

OREG Butterfly valve SYLAX type DN 25 to 300

Actuated with notched ductile iron hand lever



Applications and features

SY-PCF/10.2000

Dedicated to industrial process applications

- Spline driven one piece shaft connected to spherically machined disc allows high torque transmission i.e. quick response and minimum back-lash
- Long term reliability due to upper and lower anti-friction bearings
- Safe maintenance : shaft blow out protection with circlip
- Ease of maintenance : interchangeability of all parts including discs, shafts, and liners, which simplifies service and reduces maintenance costs
- Body types : available wafer style with 4 centering lugs and lugged style with tapped lugs
- Body materials : Cast iron GG25. Ductile iron GGG40, carbon steel and stainless steel (except DN 25)
- Operating position vertical and horizontal
- 16 bar version (6 bar version available)
- Padlockable hand lever with 10 positions



Technical features

ISO TOP FLANGE : According to ISO 5211 and NF E 29-402 standards.

FACE TO FACE : According to : NF EN 558-1 class 20 ISO 5752 class 20
 DIN 3202 part3 K1 BS 5155 table6 col.4 API 609 table1

PRESSURE RATING :

| Type | Mounting between flanges Body : Cast iron GG25 | Mounting between flanges Body : Ductile iron GGG40 | Mounting deadline Body : Cast iron GG25 | Mounting deadline Body : Ductile iron GGG40 |
|----------------|---|---|---|---|
| Centering lugs | 16 bar from DN 32 to 300 10 bar for DN 25 | 16 bar | - | - |
| Tapped lugs | 16 bar from DN 32 to 300 | 16 bar | 16 bar from DN 32 to 150 10 bar from DN 200 to 300 | 16 bar from DN 32 to 150 10 bar from DN 200 to 350 |

TEMPERATURE RATING :

| TYPE | Design temperature | | Working temperature | |
|----------------------|--------------------|---------|---------------------|---------|
| | MINI | MAXI | MINI | MAXI |
| EPDM | -20° C | +120° C | -15° C | +110° C |
| White EPDM | -20° C | + 85° C | +8° C | + 80° C |
| High content NITRILE | -10° C | + 90° C | +5° C | + 85° C |
| White NITRILE | - 5° C | + 75° C | +5° C | + 60° C |
| Carboxylated NITRILE | -10° C | +115° C | +5° C | +110° C |
| HYPALON | -25° C | + 95° C | +5° C | + 90° C |
| SILICONE | -40° C | +240° C | -25° C | +200° C |
| Fluored ELASTOMER | -10° C | +200° C | +5° C | +180° C |
| BUTHYL | -20° C | + 85° C | +5° C | + 85° C |
| Natural RUBBER | -30° C | + 45° C | +5° C | +45° C |

FLANGE RATING :

| | Wafer type | Lug type |
|------------------|------------|----------|
| PN 6 | ○ (1) | ○ |
| PN 10/16 | ● | ● |
| PN 20 | ● | ● |
| PN 25 | ○ | ○ |
| ANSI 150 | ● | ● |
| JIS 10/16 K | ○ | ○ |
| BS 10 d/e | ○ | ○ |
| BS 4504 PN 10/16 | ● | ● |

(1) ● for cast iron GG25 body

○ On request

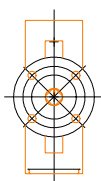
● Standard model

* **Design temperature :** maximum temperature at severe conditions (eg. testing with hot dry air).

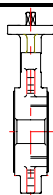
For specific conditions please contact us.

* **Working temperature :** safety temperature recommended to the valve with suitable actuation as mentioned in our catalogue pricelist.

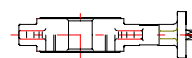
Installation



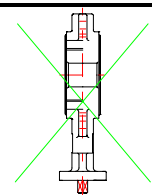
Recommended



Possible



Possible



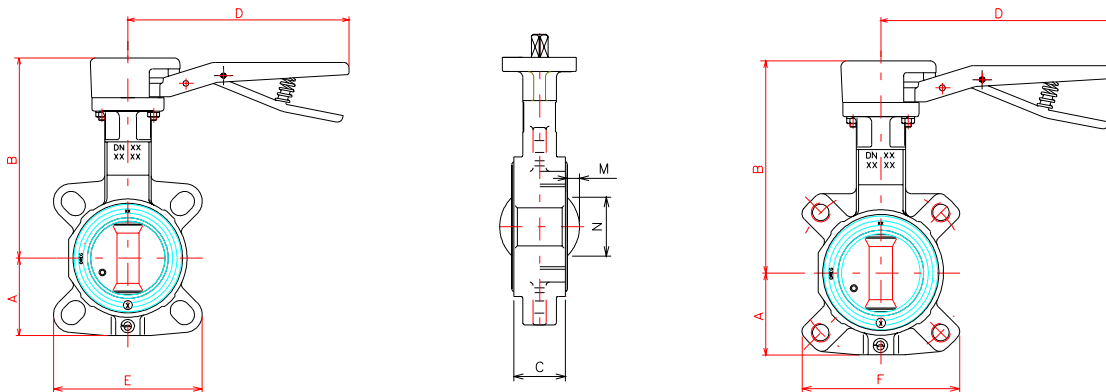
Not recommended

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Overall dimensions



| DN | INCH | A | B | C | D | E | F | M | N | WEIGHT (1) | | | |
|-------|---------|-----|-----|----|-----|-----|-----|------|-------|------------|-------|----------|-------|
| | | | | | | | | | | Wafer type | | Lug type | |
| | | | | | | | | | | GG25 | GGG40 | GG25 | GGG40 |
| 25 | 1" | 52 | 161 | 32 | 200 | 92 | - | 0 | 0 | 2,5 | - | - | - |
| 32/40 | 1¼"/1½" | 57 | 130 | 32 | 200 | 112 | 114 | 4,5 | 27 | 2,5 | 2,8 | 3,5 | 3,2 |
| 50 | 2" | 62 | 172 | 43 | 200 | 122 | 127 | 3 | 23 | 3,4 | 3,4 | 4 | 3,5 |
| 65 | 2½" | 70 | 181 | 46 | 200 | 137 | 140 | 9 | 45 | 3,8 | 3,6 | 5 | 4,9 |
| 80 | 3" | 89 | 187 | 46 | 200 | 126 | 182 | 8,5 | 46 | 4 | 3,7 | 5,5 | 5 |
| 100 | 4" | 106 | 211 | 52 | 290 | 152 | 208 | 28 | 84 | 5,8 | 6,2 | 8,4 | 7,3 |
| 125 | 5" | 120 | 226 | 56 | 290 | 182 | 242 | 33 | 111 | 7,8 | 7,5 | 9,8 | 8,3 |
| 150 | 6" | 132 | 239 | 56 | 290 | 206 | 270 | 45,5 | 138 | 8,2 | 8,4 | 11,8 | 10,9 |
| 200 | 8" | 164 | 293 | 60 | 450 | 265 | 335 | 69 | 191,5 | 16,6 | 18,4 | 23 | 20,2 |
| 250 | 10" | 200 | 318 | 68 | 450 | 318 | 400 | 93 | 248 | 23,2 | 22 | 28 | 27 |
| 300 | 12" | 238 | 343 | 78 | 450 | 371 | 456 | 111 | 293 | 31 | 33,2 | 42 | 42 |

(1) Ductile iron EN GJS-400-15 disc, EPDM liner.

Dimensions for valves with EPDM and High content Nitrile liners. For other liners see our price list catalogue or contact us.

Material specification

| Item | Qty | Description | Materials |
|------|-----|------------------|-------------------------------|
| 1 | 1 | Body | (1) |
| 2 | 1 | Disc | (2) |
| 3 | 1 | Shaft | AISI 420 |
| 4 | 1 | Liner | See temperature table |
| 5 | 1 | Circlips | Steel XC 75 / Stainless steel |
| 6 | 1 | O'Ring | Nitrile/Viton |
| 7 | 1 | Bush | IXEF |
| 8 | 1 | Metal tag | Aluminium |
| 9 | 1 | Safety bush | SS 304 L |
| 10 | 1 | Upper guide bush | Zinc coated S. +PTFE |
| 11 | 1 | Lower guide bush | Zinc coated S. +PTFE |
| 12 | 1 | Cap | EN GJS-400-15/EN GJL-250 |
| 13 | 1 | Hand lever | EN GJS-400-15 |
| 14 | 1 | Lever | EN GJS-400-15 |
| 15 | 2 | CHc screw | Zinc coated steel |
| 16 | 2 | Stop washer | Zinc coated steel |
| 17 | 2 | Nut | Zinc coated steel |
| 18 | 1 | Pin | Stainless steel |
| 19 | 1 | Spring | Stainless steel |

(1) Cast iron EN GJL 250 (DIN GG25), Ductile iron EN GJS 400 -15 (DIN GGG40), SS 316, Steel E 280-480 M

(2) Cast iron EN GJL 250 (DIN GG25), Ductile iron EN GJS 400-15(DIN GGG40), SS 316, Alu of bronze.

