

## Pneumatic Operation

Pneumatic Air Cylinder

## Uni-directional Knife Gate Valve Wafer Type

- **Seat Design**

Basic: Inner Seat Ring Type

High Performance: Outer Seat Ring

- **Size**

DN 50 to DN 600

- **Pressure Rating**

PN10

- **Body Material**

GGG40 / 1.4408 (ASTM A351 CF8M)

- **End Connection PN10**

Wafer Type

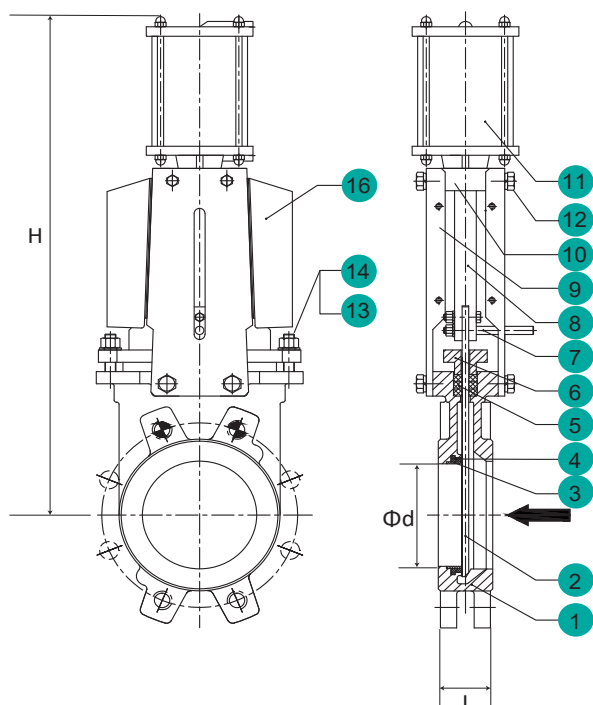
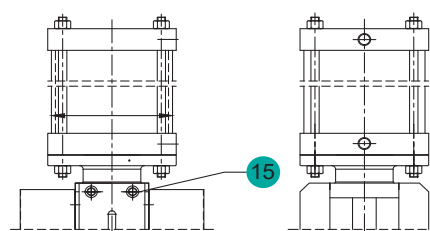
- **Temperature Range**

-20°C to 120°C with VITON seat

- **Standards and Specifications**

Design and test standard according to MSS-SP81

DN350~DN600



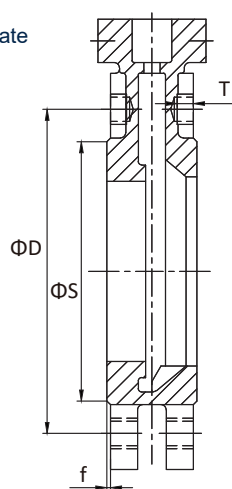
| NO | PART NAME          | MATERIAL           |
|----|--------------------|--------------------|
| 1  | BODY               | GGG40 / 1.4408     |
| 2  | GATE               | SS 304             |
| 3  | RETAINER RING      | SS 304             |
| 4  | SEAT               | EPDM               |
| 5  | PACKING            | PTFE               |
| 6  | GLAND              | ASTM A216 WCB/D.I. |
| 7  | POSITION INDICATOR | ASTM A276 420      |
| 8  | STEM               | 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       | SS 304             |

Unit (mm)

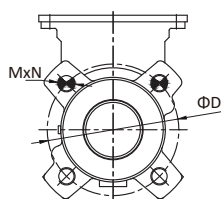
| DN  | Φd  | L   | ΦCylinder | H    |
|-----|-----|-----|-----------|------|
| 50  | 50  | 40  | 80        | 430  |
| 65  | 65  | 40  | 80        | 460  |
| 80  | 80  | 50  | 80        | 510  |
| 100 | 100 | 50  | 100       | 570  |
| 125 | 125 | 50  | 125       | 660  |
| 150 | 150 | 60  | 125       | 720  |
| 200 | 200 | 60  | 160       | 890  |
| 250 | 250 | 70  | 200       | 1120 |
| 300 | 300 | 70  | 200       | 1230 |
| 350 | 336 | 96  | 250       | 1370 |
| 400 | 385 | 100 | 250       | 1570 |
| 450 | 438 | 106 | 250       | 1720 |
| 500 | 489 | 110 | 250       | 1850 |
| 600 | 570 | 110 | -         | 2150 |

## Uni-directional Knife Gate Valve Wafer Type

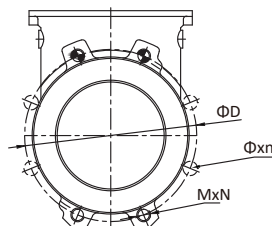
### ● Flange (PN10) and Bolting Dimensions



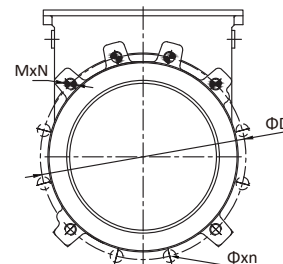
DN50-DN65



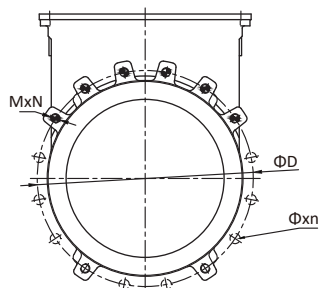
DN80-DN200



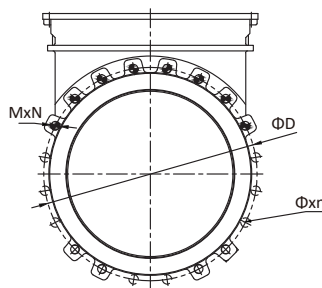
DN250-DN300



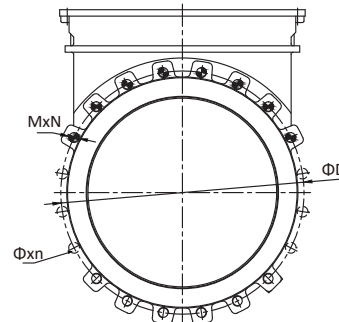
DN350-DN400



DN450-DN500



DN600



Unit (mm)

| DN  | ΦD (PCD) | ΦS  | f | M x N    | Φ x n   | T  |
|-----|----------|-----|---|----------|---------|----|
| 50  | 125      | 95  | 2 | M16 x 4  | -       | 6  |
| 65  | 145      | 110 | 2 | M16 x 4  | -       | 6  |
| 80  | 160      | 127 | 2 | M16 x 4  | Φ18 x 4 | 8  |
| 100 | 180      | 148 | 2 | M16 x 4  | Φ18 x 4 | 8  |
| 125 | 210      | 174 | 2 | M16 x 4  | Φ18 x 4 | 8  |
| 150 | 240      | 199 | 2 | M20 x 4  | Φ22 x 4 | 10 |
| 200 | 295      | 250 | 2 | M20 x 4  | Φ22 x 4 | 10 |
| 250 | 350      | 308 | 2 | M20 x 6  | Φ22 x 6 | 15 |
| 300 | 400      | 360 | 2 | M20 x 6  | Φ22 x 6 | 13 |
| 350 | 460      | 414 | 2 | M20 x 8  | Φ22 x 8 | 24 |
| 400 | 515      | 466 | 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 |