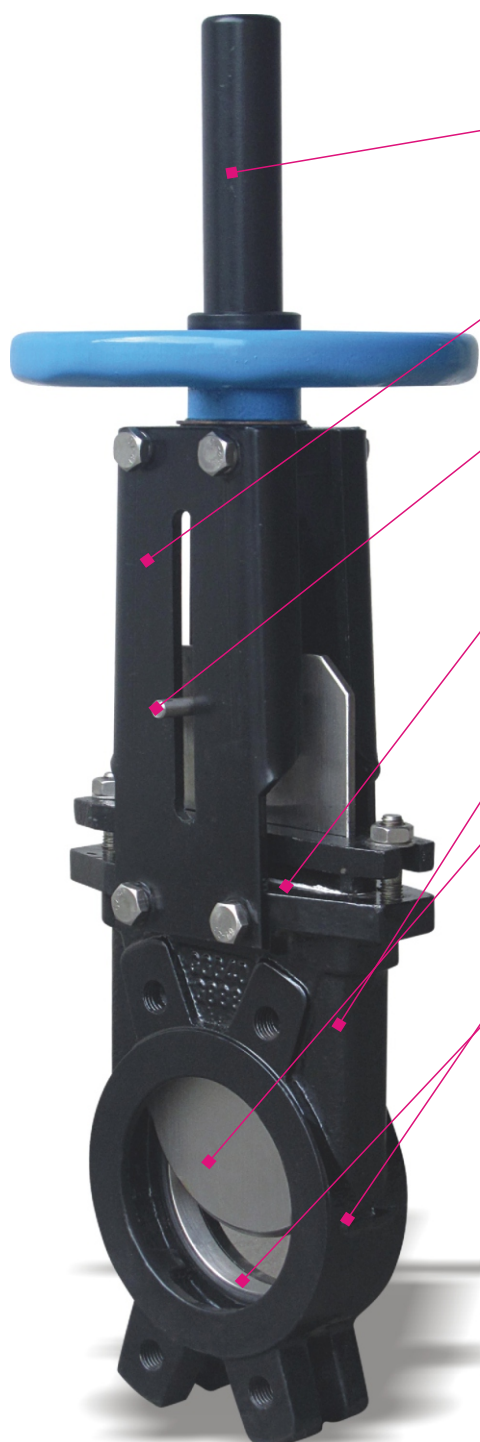


# Wafer knife gate valves

# DAGO

**Where's Piping, Where's Guanli**

<http://www.guanlivalve.com>



**Protector tube**

**Support plate**  
(Machine pressed + epoxy coated)

**Position indicator**

**Packing**  
(PTFE + silicone)

**One piece body**  
(Oven baked)

**Knife**  
(Superior machined + polished)

**Flow arrow**

**Renewable seat**

## ● Main parts and materials

| NO. | Part Name          | Ductile iron  | CF8M             |
|-----|--------------------|---------------|------------------|
| 1   | Body               | GGG40         | ASTMA351 CF8M    |
| 2   | Gate               | X5CrNi189     | SS316            |
| 3   | Retainer ring      | X5CrNi189     | SS316            |
| 4   | Sealing ring       | EPDM or metal | SS316 or Viton   |
| 5   | Packing            | PTFE+Silicone | PTFE+Silicone    |
| 6   | Packing gland      | GGG40         | ASTMA351 CF8M    |
| 7   | Position indicator | X20Cr13       | X20Cr13          |
| 8   | Stem               | X20Cr13       | ASTMA276 316     |
| 9   | Stem nut           | G-CuSn72nPb   | ASTM B148 C95200 |
| 10  | Support plate      | St33          | St33 or SS304    |

# Wafer knife gate valve

## Model: GLK073

# DAGO

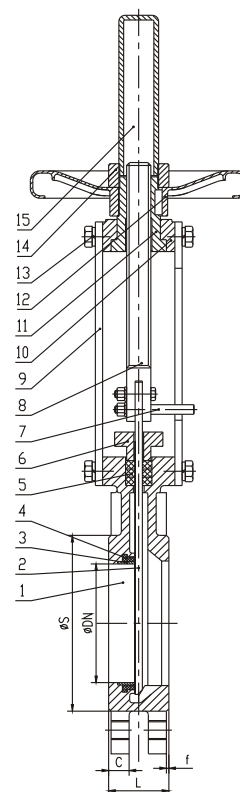
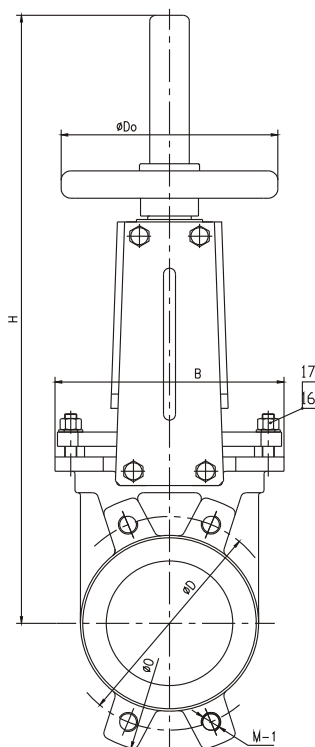
Products Range:

Pressure rate:PN10

Size:DN50-DN400

Body material: Ductile iron, stainless steel, duplex stainless steel

Operated type: Handwheel op.



### ●Main dimensions

| DN  | L   | O   | D   | S   | C  | f | M-1    | B   | H    | Do  | Weight (KGS) |
|-----|-----|-----|-----|-----|----|---|--------|-----|------|-----|--------------|
| 50  | 40  | 165 | 125 | 95  | 16 | 2 | 4-M16  | 136 | 375  | 180 | 7            |
| 65  | 40  | 185 | 145 | 110 | 16 | 2 | 4-M16  | 151 | 420  | 180 | 8            |
| 80  | 50  | 200 | 160 | 127 | 17 | 2 | 8-M16  | 170 | 450  | 200 | 11           |
| 100 | 50  | 220 | 180 | 148 | 17 | 2 | 8-M16  | 190 | 512  | 200 | 12           |
| 125 | 50  | 250 | 210 | 174 | 17 | 2 | 8-M16  | 212 | 570  | 220 | 15           |
| 150 | 60  | 285 | 240 | 199 | 21 | 2 | 8-M20  | 230 | 665  | 250 | 21           |
| 200 | 60  | 340 | 295 | 250 | 21 | 2 | 8-M20  | 286 | 825  | 300 | 29           |
| 250 | 70  | 395 | 350 | 308 | 24 | 2 | 12-M20 | 338 | 1000 | 350 | 46           |
| 300 | 70  | 445 | 400 | 360 | 24 | 2 | 12-M20 | 388 | 1155 | 350 | 66           |
| 350 | 96  | 505 | 460 | 416 | 33 | 2 | 16-M20 | 460 | 1310 | 400 | 92           |
| 400 | 100 | 565 | 515 | 466 | 35 | 2 | 16-M24 | 520 | 1475 | 500 | 125          |

# Knife gate valve (Non rising stem)

## Model: GKN073

# DAGO

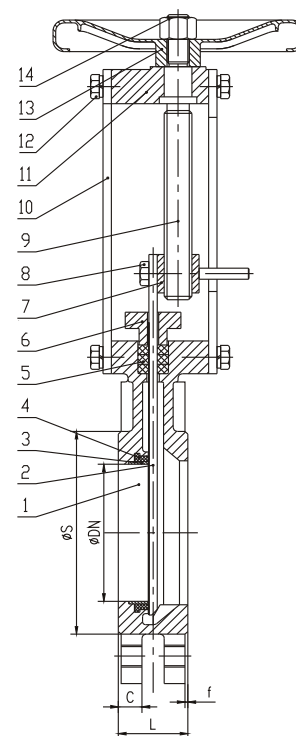
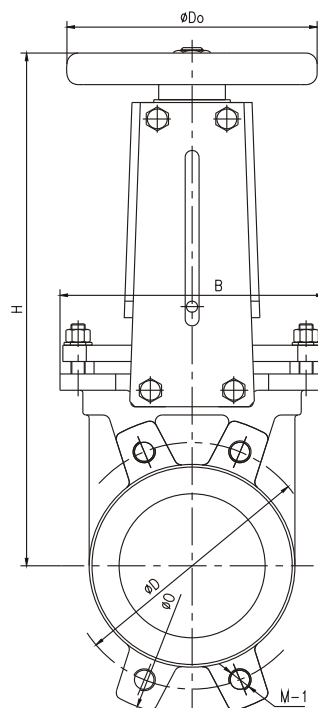
Products Range:

Pressure rate:PN10

Size:DN50-DN400

Body material: Ductile iron, stainless steel, duplex stainless steel

Operated type: Handwheel op.



### ●Main dimensions

| DN  | L   | O   | D   | S   | C  | f | M-1    | B   | H    | Do  | Weight (KGS) |
|-----|-----|-----|-----|-----|----|---|--------|-----|------|-----|--------------|
| 50  | 40  | 165 | 125 | 95  | 16 | 2 | 4-M16  | 136 | 295  | 180 | 7            |
| 60  | 40  | 185 | 145 | 110 | 16 | 2 | 4-M16  | 151 | 320  | 180 | 8            |
| 80  | 50  | 200 | 160 | 127 | 17 | 2 | 8-M16  | 170 | 340  | 200 | 10           |
| 100 | 50  | 220 | 180 | 148 | 17 | 2 | 8-M16  | 190 | 380  | 200 | 12           |
| 125 | 50  | 250 | 210 | 174 | 17 | 2 | 8-M16  | 212 | 410  | 220 | 15           |
| 150 | 60  | 285 | 240 | 199 | 21 | 2 | 8-M20  | 230 | 476  | 250 | 21           |
| 200 | 60  | 340 | 295 | 250 | 21 | 2 | 8-M20  | 286 | 580  | 300 | 30           |
| 250 | 70  | 395 | 350 | 308 | 24 | 2 | 12-M20 | 338 | 700  | 350 | 45           |
| 300 | 70  | 445 | 400 | 360 | 24 | 2 | 12-M20 | 388 | 910  | 350 | 61           |
| 350 | 96  | 505 | 460 | 416 | 33 | 2 | 16-M20 | 460 | 915  | 400 | 90           |
| 400 | 100 | 565 | 515 | 466 | 35 | 2 | 16-M24 | 520 | 1050 | 500 | 126          |

# Bevel gear knife gate valves

**Model: GLK573(Rising stem)/GKN573(Non rising stem)**

**DAGO**

Products Range:

Pressure rate: PN10

Size: DN450-DN1200

Body material: Ductile iron, carbon steel, stainless steel,  
duplex stainless steel

Operated type: Bevel gear

Pressures/temperatures

Maximum working pressures

DN 50-250 :10bar      DN 300-450 :7bar

DN 500-600 :4bar      DN 700-900 :2bar

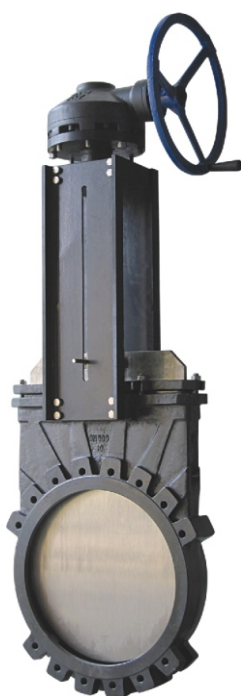
DN1000-1200 :1bar

Maximum working temperatures:

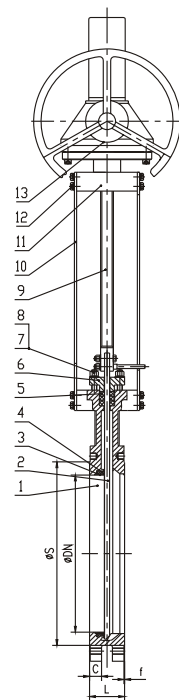
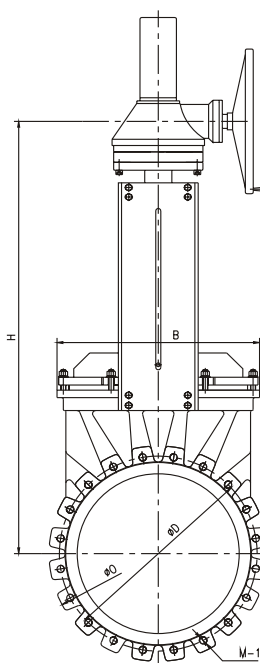
Nitril:80°C;EPDM:110°C



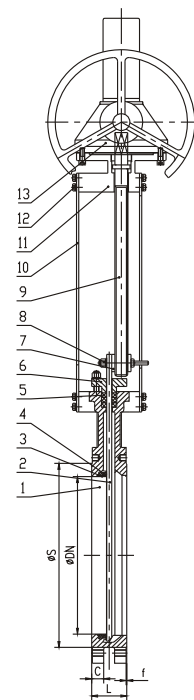
GLK573



GKN573



GLK573



GKN573

## ●Main dimensions

| DN                      | L   | O    | D    | S    | C  | f | M-1    | B    | H    |
|-------------------------|-----|------|------|------|----|---|--------|------|------|
| 450                     | 106 | 615  | 565  | 525  | 36 | 2 | 20-M24 | 585  | 1170 |
| 500                     | 110 | 670  | 620  | 574  | 37 | 2 | 20-M24 | 635  | 1280 |
| 600                     | 110 | 780  | 725  | 664  | 37 | 2 | 20-M27 | 720  | 1485 |
| 700                     | 110 | 895  | 840  | 1070 | 38 | 2 | 24-M27 | 807  | 1670 |
| 800                     | 110 | 1015 | 950  | 955  | 38 | 2 | 24-M30 | 922  | 1880 |
| 900                     | 110 | 1115 | 1050 | 955  | 38 | 2 | 28-M30 | 1030 | 2120 |
| 1000                    | 110 | 1230 | 1160 | 1080 | 38 | 2 | 28-M33 | 1140 | 2270 |
| ≥DN1200, please inquiry |     |      |      |      |    |   |        |      |      |

# Lug knife gate valve

## Model: GKA073

# DAGO

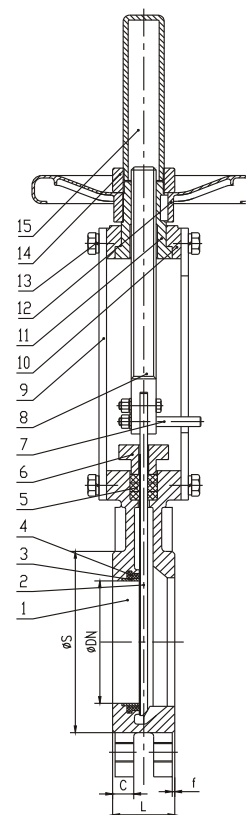
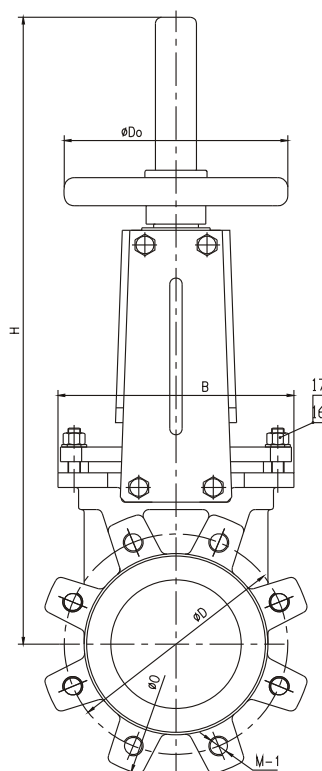
Products Range:

Pressure rate: Class 150

Size: 2"-48"

Body material: Ductile iron, carbon steel, stainless steel,  
duplex stainless steel

Operated type: Handwheel



### ●Main dimensions

| DN                      |     | L  | O   | D     | S     | C  | f   | M-(UNC)    | B   | H    | Do  |
|-------------------------|-----|----|-----|-------|-------|----|-----|------------|-----|------|-----|
| in                      | mm  |    |     |       |       |    |     |            |     |      |     |
| 2"                      | 50  | 48 | 152 | 120.5 | 91.9  | 16 | 1.6 | 4-M5/8"-11 | 136 | 375  | 180 |
| 2 1/2"                  | 65  | 48 | 178 | 139.5 | 104.8 | 16 |     | 4-M5/8"-11 | 151 | 420  | 180 |
| 3"                      | 80  | 51 | 190 | 152.5 | 127.0 | 17 |     | 4-M5/8"-11 | 170 | 450  | 200 |
| 4"                      | 100 | 51 | 229 | 190.5 | 157.2 | 17 |     | 8-M5/8"-11 | 190 | 512  | 200 |
| 5"                      | 125 | 57 | 254 | 216   | 185.4 | 17 |     | 8-M3/4"-10 | 212 | 570  | 220 |
| 6"                      | 150 | 57 | 280 | 241.5 | 215.9 | 21 |     | 8-M3/4"-10 | 230 | 665  | 250 |
| 8"                      | 200 | 70 | 343 | 298.5 | 269.7 | 21 |     | 8-M3/4"-10 | 286 | 825  | 300 |
| 10"                     | 250 | 70 | 406 | 362   | 323.8 | 24 |     | 12-M7/8"-9 | 338 | 1000 | 350 |
| 12"                     | 300 | 76 | 483 | 432   | 381.0 | 24 |     | 12-M7/8"-9 | 388 | 1155 | 350 |
| 14"                     | 350 | 76 | 533 | 476   | 412.7 | 33 |     | 12-M1"-8   | 460 | 1310 | 400 |
| 16"                     | 400 | 89 | 597 | 540   | 469.9 | 35 |     | 16-M1"-8   | 520 | 1475 | 500 |
| ≥DN18" , please inquiry |     |    |     |       |       |    |     |            |     |      |     |

# Semi Lug Knife Gate Valves

## Model: GAW073

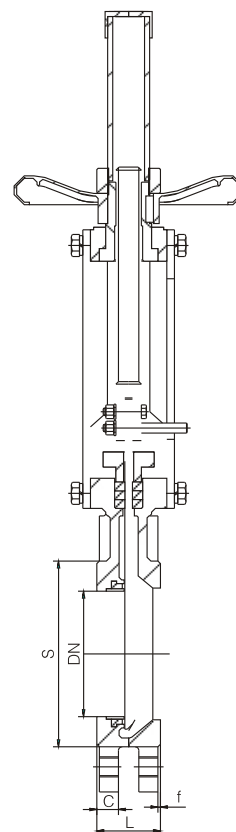
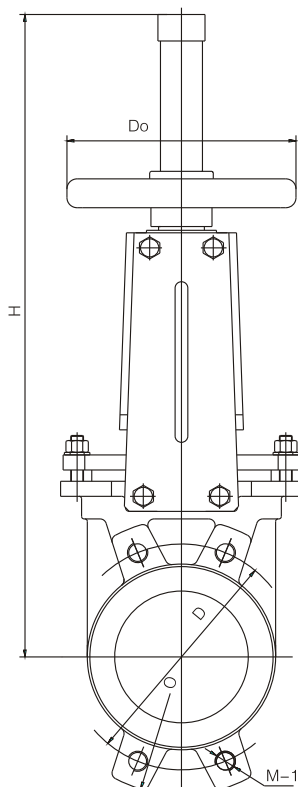
# DAGO

Pressure rate: Class 150

Size: 2"-48"

Body material: Ductile iron-GG40, CF8M, CF8

Operated type: Handwheel, pneumatic, bevel gear, electric actuator



### ● Main dimensions

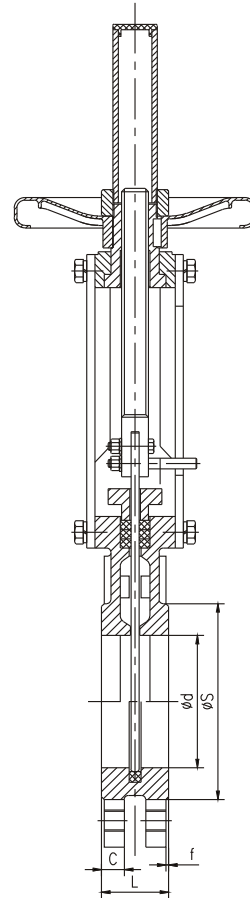
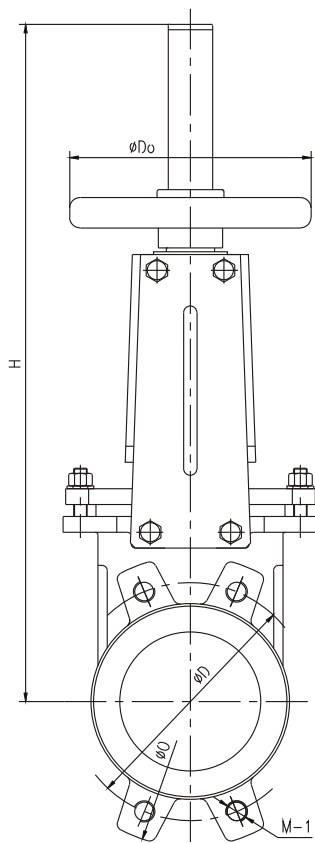
| MPS   | DN  | L  | O   | D     | S   | C  | F   | M-1(UNC)   | H    | D0  |
|-------|-----|----|-----|-------|-----|----|-----|------------|------|-----|
| 2     | 50  | 48 | 152 | 120.5 | 95  | 16 | 1.6 | 4-M5/8"-11 | 375  | 180 |
| 2 1/2 | 65  | 48 | 178 | 139.5 | 110 | 16 | 1.6 | 4-M5/8"-11 | 420  | 180 |
| 3     | 80  | 51 | 190 | 152.5 | 127 | 17 | 1.6 | 4-M5/8"-11 | 450  | 200 |
| 4     | 100 | 51 | 229 | 190.5 | 158 | 17 | 1.6 | 8-M5/8"-11 | 512  | 200 |
| 5     | 125 | 57 | 254 | 216   | 186 | 17 | 1.6 | 8-M3/4"-10 | 570  | 220 |
| 6     | 150 | 57 | 280 | 241.5 | 216 | 21 | 1.6 | 8-M3/4"-10 | 665  | 250 |
| 8     | 200 | 70 | 343 | 298.5 | 270 | 21 | 1.6 | 8-M3/4"-10 | 825  | 300 |
| 10    | 250 | 70 | 406 | 362   | 324 | 24 | 1.6 | 12-M7/8"-9 | 1000 | 350 |
| 12    | 300 | 76 | 483 | 432   | 381 | 24 | 1.6 | 12-M7/8"-9 | 1155 | 350 |
| 14    | 350 | 76 | 533 | 476   | 414 | 33 | 1.6 | 12-M1"-8   | 1310 | 400 |
| 16    | 400 | 89 | 597 | 540   | 470 | 35 | 1.6 | 16-M1"-8   | 1475 | 500 |

# Bi-directional Knife Gate Valve

## Model: GLK0(B)73

**DAGO**

Pressure rate:PN10  
 Size:DN50-DN1200  
 Body material: Ductile iron-GG40  
 Operated type: Handwheel, pneumatic



### ● Main dimensions

| DN  | L   | O   | D   | S   | C  | f | M-1    | B   | H    | Do  | 重量<br>(KGS) |
|-----|-----|-----|-----|-----|----|---|--------|-----|------|-----|-------------|
| 50  | 40  | 165 | 125 | 95  | 16 | 2 | 4-M16  | 136 | 375  | 180 | 7           |
| 65  | 40  | 185 | 145 | 110 | 16 | 2 | 4-M16  | 151 | 420  | 180 | 8           |
| 80  | 50  | 200 | 160 | 127 | 17 | 2 | 8-M16  | 170 | 450  | 200 | 11          |
| 100 | 50  | 220 | 180 | 148 | 17 | 2 | 8-M16  | 190 | 512  | 200 | 12          |
| 125 | 50  | 250 | 210 | 174 | 17 | 2 | 8-M16  | 212 | 570  | 220 | 15          |
| 150 | 60  | 285 | 240 | 199 | 21 | 2 | 8-M20  | 230 | 665  | 250 | 21          |
| 200 | 60  | 340 | 295 | 250 | 21 | 2 | 8-M20  | 286 | 825  | 300 | 29          |
| 250 | 70  | 395 | 350 | 308 | 24 | 2 | 12-M20 | 338 | 1000 | 350 | 46          |
| 300 | 70  | 445 | 400 | 360 | 24 | 2 | 12-M20 | 388 | 1155 | 350 | 66          |
| 350 | 96  | 505 | 460 | 416 | 33 | 2 | 16-M20 | 460 | 1310 | 400 | 92          |
| 400 | 100 | 565 | 515 | 466 | 35 | 2 | 16-M24 | 520 | 1475 | 500 | 125         |

# Bi-directional Bevel gear Knife Gate Valve

## Model: GLK5(B)73

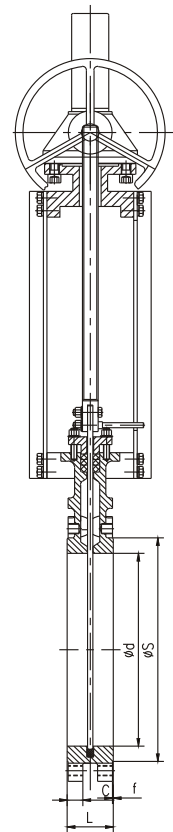
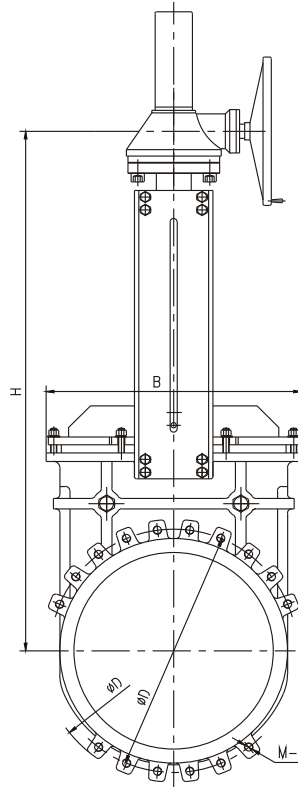
# DAGO

Pressure rate:PN10

Size:DN50-DN1200

Body material: Ductile iron-GG40

Operated type: Bevel gear



### ●Main dimensions

| DN                     | L   | O    | D    | S    | C  | f | M-1    | B    | H    |
|------------------------|-----|------|------|------|----|---|--------|------|------|
| 450                    | 106 | 615  | 565  | 525  | 36 | 2 | 20-M24 | 585  | 1170 |
| 500                    | 110 | 670  | 620  | 574  | 37 | 2 | 20-M24 | 635  | 1280 |
| 600                    | 110 | 780  | 725  | 664  | 37 | 2 | 20-M27 | 720  | 1485 |
| 700                    | 110 | 895  | 840  | 1070 | 38 | 2 | 24-M27 | 807  | 1670 |
| 800                    | 110 | 1015 | 950  | 955  | 38 | 2 | 24-M30 | 922  | 1880 |
| 900                    | 110 | 1115 | 1050 | 955  | 38 | 2 | 28-M30 | 1030 | 2120 |
| 1000                   | 110 | 1230 | 1160 | 1080 | 38 | 2 | 28-M33 | 1140 | 2270 |
| ≥DN1100 please inquiry |     |      |      |      |    |   |        |      |      |

## Optional spare parts

### Body material

- Ductile iron
- Stainless steel
- Duplex stainless steel

### Gate material

- SS304
- SS316



### Optional pressure rate

- 10 bar
- 150 lbs

### Seat material

- Metal
- EPDM
- Nitril
- Viton
- Silicone

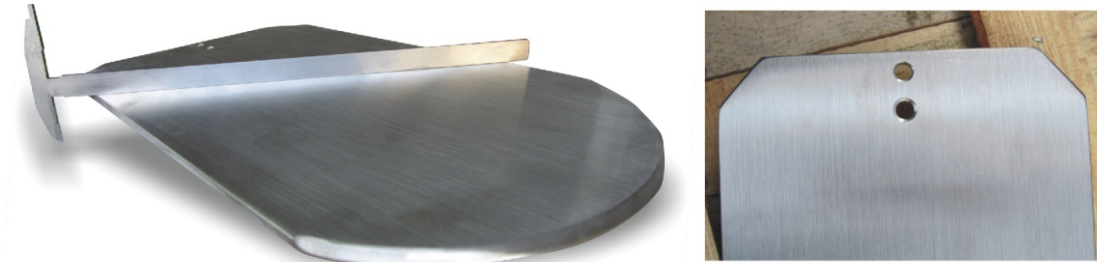


### Optional operated type

- Handwheel
- Handwheel non rising stem
- Double acting pneumatic actuator
- Single acting pneumatic actuator
- Gear box actuator
- Electric actuator
- Bare shaft

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High quality gate



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Sand blasting&surface coating



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Cylinder



DN50-DN300

DN350-DN600

## **Replacement of packing**

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Take old packing out

Put 3 layers of packing in the palce

Note that each joint of the packing should be in different places



## **Replacement of valve seat**

---

A. Unscrewed packing gland and remove the gate



B. Remove retainer ring



C. Take the old EPDM ring out and clean it's place



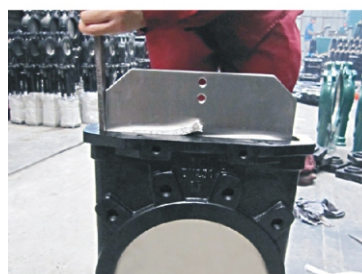
D. Put new EPDM ring in the place



E. Put retainer on the EPDM ring



F. Put gate back and packing in valve body



G. Assemble the packing gland and tighten the screw

