/CF3/CD3MN          |
| Disc          | A105/F316/F304/F316L/F304L/F51              |
| Bellow        | 304/316/316L/304L/S31803                    |
| Stem          | F6a/F304/F316/F304L/F316L/F51/Monel         |
| Bonnet        | GS-C25/WCB/CF8M/CF8/CF3M/CF3/CD3MN          |
| Bolt          | B7M/B8M/L7M/B16M                            |
| Nut           | 2HM/8M/7M/4M                                |
| Gland Bushing | 410/304/316/304L/316L                       |
| Stem Nut      | C95200/D2/A536                              |
| Gasket        | Flexible graphite+304/Flexible graphite+316 |
| Packing       | Flexible graphite                           |

Materials could be choosed according to customers' requirement & working condition.

## Bellows Globe Valve



DIN Structure



API Structure

### Dimensional datas

| PN 16 |    |         |         |         |         |          |          |     |       |         |         |         |         |          |          |
|-------|----|---------|---------|---------|---------|----------|----------|-----|-------|---------|---------|---------|---------|----------|----------|
| NPS   | DN | L<br>mm | D<br>mm | H<br>mm | W<br>mm | WT<br>Kg | T<br>N.M | NPS | DN    | L<br>mm | D<br>mm | H<br>mm | W<br>mm | WT<br>Kg | T<br>N.M |
| 1/2   | 15 | 130     | 15      | 174     | 100     | 3.5      | 14       | 4   | 100   | 350     | 100     | 345     | 280     | 50       | 127      |
| 3/4   | 20 | 150     | 20      | 176     | 125     | 4        | 18       | 5   | 125   | 400     | 125     | 370     | 320     | 65       | 209      |
| 1     | 25 | 160     | 25      | 207     | 160     | 6        | 23       | 6   | 150   | 480     | 150     | 430     | 350     | 84       | 319      |
| 1 1/4 | 32 | 180     | 32      | 207     | 160     | 10       | 26       | 8   | 200   | 600     | 200     | 488     | 400     | 150      | 408      |
| 1 1/2 | 40 | 200     | 40      | 210     | 180     | 13       | 31       | 10  | 250   | 730     | 250     | 530     | 500     | 240      | 885      |
| 2     | 50 | 230     | 50      | 225     | 200     | 19       | 49       | 12  | ★ 300 | 850     | 300     | 600     | 460     | 360      | 1129     |
| 2 1/2 | 65 | 290     | 65      | 250     | 220     | 26       | 62       | 14  | ★ 350 | 980     | 350     | 700     | 600     | 490      | 1515     |
| 3     | 80 | 310     | 80      | 260     | 240     | 30       | 103      | 16  | ★ 400 | 1150    | 400     | 800     | 700     | 600      | 1805     |
| PN 25 |    |         |         |         |         |          |          |     |       |         |         |         |         |          |          |
| NPS   | DN | L<br>mm | D<br>mm | H<br>mm | W<br>mm | WT<br>Kg | T<br>N.M | NPS | DN    | L<br>mm | D<br>mm | H<br>mm | W<br>mm | WT<br>Kg | T<br>N.M |
| 1/2   | 15 | 130     | 15      | 174     | 100     | 3.5      | 18       | 4   | 100   | 350     | 100     | 345     | 280     | 65       | 140      |
| 3/4   | 20 | 150     | 20      | 176     | 125     | 4        | 23       | 5   | 125   | 400     | 125     | 370     | 320     | 85       | 222      |
| 1     | 25 | 160     | 25      | 207     | 160     | 6        | 30       | 6   | 150   | 480     | 150     | 430     | 350     | 109      | 341      |
| 1 1/4 | 32 | 180     | 32      | 207     | 160     | 10       | 34       | 8   | 200   | 600     | 200     | 488     | 400     | 180      | 436      |
| 1 1/2 | 40 | 200     | 40      | 210     | 180     | 13       | 38       | 10  | 250   | 730     | 250     | 530     | 500     | 300      | 974      |
| 2     | 50 | 230     | 50      | 225     | 200     | 19       | 56       | 12  | ★ 300 | 850     | 300     | 600     | 460     | 450      | 1242     |
| 2 1/2 | 65 | 290     | 65      | 250     | 220     | 31       | 69       | 14  | ★ 350 | 980     | 350     | 700     | 600     | 613      | 1667     |
| 3     | 80 | 310     | 80      | 260     | 240     | 36       | 112      | 16  | ★ 400 | 1150    | 400     | 800     | 700     | 750      | 1986     |
| PN 40 |    |         |         |         |         |          |          |     |       |         |         |         |         |          |          |
| NPS   | DN | L<br>mm | D<br>mm | H<br>mm | W<br>mm | WT<br>Kg | T<br>N.M | NPS | DN    | L<br>mm | D<br>mm | H<br>mm | W<br>mm | WT<br>Kg | T<br>N.M |
| 1/2   | 15 | 130     | 15      | 174     | 100     | 3.5      | 24       | 4   | 100   | 350     | 100     | 345     | 280     | 85       | 278      |
| 3/4   | 20 | 150     | 20      | 176     | 125     | 4        | 30       | 5   | 125   | 400     | 125     | 370     | 320     | 111      | 419      |
| 1     | 25 | 160     | 25      | 207     | 160     | 6        | 39       | 6   | 150   | 480     | 150     | 430     | 350     | 142      | 599      |
| 1 1/4 | 32 | 180     | 32      | 207     | 160     | 10       | 44       | 8   | 200   | 600     | 200     | 488     | 400     | 234      | 835      |
| 1 1/2 | 40 | 200     | 40      | 210     | 180     | 13       | 46       | 10  | 250   | 730     | 250     | 530     | 500     | 390      | 1266     |
| 2     | 50 | 230     | 50      | 225     | 200     | 19       | 78       | 12  | ★ 300 | 850     | 300     | 600     | 460     | 585      | 1615     |
| 2 1/2 | 65 | 290     | 65      | 250     | 220     | 40       | 92       | 14  | ★ 350 | 980     | 350     | 700     | 600     | 797      | 2167     |
| 3     | 80 | 310     | 80      | 260     | 240     | 47       | 179      | 16  | ★ 400 | 1150    | 400     | 800     | 700     | 975      | 2582     |

Note: ★ Manual control