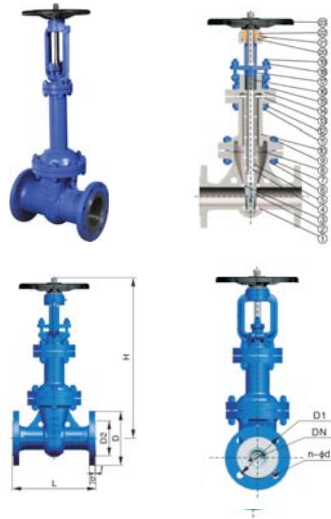


## DIN STANDARD BELLOW SEAL GATE VALVE



### TECHNICAL SPECIFICATION

Design standard: DIN 3352  
Face to face dimension: DIN 3202  
Flanged ends: DIN 2543-2545  
Test & inspection: DIN 3230

### APPLICATION

Steam, thermal oil, rank poison and strong corrupt gas and liquid medium.

### PERFORMANCE SPECIFICATION

| NO. | Part name          | Material                           |
|-----|--------------------|------------------------------------|
| 1   | Body               | GS-C25, 1.4301, 1.4401             |
| 2   | Disc               | GS-C25+1.4201/1.4301               |
| 3   | Seat               | 1.4301, Stellite                   |
| 4   | Stem               | 1.4021, 1.4301, 1.4401             |
| 5   | Bellows            | 1.4301, 1.4401                     |
| 6   | Double-headed bolt | ASTM 193-B7, A193-B8               |
| 7   | Nut                | ASTM 194-2H, A194-8                |
| 8   | Metal gasket       | Asbestos+ Stainless steel          |
| 9   | Nut                | ASTM 194-2H, A194-8                |
| 10  | Middle yoke        | GS-C25, 1.4301, 1.4401             |
| 11  | Double-headed bolt | ASTM 193-B7, A193-B8               |
| 12  | Nut                | ASTM 194-2H, A194-8                |
| 13  | Gasket             | Flexible graphite+ stainless steel |
| 14  | Cover              | GS-C25, 1.4301, 1.4401             |
| 15  | Nut                | ASTM 194-2H, A194-8                |
| 16  | Packing            | Flexible graphite                  |
| 17  | Gland              | GS-C25, 1.4301                     |
| 18  | Nut                | ASTM 194-2H, A194-8                |
| 19  | Jack bolt          | ASTM 193-B7, A193-B8               |
| 20  | Stem nut           | Copper alloy, D2, BL2              |
| 21  | Oil cup            | Assemble                           |
| 22  | Cap                | 1C45, 1.4301, 1.4401               |
| 23  | Hand wheel         | Carbon steel                       |

### ADVANTAGE

1. Bellow seal element. The key part of bellow sealed globe valves is mental bellow. It is the connection between cover and stem with automatic roll welding. The mental bellow can keep the stem part no leakage.
2. Double seal design(bellows+packing). Bellow and packing can protect against leakage and provide a excellent seal.
3. Grease nipple. It can direct lubricate the stem, nut and sleeve.
4. Ergonomic hand wheel. It provide longer service life and easier operation.

### PERFORMANCE SPECIFICATION

| Nominal Pressure |               | PN         | Mpa |
|------------------|---------------|------------|-----|
| Test Pressure    | Strength test | 1.5PN      |     |
|                  | Sealing test  | 1.1PN      |     |
|                  | Gas seal test | 0.6        |     |
|                  | --            | --         |     |
| Suitable temp    |               | -196℃~600℃ |     |

### MAIN CONNECTION SIZE

| PN 16                |     |     |     |     |    |   |        |        |
|----------------------|-----|-----|-----|-----|----|---|--------|--------|
| Main connection size |     |     |     |     |    |   |        |        |
| DN                   | L   | D   | D1  | D2  | b  | f | H      | n-φd   |
| 40                   | 240 | 150 | 110 | 88  | 18 | 3 | 473    | 4-φ18  |
| 50                   | 250 | 165 | 125 | 102 | 20 | 3 | 524    | 4-φ18  |
| 65                   | 270 | 185 | 145 | 122 | 22 | 3 | 567    | 4-φ18  |
| 80                   | 280 | 200 | 160 | 138 | 24 | 3 | 655    | 4-φ18  |
| 100                  | 300 | 220 | 180 | 158 | 26 | 3 | 833    | 4-φ18  |
| 125                  | 325 | 250 | 210 | 188 | 28 | 3 | 908    | 4-φ18  |
| 150                  | 350 | 285 | 240 | 212 | 30 | 3 | 1006   | 4-φ18  |
| 200                  | 400 | 340 | 295 | 268 | 34 | 3 | 1423   | 12-φ30 |
| 250                  | 450 | 405 | 355 | 320 | 38 | 3 | 1708   | 12-φ30 |
| 300                  | 500 | 460 | 410 | 374 | 42 | 4 | 2100   | 16-φ36 |
| 350                  | 550 | 520 | 470 | 438 | 46 | 4 | 2400   | 16-φ36 |
| 400                  | 600 | 580 | 525 | 490 | 50 | 4 | 2707   | 16-φ36 |
| 450                  | 650 | 640 | 585 | 548 | 54 | 4 | 2834.5 | 20-φ30 |
| 500                  | 700 | 715 | 650 | 610 | 58 | 4 | 3169   | 20-φ30 |
| 600                  | 800 | 840 | 770 | 730 | 60 | 5 | 4053   | 20-φ36 |

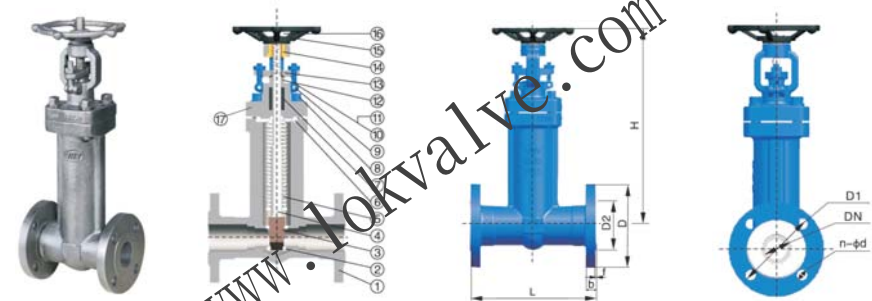
  

| PN 16                |     |     |     |     |    |   |        |        |
|----------------------|-----|-----|-----|-----|----|---|--------|--------|
| Main connection size |     |     |     |     |    |   |        |        |
| DN                   | L   | D   | D1  | D2  | b  | f | H      | n-φd   |
| 40                   | 240 | 150 | 110 | 88  | 18 | 3 | 473    | 4-φ18  |
| 50                   | 250 | 165 | 125 | 102 | 20 | 3 | 524    | 4-φ18  |
| 65                   | 270 | 185 | 145 | 122 | 22 | 3 | 567    | 4-φ18  |
| 80                   | 280 | 200 | 160 | 138 | 24 | 3 | 655    | 4-φ18  |
| 100                  | 300 | 220 | 180 | 158 | 26 | 3 | 833    | 4-φ18  |
| 125                  | 325 | 250 | 210 | 188 | 28 | 3 | 908    | 4-φ18  |
| 150                  | 350 | 285 | 240 | 212 | 30 | 3 | 1006   | 4-φ18  |
| 200                  | 400 | 340 | 295 | 268 | 34 | 3 | 1423   | 12-φ30 |
| 250                  | 450 | 405 | 355 | 320 | 38 | 3 | 1708   | 12-φ30 |
| 300                  | 500 | 460 | 410 | 374 | 42 | 4 | 2100   | 16-φ36 |
| 350                  | 550 | 520 | 470 | 438 | 46 | 4 | 2400   | 16-φ36 |
| 400                  | 600 | 580 | 525 | 490 | 50 | 4 | 2707   | 16-φ36 |
| 450                  | 650 | 640 | 585 | 548 | 54 | 4 | 2834.5 | 20-φ30 |
| 500                  | 700 | 715 | 650 | 610 | 58 | 4 | 3169   | 20-φ30 |
| 600                  | 800 | 840 | 770 | 730 | 60 | 5 | 4053   | 20-φ36 |

| PN 40                |     |     |     |     |    |   |        |        |
|----------------------|-----|-----|-----|-----|----|---|--------|--------|
| Main connection size |     |     |     |     |    |   |        |        |
| DN                   | L   | D   | D1  | D2  | b  | f | H      | n-φd   |
| 40                   | 240 | 150 | 110 | 88  | 18 | 3 | 473    | 4-φ18  |
| 50                   | 250 | 165 | 125 | 102 | 20 | 3 | 524    | 4-φ18  |
| 65                   | 270 | 185 | 145 | 122 | 22 | 3 | 567    | 4-φ18  |
| 80                   | 280 | 200 | 160 | 138 | 24 | 3 | 655    | 4-φ18  |
| 100                  | 300 | 220 | 180 | 158 | 26 | 3 | 833    | 4-φ18  |
| 125                  | 325 | 250 | 210 | 188 | 28 | 3 | 908    | 4-φ18  |
| 150                  | 350 | 285 | 240 | 212 | 30 | 3 | 1006   | 4-φ18  |
| 200                  | 400 | 340 | 295 | 268 | 34 | 3 | 1423   | 12-φ30 |
| 250                  | 450 | 405 | 355 | 320 | 38 | 3 | 1708   | 12-φ30 |
| 300                  | 500 | 460 | 410 | 374 | 42 | 4 | 2100   | 16-φ36 |
| 350                  | 550 | 520 | 470 | 438 | 46 | 4 | 2400   | 16-φ36 |
| 400                  | 600 | 580 | 525 | 490 | 50 | 4 | 2707   | 16-φ36 |
| 450                  | 650 | 640 | 585 | 548 | 54 | 4 | 2834.5 | 20-φ30 |
| 500                  | 700 | 715 | 650 | 610 | 58 | 4 | 3169   | 20-φ30 |
| 600                  | 800 | 840 | 770 | 730 | 60 | 5 | 4053   | 20-φ36 |

## FORGED STEEL BELLOW SEAL GATE VALVE



### APPLICATION

Petroleum, chemical industry, pharmacy, fertilizer, power industry etc.

### ADVANTAGE

1. Bellow seal element. The key part of bellow sealed globe valves is mental bellow. It is the connection between cover and stem with automatic roll welding. The mental bellow can keep the stem part no leakage.
2. Double seal design(bellows+packing). Bellow and packing can protect against leakage and provide a excellent seal.
3. Grease nipple. It can direct lubricate the stem, nut and sleeve.
4. Ergonomic hand wheel. It provide longer service life and easier operation.

### TECHNICAL SPECIFICATION

Design standard: DIN 3356  
Face to face dimension: DIN 3202  
Flanged ends: DIN 2543-2545  
Test & inspection: DIN 3230

### PERFORMANCE SPECIFICATION

| NO. | Part name        | Material                           |
|-----|------------------|------------------------------------|
| 1   | Body             | A105N, F304, F316                  |
| 2   | Seat             | S.S304, Stellite                   |
| 3   | Disc             | A105N+2Cr13/304                    |
| 4   | Stem             | 2Cr13, F304, F316                  |
| 5   | Bellow assemble  | S.S304, S.S316                     |
| 6   | Composite gasket | Flexible graphite+ stainless steel |
| 7   | Packing          | Flexible graphite                  |
| 8   | Bolt             | ASTM 193-B7, A193-B8, A193-B8M     |
| 9   | Jack pin         | 45#, F304, F316                    |
| 10  | Jack bolt        | ASTM 193-B7, A193-B8, A193-B8M     |
| 11  | Jack stem nut    | ASTM 194-2H, A194-8, A194-8M       |
| 12  | Packing bushing  | 2Cr13, F304, F316                  |
| 13  | Packing gland    | A105N, F304, F316                  |
| 14  | Stem nut         | Copper alloy, D2                   |
| 15  | Hand wheel       | A105N                              |
| 16  | Cap              | 45#                                |
| 17  | Cover            | A105N, F304, F316                  |

### PERFORMANCE SPECIFICATION

| Nominal Pressure |               | PN         | Mpa |
|------------------|---------------|------------|-----|
| Test Pressure    | Strength test | 1.5PN      |     |
|                  | Sealing test  | 1.1PN      |     |
|                  | Gas seal test | 0.6        |     |
|                  | Bellows test  | 1.1PN      |     |
| Suitable temp    |               | -196℃~600℃ |     |

### MAIN CONNECTION SIZE

| PN 16                |     |     |     |     |    |   |     |       |
|----------------------|-----|-----|-----|-----|----|---|-----|-------|
| Main connection size |     |     |     |     |    |   |     |       |
| DN                   | L   | D   | D1  | D2  | b  | f | H   | n-φd  |
| 15                   | 140 | 95  | 65  | 45  | 16 | 2 | 233 | 4-φ14 |
| 20                   | 152 | 105 | 75  | 58  | 18 | 2 | 233 | 4-φ14 |
| 25                   | 210 | 115 | 85  | 68  | 18 | 2 | 284 | 4-φ14 |
| 32                   | 230 | 140 | 100 | 78  | 18 | 2 | 326 | 4-φ18 |
| 40                   | 240 | 150 | 110 | 88  | 18 | 3 | 366 | 4-φ18 |
| 50                   | 250 | 165 | 125 | 102 | 20 | 3 | 394 | 4-φ18 |

| PN 25                |     |     |     |     |    |   |     |       |
|----------------------|-----|-----|-----|-----|----|---|-----|-------|
| Main connection size |     |     |     |     |    |   |     |       |
| DN                   | L   | D   | D1  | D2  | b  | f | H   | n-φd  |
| 15                   | 140 | 95  | 65  | 45  | 16 | 2 | 233 | 4-φ14 |
| 20                   | 152 | 105 | 75  | 58  | 18 | 2 | 233 | 4-φ14 |
| 25                   | 210 | 115 | 85  | 68  | 18 | 2 | 284 | 4-φ14 |
| 32                   | 230 | 140 | 100 | 78  | 18 | 2 | 326 | 4-φ18 |
| 40                   | 240 | 150 | 110 | 88  | 18 | 3 | 366 | 4-φ18 |
| 50                   | 250 | 165 | 125 | 102 | 20 | 3 | 394 | 4-φ18 |

| PN 40                |     |     |     |     |    |   |     |       |
|----------------------|-----|-----|-----|-----|----|---|-----|-------|
| Main connection size |     |     |     |     |    |   |     |       |
| DN                   | L   | D   | D1  | D2  | b  | f | H   | n-φd  |
| 15                   | 140 | 95  | 65  | 45  | 16 | 2 | 233 | 4-φ14 |
| 20                   | 152 | 105 | 75  | 58  | 18 | 2 | 233 | 4-φ14 |
| 25                   | 210 | 115 | 85  | 68  | 18 | 2 | 284 | 4-φ14 |
| 32                   | 230 | 140 | 100 | 78  | 18 | 2 | 326 | 4-φ18 |
| 40                   | 240 | 150 | 110 | 88  | 18 | 3 | 366 | 4-φ18 |
| 50                   | 250 | 165 | 125 | 102 | 20 | 3 | 394 | 4-φ18 |