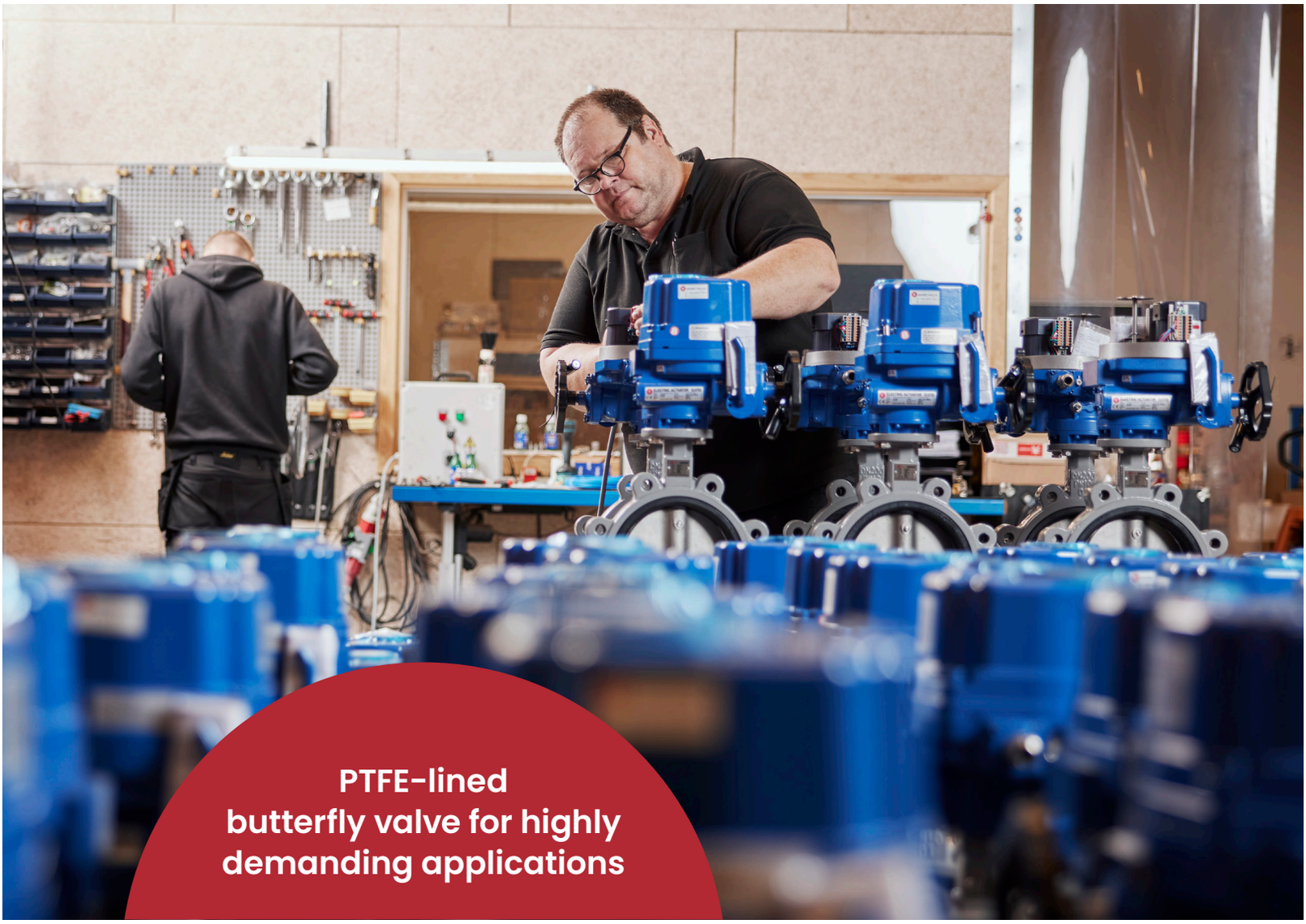

**PTFE-lined butterfly valve for highly demanding applications**

MODU

# GAR-SEAL

## Wafer DN50-DN600

- -40 to 200°C “material dependent”
- Industrial PTFE-lined butterfly valve with high-quality silicone backup ring and replaceable liner
- Suitable for both corrosive and abrasive media
- 2-piece body construction
- Wafer design for mounting between various flange standards
- Replaceable liner
- ISO5211 connection for actuator mounting via brackets
- Unique patented packing system
- Cast iron body with heavy-duty industrial epoxy coating of 200µ

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# GAR-SEAL

Wafer DN50-DN600 • FDA, SIL, TA-LUFT, CE, PED

## Connection (LUG)

DN50-DN600: PN10, PN16, ANSI150

## Application Area

GAR-SEAL butterfly valves are typically used where corrosive, abrasive, or toxic media need to be securely shut off. The valves are often employed for isolation or regulation of chemical, petrochemical, or chlorine-containing media, as well as in the paper, metallizing, and many other demanding industries. GAR-SEAL butterfly valves offer an incredibly long service life with minimal maintenance. Please contact MODU Valves for consultation on challenging media applications.

## Pressure rating

DN50-DN300: PN16, leak rate A
DN350-DN600: PN10. leak rate A

## Options on Request

Body material: Steel, stainless steel
Liner: PTFE, UHMWPE, also available for ATEX (conductive)
Disc: UHMWPE, 1.4581, Hastelloy C, Titanium

## Temperature

-40 to 200°C "material dependent"

## Accessories

- Handle
- Gear
- Bracket/ Coupling for actuator mounting

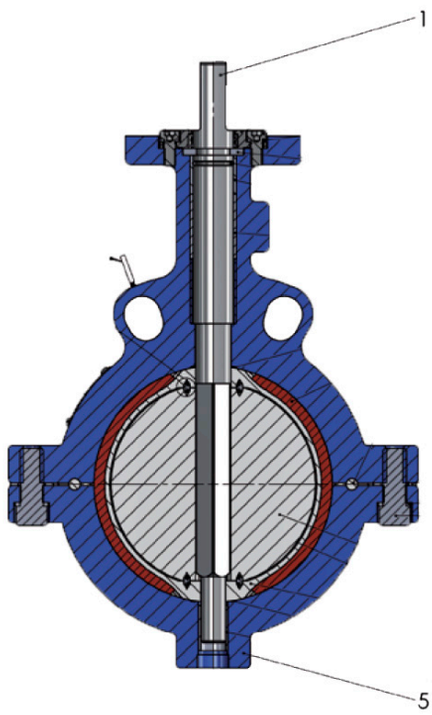
## Developed for your industry

| | | | |
|---|---|---|---|
| Energy | Marine | OEM | Pharma-ceutical |
| Food & Beverage | Oil & Chemical | AI Data Centers | Pure/ Process Water |

Additional specification can be requested.

## Material description, excerpt

| Pos | Description | Material |
|---|---|---|
| 1 | Stem | Stainless steel 1.4313/1.4021 |
| 5 | Body | Cast iron GS-C 25 |

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We assist engineers in improving the quality of your manufacturing process.

### Optimize Your Investment.

We help procurement teams optimize overall production costs, increase uptime, and protect your brand.

### Work smarter.

We support service teams in working smarter while preventing time-consuming errors.

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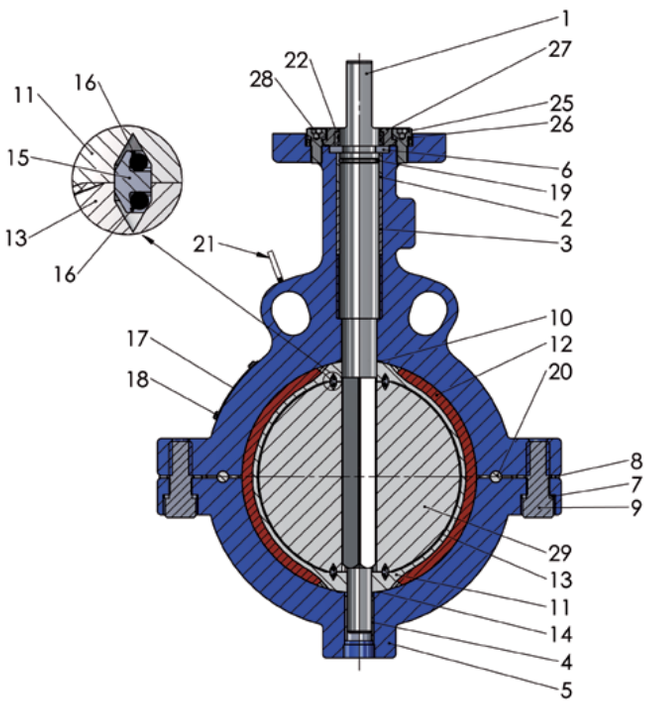
# GAR-SEAL

Wafer DN50-DN600 • FDA, SIL, TA-LUFT, CE, PED

## Material description

| Pos | Description | Material |
|---|---|---|
| 1 | Stem | Stainless steel 1.4313/1.4021 |
| 2 | Plain bearing top | Steel/PTFE |
| 3 | Plain bearing center | Steel/PTFE |
| 4 | Plain bearing bottom | Steel/PTFE |
| 5 | Body | Støbejern GS-C 25 |
| 6 | Locking plate "split" | RPTFE |
| 7 | Spring washer | Stainless steel |
| 8 | Washer | GYLON® |
| 9 | Body bolt | Stainless steel |
| 10 | Top gasket | GYLON® |
| 11 | Liner | PTFE |
| 12 | Backup elastomer | Silicone |
| 13 | Disc coating | PTFE |
| 14 | Bottom gasket | GYLON® |
| 15 | Sealing element | PTFE |
| 16 | O-ring | FPM |
| 17 | Nameplate | Stainless steel |
| 18 | Rivet | Stainless steel |
| 19 | O-ring | FPM |
| 20 | Body gasket | PTFE |
| 21 | Ground clamp | Steel, electro-galvanized |
| 22 | O-ring | FPM |
| 25 | Screw | Stainless steel |
| 26 | Spring washer | Stainless steel |
| 27 | End flange | Stainless steel |
| 28 | Gasket | GYLON® |
| 29 | Disc | <DN65 Stainless steel 1.4404<br>>DN80 Ductile iron 0.7040 (GGG 40) |




## Vakuumtabel [mbara]

| Dimension | Temperature | Standard [mbar] absolute | Vacuum design [mbar] absolute |
|---|---|---|---|
| DN50-DN100 | <100°C | 1 | <1 |
| | >100...150°C | 1 | <1 |
| | >150...200°C | 1 | <1 |
| DN150 | <100°C | 5 | <1 |
| | >100...150°C | 173 | 1 |
| | >150...200°C | 293 | 1 |
| DN200 | <100°C | 209 | <1 |
| | >100...150°C | 343 | <1 |
| | >150...200°C | 438 | 1 |
| DN300 | <100°C | 471 | 1 |
| | >100...150°C | 561 | 39 |
| | >150...200°C | 624 | 178 |

| Dimension | Temperature | Standard [mbar] absolute | Vacuum design [mbar] absolute |
|---|---|---|---|
| DN400 | <100°C | 498 | 1 |
| | >100...150°C | 583 | 1 |
| | >150...200°C | 643 | 108 |
| DN500 | <100°C | 599 | 162 |
| | >100...150°C | 667 | 304 |
| | >150...200°C | 715 | 405 |
| DN600 | <100°C | 737 | 343 |
| | >100...150°C | 782 | 454 |
| | >150...200°C | 813 | 533 |

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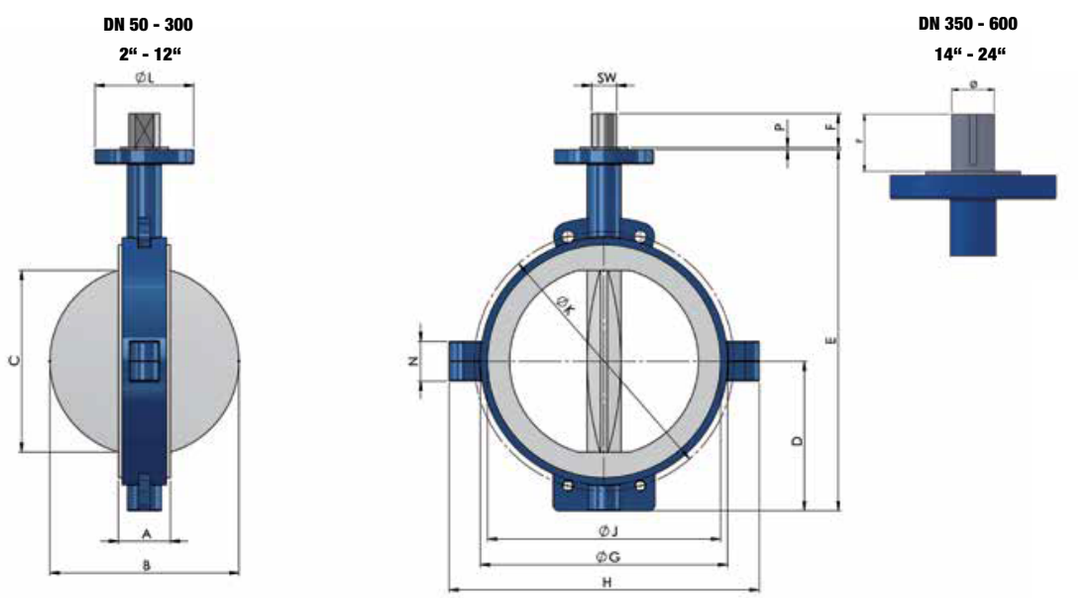
# GAR-SEAL

Wafer DN50-DN600 • FDA, SIL, TA-LUFT, CE, PED

## Dimensions




| DIM | ISO 5211 | A | B | C | D | E | F | ØG | H | ØJ | ØK PN10 | ØK #150 | ØL | Ø SW | P | N | Z PN10 | Z #150 | Weight [Kg] | Kvs [m³/t] | Torque [Nm]* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| All dimensions in [mm] | | | | | | | | | | | | | | | | | | | | | |
| DN50 PN16 | F05 | 43 | 60 | 43 | 62 | 202 | 35 | 102 | 152 | 98 | 125 | 121 | 65 | 10.0 | 3 | 40 | 4xM16 | 4x5/8”-11 | 2.6 | 84 | 25 |
| DN65 PN16 | F05 | 46 | 70 | 53 | 70 | 220 | 35 | 121 | 171 | 120 | 145 | 140 | 65 | 10.0 | 3 | 40 | 4xM16 | 4x5/8”-11 | 3.5 | 132 | 28 |
| DN80 PN16 | F05 | 46 | 82 | 67 | 79 | 244 | 35 | 133 | 183 | 127 | 160 | 152 | 65 | 10.0 | 3 | 40 | 8xM16 | 4x5/8”-11 | 3.8 | 244 | 29 |
| DN100 PN16 | F07 | 52 | 106 | 93 | 95 | 275 | 35 | 162 | 214 | 159 | 180 | 190 | 90 | 13.0 | 3 | 50 | 8xM16 | 8x5/8”-11 | 6.2 | 420 | 53 |
| DN125 PN16 | F07 | 56 | 128 | 115 | 108 | 303 | 35 | 192 | 248 | 187 | 210 | 216 | 90 | 13.0 | 3 | 50 | 8xM16 | 8x3/4”-10 | 8.6 | 710 | 87 |
| DN150 PN16 | F10 | 56 | 157 | 147 | 121 | 336 | 40 | 218 | 290 | 216 | 240 | 241 | 125 | 17.0 | 3 | 56 | 8xM20 | 8x3/4”-10 | 11.6 | 997 | 121 |
| DN200 PN16 | F10 | 60 | 197 | 188 | 150 | 395 | 40 | 273 | 350 | 270 | 295 | 298 | 125 | 17.0 | 3 | 56 | 8xM20 | 8x3/4”-10 | 17.4 | 1613 | 168 |
| DN250 PN16 | F12 | 68 | 246 | 236 | 179 | 459 | 50 | 328 | 405 | 324 | 350 | 362 | 150 | 22.0 | 3 | 60 | 12xM20 | 12x7/8”-9 | 30.6 | 2950 | 215 |
| DN300 PN16 | F12 | 78 | 295 | 284 | 216 | 536 | 50 | 378 | 455 | 375 | 400 | 432 | 150 | 22.0 | 3 | 70 | 12xM20 | 12x7/8”-9 | 38.3 | 4371 | 274 |
| DN350 PN10 | F14 | 92 | 335 | 322 | 265 | 640 | 60 | 438 | 550 | 413 | 460 | 476 | 175 | 44.4 | 4 | 70 | 16xM20 | 12x1”-8 | 71.5 | 6200 | 544 |
| DN400 PN10 | F14 | 102 | 387 | 374 | 305 | 725 | 60 | 489 | 570 | 470 | 515 | 540 | 175 | 44.4 | 4 | 70 | 16xM24 | 16x1”-8 | 90.6 | 8800 | 770 |
| DN450 PN10 | F16 | 114 | 430 | 415 | 320 | 780 | 80 | 539 | 670 | 533 | 565 | 578 | 210 | 44.4 | 4 | 70 | 20xM24 | 16x1 1/8”-7 | 113.0 | 10750 | 996 |
| DN500 PN10 | F16 | 127 | 484 | 467 | 355 | 865 | 80 | 594 | 690 | 584 | 620 | 635 | 210 | 44.4 | 4 | 70 | 20xM24 | 20x1 1/8”-7 | 163.5 | 13500 | 1089 |
| DN600 PN10 | F25 | 154 | 578 | 558 | 415 | 990 | 90 | 695 | 820 | 692 | 725 | 749 | 300 | 63.5 | 5 | 76 | 20xM27 | 20x1 1/4”-7 | 254.0 | 19100 | 2056 |

* Torque including 10% safety factor in dry conditions [21°C].

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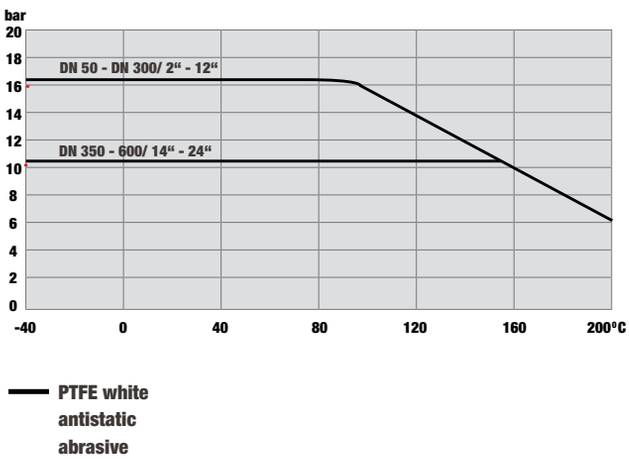
## Pressure/temperature specification




## Use in vacuum systems

The Gar-Seal butterfly valve can be used in systems where vacuum conditions are present. For lower vacuum levels than those indicated under standard specifications, the Gar-Seal butterfly valve can be supplied in a special version with increased thickness of the PTFE liner, suitable for lower vacuum levels.

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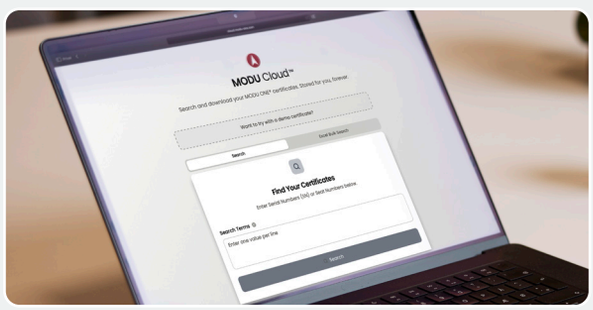


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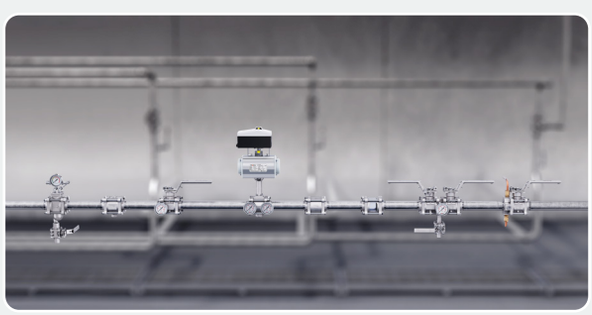

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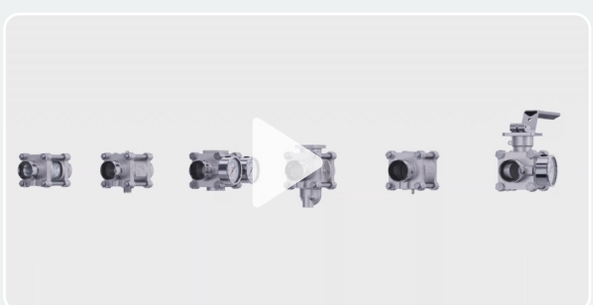

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