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# FBK®

## DIN Valves Series

## Bellow Valves Series

Your requirement is our responsibility  
FEIBIKE will always welcome you to visit  
us to realize our mutual benefits.



ZHEJIANG FEIBIKE VALVE CO.,LTD



## About FEIBIKE

FBK VALVE as a professional manufacturer and supplier specialized in valve manufacturing, including gate, check, globe and ball valve in accordance with API, DIN, BS and JIS with various materials. Our products have been sold worldwide include USA, European countries, South American, South Asia, Middle East and Africa.

FBK VALVE always places the product quality and customers' needs on the utmost position and strives to better serve our valued customers. We work to bring interests both to our customers and ourselves. We respect and treasure employees' hard work and share with them the value created by the whole team. We conform to the latest standards and emphasize on managerial, technical and technological innovation. We are looking forward to working with more customers worldwide and create more value together. Our vividly decorated catalogs as well as extensively detailed website enable interested customers to instantly find their target. Besides, we provide value-added services to meet the satisfaction of our customers after they purchase our products.

FBK VALVE today has over 17,333 square meters manufacturing facilities and over 174 employees. Through its conviction to provide only the finest quality products and services to match the need of customers, FBK VALVE has now established itself as a serious player in valve business. The company has expanded its scope in terms of corporate culture as well as technical expertise. With an extensive network of sales, service and distribution in worldwide, we can offer in time delivery of various needs for customers. FBK VALVE can respond to customers' requests faster and more efficiently ever and become one of your best partners for your needs.







## Standardization Workshop

Superior quality is originated from advanced technology and equipment in line with international standard. Excellent modern digital fabrication equipment and unique process ensure our valve products. FEIBIKE are committed to quality and individual design to achieve the requirements of industrial modernization and pursue further progress.



## Quality Control



UT Inspection



Physical Analysis



Thickness Test



MIG Welding Repair



PMI



Pressure Test

## Painting



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## DIN Gate Valve

### Product Structural Features

DIN gate valve 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., nominal pressure of PN1.6~16Mpa and working temperature range -110~600°C.

### Main Structural Features

1. This product has logical structure, reliable seal, excellent performance and design.
2. The seal surface is build-up welding with hard alloy, which is attrition-resistant, corrosion-resistant, has good friction resistant and long life.
3. The stem is quenched and its surface is treated by nitriding treatment, thus it has good corrosion resistant and friction resistant.
4. It has double seal capability, which becomes more reliable.
5. The part material, flange and butt-weld ends dimension selected according to current operating condition and user's requirement to meet various engineering solution projects.

### Technical Specification

| Structural Formation | Operator          | Design Standard       | Face to Face           | BW Ends                | Flange Ends                  | Test & Inspection      |
|----------------------|-------------------|-----------------------|------------------------|------------------------|------------------------------|------------------------|
| BB, OS&Y/NRS         | Manual Operator   | DIN3352<br>BS EN 1984 | DIN3202<br>BS EN 558-1 | DIN3202<br>BS EN 12627 | DIN2543-2547<br>BS EN 1092-1 | DIN3230<br>BS EN 12569 |
|                      | Electric Actuator |                       |                        |                        |                              |                        |

Notes: As client's request, we may provide Pneumatic, Hydraulic actuator, etc.

### Products Performance Specification

| Nominal Pressure (Mpa) | Shell Test (Mpa) | Sealing Test (Mpa) | Air Seal Test (Mpa) | Suitable Medium        |
|------------------------|------------------|--------------------|---------------------|------------------------|
| 1.6                    | 2.4              | 1.76               | 0.6                 | Water, Oil & Gas, etc. |
| 2.5                    | 3.75             | 2.75               |                     |                        |
| 4.0                    | 6.0              | 4.4                |                     |                        |
| 6.4                    | 9.6              | 7.04               |                     |                        |
| 10.0                   | 15.0             | 11.0               |                     |                        |
| 16.0                   | 24.0             | 17.6               |                     |                        |

### Main Parts Materials

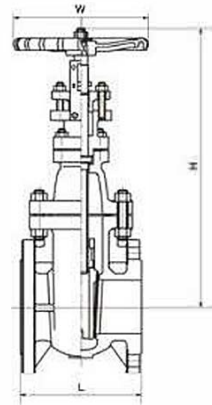
| Body                    | GS-C25    |       |     |           |            |           |        |            | 1.4308    |       |     |
|-------------------------|-----------|-------|-----|-----------|------------|-----------|--------|------------|-----------|-------|-----|
| Disc                    | GS-C25    |       |     | 1.4308    |            | 1.4408    |        | Monel      |           |       |     |
| Stem                    | A182 F6a  |       |     | A182 F304 |            | A182 F316 |        | Monel      | A182 F304 |       |     |
| Wedge Disc Sealing Face | 13Cr      | 13Cr  | STL | SS304     | STL        | SS316     | STL    | Monel      | SS304     | SS304 | STL |
| Seat Ring Sealing Face  | 13Cr      | STL   | STL | SS304     | STL        | SS316     | STL    | Monel      | SS304     | STL   | STL |
| Body                    | 1.4408    |       |     |           | 1.4308     |           |        | 1.4404     |           |       |     |
| Disc                    |           |       |     |           |            |           |        |            |           |       |     |
| Stem                    | A182 F316 |       |     |           | A182 F304L |           |        | A182 F316L |           |       |     |
| Wedge Disc Sealing Face | SS316     | SS316 | STL | SS304L    | SS304L     | STL       | SS316L | SS316L     | STL       |       |     |
| Seat Ring Sealing Face  | SS316     | STL   | STL | SS304L    | STL        | STL       | SS316L | STL        | STL       |       |     |

PN1.0Mpa~1.6Mpa

**DIN Non-rising Stem Gate Valve F4 Series**

| Dimensions Data |          |     |     |     |     |     |     |     |     |     |     |      |  |
|-----------------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|--|
| Pressure (Mpa)  | PN1.0Mpa |     |     |     |     |     |     |     |     |     |     |      |  |
| Size mm         | 40       | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400  |  |
| L               | 140      | 150 | 170 | 180 | 190 | 200 | 210 | 230 | 250 | 270 | 290 | 310  |  |
| H               | 278      | 285 | 315 | 360 | 419 | 447 | 546 | 645 | 749 | 830 | 950 | 1120 |  |
| W               | 160      | 160 | 160 | 160 | 200 | 200 | 200 | 200 | 320 | 320 | 360 | 360  |  |
| Weight(kg)      | 13       | 16  | 20  | 26  | 35  | 48  | 56  | 92  | 145 | 204 | 298 | 378  |  |

| Pressure (Mpa) | PN1.6Mpa |     |     |     |     |     |     |     |     |     |     |      |  |
|----------------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|--|
| Size mm        | 40       | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400  |  |
| L              | 140      | 150 | 170 | 180 | 190 | 200 | 210 | 230 | 250 | 270 | 290 | 310  |  |
| H              | 278      | 285 | 315 | 360 | 419 | 447 | 546 | 645 | 749 | 830 | 950 | 1120 |  |
| W              | 160      | 160 | 160 | 160 | 200 | 200 | 200 | 200 | 320 | 320 | 360 | 360  |  |
| Weight(kg)     | 13       | 16  | 20  | 26  | 35  | 48  | 56  | 100 | 152 | 219 | 306 | 390  |  |

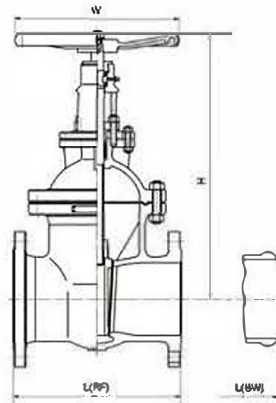


PN2.5Mpa~4.0Mpa

**DIN Non-rising Stem Gate Valve F5/F15 Series**

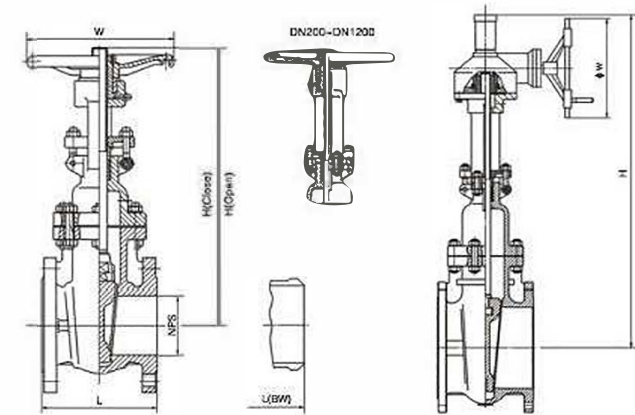
| Dimensions Data |          |     |     |     |     |     |     |     |     |     |      |      |      |  |  |
|-----------------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|--|--|
| Pressure (Mpa)  | PN2.5Mpa |     |     |     |     |     |     |     |     |     |      |      |      |  |  |
| Size mm         | 40       | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  | 500  |  |  |
| L               | 240      | 250 | 270 | 280 | 300 | 325 | 350 | 400 | 450 | 500 | 550  | 600  | 700  |  |  |
| H               | 320      | 325 | 363 | 415 | 453 | 505 | 556 | 744 | 864 | 948 | 1012 | 1180 | 1320 |  |  |
| W               | 200      | 200 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600  | 640  | 720  |  |  |
| Weight(kg)      | 19       | 20  | 30  | 39  | 56  | 80  | 101 | 190 | 290 | 405 | 510  | 650  | 960  |  |  |

| Pressure (Mpa) | PN4.0Mpa |     |     |      |     |     |     |     |       |     |      |      |      |  |  |
|----------------|----------|-----|-----|------|-----|-----|-----|-----|-------|-----|------|------|------|--|--|
| Size mm        | 40       | 50  | 65  | 80   | 100 | 125 | 150 | 200 | 250   | 300 | 350  | 400  | 500  |  |  |
| L              | 240      | 250 | 270 | 280  | 330 | 360 | 390 | 460 | 530   | 630 | 690  | 750  | 880  |  |  |
| H              | 320      | 325 | 363 | 415  | 453 | 505 | 556 | 744 | 864   | 948 | 1012 | 1180 | 1320 |  |  |
| W              | 200      | 200 | 200 | 250  | 300 | 350 | 400 | 450 | 500   | 550 | 600  | 720  | 850  |  |  |
| Weight(kg)     | 20       | 22  | 31  | 41.5 | 61  | 83  | 110 | 210 | 318.5 | 430 | 520  | 680  | 1060 |  |  |



PN1.0Mpa~1.6Mpa

**DIN Rising Stem Gate Valve F4 Series**



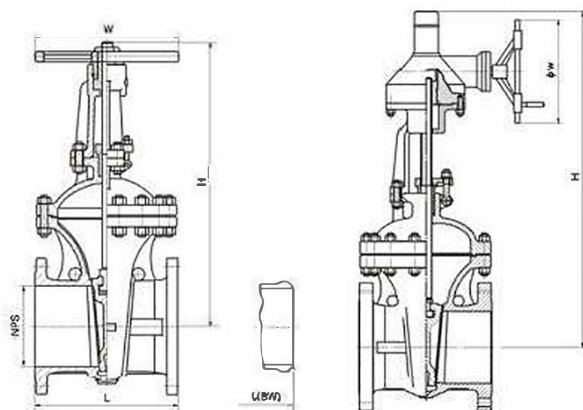
| Dimensions Data |    |          |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------|----|----------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| Pressure (Mpa)  |    | PN1.0Mpa |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
| Size            | mm | 40       | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250  | 300  | 350  | 400  | 450  | 500  | 600  | 700  | 800  | 900  | 1000 | 1200 |
| L               |    | 140      | 150 | 170 | 180 | 190 | 200 | 210 | 230 | 250  | 270  | 290  | 310  | 330  | 350  | 390  | 430  | 470  | 510  | 550  | 630  |
| H               |    | 295      | 305 | 345 | 370 | 445 | 530 | 565 | 725 | 885  | 1010 | 1140 | 1295 | 1380 | 1535 | 1835 | 2155 | -    | -    | -    | -    |
| H <sub>i</sub>  |    | -        | -   | -   | -   | -   | -   | -   | 985 | 1220 | 1365 | 1545 | 1755 | 1890 | 2085 | 2435 | 2925 | 3275 | 3670 | 4220 | 4845 |
| W               |    | 200      | 200 | 200 | 250 | 280 | 280 | 300 | 360 | 400  | 400  | 450  | 500  | 500  | 600  | 700  | 800  | -    | -    | -    | -    |
| W <sub>i</sub>  |    | -        | -   | -   | -   | -   | -   | -   | 310 | 310  | 310  | 310  | 460  | 460  | 460  | 460  | 530  | 530  | 530  | 530  | 600  |
| Weight(kg)      |    | 14       | 18  | 22  | 29  | 39  | 53  | 62  | 101 | 160  | 224  | 328  | 416  | 487  | 563  | 852  | 1250 | 1830 | 2295 | 3700 | 5050 |

| Pressure<br>(Mpa) |    | PN1.6Mpa |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
|-------------------|----|----------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| Size              | mm | 40       | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250  | 300  | 350  | 400  | 450  | 500  | 600  | 700  | 800  | 900  | 1000 | 1200 |
| L                 |    | 140      | 150 | 170 | 180 | 190 | 200 | 210 | 230 | 250  | 270  | 290  | 310  | 330  | 350  | 390  | 430  | 470  | 510  | 550  | 630  |
| H                 |    | 295      | 305 | 345 | 370 | 445 | 530 | 565 | 725 | 885  | 1010 | 1140 | 1295 | 1380 | 1535 | 1835 | 2155 | -    | -    | -    | -    |
| H <sub>i</sub>    |    | -        | -   | -   | -   | -   | -   | -   | 965 | 1220 | 1365 | 1545 | 1755 | 1890 | 2085 | 2435 | 2925 | 3275 | 3670 | 4220 | 4845 |
| W                 |    | 200      | 200 | 200 | 250 | 280 | 280 | 300 | 360 | 400  | 400  | 450  | 500  | 500  | 600  | 700  | 800  | -    | -    | -    | -    |
| W <sub>i</sub>    |    | -        | -   | -   | -   | -   | -   | -   | 310 | 310  | 310  | 310  | 460  | 460  | 460  | 460  | 530  | 530  | 530  | 530  | 600  |
| Weight(kg)        |    | 14       | 18  | 22  | 29  | 39  | 53  | 62  | 110 | 167  | 241  | 337  | 429  | 494  | 571  | 859  | 1259 | 1836 | 2302 | 3709 | 5056 |



PN1.6Mpa~2.5Mpa

**DIN Rising Stem Gate Valve F5 Series**



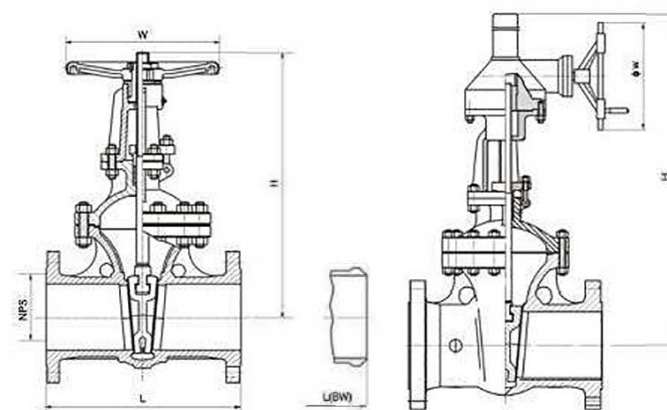
**Dimensions Data**

| Pressure (Mpa) | PN1.6Mpa |     |      |     |     |     |     |     |      |      |      |      |      |      |      |      |
|----------------|----------|-----|------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| Size mm        | 40       | 50  | 65   | 80  | 100 | 125 | 150 | 200 | 250  | 300  | 350  | 400  | 450  | 500  | 600  | 700  |
| L              | 240      | 250 | 270  | 280 | 300 | 325 | 350 | 400 | 450  | 500  | 550  | 600  | 650  | 700  | 800  | 900  |
| H              | 300      | 358 | 375  | 433 | 502 | 612 | 676 | 820 | 969  | 1142 | 1280 | 1452 | 1565 | 1676 | 1864 | 2083 |
| H <sub>1</sub> | -        | -   | -    | -   | -   | -   | -   | -   | 1220 | 1370 | 1525 | 1755 | 1890 | 2135 | 2585 | 2945 |
| W              | 200      | 280 | 280  | 320 | 360 | 400 | 400 | 400 | 450  | 560  | 640  | 640  | 640  | 720  | 800  | 950  |
| W <sub>1</sub> | -        | -   | -    | -   | -   | -   | -   | -   | 310  | 310  | 310  | 460  | 460  | 460  | 600  | 600  |
| Weight(kg)     | 17       | 19  | 27.5 | 32  | 40  | 68  | 75  | 115 | 140  | 310  | 390  | 460  | 600  | 750  | 900  | 1600 |

| Pressure (Mpa) | PN2.5Mpa |     |      |      |     |     |     |     |      |      |      |      |      |      |      |      |
|----------------|----------|-----|------|------|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| Size mm        | 40       | 50  | 65   | 80   | 100 | 125 | 150 | 200 | 250  | 300  | 350  | 400  | 450  | 500  | 600  | 700  |
| L              | 240      | 250 | 270  | 280  | 300 | 325 | 350 | 400 | 450  | 500  | 550  | 600  | 650  | 700  | 800  | 900  |
| H              | 300      | 358 | 375  | 433  | 502 | 612 | 676 | 820 | 969  | 1142 | 1280 | 1452 | 1565 | 1676 | 1864 | 2083 |
| H <sub>1</sub> | -        | -   | -    | -    | -   | -   | -   | -   | 1220 | 1370 | 1525 | 1755 | 1890 | 2135 | 2585 | 2945 |
| W              | 200      | 280 | 280  | 320  | 360 | 400 | 400 | 400 | 450  | 560  | 640  | 640  | 640  | 720  | 800  | 950  |
| W <sub>1</sub> | -        | -   | -    | -    | -   | -   | -   | -   | 310  | 310  | 310  | 460  | 460  | 460  | 600  | 600  |
| Weight(kg)     | 17       | 19  | 27.5 | 34.5 | 43  | 72  | 108 | 182 | 280  | 352  | 495  | 652  | 925  | 1250 | 1560 | 2030 |

PN4.0Mpa~6.4Mpa

**DIN Rising Stem Gate Valve F7 Series**



**Dimensions Data**

| Pressure (Mpa) | PN4.0Mpa |     |      |     |     |     |     |     |      |      |      |      |      |      |      |      |
|----------------|----------|-----|------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| Size mm        | 40       | 50  | 65   | 80  | 100 | 125 | 150 | 200 | 250  | 300  | 350  | 400  | 500  | 600  | 700  | 800  |
| L              | 240      | 250 | 290  | 310 | 350 | 400 | 450 | 550 | 650  | 750  | 850  | 950  | 1150 | 1350 | 1550 | 1950 |
| H              | 323      | 372 | 395  | 457 | 552 | 634 | 708 | 858 | 1015 | 1203 | 1341 | 1492 | 1790 | 1875 | -    | -    |
| H <sub>1</sub> | -        | -   | -    | -   | -   | -   | -   | -   | 1225 | 1420 | 1580 | 1755 | 2125 | 2520 | 2945 | 3450 |
| W              | 200      | 280 | 280  | 320 | 360 | 400 | 400 | 450 | 560  | 640  | 640  | 720  | 950  | 950  | -    | -    |
| W <sub>1</sub> | -        | -   | -    | -   | -   | -   | -   | -   | 310  | 310  | 310  | 460  | 530  | 530  | 600  | 600  |
| Weight(kg)     | 17       | 19  | 27.5 | 38  | 58  | 95  | 104 | 184 | 352  | 470  | 680  | 910  | 1450 | 2150 | 3050 | -    |

| Pressure (Mpa) | PN6.4Mpa |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |
|----------------|----------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|
| Size mm        | 40       | 50  | 65  | 80  | 100 | 125 | 150 | 200  | 250  | 300  | 350  | 400  | 500  | 600  | 700  | 800  |
| L              | 240      | 250 | 290 | 310 | 350 | 400 | 450 | 550  | 650  | 750  | 850  | 950  | 1150 | 1350 | 1550 | 1950 |
| H              | 360      | 404 | 456 | 504 | 553 | 638 | 718 | 873  | 1053 | 1203 | 1394 | 1645 | 2285 | 2508 | -    | -    |
| H <sub>1</sub> | -        | -   | -   | -   | -   | -   | 890 | 1080 | 1285 | 1475 | 1635 | 1840 | 2180 | 2500 | -    | -    |
| W              | 240      | 280 | 280 | 320 | 360 | 400 | 450 | 560  | 640  | 640  | 720  | 800  | 950  | 950  | -    | -    |
| W <sub>1</sub> | -        | -   | -   | -   | -   | -   | 310 | 310  | 460  | 460  | 460  | 530  | 530  | 530  | -    | -    |
| Weight(kg)     | 19       | 20  | 35  | 52  | 66  | 103 | 140 | 230  | 410  | 510  | 780  | 940  | 1600 | 3765 | -    | -    |

PN10.0Mpa

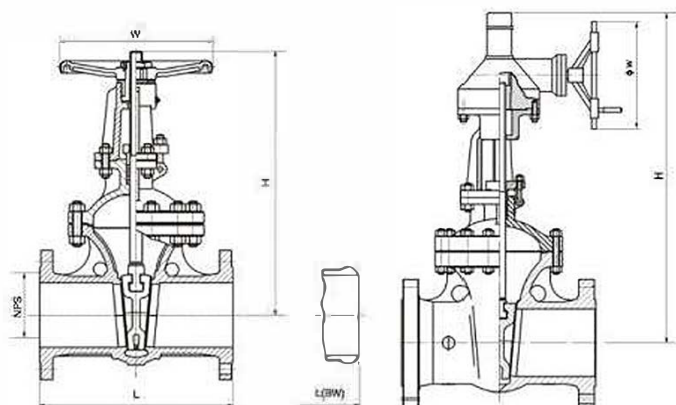
**DIN Rising Stem Gate Valve DIN F7 Series**

**Dimensions Data**

| Pressure (Mpa) | PN10.0Mpa |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |
|----------------|-----------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|
| Size mm        | 40        | 50  | 65  | 80  | 100 | 125 | 150 | 200  | 250  | 300  | 350  | 400  | 500  | 600  | 700  | 800  | 900  |
| L              | 240       | 250 | 290 | 310 | 360 | 400 | 450 | 550  | 650  | 750  | 850  | 950  | 1150 | 1350 | 1550 | 1750 | 1950 |
| H              | 360       | 390 | 415 | 460 | 510 | 625 | 750 | 890  | 1050 | 1208 | -    | -    | -    | -    | -    | -    | -    |
| H <sub>1</sub> | -         | -   | -   | -   | -   | -   | 890 | 1200 | 1415 | 1680 | 1900 | 2285 | -    | -    | -    | -    | -    |
| W              | 180       | 200 | 250 | 280 | 300 | 360 | 450 | 500  | 650  | 700  | -    | -    | -    | -    | -    | -    | -    |
| W <sub>1</sub> | -         | -   | -   | -   | -   | -   | 310 | 310  | 460  | 460  | 460  | 530  | -    | -    | -    | -    | -    |
| Weight(kg)     | 28        | 42  | 55  | 63  | 101 | 147 | 228 | 448  | 608  | 1020 | 1350 | 1650 | -    | -    | -    | -    | -    |

PN16.0Mpa

**DIN Rising Stem Gate Valve F8 Series**



**Dimensions Data**

| Pressure (Mpa) |    | PN16.0Mpa |     |     |     |     |     |     |      |      |      |
|----------------|----|-----------|-----|-----|-----|-----|-----|-----|------|------|------|
| Size           | mm | 40        | 50  | 65  | 80  | 100 | 125 | 150 | 200  | 250  | 300  |
| L              |    | 270       | 300 | 360 | 390 | 450 | 525 | 600 | 750  | 900  | 1050 |
| H              |    | 365       | 512 | 560 | 585 | 631 | 670 | 820 | 990  | -    | -    |
| H <sub>1</sub> |    | -         | -   | -   | -   | -   | 840 | 955 | 1235 | 1500 | 1725 |
| W              |    | 250       | 280 | 280 | 300 | 360 | 400 | 500 | 650  | -    | -    |
| W <sub>1</sub> |    | -         | -   | -   | -   | -   | 310 | 310 | 460  | 460  | 530  |
| Weight(kg)     |    | 60        | 74  | 107 | 120 | 180 | 342 | 410 | 582  | 950  | 1360 |

**Product Structural Features**

DIN globe valve 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., nominal pressure of PN1.6~16Mpa and working temperature range -110~600°C.

**Main Structural Features**

1. This product has logical structure, reliable seal, excellent performance and design.
2. The seal surface is build-up welding with hard alloy, which is attrition-resistant, corrosion-resistant, has good friction resistant and long life.
3. The stem is 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 ends dimension selected according to current operating condition and user's requirement to meet various engineer solution projects.

**Technical Specification**

| Structural Formation | Operator          | Design Standard | Face to Face | BW End                 | Flange End                   | Test & Inspection      |
|----------------------|-------------------|-----------------|--------------|------------------------|------------------------------|------------------------|
| BB,OS&Y              | Manual Operator   | DIN3356         | DIN3202      | DIN3202<br>BS EN 12627 | DIN2543-2548<br>BS EN 1092-1 | DIN3230<br>BS EN 12569 |
|                      | Electric Actuator |                 |              |                        |                              |                        |

Notes: As client's request, we may provide Pneumatic, Hydraulic actuator, etc.

**Products Performance Specification**

| Nominal Pressure (Mpa) | Shell Test (Mpa) | Sealing Test (Mpa) | Air Seal Test (Mpa) | Suitable Medium        |
|------------------------|------------------|--------------------|---------------------|------------------------|
| 1.6                    | 2.4              | 1.76               | 0.6                 | Water, Oil & Gas, etc. |
| 2.5                    | 3.75             | 2.75               |                     |                        |
| 4.0                    | 6.0              | 4.4                |                     |                        |
| 6.4                    | 9.6              | 7.04               |                     |                        |
| 10.0                   | 15.0             | 11.0               |                     |                        |
| 16.0                   | 24.0             | 17.6               |                     |                        |

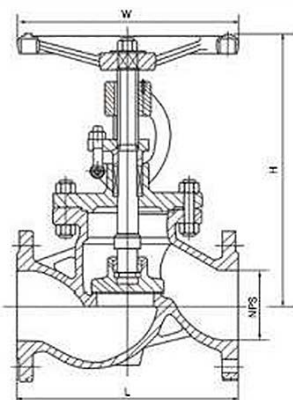
**Main Parts Materials**

| Body                    | GS-C25    |       |     |           |            |           |        |        | 1.4308     |       |     |
|-------------------------|-----------|-------|-----|-----------|------------|-----------|--------|--------|------------|-------|-----|
| Disc                    | CS-C25    |       |     | 1.4308    |            | 1.4408    |        | Monel  |            |       |     |
| Stem                    | A182 F6a  |       |     | A182 F304 |            | A182 F316 |        | Monel  | A182 F304  |       |     |
| Wedge Disc Sealing Face | 13Cr      | 13Cr  | STL | SS304     | STL        | SS316     | STL    | Monel  | SS304      | SS304 | STL |
| Seat Ring Sealing Face  | 13Cr      | STL   | STL | SS304     | STL        | SS316     | STL    | Monel  | SS304      | STL   | STL |
| Body                    | 1.4408    |       |     |           | 1.4306     |           |        |        | 1.4404     |       |     |
| Disc                    |           |       |     |           |            |           |        |        |            |       |     |
| Stem                    | A182 F316 |       |     |           | A182 F304L |           |        |        | A182 F316L |       |     |
| Wedge Disc Sealing Face | SS316     | SS316 | STL | SS304L    | SS304L     | STL       | SS316L | SS316L | STL        |       |     |
| Seat Ring Sealing Face  | SS316     | STL   | STL | SS304L    | STL        | STL       | SS316L | STL    | STL        |       |     |



PN1.6Mpa~4.0Mpa

**DIN Globe Valve F1 Series**



**Dimensions Data**

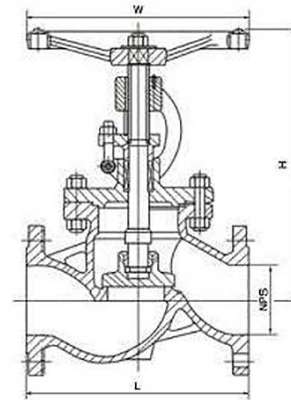
| Pressure(Mpa) |    | PN1.6Mpa |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|---------------|----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Size          | mm | 15       | 20  | 25  | 32  | 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 | 750 | 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 |

PN6.4Mpa~16.0Mpa

**DIN Globe Valve F2 Series**



**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 |

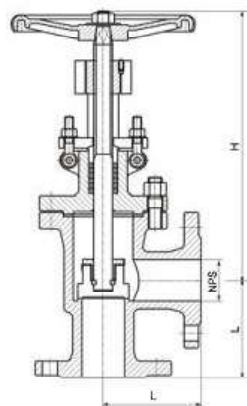
| Pressure(Mpa) |    | PN10.0Mpa |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|---------------|----|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Size          | mm | 15        | 20  | 25  | 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 | 880  | 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 |



PN1.6Mpa~4.0Mpa

**DIN Angle Globe Valve F32 Series**



**Dimensions Data**

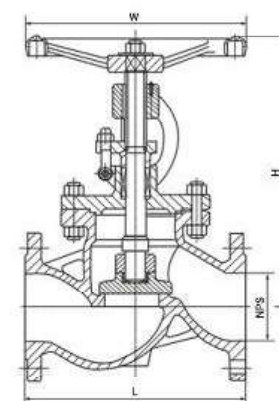
| Pressure(Mpa) |    | PN1.6Mpa |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|---------------|----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Size          | mm | 15       | 20  | 25  | 32  | 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 |

PN1.6Mpa~4.0Mpa

**DIN Stop Globe Valve F1 Series**



**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 | 750 | 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 |

**Product Structural Features**

DIN check valve 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., nominal pressure of PN1.6~16Mpa and working temperature range -110~600℃.

**Main Structural Features**

1. This product has logical structure, reliable seal, excellent performance and design.
2. The seal surface is build-up welding with hard alloy, which is attrition-resistant, corrosion-resistant, has good friction resistant and long life.
3. The part material, flange and built-weld ends dimension selected according to current operating condition and user's requirement to meet engineer solution projects.

**Technical Specification**

| Structural Form | Operator | Design Standard | Face to Face | Ends                   | Flange Ends                  | Test & Inspection      |
|-----------------|----------|-----------------|--------------|------------------------|------------------------------|------------------------|
| BC              | N/A      | DIN3356         | DIN3202      | DIN3202<br>BS EN 12627 | DIN2543-2547<br>BS EN 1092-1 | DIN3230<br>BS EN 12569 |

Notes: As client's request, we may provide Pneumatic, Hydraulic actuator, etc.

**Products Performance Specification**

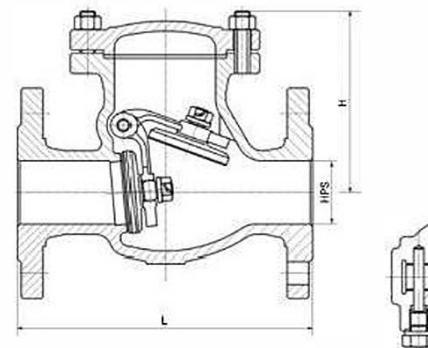
| Nominal Pressure (Mpa) | Shell Test (Mpa) | Sealing Test (Mpa) | Air Seal Test (Mpa) | Suitable Medium        |
|------------------------|------------------|--------------------|---------------------|------------------------|
| 1.6                    | 2.4              | 1.76               | 0.6                 | Water, Oil & Gas, etc. |
| 2.5                    | 3.75             | 2.75               |                     |                        |
| 4.0                    | 6.0              | 4.4                |                     |                        |
| 6.4                    | 9.6              | 7.04               |                     |                        |
| 10.0                   | 15.0             | 11.0               |                     |                        |
| 18.0                   | 24.0             | 17.6               |                     |                        |

**Main Parts Materials**

| Body                    | GS-C25 |       |        |        |        |       |        |        | 1.4308 |       |     |
|-------------------------|--------|-------|--------|--------|--------|-------|--------|--------|--------|-------|-----|
| Disc                    | GS-C25 |       | 1.4308 |        | 1.4408 |       | Monel  |        | 1.4308 |       |     |
| Wedge Disc Sealing Face | 13Cr   | 13Cr  | STL    | SS304  | STL    | SS316 | STL    | Monel  | SS304  | SS304 | STL |
| Seat Ring Sealing Face  | 13Cr   | STL   | STL    | SS304  | STL    | SS316 | STL    | Monel  | SS304  | STL   | STL |
| Body                    | 1.4408 |       |        |        | 1.4306 |       |        |        | 1.4404 |       |     |
| Disc                    | 1.4408 |       |        |        | 1.4306 |       |        |        | 1.4404 |       |     |
| Wedge Disc Sealing Face | SS316  | SS316 | STL    | SS304L | SS304L | STL   | SS316L | SS316L | STL    | STL   | STL |
| Seat Ring Sealing Face  |        |       | STL    | SS304L | STL    | STL   | SS316L | STL    | STL    | STL   | STL |

PN1.6Mpa~2.5Mpa

**DIN Swing Check Valve F1 Series**



**Dimensions Data**

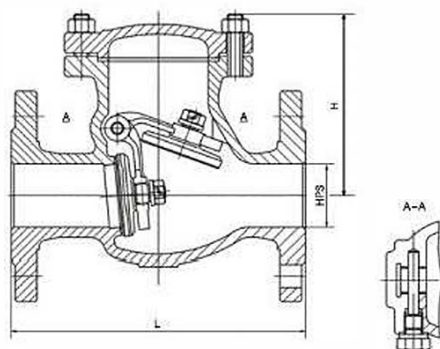
| Pressure (Mpa) | PN1.6Mpa |     |     |     |     |     |     |     |     |     |      |      |
|----------------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Size           | mm       | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  |
| L              |          | 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  |



PN4.0Mpa~10.0Mpa

**DIN Swing Check Valve F1/F2 Series**



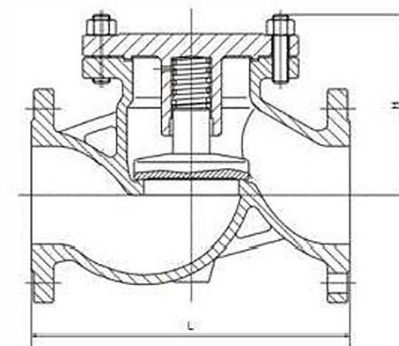
| Dimensions Data |    |          |     |     |     |     |     |     |     |     |     |     |      |      |      |
|-----------------|----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| Pressure(Mpa)   |    | PN4.0Mpa |     |     |     |     |     |     |     |     |     |     |      |      |      |
| Size            | mm | 40       | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400  | 450  | 500  |
| L               |    | 200      | 230 | 290 | 310 | 350 | 400 | 480 | 600 | 730 | 850 | 980 | 1100 | 1200 | 1250 |
| H               |    | 135      | 152 | 178 | 185 | 210 | 290 | 310 | 365 | 445 | 480 | 510 | 545  | 595  | 655  |
| Weight(kg)      |    | 15       | 22  | 29  | 40  | 46  | 68  | 92  | 163 | 310 | 430 | 558 | 780  | 915  | 1350 |

| Dimensions Data |    |          |     |     |     |     |     |     |     |     |     |      |      |      |      |
|-----------------|----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| Pressure(Mpa)   |    | PN6.4Mpa |     |     |     |     |     |     |     |     |     |      |      |      |      |
| Size            | mm | 40       | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  | 450  | 500  |
| L               |    | 260      | 300 | 340 | 380 | 430 | 500 | 550 | 650 | 775 | 900 | 1025 | 1150 | 1275 | 1400 |
| H               |    | 168      | 175 | 192 | 225 | 280 | 310 | 335 | 390 | 452 | 520 | 570  | 626  | 695  | 770  |
| Weight(kg)      |    | 40       | 48  | 62  | 80  | 114 | 187 | 214 | 329 | 418 | 640 | 911  | 1130 | 1320 | 2015 |

| Dimensions Data |    |           |     |     |     |     |     |     |     |     |     |      |      |      |      |
|-----------------|----|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| Pressure(Mpa)   |    | PN10.0Mpa |     |     |     |     |     |     |     |     |     |      |      |      |      |
| Size            | mm | 40        | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350  | 400  | 450  | 500  |
| L               |    | 260       | 300 | 340 | 380 | 430 | 500 | 550 | 650 | 775 | 900 | 1025 | 1150 | 1275 | 1400 |
| H               |    | 165       | 183 | 205 | 236 | 272 | 305 | 345 | 396 | 456 | 528 | 600  | 685  | -    | -    |
| Weight(kg)      |    | 48        | 65  | 73  | 87  | 105 | 192 | 208 | 370 | 668 | 963 | 1100 | 1358 | -    | -    |

PN1.6Mpa~4.0Mpa

**DIN Lift Check Valve F1 Series**



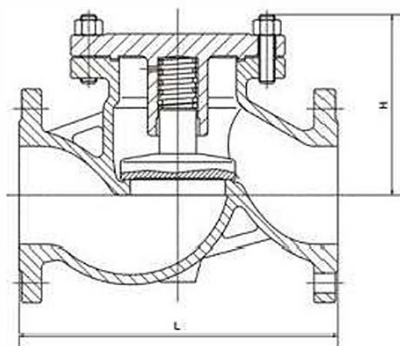
| Dimensions Data |    |          |     |     |     |     |     |     |     |     |      |      |
|-----------------|----|----------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Pressure(Mpa)   |    | PN1.6Mpa |     |     |     |     |     |     |     |     |      |      |
| Size            | 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  | 181 | 251 | 395 | 500  | 618  |

| Dimensions Data |    |          |     |     |     |     |     |     |     |     |      |      |
|-----------------|----|----------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| 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  |

| Dimensions Data |    |          |     |     |     |     |     |     |     |     |      |      |
|-----------------|----|----------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| 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  |

PN6.4Mpa~10.0Mpa

**DIN Lift Check Valve F2 Series**



**Dimensions Data**

| Pressure(Mpa) |    | PN6.4Mpa |     |     |     |     |     |     |     |     |     |     |     |     |     |
|---------------|----|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Size          | mm | 15       | 20  | 25  | 32  | 40  | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 |
| L             |    | 210      | 230 | 230 | 260 | 260 | 300 | 340 | 380 | 430 | 500 | 550 | 650 | 775 | 900 |
| H             |    | 100      | 110 | 125 | 140 | 168 | 170 | 188 | 205 | 230 | 240 | 265 | 310 | -   | -   |
| Weight(kg)    |    | -        | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |

| Pressure(Mpa) |    | PN10.0Mpa |     |     |     |     |     |     |     |     |     |     |     |     |     |
|---------------|----|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Size          | mm | 15        | 20  | 25  | 32  | 40  | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 |
| L             |    | 210       | 230 | 230 | 260 | 260 | 300 | 340 | 380 | 430 | 500 | 550 | 650 | 775 | 900 |
| H             |    | 100       | 110 | 125 | 140 | 170 | 185 | 200 | 235 | 265 | 310 | 350 | 400 | -   | -   |
| Weight(kg)    |    | -         | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |

**Product Structural Features**

DIN bellow seal globe valve 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., nominal pressure of PN1.6~4.0Mpa and working temperature range -29~350℃.

**Main Structural Features**

1. This product has logical structure, reliable seal, excellent performance and design.
2. The seal surface is build-up welding with hard alloy, which is attrition-resistant, corrosion-resistant, has good friction resistant and long life.
3. The stem is quenched and its surface is treated by nitriding treatment, thus it has good corrosion resistant and friction resistant.
4. It has double seal capability, which becomes more reliable.
5. The stem may show the position of lift, thus it is clearer.
6. The part material, flange and butt-weld ends dimension selected according to current operating condition and user's requirement to meet engineer solution projects.

**Technical Specification**

| Structural Formation | Operator          | Design Standard       | Face to Face           | BW Ends                | Flange Ends                  | Test & Inspection      |
|----------------------|-------------------|-----------------------|------------------------|------------------------|------------------------------|------------------------|
| BB, OS&Y             | Manual Operator   | DIN3356<br>BS EN 1984 | DIN3202<br>BS EN 558-1 | DIN3202<br>BS EN 12627 | DIN2543-2547<br>BS EN 1092-1 | DIN3230<br>BS EN 12569 |
|                      | Electric Actuator |                       |                        |                        |                              |                        |

Note: As client's request, we may provide Pneumatic, Hydraulic actuator, etc.

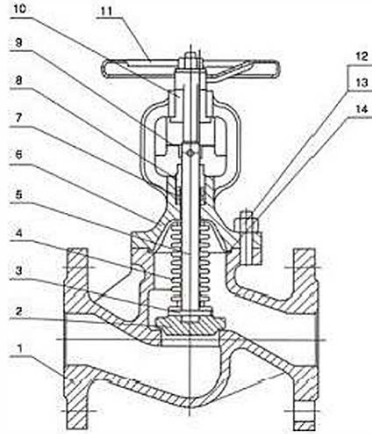
**Products Performance Specification**

| Nominal Pressure(Mpa) | Shell Test(Mpa) | Sealing Test(Mpa) | Air Seal Test(Mpa) | Suitable Medium        |
|-----------------------|-----------------|-------------------|--------------------|------------------------|
| 1.6                   | 2.4             | 1.76              | 0.6                | Water, Oil & Gas, etc. |
| 2.5                   | 3.75            | 2.75              |                    |                        |
| 4.0                   | 6.0             | 4.4               |                    |                        |



PN1.6Mpa~4.0Mpa

**DIN Bellow Seal Globe Valve**

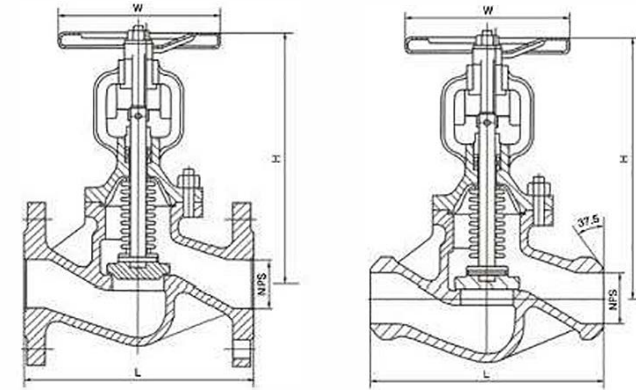


**Main Parts Materials**

| NO. | Part Name    | Material                                         |
|-----|--------------|--------------------------------------------------|
| 1   | Body         | GS-C25, 1.7363, 1.4308, 1.4408, 1.4306, 1.4301   |
| 2   | Disc         | A182 F6a, 1.7363, 1.4308, 1.4408, 1.4306, 1.4301 |
| 3   | Pin          | A182 F6a, 1.7363, 1.4308, 1.4408, 1.4306, 1.4301 |
| 4   | Bellow Seal  | 1Cr18Ni9Ti, 304, 316                             |
| 5   | Stem         | A182 F6a, A182 F304, A182 F316                   |
| 6   | Bonnet       | GS-C25, 1.7363, 1.4308, 1.4408, 1.4306, 1.4301   |
| 7   | Packing      | Flexible Graphite, PTFE                          |
| 8   | Gland Flange | GS-C25, 1.7363, 1.4308, 1.4408, 1.4306, 1.4301   |
| 9   | Guide Block  | GS-C25, 1.7363, 1.4308, 1.4408, 1.4306, 1.4301   |
| 10  | Yoke Nut     | Copper Alloy, A439 D2                            |
| 11  | Handwheel    | Ductile Iron, Carbon Steel                       |
| 12  | Bolt         | ASTM A193-B7, A193-B8, A193-B8M                  |
| 13  | Nut          | ASTM A194-2H, A194-8, A194-8M                    |
| 14  | Gasket       | Flexible Graphite + Stainless Steel, PTFE        |

PN1.6Mpa~4.0Mpa

**DIN Bellow Seal Globe Valve**



**Dimensions Data**

| Model      | DWJ41-16 |     |     |     |     |      |     |     |     |     |     |     |     |     |
|------------|----------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|
| Pressure   | PN16     |     |     |     |     |      |     |     |     |     |     |     |     |     |
| Size       | 15       | 20  | 25  | 32  | 40  | 50   | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 |
| L          | 130      | 150 | 160 | 180 | 200 | 230  | 290 | 310 | 350 | 400 | 480 | 600 | 730 | 850 |
| H          | 195      | 200 | 220 | 225 | 235 | 250  | 260 | 265 | 370 | 400 | 515 | 550 | 600 | 630 |
| W          | 130      | 130 | 130 | 130 | 150 | 150  | 180 | 180 | 200 | 200 | 400 | 450 | 450 | 500 |
| Weight(Kg) | 4        | 4.5 | 5   | 7   | 9   | 12.5 | 18  | 23  | 41  | 54  | 90  | 160 | 260 | 410 |

| Model      | DWJ41-25 |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pressure   | PN25     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Size       | 15       | 20  | 25  | 32  | 40  | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 |
| L          | 130      | 150 | 160 | 180 | 200 | 230 | 290 | 310 | 350 | 400 | 480 | 600 | 730 | 850 |
| H          | 195      | 200 | 220 | 225 | 235 | 250 | 260 | 265 | 370 | 400 | 515 | 550 | 600 | 630 |
| W          | 130      | 130 | 130 | 130 | 150 | 150 | 180 | 180 | 200 | 200 | 400 | 450 | 450 | 500 |
| Weight(Kg) | 4        | 4.5 | 5   | 7.5 | 9.5 | 13  | 19  | 24  | 43  | 57  | 95  | 168 | 300 | 510 |

| Model      | DWJ41-40 |     |     |     |     |      |     |     |     |     |     |     |     |     |
|------------|----------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|
| Pressure   | PN40     |     |     |     |     |      |     |     |     |     |     |     |     |     |
| Size       | 15       | 20  | 25  | 32  | 40  | 50   | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 |
| L          | 130      | 150 | 160 | 180 | 200 | 230  | 290 | 310 | 350 | 400 | 480 | 600 | 730 | 850 |
| H          | 195      | 200 | 220 | 225 | 235 | 250  | 260 | 265 | 370 | 400 | 515 | 550 | 600 | 630 |
| W          | 130      | 130 | 130 | 130 | 150 | 150  | 180 | 180 | 200 | 200 | 400 | 450 | 450 | 500 |
| Weight(Kg) | 4        | 4.5 | 5   | 8   | 10  | 13.5 | 20  | 25  | 45  | 60  | 98  | 171 | 340 | 580 |

## DIN Bellow Seal Y-Type Globe Valve

### Product Structural Features

DIN bellow seal Y-type globe valve 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. nominal pressure of PN1.6~4.0Mpa and working temperature range -29~350°C.

### Main Structural Features

1. This product has logical structure, reliable seal, excellent performance and design.
2. The seal surface is built-up welding with hard alloy, which is attrition-resistant, corrosion-resistant, has good friction resistant and long life.
3. The stem is 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 becomes more reliable.
5. The stem may show the position of lift, thus it is clearer.
6. Small flowing resistance and low pressure drop.
7. The part material, flange and butt-weld ends dimension selected according to current operating condition and user's requirement to meet engineer's solution on projects.

### Technical Specification

| Structural Formation | Operator          | Design Standard       | Face to Face           | BW Ends                | Flange Ends                  | Test & Inspection      |
|----------------------|-------------------|-----------------------|------------------------|------------------------|------------------------------|------------------------|
| BB, OS&Y             | Manual Operator   | DIN3356<br>BS EN 1984 | DIN3202<br>BS EN 558-1 | DIN3202<br>BS EN 12627 | DIN2543-2545<br>BS EN 1092-1 | DIN3230<br>BS EN 12569 |
|                      | Electric Actuator |                       |                        |                        |                              |                        |

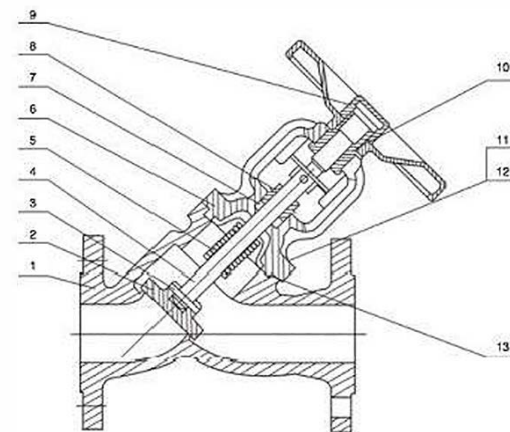
Note: As client's request, we may provide Pneumatic, Hydraulic actuator, etc.

### Products Performance Specification

| Nominal Pressure(Mpa) | Shell Test(Mpa) | Sealing Test(Mpa) | Air Seal Test(MPa) | Suitable Medium        |
|-----------------------|-----------------|-------------------|--------------------|------------------------|
| 1.6                   | 2.4             | 1.76              | 0.6                | Water, Oil & Gas, etc. |
| 2.5                   | 3.75            | 2.75              |                    |                        |
| 4.0                   | 6.0             | 4.4               |                    |                        |

PN1.6Mpa~4.0Mpa

## DIN Bellow Seal Y-Type Globe Valve



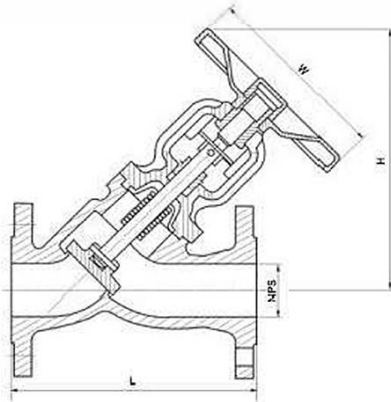
### Main Parts Materials

| NO. | Part Name    | Material                                         |
|-----|--------------|--------------------------------------------------|
| 1   | Body         | GS-C25, 1.7363, 1.4308, 1.4408, 1.4306, 1.4301   |
| 2   | Disc         | A182 F6a, 1.7363, 1.4308, 1.4408, 1.4306, 1.4301 |
| 3   | Pin          | A182 F6a, 1.7363, 1.4308, 1.4408, 1.4306, 1.4301 |
| 4   | Stem         | A182 F6a, A182 F304, A182 F316                   |
| 5   | Bellow Seal  | 1Cr18Ni9Ti, 304, 316                             |
| 6   | Bonnet       | GS-C25, 1.7363, 1.4308, 1.4408, 1.4306, 1.4301   |
| 7   | Packing      | Flexible Graphite, PTFE                          |
| 8   | Gland Flange | GS-C25, 1.7363, 1.4308, 1.4408, 1.4306, 1.4301   |
| 9   | Handwheel    | Ductile Iron, Carbon Steel                       |
| 10  | Yoke Nut     | Copper Alloy, A439 D2                            |
| 11  | Bolt         | ASTM A193-B7, A193-B8, A193-B9M                  |
| 12  | Nut          | ASTM A194-2H, A194-8, A194-8M                    |
| 13  | Gasket       | Flexible Graphite+Stainless Steel, PTFE          |



PN1.6Mpa~4.0Mpa

**DIN Bellow Seal Y-Type Globe Valve**

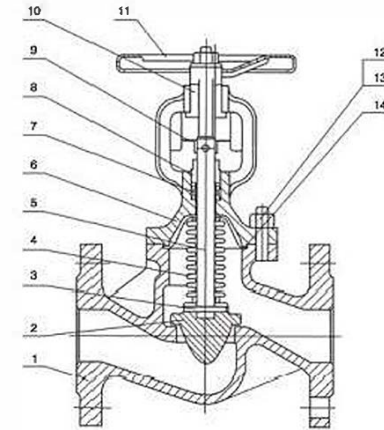


| Dimensions Data |          |     |     |     |     |      |     |     |     |     |     |     |     |     |     |
|-----------------|----------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Model           | DWJ45-16 |     |     |     |     |      |     |     |     |     |     |     |     |     |     |
| Pressure        | PN16     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |
| Size            | 15       | 20  | 25  | 32  | 40  | 50   | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350 |
| L               | 130      | 150 | 160 | 180 | 200 | 230  | 290 | 310 | 350 | 400 | 480 | 600 | 730 | 850 | 980 |
| H               | 195      | 195 | 200 | 200 | 230 | 235  | 260 | 275 | 350 | 385 | 445 | 605 | 730 | 805 | 880 |
| W               | 120      | 140 | 140 | 180 | 200 | 220  | 260 | 280 | 300 | 340 | 400 | 450 | 450 | 500 | 500 |
| Weight(Kg)      | 4        | 4.5 | 5   | 7   | 9   | 12.5 | 18  | 23  | 41  | 54  | 90  | 160 | 260 | 410 | 610 |

| Model      | DWJ45-25 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pressure   | PN25     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Size       | 15       | 20  | 25  | 32  | 40  | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350 |
| L          | 130      | 150 | 160 | 180 | 200 | 230 | 290 | 310 | 350 | 400 | 480 | 600 | 730 | 850 | 980 |
| H          | 195      | 195 | 200 | 200 | 230 | 235 | 260 | 275 | 350 | 385 | 445 | 605 | 730 | 805 | 880 |
| W          | 120      | 140 | 140 | 180 | 200 | 220 | 260 | 280 | 300 | 340 | 400 | 450 | 450 | 500 | 500 |
| Weight(Kg) | 4        | 4.5 | 5   | 7.5 | 9.5 | 13  | 19  | 24  | 43  | 57  | 95  | 168 | 300 | 510 | 880 |

| Model      | DWJ45-40 |     |     |     |     |      |     |     |     |     |     |     |     |     |     |
|------------|----------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pressure   | PN40     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |
| Size       | 15       | 20  | 25  | 32  | 40  | 50   | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350 |
| L          | 130      | 150 | 160 | 180 | 200 | 230  | 290 | 310 | 350 | 400 | 480 | 600 | 730 | 850 | 980 |
| H          | 195      | 195 | 200 | 200 | 230 | 235  | 260 | 275 | 350 | 385 | 445 | 605 | 730 | 805 | 880 |
| W          | 120      | 140 | 140 | 180 | 200 | 220  | 260 | 280 | 300 | 340 | 400 | 450 | 450 | 500 | 500 |
| Weight(Kg) | 4        | 4.5 | 5   | 8   | 10  | 13.5 | 20  | 25  | 45  | 60  | 98  | 171 | 340 | 580 | 790 |

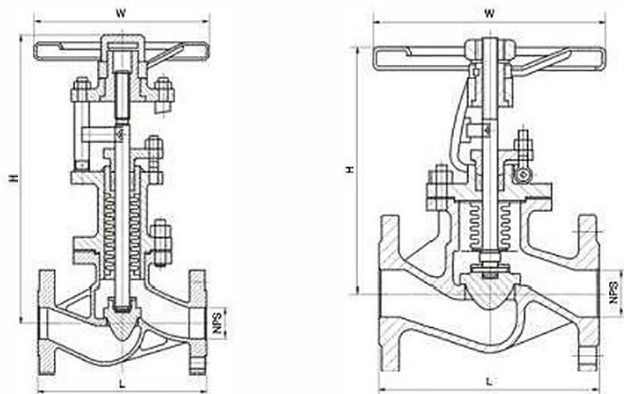
**DIN Parabola Bellow Seal Globe Valve**



| Main Parts Materials |              |                                                  |
|----------------------|--------------|--------------------------------------------------|
| NO.                  | Part Name    | Material                                         |
| 1                    | Body         | GS-C25, 1.7363, 1.4308, 1.4408, 1.4306, 1.4301   |
| 2                    | Disc         | A182 F6a, 1.7363, 1.4308, 1.4408, 1.4306, 1.4301 |
| 3                    | Pin          | A182 F6a, 1.7363, 1.4308, 1.4408, 1.4306, 1.4301 |
| 4                    | Bellow Seal  | 1Cr18Ni9Ti, 304, 316                             |
| 5                    | Stem         | A182 F6a, A182 F304, A182 F316                   |
| 6                    | Bonnet       | GS-C25, 1.7363, 1.4308, 1.4408, 1.4306, 1.4301   |
| 7                    | Packing      | Flexible Graphite, PTFE                          |
| 8                    | Gland Flange | GS-C25, 1.7363, 1.4308, 1.4408, 1.4306, 1.4301   |
| 9                    | Guide Block  | GS-C25, 1.7363, 1.4308, 1.4408, 1.4308, 1.4301   |
| 10                   | Yoke Nut     | Copper Alloy, A439 D2                            |
| 11                   | Handwheel    | Ductile Iron, Carbon Steel                       |
| 12                   | Bolt         | ASTM A193-B7, A193-B8, A193-B8M                  |
| 13                   | Nut          | ASTM A194-2H, A194-8, A194-8M                    |
| 14                   | Gasket       | Flexible Graphite+Stainless Steel, PTFE          |

PN1.6Mpa~4.0Mpa

**DIN Parabola Bellow Seal Globe Valve**



**Dimensions Data**

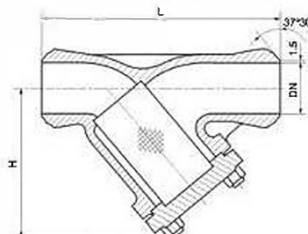
| Model      | DWL41-16 |     |     |     |     |      |     |     |     |     |     |     |     |     |
|------------|----------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|
| Pressure   | PN16     |     |     |     |     |      |     |     |     |     |     |     |     |     |
| Size       | 15       | 20  | 25  | 32  | 40  | 50   | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 |
| L          | 130      | 150 | 160 | 180 | 200 | 230  | 290 | 310 | 350 | 400 | 480 | 600 | 730 | 850 |
| H          | 195      | 200 | 220 | 225 | 235 | 250  | 260 | 265 | 370 | 400 | 515 | 550 | 600 | 630 |
| W          | 130      | 130 | 130 | 130 | 150 | 150  | 180 | 180 | 200 | 200 | 400 | 450 | 450 | 500 |
| Weight(Kg) | 4        | 4.5 | 5   | 7   | 9   | 12.5 | 18  | 23  | 41  | 54  | 90  | 160 | 260 | 411 |

| Model      | DWL41-25 |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pressure   | PN25     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Size       | 15       | 20  | 25  | 32  | 40  | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 |
| L          | 130      | 150 | 160 | 180 | 200 | 230 | 290 | 310 | 350 | 400 | 480 | 600 | 730 | 850 |
| H          | 195      | 200 | 220 | 225 | 235 | 250 | 260 | 265 | 370 | 400 | 515 | 550 | 600 | 630 |
| W          | 130      | 130 | 130 | 130 | 150 | 150 | 180 | 180 | 200 | 200 | 400 | 450 | 450 | 500 |
| Weight(Kg) | 4        | 4.5 | 5   | 7.5 | 9.5 | 13  | 19  | 24  | 43  | 57  | 95  | 168 | 300 | 510 |

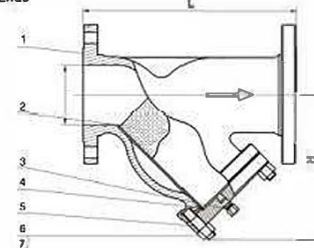
| Model      | DWL41-40 |     |     |     |     |      |     |     |     |     |     |     |     |     |
|------------|----------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|
| Pressure   | PN40     |     |     |     |     |      |     |     |     |     |     |     |     |     |
| Size       | 15       | 20  | 25  | 32  | 40  | 50   | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 |
| L          | 130      | 150 | 160 | 180 | 200 | 230  | 290 | 310 | 350 | 400 | 480 | 600 | 730 | 850 |
| H          | 195      | 200 | 220 | 225 | 235 | 250  | 260 | 265 | 370 | 400 | 515 | 550 | 600 | 630 |
| W          | 130      | 130 | 130 | 130 | 150 | 150  | 180 | 180 | 200 | 200 | 400 | 450 | 450 | 500 |
| Weight(Kg) | 4        | 4.5 | 5   | 8   | 10  | 13.5 | 20  | 25  | 45  | 60  | 98  | 171 | 340 | 580 |

**Standards**

Design and Manufacture: BS 1873, BS EN 13709  
Face to Face Dimensions: DIN3202, BS EN 558-1  
Flange Ends Dimensions: DIN2543-2551, BS EN 1092-1  
Test & Inspection: DIN3230, BS EN 12569



BW Ends



**Percentage Open Area**

Even the mesh is same, open area is not always same due to the diameter of wire. The details of wire as follows:

A: Number of Wire B: Diameter of Wire  
C: Width of Opening D: Percentage of Open Area

| MESH | A<br>SWG | B<br>m/m | C<br>m/m | D<br>% |
|------|----------|----------|----------|--------|
| 5    | 20       | 0.914    | 4.166    | 67.3   |
| 10   | 22       | 0.711    | 1.829    | 51.8   |
| 20   | 28       | 0.356    | 0.914    | 51.8   |
| 30   | 32       | 0.274    | 0.572    | 45.7   |
| 40   | 36       | 0.193    | 0.442    | 48.4   |
| 50   | 37       | 0.172    | 0.336    | 43.6   |
| 60   | 38       | 0.152    | 0.271    | 41.0   |
| 80   | 40       | 0.122    | 0.195    | 37.8   |
| 100  | 42       | 0.102    | 0.152    | 35.8   |
| 120  | 43       | 0.092    | 0.119    | 31.8   |
| 150  | 45 1/2   | 0.086    | 0.103    | 37.1   |
| 180  | 46 1/2   | 0.053    | 0.088    | 38.9   |
| 200  | 47       | 0.051    | 0.076    | 35.8   |
| 250  | 48       | 0.040    | 0.062    | 37.7   |
| 300  | 48       | 0.039    | 0.044    | 27.6   |

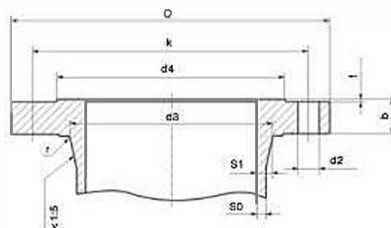
**Main Parts Materials**

| NO. | Part Name | Material         |                  |                  |
|-----|-----------|------------------|------------------|------------------|
| 1   | Body      | DIN 17245 GS-C25 | DIN 17445 1.4308 | DIN 17445 1.4408 |
| 2   | Screen    | SS304            | SS304            | SS316            |
| 3   | Plug      | ASTM 193 B7      | ASTM 193 B8      | ASTM 193 B8      |
| 4   | Gasket    | ASTM 194 2H      | ASTM 194 8       | ASTM 194 8       |
| 5   | Cover     | Graphite+SS304   | Graphite+SS304   | Graphite+SS316   |
| 6/7 | Bolt/Nut  | DIN 17245 GS-C25 | DIN 17445 1.4308 | DIN 17445 1.4408 |

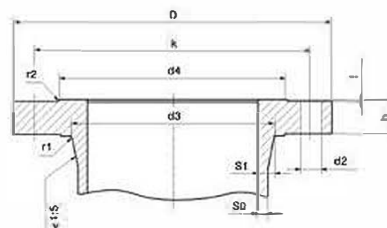
**Dimensions Data**

| PN16(DIN 3202-F1) |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-------------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| DN                | mm | 15  | 20  | 25  | 32  | 40  | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350 |
| L                 | mm | 130 | 150 | 160 | 180 | 200 | 230 | 290 | 310 | 350 | 400 | 480 | 600 | 730 | 850 | 980 |
| H                 | mm | 98  | 103 | 108 | 115 | 140 | 150 | 175 | 205 | 245 | 285 | 335 | 415 | 490 | 570 | 618 |
| PN25(DIN 3202-F1) |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| DN                | mm | 15  | 20  | 25  | 32  | 40  | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350 |
| L                 | mm | 130 | 150 | 160 | 180 | 200 | 230 | 290 | 310 | 350 | 400 | 480 | 600 | 730 | 850 | 980 |
| H                 | mm | 98  | 103 | 108 | 115 | 140 | 150 | 175 | 205 | 245 | 285 | 335 | 415 | 490 | 570 | 618 |
| PN40(DIN 3202-F1) |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| DN                | mm | 15  | 20  | 25  | 32  | 40  | 50  | 65  | 80  | 100 | 125 | 150 | 200 | 250 | 300 | 350 |
| L                 | mm | 130 | 150 | 160 | 180 | 200 | 230 | 290 | 310 | 350 | 400 | 480 | 600 | 730 | 850 | 980 |
| H                 | mm | 98  | 103 | 108 | 115 | 140 | 150 | 175 | 205 | 245 | 285 | 335 | 415 | 490 | 570 | 618 |





(A) 1.6~4.0MPa



(B) 6.4~40.0MPa

**PN1.6MPa Flange Ends (BS EN 1092-1:2005)**

| DN    | Flange                                        |    |      | Flange Neck |                |                      |    | Raised Face    |   | Bolt   |      |                |
|-------|-----------------------------------------------|----|------|-------------|----------------|----------------------|----|----------------|---|--------|------|----------------|
|       | D                                             | b  | k    | So          | d <sub>1</sub> | S <sub>1</sub> (max) | r  | d <sub>2</sub> | f | Number | Size | d <sub>2</sub> |
| 10~50 | For DN≤50, the size conform to DN 2545 4.0MPa |    |      |             |                |                      |    |                |   |        |      |                |
| 65    | 185                                           | 18 | 145  | 8           | 93             | 14                   | 5  | 122            | 3 | 4      | M16  | 18             |
| 80    | 200                                           | 20 | 180  | 8.5         | 110            | 15                   | 5  | 138            | 3 |        |      |                |
| 100   | 220                                           | 20 | 180  | 9.5         | 130            | 15                   | 5  | 158            | 3 |        |      |                |
| 125   | 250                                           | 22 | 210  | 10          | 159            | 17                   | 6  | 189            | 3 | 8      |      |                |
| 150   | 285                                           | 22 | 240  | 11          | 184            | 17                   | 6  | 212            | 3 |        | M20  | 22             |
| (175) | 315                                           | 24 | 270  | 12          | 211            | 18                   | 6  | 242            | 3 |        |      |                |
| 200   | 340                                           | 24 | 295  | 12          | 236            | 18                   | 6  | 266            | 3 | 12     | M24  | 26             |
| 250   | 405                                           | 26 | 355  | 14          | 290            | 20                   | 8  | 320            | 3 |        |      |                |
| 300   | 460                                           | 28 | 410  | 15          | 342            | 21                   | 8  | 378            | 4 | 16     | M27  | 30             |
| 350   | 520                                           | 30 | 470  | 16          | 398            | 23                   | 8  | 438            | 4 |        |      |                |
| 400   | 580                                           | 32 | 525  | 18          | 448            | 24                   | 10 | 490            | 4 | 20     | M30  | 33             |
| 600   | 715                                           | 36 | 650  | 21          | 554            | 27                   | 10 | 610            | 4 |        |      |                |
| 600   | 840                                           | 40 | 770  | 23          | 660            | 30                   | 10 | 725            | 5 | 24     | M33  | 38             |
| 700   | 910                                           | 42 | 840  | 24          | 760            | 30                   | 12 | 795            | 5 |        |      |                |
| 800   | 1026                                          | 42 | 950  | 26          | 864            | 32                   | 12 | 900            | 5 | 28     | M36  | 39             |
| 900   | 1125                                          | 44 | 1050 | 27          | 966            | 33                   | 12 | 1000           | 5 |        |      |                |
| 1000  | 1255                                          | 46 | 1170 | 29          | 1070           | 35                   | 12 | 1115           | 5 | 32     | M39  | 42             |
| 1200  | 1485                                          | 52 | 1390 | 32          | 1278           | 39                   | 15 | 1330           | 6 |        |      |                |
| 1400  | 1685                                          | 58 | 1590 | 34          | 1488           | 44                   | 15 | 1530           | 6 | 36     | M45  | 48             |
| 1600  | 1930                                          | 64 | 1820 | 36          | 1696           | 48                   | 18 | 1750           | 6 | 40     |      |                |
| 1800  | 2130                                          | 68 | 2020 | 39          | 1902           | 51                   | 18 | 1950           | 6 | 44     | M52  | 56             |
| 2000  | 2345                                          | 70 | 2230 | 41          | 2106           | 53                   | 18 | 2150           | 6 | 48     |      |                |
| 2200  | 2555                                          | 74 | 2440 | 43          | 2312           | 56                   | 18 | 2360           | 6 | 52     | M56  | 62             |

**PN2.5MPa Flange Ends (BS EN 1092-1:2005)**

| DN     | Flange                                        |    |      | Flange Neck |                |                      |    | Raised Face    |   | Bolt   |      |                |
|--------|-----------------------------------------------|----|------|-------------|----------------|----------------------|----|----------------|---|--------|------|----------------|
|        | D                                             | b  | k    | So          | d <sub>1</sub> | S <sub>1</sub> (max) | r  | d <sub>2</sub> | f | Number | Size | d <sub>2</sub> |
| 10~150 | For DN≤150 the size conform to DN 2545 4.0MPa |    |      |             |                |                      |    |                |   |        |      |                |
| 175    | 330                                           | 28 | 280  | 12          | 217            | 21                   | 8  | 248            | 3 | 12     | M24  | 26             |
| 200    | 360                                           | 30 | 310  | 12          | 236            | 23                   | 8  | 270            | 3 |        |      |                |
| 250    | 425                                           | 32 | 370  | 14          | 298            | 24                   | 10 | 335            | 3 | 16     | M27  | 30             |
| 300    | 485                                           | 34 | 430  | 15          | 352            | 26                   | 10 | 395            | 4 |        |      |                |
| 350    | 555                                           | 38 | 490  | 16          | 409            | 29                   | 10 | 450            | 4 | 20     | M30  | 33             |
| 400    | 620                                           | 40 | 550  | 18          | 460            | 30                   | 10 | 505            | 4 |        |      |                |
| 500    | 730                                           | 44 | 660  | 21          | 566            | 33                   | 12 | 615            | 4 | 24     | M33  | 36             |
| 600    | 845                                           | 46 | 770  | 23          | 670            | 35                   | 12 | 720            | 5 |        |      |                |
| 700    | 960                                           | 50 | 875  | 24          | 776            | 38                   | 12 | 820            | 5 | 28     | M36  | 39             |
| 800    | 1085                                          | 54 | 990  | 28          | 882            | 41                   | 15 | 930            | 5 |        |      |                |
| 900    | 1185                                          | 58 | 1090 | 27          | 988            | 44                   | 15 | 1030           | 5 | 32     | M39  | 42             |
| 1000   | 1320                                          | 62 | 1210 | 29          | 1094           | 47                   | 18 | 1140           | 5 |        |      |                |
| 1200   | 1530                                          | 70 | 1420 | 32          | 1306           | 53                   | 16 | 1350           | 6 | 40     | M45  | 48             |
| 1400   | 1755                                          | 76 | 1640 | 34          | 1514           | 57                   | 18 | 1560           | 5 |        |      |                |
| 1600   | 1975                                          | 84 | 1860 | 37          | 1726           | 63                   | 20 | 1760           | 5 | 44     | M52  | 56             |
| 1800   | 2195                                          | 90 | 2070 | 40          | 1963           | 68                   | 20 | 1985           | 6 |        |      |                |
| 2000   | 2425                                          | 96 | 2300 | 43          | 2144           | 72                   | 20 | 2210           | 5 | 48     | M64  | 70             |

**PN4.0 Mpa Flange Ends (BS EN 1092-1:2005)**

| DN    | Flange |     |      | Flange Neck |                |                      |    | Raised Face    |   | Bolt   |      |                |
|-------|--------|-----|------|-------------|----------------|----------------------|----|----------------|---|--------|------|----------------|
|       | D      | b   | k    | So          | d <sub>1</sub> | S <sub>1</sub> (max) | r  | d <sub>2</sub> | f | Number | Size | d <sub>2</sub> |
| 10    | 90     | 16  | 60   | 6           | 30             | 10                   | 4  | 40             | 2 | 4      | M12  | 14             |
| 15    | 95     | 16  | 65   | 6           | 37             | 11                   | 4  | 45             | 2 |        |      |                |
| 20    | 105    | 18  | 75   | 6.5         | 44             | 12                   | 5  | 58             | 2 |        |      |                |
| 25    | 115    | 18  | 85   | 7           | 53             | 14                   | 5  | 68             | 2 |        |      |                |
| 32    | 140    | 16  | 100  | 7           | 60             | 14                   | 5  | 78             | 2 | 8      | M16  | 16             |
| 40    | 150    | 18  | 110  | 7.5         | 68             | 14                   | 5  | 88             | 2 |        |      |                |
| 50    | 165    | 18  | 125  | 8           | 80             | 15                   | 5  | 102            | 2 |        |      |                |
| 65    | 185    | 22  | 145  | 8.5         | 99             | 17                   | 6  | 122            | 2 |        |      |                |
| 80    | 200    | 24  | 160  | 9           | 116            | 18                   | 6  | 138            | 2 | 12     | M20  | 22             |
| 100   | 235    | 24  | 190  | 10          | 136            | 18                   | 6  | 162            | 2 |        |      |                |
| 125   | 270    | 26  | 220  | 11          | 165            | 20                   | 8  | 188            | 2 |        |      |                |
| 150   | 300    | 28  | 250  | 12          | 192            | 21                   | 8  | 218            | 2 |        |      |                |
| (175) | 350    | 32  | 295  | 13          | 223            | 24                   | 10 | 260            | 2 | 16     | M24  | 26             |
| 200   | 375    | 34  | 320  | 14          | 252            | 26                   | 10 | 285            | 2 |        |      |                |
| 250   | 450    | 38  | 385  | 16          | 308            | 29                   | 10 | 345            | 2 |        |      |                |
| 300   | 515    | 42  | 450  | 17          | 364            | 32                   | 12 | 410            | 2 |        |      |                |
| 350   | 580    | 46  | 510  | 19          | 420            | 35                   | 12 | 465            | 2 | 20     | M27  | 30             |
| 400   | 660    | 50  | 585  | 21          | 476            | 38                   | 12 | 535            | 2 |        |      |                |
| (450) | 685    | 50  | 610  | 21          | 526            | 38                   | 12 | 560            | 2 |        |      |                |
| 500   | 755    | 52  | 670  | 21          | 576            | 39                   | 15 | 615            | 2 |        |      |                |
| 600   | 890    | 60  | 795  | 24          | 690            | 45                   | 15 | 735            | 2 | 24     | M30  | 33             |
| 700   | 995    | 64  | 900  | 27          | 796            | 46                   | 16 | 840            | 2 |        |      |                |
| 800   | 1140   | 72  | 1030 | 30          | 908            | 54                   | 18 | 960            | 2 |        |      |                |
| 900   | 1250   | 76  | 1140 | 33          | 1014           | 57                   | 16 | 1070           | 2 |        |      |                |
| 1000  | 1360   | 80  | 1250 | 36          | 1120           | 60                   | 20 | 1180           | 2 | 28     | M33  | 36             |
| 1200  | 1575   | 88  | 1460 | 42          | 1332           | 66                   | 20 | 1380           | 2 |        |      |                |
| 1400  | 1795   | 98  | 1680 | 47          | 1548           | 74                   | 20 | 1600           | 2 |        |      |                |
| 1600  | 2025   | 109 | 1900 | 54          | 1762           | 81                   | 20 | 1815           | 2 | 32     | M36  | 39             |
|       |        |     |      |             |                |                      |    |                |   | 36     |      |                |
|       |        |     |      |             |                |                      |    |                |   | 40     | M39  | 42             |
|       |        |     |      |             |                |                      |    |                |   |        |      |                |
|       |        |     |      |             |                |                      |    |                |   |        | M45  | 48             |
|       |        |     |      |             |                |                      |    |                |   |        |      |                |
|       |        |     |      |             |                |                      |    |                |   |        | M52  | 56             |
|       |        |     |      |             |                |                      |    |                |   |        |      |                |
|       |        |     |      |             |                |                      |    |                |   |        | M56  | 62             |
|       |        |     |      |             |                |                      |    |                |   |        |      |                |
|       |        |     |      |             |                |                      |    |                |   |        | M64  | 70             |
|       |        |     |      |             |                |                      |    |                |   |        |      |                |

**PN6.3 MPa Flange Ends (BS EN 1092-1:2005)**

| DN    | Flange                                             |     |      | Flange Neck    |                |                         |    | Raised Face    |   |                | Bolt   |       |                |
|-------|----------------------------------------------------|-----|------|----------------|----------------|-------------------------|----|----------------|---|----------------|--------|-------|----------------|
|       | D                                                  | b   | k    | S <sub>0</sub> | d <sub>1</sub> | S <sub>1</sub><br>(max) | r  | d <sub>4</sub> | f | r <sub>2</sub> | Number | Size  | d <sub>2</sub> |
| 10-25 | For DN 10-DN25 the size conform to DIN2548 16.0MPa |     |      |                |                |                         |    |                |   |                |        |       |                |
| 32    | For DN 32 the size conform to DIN2547 10.0MPa      |     |      |                |                |                         |    |                |   |                |        |       |                |
| 40    | For DN 40 the size conform to DIN2548 16.0MPa      |     |      |                |                |                         |    |                |   |                |        |       |                |
| 50    | 180                                                | 26  | 135  | 10             | 90             | 20                      | 5  | 102            | 3 | 1.5            | 4      | M20   | 22             |
| 65    | 205                                                | 26  | 160  | 10             | 105            | 20                      | 5  | 122            | 3 | 1.5            |        |       |                |
| 80    | 215                                                | 28  | 170  | 11             | 122            | 21                      | 5  | 138            | 3 | 1.5            |        |       |                |
| 100   | 250                                                | 30  | 200  | 12             | 146            | 23                      | 5  | 162            | 3 | 1.5            |        |       |                |
| 125   | 295                                                | 34  | 240  | 13             | 177            | 26                      | 6  | 188            | 3 | 1.5            | 8      | M24   | 26             |
| 150   | 345                                                | 36  | 280  | 14             | 204            | 27                      | 6  | 218            | 3 | 1.5            |        |       |                |
| (175) | 375                                                | 40  | 310  | 15             | 235            | 30                      | 8  | 260            | 3 | 1.5            |        |       |                |
| 200   | 415                                                | 42  | 345  | 16             | 264            | 32                      | 8  | 285            | 3 | 1.5            |        |       |                |
| 250   | 470                                                | 46  | 400  | 19             | 320            | 35                      | 8  | 345            | 3 | 1.5            | 12     | M33   | 36             |
| 300   | 530                                                | 52  | 460  | 21             | 378            | 39                      | 10 | 410            | 4 | 2              |        |       |                |
| 350   | 600                                                | 56  | 525  | 23             | 434            | 42                      | 10 | 465            | 4 | 2              |        |       |                |
| 400   | 670                                                | 60  | 585  | 26             | 490            | 45                      | 12 | 535            | 4 | 2              |        |       |                |
| 500   | 800                                                | 68  | 705  | 31             | 602            | 51                      | 12 | 615            | 4 | 2              | 16     | M36   | 39             |
| 600   | 930                                                | 76  | 820  | 35             | 714            | 57                      | 15 | 735            | 4 | 2              |        |       |                |
| 700   | 1045                                               | 84  | 935  | 40             | 826            | 63                      | 15 | 840            | 4 | 2              |        |       |                |
| 800   | 1165                                               | 92  | 1050 | 45             | 938            | 69                      | 18 | 960            | 4 | 2              |        |       |                |
| 900   | 1285                                               | 98  | 1170 | 50             | 1046           | 74                      | 18 | 1070           | 4 | 2              | 20     | M39   | 42             |
| 1000  | 1415                                               | 108 | 1290 | 55             | 1162           | 81                      | 18 | 1180           | 4 | 2              |        |       |                |
| 1200  | 1665                                               | 126 | 1530 | 64             | 1390           | 95                      | 18 | 1380           | 4 | 2              |        |       |                |
| 1400  | 1815                                               | 136 | 1680 | 74             | 1540           | 105                     | 18 | 1530           | 4 | 2              |        |       |                |
| 1600  | 2015                                               | 146 | 1880 | 84             | 1740           | 115                     | 18 | 1730           | 4 | 2              | 24     | M45   | 48             |
| 1800  | 2215                                               | 156 | 2080 | 94             | 1940           | 125                     | 18 | 1930           | 4 | 2              |        |       |                |
| 2000  | 2415                                               | 166 | 2280 | 104            | 2140           | 135                     | 18 | 2130           | 4 | 2              |        |       |                |
| 2200  | 2615                                               | 176 | 2480 | 114            | 2340           | 145                     | 18 | 2330           | 4 | 2              |        |       |                |
| 2400  | 2815                                               | 186 | 2680 | 124            | 2540           | 155                     | 18 | 2530           | 4 | 2              | 28     | M52   | 56             |
| 2600  | 3015                                               | 196 | 2880 | 134            | 2740           | 165                     | 18 | 2730           | 4 | 2              |        |       |                |
| 2800  | 3215                                               | 206 | 3080 | 144            | 2940           | 175                     | 18 | 2930           | 4 | 2              |        |       |                |
| 3000  | 3415                                               | 216 | 3280 | 154            | 3140           | 185                     | 18 | 3130           | 4 | 2              |        |       |                |
| 3200  | 3615                                               | 226 | 3480 | 164            | 3340           | 195                     | 18 | 3330           | 4 | 2              | 32     | M56   | 62             |
| 3400  | 3815                                               | 236 | 3680 | 174            | 3540           | 205                     | 18 | 3530           | 4 | 2              |        |       |                |
| 3600  | 4015                                               | 246 | 3880 | 184            | 3740           | 215                     | 18 | 3730           | 4 | 2              |        |       |                |
| 3800  | 4215                                               | 256 | 4080 | 194            | 3940           | 225                     | 18 | 3930           | 4 | 2              |        |       |                |
| 4000  | 4415                                               | 266 | 4280 | 204            | 4140           | 235                     | 18 | 4130           | 4 | 2              | 28     | M64   | 70             |
| 4200  | 4615                                               | 276 | 4480 | 214            | 4340           | 245                     | 18 | 4330           | 4 | 2              |        |       |                |
| 4400  | 4815                                               | 286 | 4680 | 224            | 4540           | 255                     | 18 | 4530           | 4 | 2              |        |       |                |
| 4600  | 5015                                               | 296 | 4880 | 234            | 4740           | 265                     | 18 | 4730           | 4 | 2              |        |       |                |
| 4800  | 5215                                               | 306 | 5080 | 244            | 4940           | 275                     | 18 | 4930           | 4 | 2              | 32     | M72X6 | 78             |
| 5000  | 5415                                               | 316 | 5280 | 254            | 5140           | 285                     | 18 | 5130           | 4 | 2              |        |       |                |
| 5200  | 5615                                               | 326 | 5480 | 264            | 5340           | 295                     | 18 | 5330           | 4 | 2              |        |       |                |
| 5400  | 5815                                               | 336 | 5680 | 274            | 5540           | 305                     | 18 | 5530           | 4 | 2              |        |       |                |

**PN10.0 MPa Flange Ends (BS EN 1092-1:2005)**

| DN     | Flange                                              |     |      | Flange Neck    |                |                         |    | Raised Face    |   |                | Bolt   |      |                |    |
|--------|-----------------------------------------------------|-----|------|----------------|----------------|-------------------------|----|----------------|---|----------------|--------|------|----------------|----|
|        | D                                                   | b   | k    | S <sub>0</sub> | d <sub>1</sub> | S <sub>1</sub><br>(max) | r  | d <sub>4</sub> | f | r <sub>2</sub> | Number | Size | d <sub>2</sub> |    |
| 10~25  | For DN 10-DN25 the size conform to DI N2548 16.0MPa |     |      |                |                |                         |    |                |   |                |        |      |                |    |
| 32     | 155                                                 | 24  | 110  | 12             | 63             | 15                      | 6  | 75             | 3 | 1.5            | 4      | M20  | 22             |    |
| 40~100 | For DN 40-DN100 the size conform to DIN2548 16.0MPa |     |      |                |                |                         |    |                |   |                |        |      |                |    |
| 125    | 315                                                 | 40  | 250  | 16             | 185            | 30                      | 6  | 188            | 3 | 1.5            | 8      | M30  | 33             |    |
| 150    | 355                                                 | 44  | 290  | 18             | 216            | 33                      | 6  | 218            | 3 | 1.5            | 12     |      |                |    |
| (175)  | 385                                                 | 48  | 320  | 20             | 247            | 36                      | 8  | 260            | 3 | 1.5            |        |      |                |    |
| 200    | 430                                                 | 52  | 360  | 21             | 278            | 39                      | 8  | 285            | 3 | 1.5            |        |      |                |    |
| 250    | 505                                                 | 60  | 430  | 25             | 340            | 45                      | 8  | 345            | 3 | 1.5            | 16     | M36  | 39             |    |
| 300    | 585                                                 | 68  | 500  | 29             | 402            | 51                      | 10 | 410            | 4 | 2              |        | 20   | M45            | 48 |
| 350    | 655                                                 | 74  | 560  | 32             | 460            | 55                      | 10 | 465            | 4 | 2              |        |      |                |    |
| 400    | 715                                                 | 78  | 620  | 36             | 518            | 59                      | 12 | 535            | 4 | 2              |        |      |                |    |
| 500    | 870                                                 | 94  | 760  | 44             | 630            | 70                      | 15 | 615            | 4 | 2              | 24     | M64  | 70             |    |
| 600    | 990                                                 | 104 | 875  | 51             | 740            | 78                      | 15 | 735            | 4 | 2              |        |      |                |    |
| 700    | 1145                                                | 120 | 1020 | 59             | 860            | 90                      | 18 | 840            | 4 | 2              |        |      |                |    |

**PN 16.0MPa Flange Ends (BS EN 1092-1:2005)**

| DN    |                | Flange |    |     |                | Flange Neck    |                |                |                | Raised Face |                |        | Bolt |                |  |
|-------|----------------|--------|----|-----|----------------|----------------|----------------|----------------|----------------|-------------|----------------|--------|------|----------------|--|
|       | d <sub>b</sub> | D      | b  | k   | S <sub>0</sub> | d <sub>1</sub> | S <sub>1</sub> | S <sub>0</sub> | d <sub>4</sub> | f           | r <sub>2</sub> | Number | Size | d <sub>2</sub> |  |
| 10    | 10             | 100    | 20 | 70  | 10             | 40             | 15             | 4              | 40             | 2           | 1              | 4      | M12  | 14             |  |
| 15    | 15             | 105    | 20 | 75  | 10             | 45             | 15             | 4              | 45             | 2           | 1              |        | M16  | 18             |  |
| 25    | 25             | 140    | 24 | 100 | 10             | 61             | 18             | 4              | 68             | 2           | 1              |        |      |                |  |
| 40    | 40             | 170    | 28 | 125 | 10             | 82             | 21             | 4              | 88             | 3           | 1.5            |        |      |                |  |
| 50    | 50             | 195    | 30 | 145 | 10             | 96             | 23             | 4              | 102            | 3           | 1.5            | 8      | M24  | 26             |  |
| 65    | 70             | 220    | 34 | 170 | 11             | 118            | 24             | 5              | 122            | 3           | 1.5            |        |      |                |  |
| 80    | 80             | 230    | 36 | 180 | 12             | 128            | 24             | 5              | 138            | 3           | 1.5            |        |      |                |  |
| 100   | 97             | 265    | 40 | 210 | 14             | 150            | 25             | 5              | 162            | 3           | 1.5            |        |      |                |  |
| 125   | 130            | 315    | 44 | 250 | 16             | 184            | 29.5           | 6              | 188            | 3           | 1.5            | 12     | M30  | 33             |  |
| 150   | 153            | 355    | 50 | 290 | 18             | 224            | 37             | 8              | 218            | 3           | 1.5            |        |      |                |  |
| (175) | 171            | 390    | 54 | 320 | 19             | 250            | 37.5           | 8              | 260            | 3           | 1.5            |        |      |                |  |
| 200   | 194            | 430    | 60 | 360 | 21             | 288            | 44             | 8              | 285            | 3           | 1.5            |        |      |                |  |
| 250   | 239            | 515    | 68 | 430 | 31             | 346            | 48             | 8              | 345            | 3           | 1.5            | 16     | M39  | 42             |  |
| 300   | 286            | 585    | 78 | 500 | 36             | 414            | 57             | 10             | 410            | 4           | 2              |        |      |                |  |