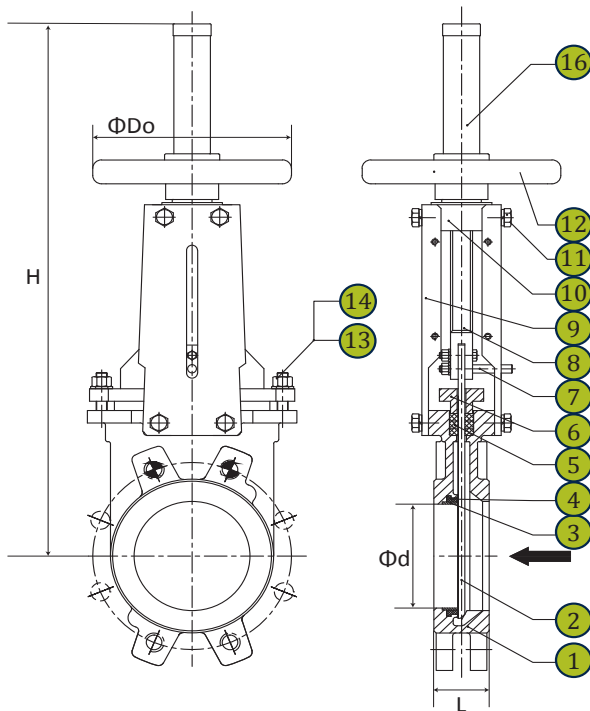
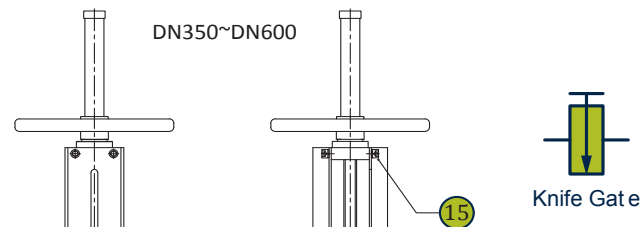


## Uni-directional Knife Gate Valve Wafer Type

### Series UKG-PN10

### Handwheel Operation

- Seat Design**  
 Basic: Inner Seat Ring Type  
 High Performance: Outer Seat Ring Type (OKU)
- Size**  
 DN 50 to DN 600
- Pressure Rating**  
 PN10
- Body Material**  
 GGG40 / 1.4408
- End Connection**  
 Wafer Type
- Temperature Range**  
 -20°C to 120°C with EPDM seat
- Standards and Specifications**  
 Design and test standard according to MSS-SP81  
 DIN EN 10204 3.1 Certificate  
 PED 97/23/EC; ISO 9001



| NO | PART NAME          | MATERIAL           |
|----|--------------------|--------------------|
| 1  | BODY               | GGG40 / 1.4408     |
| 2  | GATE               | SS 304             |
| 3  | RETAINER RING      | SS 304             |
| 4  | SEAT               | EPDM               |
| 5  | PACKING            | PTFE               |
| 6  | GLAND              | ASTM A216 WCB/D.I. |
| 7  | POSITION INDICATOR | ASTM A276 420      |
| 8  | STEM               | ASTM A182 F6a      |
| 9  | SUPPORT YOKE       | ASTM A36           |
| 10 | YOKE               | ASTM A216 WCB/D.I. |
| 11 | UPPER YOKE BOLT    | CS/DI; COMBINATION |
| 12 | HANDWHEEL          | A2-70 (A193 B8)    |
| 13 | GLAND STUD         | ASTM A193 B8       |
| 14 | GLAND NUT          | ASTM A105          |
| 15 | UPPER YOKE BOLT    | AISI 1035          |
| 16 | STEM PROTECTOR     | ASTM A36           |

Unit:mm

| DN  | Φd  | L   | ΦDo | H    |
|-----|-----|-----|-----|------|
| 50  | 50  | 40  | 200 | 415  |
| 65  | 65  | 40  | 200 | 435  |
| 80  | 80  | 50  | 200 | 465  |
| 100 | 100 | 50  | 200 | 500  |
| 125 | 125 | 50  | 200 | 565  |
| 150 | 150 | 60  | 300 | 706  |
| 200 | 200 | 60  | 300 | 805  |
| 250 | 250 | 70  | 350 | 975  |
| 300 | 300 | 70  | 350 | 1120 |
| 350 | 336 | 96  | 500 | 1320 |
| 400 | 385 | 100 | 500 | 1445 |
| 450 | 438 | 106 | 500 | 1622 |
| 500 | 489 | 110 | 500 | 1790 |
| 600 | 570 | 110 | 500 | 2050 |

# Uni-directional Knife Gate Valve Wafer Type

## Handwheel Operation

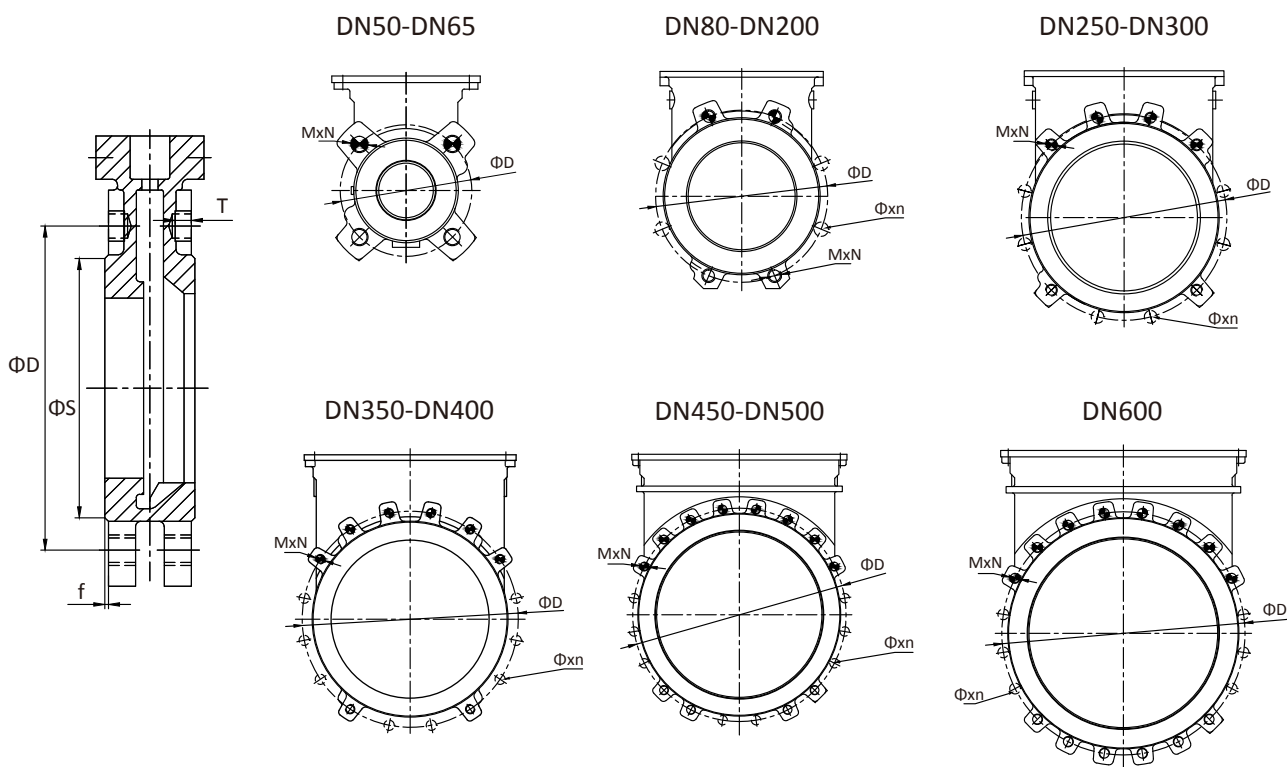
## Series UKG-PN10

### Flange and Bolting Dimensions



2

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Unit:mm

| DN  | ΦD  | ΦS  | f | M x N    | Φ x n   | T  |
|-----|-----|-----|---|----------|---------|----|
| 50  | 125 | 92  | 2 | M16 x 4  | -       | 6  |
| 65  | 145 | 105 | 2 | M16 x 4  | -       | 6  |
| 80  | 160 | 127 | 2 | M16 x 4  | Φ18 x 4 | 8  |
| 100 | 180 | 153 | 2 | M16 x 4  | Φ18 x 4 | 8  |
| 125 | 210 | 182 | 2 | M16 x 4  | Φ18 x 4 | 8  |
| 150 | 240 | 207 | 2 | M20 x 4  | Φ22 x 4 | 10 |
| 200 | 295 | 260 | 2 | M20 x 4  | Φ22 x 4 | 10 |
| 250 | 350 | 320 | 2 | M20 x 6  | Φ22 x 6 | 15 |
| 300 | 400 | 369 | 2 | M20 x 6  | Φ22 x 6 | 13 |
| 350 | 460 | 413 | 2 | M20 x 8  | Φ22 x 8 | 24 |
| 400 | 515 | 470 | 2 | M24 x 8  | Φ27 x 8 | 24 |
| 450 | 565 | 533 | 2 | M24 x 12 | Φ27 x 8 | 26 |
| 500 | 620 | 573 | 2 | M24 x 12 | Φ27 x 8 | 24 |
| 600 | 725 | 646 | 2 | M27 x 14 | Φ30 x 8 | 22 |

## Uni-directional Knife Gate Valve Wafer Type

### Series UKG-PN10

### Bevel Gear Operation

#### Seat Design

Basic: Inner Seat Ring Type  
High Performance: Outer Seat Ring Type (OKU)

#### Size

DN 50 to DN 600

#### Pressure Rating

PN10

#### Body Material

GGG40 / 1.4408

#### End Connection

Wafer Type

#### Temperature Range

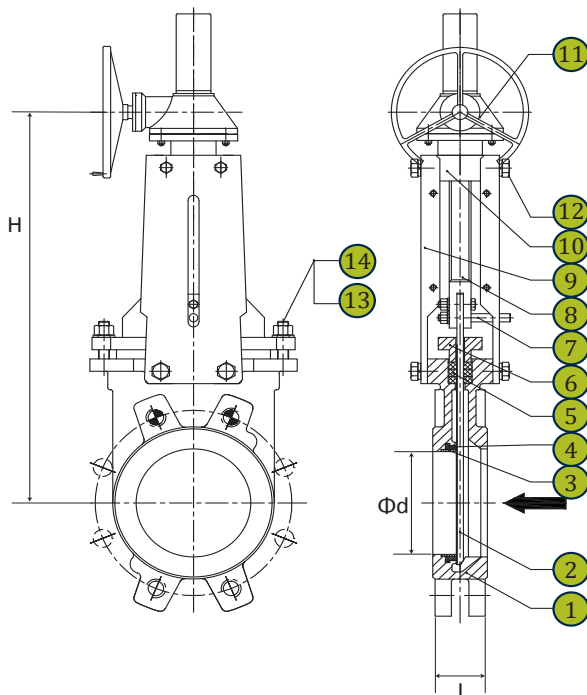
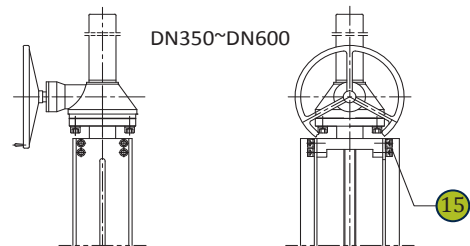
-20°C to 120°C with EPDM seat

#### Standards and Specifications

Design and test standard according to MSS-SP81

DIN EN 10204 3.1 Certificate

PED 97/23/EC; ISO 9001



| NO | PART NAME          | MATERIAL           |
|----|--------------------|--------------------|
| 1  | BODY               | GGG40 / 1.4408     |
| 2  | GATE               | SS304              |
| 3  | RETAINER RING      | SS304              |
| 4  | SEAT               | EPDM               |
| 5  | PACKING            | PTFE               |
| 6  | GLAND              | ASTM A216 WCB/D.I. |
| 7  | POSITION INDICATOR | ASTM A276 420      |
| 8  | STEM               | ASTM A182 F6a      |
| 9  | SUPPORT YOKE       | ASTM A36           |
| 10 | YOKE               | ASTM A216 WCB      |
| 11 | BEVEL GEAR         | COMBINATION        |
| 12 | UPPER YOKE BOLT    | A2-70 (A193 B8)    |
| 13 | GLAND STUD         | ASTM A193 B8       |
| 14 | GLAND NUT          | ASTM A194 8        |
| 15 | UPPER YOKE BOLT    | AISI 1035          |

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Unit:mm

| DN   | Φd  | L   | H    |
|------|-----|-----|------|
| 100  | 100 | 50  | 456  |
| 125  | 125 | 50  | 496  |
| 150  | 150 | 60  | 552  |
| 200  | 200 | 60  | 645  |
| 250  | 250 | 70  | 765  |
| 300  | 300 | 70  | 870  |
| 350  | 336 | 96  | 983  |
| 400  | 385 | 100 | 1096 |
| 450  | 438 | 106 | 1195 |
| 500  | 489 | 110 | 1310 |
| 600  | 570 | 110 | 1485 |
| 700  | 667 | 110 | 1682 |
| 800  | 740 | 110 | 1910 |
| 900  | 825 | 110 | 2066 |
| 1000 | 945 | 127 | 2306 |

# Uni-directional Knife Gate Valve Wafer Type

## Bevel Gear Operation

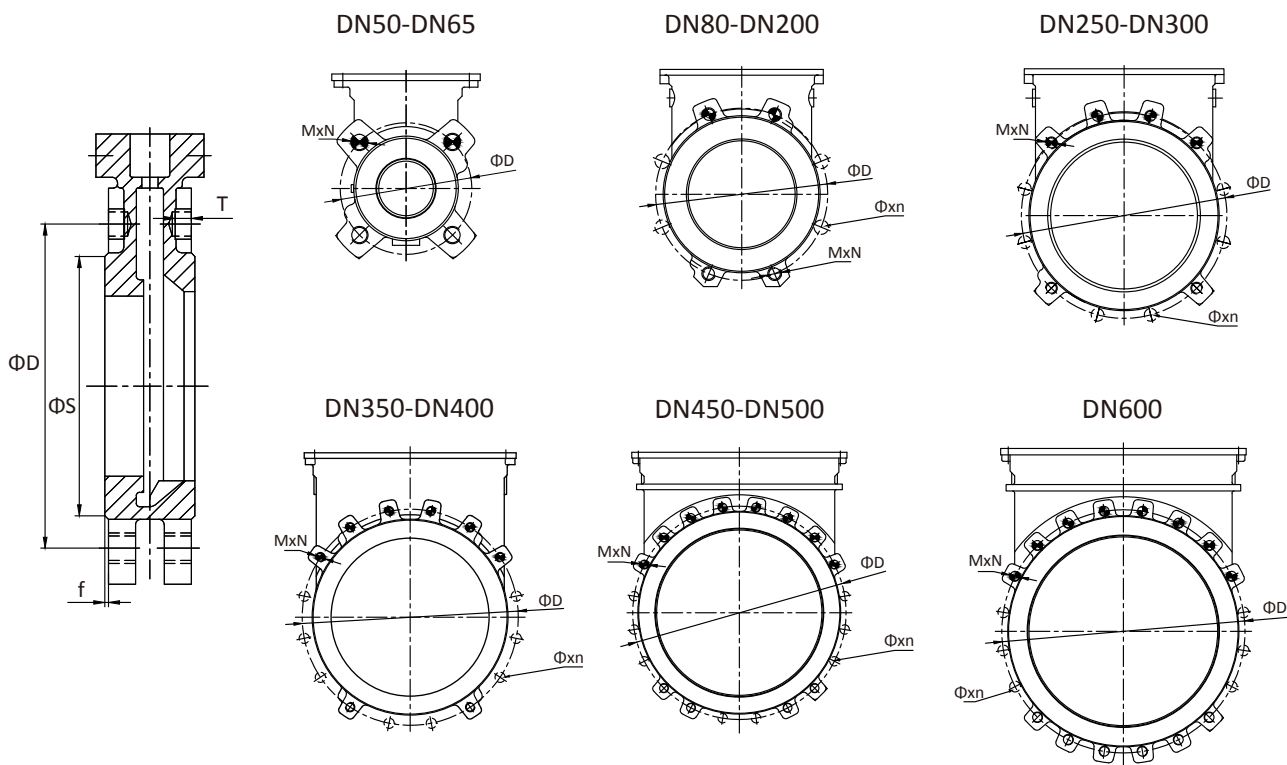
## Series UKG-PN10

### Flange and Bolting Dimensions



4

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Unit:mm

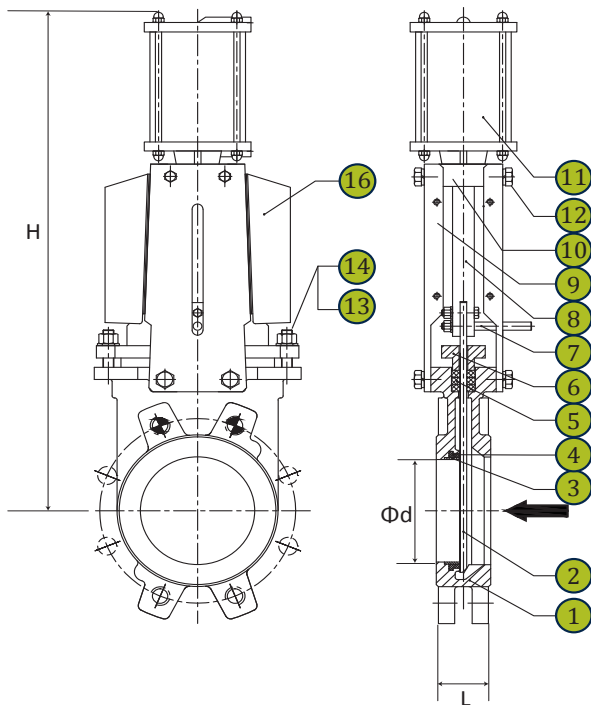
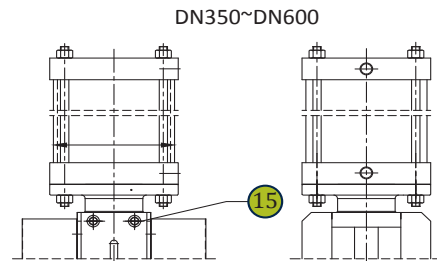
| DN  | ΦD  | ΦS  | f | M x N    | Φ x n   | T  |
|-----|-----|-----|---|----------|---------|----|
| 50  | 125 | 92  | 2 | M16 x 4  | -       | 6  |
| 65  | 145 | 105 | 2 | M16 x 4  | -       | 6  |
| 80  | 160 | 127 | 2 | M16 x 4  | Φ18 x 4 | 8  |
| 100 | 180 | 153 | 2 | M16 x 4  | Φ18 x 4 | 8  |
| 125 | 210 | 182 | 2 | M16 x 4  | Φ18 x 4 | 8  |
| 150 | 240 | 207 | 2 | M20 x 4  | Φ22 x 4 | 10 |
| 200 | 295 | 260 | 2 | M20 x 4  | Φ22 x 4 | 10 |
| 250 | 350 | 320 | 2 | M20 x 6  | Φ22 x 6 | 15 |
| 300 | 400 | 369 | 2 | M20 x 6  | Φ22 x 6 | 13 |
| 350 | 460 | 413 | 2 | M20 x 8  | Φ22 x 8 | 24 |
| 400 | 515 | 470 | 2 | M24 x 8  | Φ27 x 8 | 24 |
| 450 | 565 | 533 | 2 | M24 x 12 | Φ27 x 8 | 26 |
| 500 | 620 | 573 | 2 | M24 x 12 | Φ27 x 8 | 24 |
| 600 | 725 | 646 | 2 | M27 x 14 | Φ30 x 8 | 22 |

## Uni-directional Knife Gate Valve Wafer Type

### Series UKG-PN10

### Pneumatic Operation

- Seat Design**  
 Basic: Inner Seat Ring Type  
 High Performance: Outer Seat Ring Type (OKU)
- Size**  
 DN 50 to DN 600
- Pressure Rating**  
 PN10
- Body Material**  
 GGG40 / 1.4408
- End Connection**  
 Wafer Type
- Temperature Range**  
 -20°C to 120°C with EPDM seat
- Standards and Specifications**  
 Design and test standard according to MSS-SP81  
 DIN EN 10204 3.1 Certificate  
 PED 97/23/EC; ISO 9001



| NO | PART NAME          | MATERIAL           |
|----|--------------------|--------------------|
| 1  | BODY               | GGG40 / 1.4408     |
| 2  | GATE               | SS304              |
| 3  | RETAINER RING      | SS304              |
| 4  | SEAT               | EPDM               |
| 5  | PACKING            | PTFE               |
| 6  | GLAND              | ASTM A216 WCB/D.I. |
| 7  | POSITION INDICATOR | ASTM A276 420      |
| 8  | STEM               | ANSI 1045+Cr       |
| 9  | SUPPORT YOKE       | ASTM A36           |
| 10 | YOKE               | ASTM A216 WCB      |
| 11 | CYLINDER           | COMBINATION        |
| 12 | UPPER YOKE BOLT    | A2-70 (A193 B8)    |
| 13 | GLAND STUD         | ASTM A193 B8       |
| 14 | GLAND NUT          | ASTM A194 8        |
| 15 | UPPER YOKE BOLT    | AISI 1035          |
| 16 | SAFETY COVER       | SS304              |

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Unit:mm

| DN  | Φd  | L   | ΦCylinder | H    |
|-----|-----|-----|-----------|------|
| 50  | 50  | 40  | 80        | 415  |
| 65  | 65  | 40  | 80        | 455  |
| 80  | 80  | 50  | 80        | 496  |
| 100 | 100 | 50  | 100       | 555  |
| 125 | 125 | 50  | 125       | 655  |
| 150 | 150 | 60  | 125       | 732  |
| 200 | 200 | 60  | 160       | 885  |
| 250 | 250 | 70  | 200       | 1056 |
| 300 | 300 | 70  | 200       | 1215 |
| 350 | 336 | 96  | 250       | 1458 |
| 400 | 385 | 100 | 250       | 1620 |
| 450 | 438 | 106 | 250       | 1765 |
| 500 | 489 | 110 | 250       | 1925 |
| 600 | 570 | 110 | -         | 2265 |

# Uni-directional Knife Gate Valve Wafer Type

## Pneumatic Operation

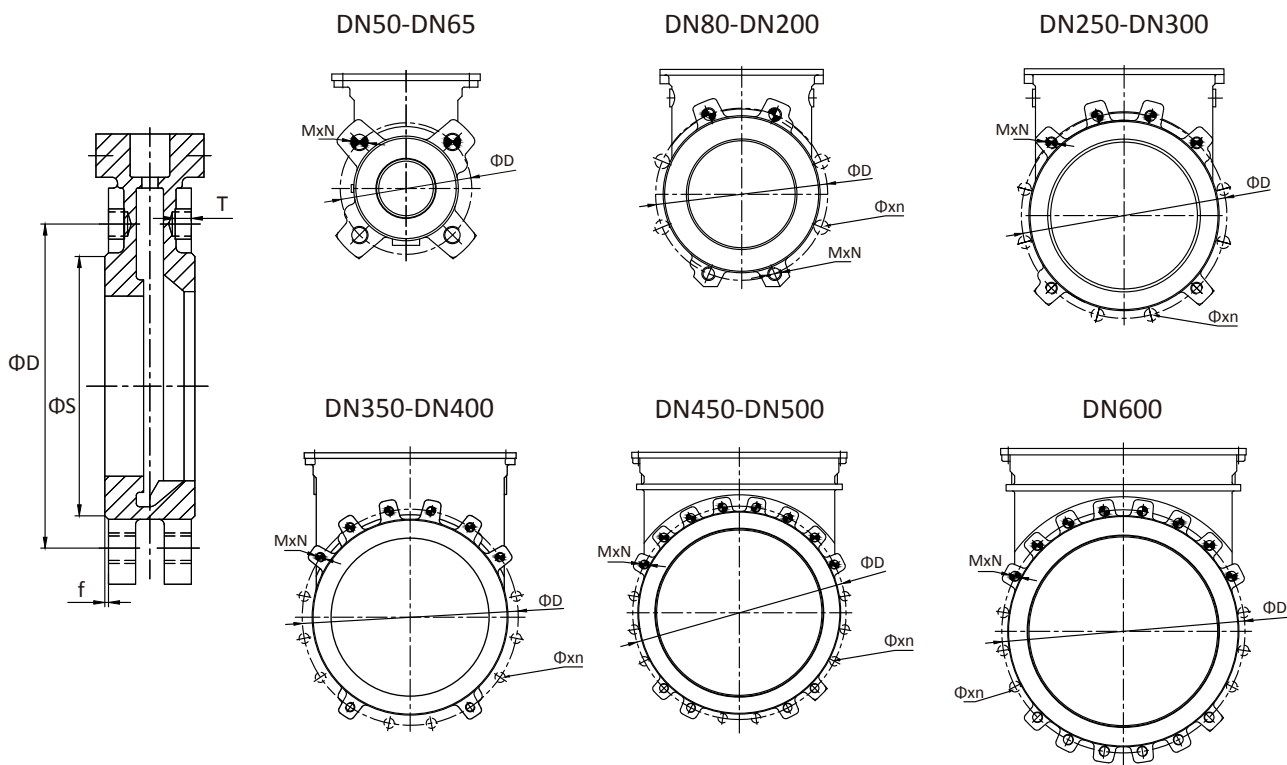
## Series UKG-PN10

### Flange and Bolting Dimensions



6

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Unit:mm

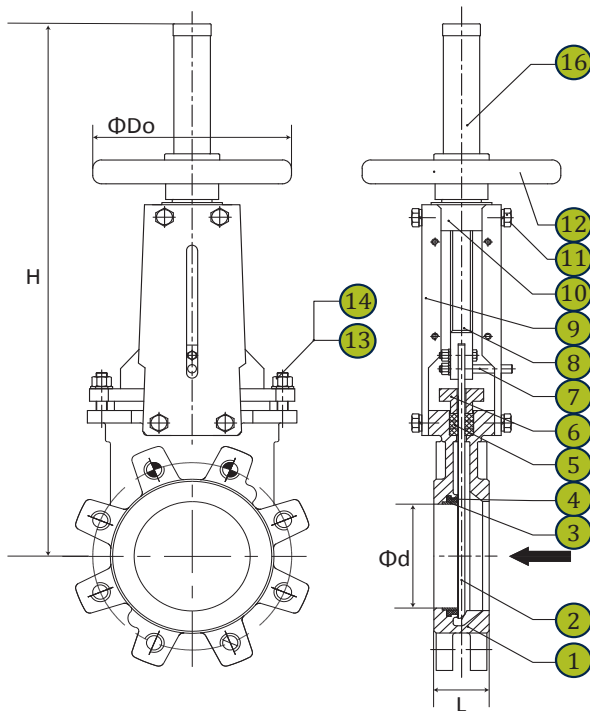
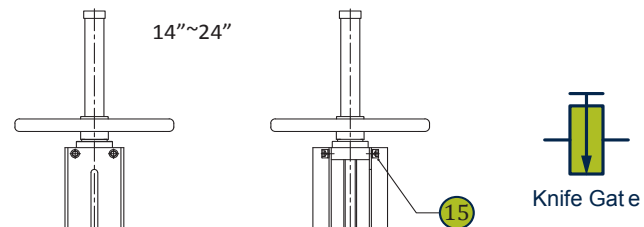
| DN  | $\Phi D$ | $\Phi S$ | $f$ | $M \times N$ | $\Phi \times n$    | $T$ |
|-----|----------|----------|-----|--------------|--------------------|-----|
| 50  | 125      | 92       | 2   | M16 x 4      | -                  | 6   |
| 65  | 145      | 105      | 2   | M16 x 4      | -                  | 6   |
| 80  | 160      | 127      | 2   | M16 x 4      | $\Phi 18 \times 4$ | 8   |
| 100 | 180      | 153      | 2   | M16 x 4      | $\Phi 18 \times 4$ | 8   |
| 125 | 210      | 182      | 2   | M16 x 4      | $\Phi 18 \times 4$ | 8   |
| 150 | 240      | 207      | 2   | M20 x 4      | $\Phi 22 \times 4$ | 10  |
| 200 | 295      | 260      | 2   | M20 x 4      | $\Phi 22 \times 4$ | 10  |
| 250 | 350      | 320      | 2   | M20 x 6      | $\Phi 22 \times 6$ | 15  |
| 300 | 400      | 369      | 2   | M20 x 6      | $\Phi 22 \times 6$ | 13  |
| 350 | 460      | 413      | 2   | M20 x 8      | $\Phi 22 \times 8$ | 24  |
| 400 | 515      | 470      | 2   | M24 x 8      | $\Phi 27 \times 8$ | 24  |
| 450 | 565      | 533      | 2   | M24 x 12     | $\Phi 27 \times 8$ | 26  |
| 500 | 620      | 573      | 2   | M24 x 12     | $\Phi 27 \times 8$ | 24  |
| 600 | 725      | 646      | 2   | M27 x 14     | $\Phi 30 \times 8$ | 22  |

## Uni-directional Knife Gate Valve Lug Type

### Series UKG-CL150

### Handwheel Operation

- Seat Design**  
 Basic: Inner Seat Ring Type  
 High Performance: Outer Seat Ring Type (OKU)
- Size**  
 2"~24"
- Pressure Rating**  
 CLASS 150
- Body Material**  
 DI /CF8M
- End Connection**  
 Lug Type
- Temperature Range**  
 -20°C to 120°C with EPDM seat
- Standards and Specifications**  
 Design and test standard according to MSS-SP81  
 DIN EN 10204 3.1 Certificate  
 PED 97/23/EC; ISO 9001



| NO | PART NAME          | MATERIAL           |
|----|--------------------|--------------------|
| 1  | BODY               | DI/CF8M            |
| 2  | GATE               | SS 304             |
| 3  | RETAINER RING      | SS 304             |
| 4  | SEAT               | EPDM               |
| 5  | PACKING            | PTFE               |
| 6  | GLAND              | ASTM A216 WCB/D.I. |
| 7  | POSITION INDICATOR | ASTM A276 420      |
| 8  | STEM               | ASTM A182 F6a      |
| 9  | SUPPORT YOKE       | ASTM A36           |
| 10 | YOKE               | ASTM A216 WCB/D.I. |
| 11 | UPPER YOKE BOLT    | CS/DI; COMBINATION |
| 12 | HANDWHEEL          | A2-70 (A193 B8)    |
| 13 | GLAND STUD         | ASTM A193 B8       |
| 14 | GLAND NUT          | ASTM A105          |
| 15 | UPPER YOKE BOLT    | AISI 1035          |
| 16 | STEM PROTECTOR     | ASTM A36           |

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Unit:mm

| NPS   | $\Phi d$ | L   | $\Phi Do$ | H    |
|-------|----------|-----|-----------|------|
| 2     | 50       | 48  | 200       | 415  |
| 2-1/2 | 65       | 48  | 200       | 435  |
| 3     | 80       | 51  | 200       | 465  |
| 4     | 100      | 51  | 200       | 500  |
| 5     | 125      | 57  | 200       | 565  |
| 6     | 150      | 57  | 300       | 706  |
| 8     | 200      | 70  | 300       | 805  |
| 10    | 250      | 70  | 350       | 975  |
| 12    | 300      | 76  | 350       | 1120 |
| 14    | 336      | 76  | 500       | 1320 |
| 16    | 385      | 89  | 500       | 1445 |
| 18    | 438      | 89  | 500       | 1622 |
| 20    | 489      | 114 | 500       | 1790 |
| 24    | 570      | 114 | 500       | 2050 |

# Uni-directional Knife Gate Valve Lug Type

## Handwheel Operation

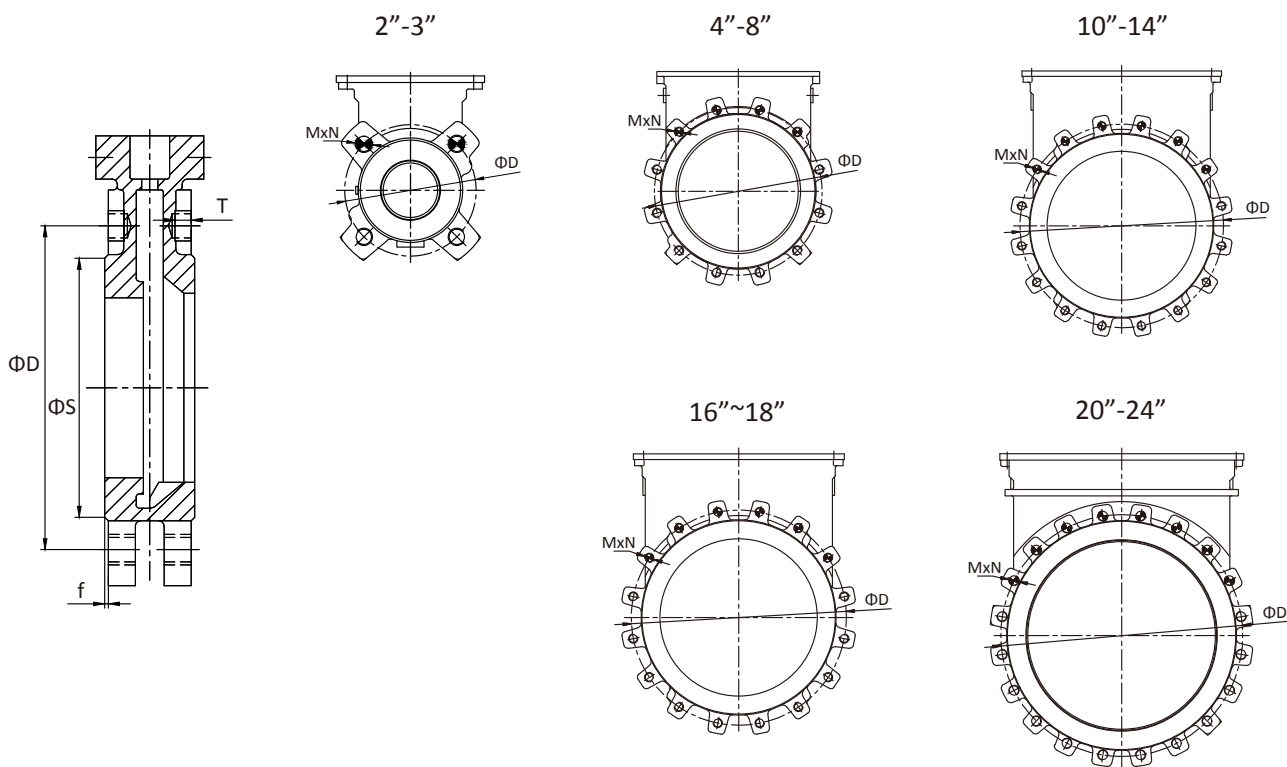
## Series UKG-CL150

### Flange and Bolting Dimensions



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Unit:mm

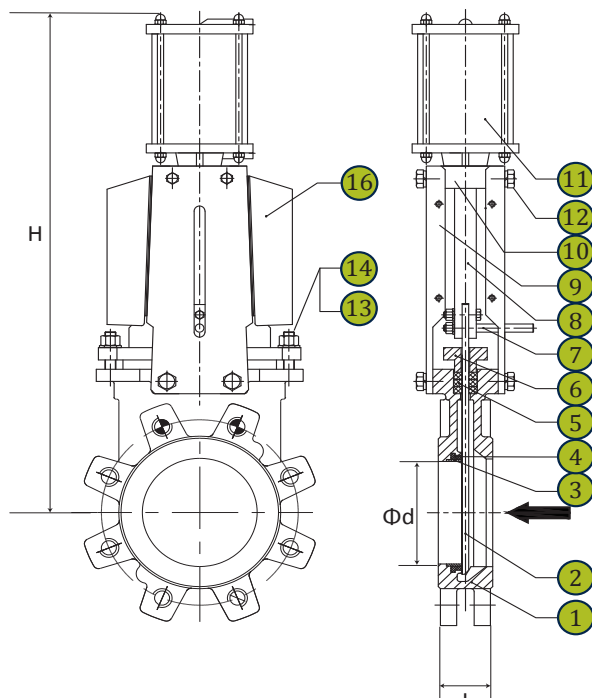
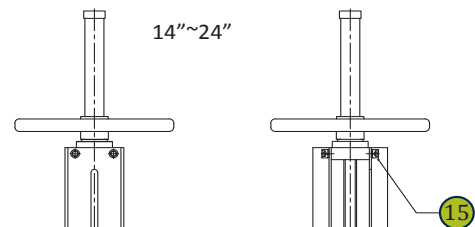
| NPS   | ΦD    | ΦS    | f | M x N          | T  |
|-------|-------|-------|---|----------------|----|
| 2     | 120.7 | 92.1  | 2 | 5/8"-11 x 4    | 8  |
| 2-1/2 | 139.7 | 104.8 | 2 | 5/8"-11 x 4    | 8  |
| 3     | 152.4 | 127.0 | 2 | 5/8"-11 x 4    | 8  |
| 4     | 190.5 | 157.0 | 2 | 5/8"-11 x 8    | 9  |
| 5     | 215.9 | 186.0 | 2 | 3/4"-10 x 8    | 9  |
| 6     | 241.3 | 215.9 | 2 | 3/4"-10 x 8    | 9  |
| 8     | 298.5 | 270   | 2 | 3/4"-10 x 8    | 12 |
| 10    | 362.0 | 323.8 | 2 | 7/8"-9 x 12    | 12 |
| 12    | 431.8 | 381.0 | 2 | 7/8"-9 x 12    | 12 |
| 14    | 476.3 | 412.8 | 2 | 1"-8 x 12      | 14 |
| 16    | 539.8 | 469.9 | 2 | 1-8 x 16       | 15 |
| 18    | 578.0 | 533.4 | 2 | 1-1/8" -7 x 16 | 15 |
| 20    | 635.0 | 584.0 | 2 | 1-1/8" -7 x 20 | 23 |
| 24    | 749.3 | 692.0 | 2 | 1-1/4" -7 x 20 | 23 |

## Uni-directional Knife Gate Valve Lug Type

### Series UKG-CL150

### Pneumatic Operation

- Seat Design**  
 Basic: Inner Seat Ring Type  
 High Performance: Outer Seat Ring Type (OKU)
- Size**  
 2"~24"
- Pressure Rating**  
 CLASS 150
- Body Material**  
 DI /CF8M
- End Connection**  
 Lug Type
- Temperature Range**  
 -20°C to 120°C with EPDM seat
- Standards and Specifications**  
 Design and test standard according to MSS-SP81  
 DIN EN 10204 3.1 Certificate  
 PED 97/23/EC; ISO 9001



| NO | PART NAME          | MATERIAL           |
|----|--------------------|--------------------|
| 1  | BODY               | DI/CF8M            |
| 2  | GATE               | SS304              |
| 3  | RETAINER RING      | SS304              |
| 4  | SEAT               | EPDM               |
| 5  | PACKING            | PTFE               |
| 6  | GLAND              | ASTM A216 WCB/D.I. |
| 7  | POSITION INDICATOR | ASTM A276 420      |
| 8  | STEM               | ANSI 1045+Cr       |
| 9  | SUPPORT YOKE       | ASTM A36           |
| 10 | YOKE               | ASTM A216 WCB      |
| 11 | CYLINDER           | COMBINATION        |
| 12 | UPPER YOKE BOLT    | A2-70 (A193 B8)    |
| 13 | GLAND STUD         | ASTM A193 B8       |
| 14 | GLAND NUT          | ASTM A194 8        |
| 15 | UPPER YOKE BOLT    | AISI 1035          |
| 16 | SAFETY COVER       | SS304              |

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Unit:mm

| NPS   | Φd  | L   | ΦDo | H    |
|-------|-----|-----|-----|------|
| 2     | 50  | 48  | 200 | 415  |
| 2-1/2 | 65  | 48  | 200 | 435  |
| 3     | 80  | 51  | 200 | 465  |
| 4     | 100 | 51  | 200 | 500  |
| 5     | 125 | 57  | 200 | 565  |
| 6     | 150 | 57  | 300 | 706  |
| 8     | 200 | 70  | 300 | 805  |
| 10    | 250 | 70  | 350 | 975  |
| 12    | 300 | 76  | 350 | 1120 |
| 14    | 336 | 76  | 500 | 1320 |
| 16    | 385 | 89  | 500 | 1445 |
| 18    | 438 | 89  | 500 | 1622 |
| 20    | 489 | 114 | 500 | 1790 |
| 24    | 570 | 114 | 500 | 2050 |

# Uni-directional Knife Gate Valve Lug Type

## Pneumatic Operation

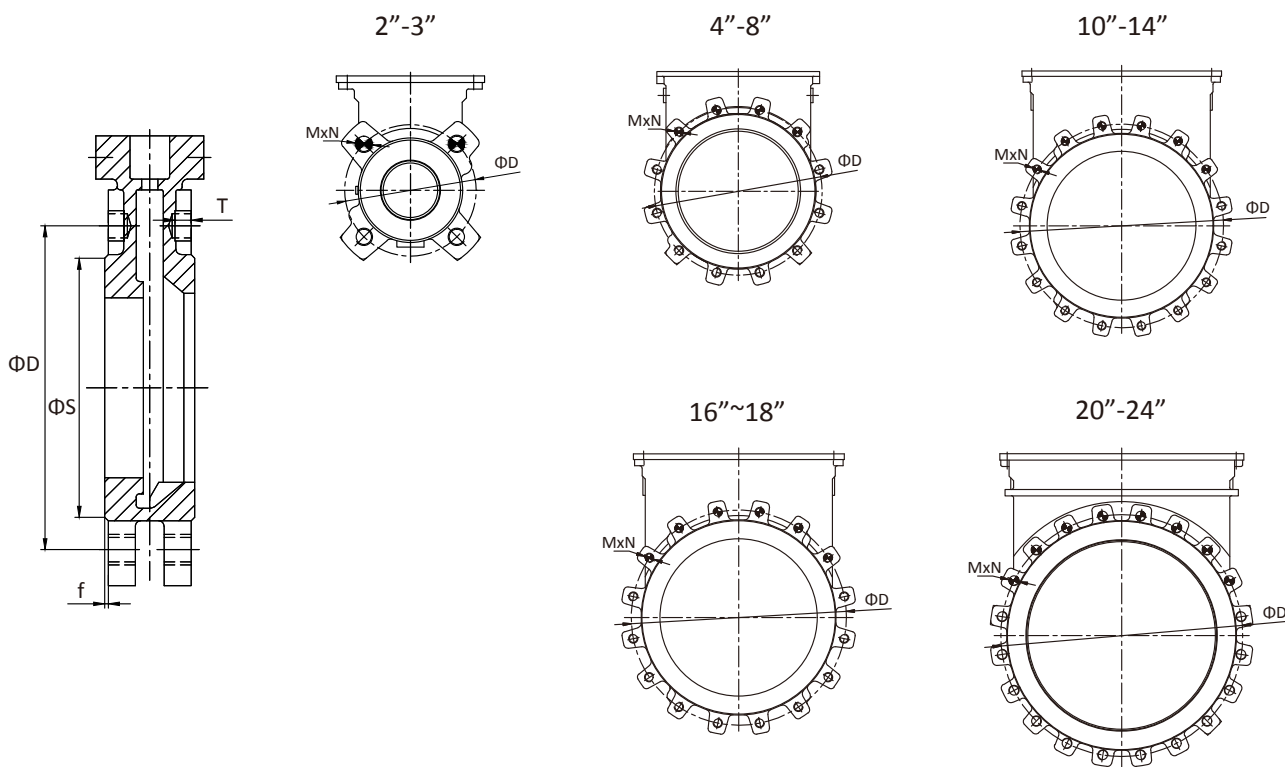
## Series UKG-CL150

### Flange and Bolting Dimensions



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Unit:mm

| NPS   | ΦD    | ΦS    | f | M x N          | T  |
|-------|-------|-------|---|----------------|----|
| 2     | 120.7 | 92.1  | 2 | 5/8"-11 x 4    | 8  |
| 2-1/2 | 139.7 | 104.8 | 2 | 5/8"-11 x 4    | 8  |
| 3     | 152.4 | 127.0 | 2 | 5/8"-11 x 4    | 8  |
| 4     | 190.5 | 157.0 | 2 | 5/8"-11 x 8    | 9  |
| 5     | 215.9 | 186.0 | 2 | 3/4"-10 x 8    | 9  |
| 6     | 241.3 | 215.9 | 2 | 3/4"-10 x 8    | 9  |
| 8     | 298.5 | 270   | 2 | 3/4"-10 x 8    | 12 |
| 10    | 362.0 | 323.8 | 2 | 7/8"-9 x 12    | 12 |
| 12    | 431.8 | 381.0 | 2 | 7/8"-9 x 12    | 12 |
| 14    | 476.3 | 412.8 | 2 | 1"-8 x 12      | 14 |
| 16    | 539.8 | 469.9 | 2 | 1-8 x 16       | 15 |
| 18    | 578.0 | 533.4 | 2 | 1-1/8" -7 x 16 | 15 |
| 20    | 635.0 | 584.0 | 2 | 1-1/8" -7 x 20 | 23 |
| 24    | 749.3 | 692.0 | 2 | 1-1/4" -7 x 20 | 23 |