# ECON® Butterfly valve Type: 9133 Stainless steel/Stainless steel Double-ecFire safe Gearbox Wafer type

## Characteristics

**Type:** 9133
**Norm:** ASME
**Valve design:** Double-eccentric
**Housing material:** Stainless steel
**Material quality:** ASTM A351 CF8M
**Connection:** Wafer type
**Standard connection:** EN (DIN)/ ASME
**Face to Face norm:** EN 558, Series 20
**Operation:** Gearbox
**Top flange standard:** ISO 5211 Direct Mount
**Disk material:** Stainless steel
**Quality class disc:** ASTM A351 CF8M
**Actuator material:** EN-JL1040
**Fire safe:** Yes

## Application

- Heavy industrial, maritime, chemical and petrochemical applications where rubber-lined butterfly valves cannot be used due to their limited pressure and temperature range.
- Recommended in: Chemical, Food & Beverages

## Technical Information

- Fire-safe high-performance stainless-steel butterfly valve.
- Patented seat construction for 100% bi-directional seal.
- Full-length shaft-disc construction and replaceable seat.
- One-piece spindle in an anti-blowout design.
- Antistatic version with ground connection.
- Dimensions in DN50 to DN400 (2" to 20").
- Drilled in dimensions DN50 to DN150 PN16 and available from DN200 with PN10, PN16 or Class-150 drilling.
- With "direct mount" top-flange in accordance with ISO-5211.
- Medium temperature with standard seat made of PTFE (TF 1641): -29/+210°C, with RPTFE seat: -29/+250° C.

## Construction

- Wafer connection type.
- Double-eccentric.
- Design in accordance with API 609 and ASME B16.34.
- Construction length in accordance with EN 558, series 20.
- Suitable for mounting with flanges in accordance with EN 1092-1.
- Nominal pressure class is Class 150 (PN20).
- Charpy impact test at -29°C.
- Tested according to EN12266-1 rate A for EN- or according to API 598 for ASME valves.

## Approval

- PED module H in accordance with 2014/68/EU.
- SIL 2 in accordance with IEC 61508-1 and SIL 3 with duplicate design in series or in parallel (redundancy).
- Fire-safe certified in accordance with API 607 and ISO 10497.

## Options

- DN50 to DN150 can also be designed with PN10 or class-150 bore.
- Pressure class PN25, PN40, Class 150 or Class 300.
- Available as a socket or double-flange model.
- Available in steel.
- Equipped with lever and pneumatic, electric or hydraulic actuators.
- Position feedback for manually actuated or automated valves.
- Available with RPTFE/Inconel seat.
- Spindle seal in accordance with ISO 15848-1-CO3 Class BH for fugitive emissions.





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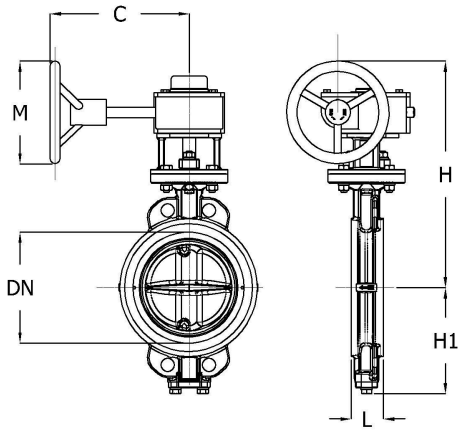


## Size table:

| DN | C | H | H1 | L | M | Weight |
|---|---|---|---|---|---|---|
| | mm | mm | mm | mm | mm | kg |
| DN50 | 150 | 268 | 99 | 43 | 150 | 10 |
| DN65 | 150 | 275 | 110 | 46 | 150 | 11 |
| DN80 | 197 | 340 | 128 | 47 | 200 | 14 |
| DN100 | 197 | 357 | 150 | 52 | 200 | 16 |
| DN125 | 197 | 370 | 163 | 56 | 200 | 19 |
| DN150 | 197 | 385 | 176 | 56 | 200 | 21 |
| DN200 | 287 | 420 | 206 | 60 | 200 | 37 |
| DN250 | 287 | 510 | 238 | 68 | 250 | 47 |
| DN300 | 287 | 540 | 269 | 78 | 250 | 63 |

| Maximum opererating pressure | Temperature range |
|---|---|
| 20 bar | -29°C tot 210°C* |
| * Metal seat execution up to 500°C. | |

| Nominal inner diameter | Pressure rating | Pressure rating flange | Flange drilling | Face to Face length mm | Seat material | Spindle material | Quality class spindle | Article |
|---|---|---|---|---|---|---|---|---|
| DN50 - 2" | Class 150 | PN16 | | 43 | PTFE + Inconel | Stainless steel | ASTM A564 630 | 13419301 |
| DN65 - 2.1/2" | Class 150 | PN16 | | 46 | PTFE + Inconel | Stainless steel | ASTM A564 630 | 13419303 |
| DN80 - 3" | Class 150 | PN16 | | 47 | PTFE + Inconel | Stainless steel | ASTM A564 630 | 13388977 |
| DN100 - 4" | Class 150 | PN16 | | 52 | PTFE + Inconel | Stainless steel | ASTM A564 630 | 13245317 |
| DN125 - 5" | Class 150 | PN16 | | 56 | PTFE + Inconel | Stainless steel | ASTM A564 630 | 13419304 |
| DN150 - 6" | Class 150 | PN16 | | 56 | PTFE + Inconel | Stainless steel | ASTM A564 630 | 13228103 |
| DN200 - 8" | Class 150 | PN10/16 and Class 150 | Unbored | 60 | PTFE + Inconel | Stainless steel | ASTM A564 630 | 13228107 |
| DN250 - 10" | Class 150 | PN10/16 and Class 150 | Unbored | 68 | PTFE + Inconel | Stainless steel | ASTM A564 630 | 13228109 |
| DN300 - 12" | Class 150 | PN10/16 and Class 150 | Unbored | 78 | PTFE + Inconel | Stainless steel | ASTM A564 630 | 13419305 |





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