



## ECON® Butterfly valve Type: 6820 Ductile cast iron/ Aluminum bronze Bare stem Lug type

### Characteristics

**Type:** 6820  
**Norm:** EN (DIN)  
**Valve design:** Centric  
**Housing material:** Ductile cast iron  
**Material quality:** EN-JS1030  
**Surface protection:** Polyester powder coating min. 200µm  
**Connection:** Lug type  
**Standard connection:** EN (DIN)  
**Face to Face norm:** EN 558, Series 20  
**Operation:** Bare stem  
**Top flange standard:** ISO 5211 Direct Mount  
**Housing lining:** Replaceable  
**Disk material:** Aluminum bronze  
**Quality class disc:** CC333G

### Application

- Industrial applications such as water, hydrocarbons and slightly corrosive fluids and gases.
- Supply systems (HVAC).
- Especially suitable for sea water due to the aluminium bronze valve disc.
- Vacuum systems.

### Technical Information

- With replaceable lining, vulcanised on a phenol or aluminium back-up ring.
- One-piece spindle in an anti-blowout design.
- With "direct mount" top-flange in accordance with ISO 5211.
- Long neck for insulation purposes.
- Three-point spindle bearing for excellent life cycle management.
- Grooved connection between the spindle and the valve disc for DN25 to DN300, larger formats have a plug-in connection between the spindle and the valve disc.
- Bronze bearing bushings.
- Housing with polyester powder coating, minimum thickness of 200 µm and RAL colour 5015.
- Version with free shaft end (no actuation).
- Dimensions in DN25 to DN600 [1" to 24"].
- Flanged connection pressure class for DN25 to DN150 [1" to 6"]: PN10 and PN16 or class 150, DN200 to DN600 [8" to 24"]: PN10, PN16 or class 150.
- Maximum medium temperature depending on the lining: EPDM: -10°C to +110°C, NBR: -10°C to +80°C, FPM (FKM): -10°C to +180°C.

### Construction

- Threaded eye connection.
- Design in accordance with EN 593, API 609 and ASME B16.34.
- Standard design with pressure class PN16 for DN25 to DN150 and PN10 or PN16 for DN200 to DN600.
- Construction length in accordance with EN 558 series 20, ISO 5752 series 20 and API 609 category A.
- Suitable for fitting with flanges in accordance with EN 1092-1 (flange type 11) and ASME B16.5.
- Bi-directional bubble-tight sealing in accordance with EN 12266 and API 598.

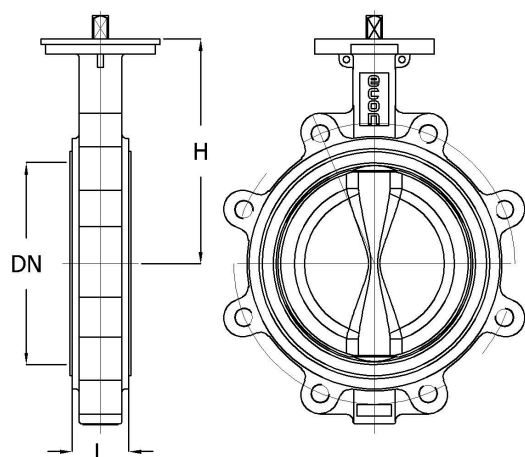
### Options

- Manually operated, worm gearbox, pneumatic, electric or (electro-) hydraulic actuators.
- Position feedback for manually operated or automated valves.

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Size table:

| DN    | H<br>mm | L<br>mm | Weight<br>kg |
|-------|---------|---------|--------------|
| DN40  | 115     | 33      | 2.3          |
| DN50  | 143     | 43      | 3.6          |
| DN65  | 156     | 46      | 4.2          |
| DN80  | 162     | 46      | 4.7          |
| DN100 | 181     | 52      | 7.5          |
| DN125 | 197     | 56      | 10.2         |
| DN150 | 210     | 56      | 11           |
| DN200 | 240     | 60      | 17           |
| DN250 | 286     | 68      | 31           |
| DN300 | 309     | 78      | 44           |
| DN350 | 329     | 78      | 70           |
| DN400 | 361     | 102     | 92           |
| DN450 | 393     | 114     | 120          |
| DN500 | 427     | 127     | 165          |
| DN600 | 492     | 154     | 210          |



| Pressure and temperature range |             |                 |                                  |                       |
|--------------------------------|-------------|-----------------|----------------------------------|-----------------------|
| DN                             | Liner       | Pressure rating | Temperature range                | Max. working pressure |
| DN25-DN300                     | NBR or EPDM | PN16            | NBR -10°/+80°C, EPDM -10°/+110°C | 16 bar                |
| DN200-DN600                    | NBR or EPDM | PN10            | NBR -10°/+80°C, EPDM -10°/+110°C | 10 bar                |

| Nominal inner diameter | Pressure rating | Pressure rating flange | Face to Face length | Material liner | Spindle material | Quality class spindle | Minimum medium temperature [continuous] | Maximum medium temperature [continuous] | Article  |
|------------------------|-----------------|------------------------|---------------------|----------------|------------------|-----------------------|-----------------------------------------|-----------------------------------------|----------|
|                        |                 |                        | mm                  |                |                  |                       | °C                                      | °C                                      |          |
| DN40                   | PN16            | PN10/16                | 33                  | EPDM           | Stainless steel  | 1.4006                | -10                                     | 110                                     | 13332744 |
| DN40                   | PN16            | PN10/16                | 33                  | NBR            | Stainless steel  | 1.4006                | -10                                     | 80                                      | 13332777 |
| DN50                   | PN16            | PN10/16                | 43                  | EPDM           | Stainless steel  | 1.4006                | -10                                     | 110                                     | 13332745 |
| DN50                   | PN16            | PN10/16                | 43                  | NBR            | Stainless steel  | 1.4006                | -10                                     | 80                                      | 13332778 |
| DN65                   | PN16            | PN10/16                | 46                  | EPDM           | Stainless steel  | 1.4006                | -10                                     | 110                                     | 13332746 |
| DN65                   | PN16            | PN10/16                | 46                  | NBR            | Stainless steel  | 1.4006                | -10                                     | 80                                      | 13332779 |
| DN80                   | PN16            | PN10/16                | 46                  | EPDM           | Stainless steel  | 1.4006                | -10                                     | 110                                     | 13332747 |
| DN80                   | PN16            | PN10/16                | 46                  | NBR            | Stainless steel  | 1.4006                | -10                                     | 80                                      | 13332780 |
| DN100                  | PN16            | PN10/16                | 52                  | EPDM           | Stainless steel  | 1.4006                | -10                                     | 110                                     | 13332748 |
| DN100                  | PN16            | PN10/16                | 52                  | NBR            | Stainless steel  | 1.4006                | -10                                     | 80                                      | 13332781 |
| DN125                  | PN16            | PN10/16                | 56                  | EPDM           | Stainless steel  | 1.4006                | -10                                     | 110                                     | 13332749 |
| DN125                  | PN16            | PN10/16                | 56                  | NBR            | Stainless steel  | 1.4006                | -10                                     | 80                                      | 13332782 |
| DN150                  | PN16            | PN10/16                | 56                  | EPDM           | Stainless steel  | 1.4006                | -10                                     | 110                                     | 13332750 |
| DN150                  | PN16            | PN10/16                | 56                  | NBR            | Stainless steel  | 1.4006                | -10                                     | 80                                      | 13332784 |
| DN200                  | PN10            | PN10                   | 60                  | EPDM           | Stainless steel  | 1.4057                | -10                                     | 110                                     | 13332756 |
| DN200                  | PN10            | PN10                   | 60                  | NBR            | Stainless steel  | 1.4057                | -10                                     | 80                                      | 13332785 |
| DN200                  | PN16            | PN16                   | 60                  | EPDM           | Stainless steel  | 1.4057                | -10                                     | 110                                     | 13332751 |

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| Nominal inner diameter | Pressure rating | Pressure rating flange | Face to Face length | Material liner | Spindle material | Quality class spindle | Minimum medium temperature (continuous) | Maximum medium temperature (continuous) | Article  |
|------------------------|-----------------|------------------------|---------------------|----------------|------------------|-----------------------|-----------------------------------------|-----------------------------------------|----------|
|                        |                 |                        | mm                  |                |                  |                       | °C                                      | °C                                      |          |
| DN200                  | PN16            | PN16                   | 60                  | NBR            | Stainless steel  | 1.4057                | -10                                     | 80                                      | 13332790 |
| DN250                  | PN10            | PN10                   | 68                  | EPDM           | Stainless steel  | 1.4057                | -10                                     | 110                                     | 13548567 |
| DN250                  | PN10            | PN10                   | 68                  | NBR            | Stainless steel  | 1.4057                | -10                                     | 80                                      | 13548569 |
| DN250                  | PN16            | PN16                   | 68                  | EPDM           | Stainless steel  | 1.4057                | -10                                     | 110                                     | 13548565 |
| DN250                  | PN16            | PN16                   | 68                  | NBR            | Stainless steel  | 1.4057                | -10                                     | 80                                      | 13548571 |
| DN300                  | PN10            | PN10                   | 78                  | EPDM           | Stainless steel  | 1.4057                | -10                                     | 110                                     | 13548568 |
| DN300                  | PN10            | PN10                   | 78                  | NBR            | Stainless steel  | 1.4057                | -10                                     | 80                                      | 13548570 |
| DN300                  | PN16            | PN16                   | 78                  | EPDM           | Stainless steel  | 1.4057                | -10                                     | 110                                     | 13548566 |
| DN300                  | PN16            | PN16                   | 78                  | NBR            | Stainless steel  | 1.4057                | -10                                     | 80                                      | 13548572 |
| DN350                  | PN10            | PN10                   | 78                  | EPDM           | Stainless steel  | 1.4057                | -10                                     | 110                                     | 13332759 |
| DN350                  | PN10            | PN10                   | 78                  | NBR            | Stainless steel  | 1.4057                | -10                                     | 80                                      | 13332791 |
| DN350                  | PN16            | PN16                   | 78                  | EPDM           | Stainless steel  | 1.4057                | -10                                     | 110                                     | 13332754 |
| DN350                  | PN16            | PN16                   | 78                  | NBR            | Stainless steel  | 1.4057                | -10                                     | 80                                      | 13332821 |
| DN400                  | PN10            | PN10                   | 102                 | EPDM           | Stainless steel  | 1.4057                | -10                                     | 110                                     | 13332760 |
| DN400                  | PN10            | PN10                   | 102                 | NBR            | Stainless steel  | 1.4057                | -10                                     | 80                                      | 13492663 |
| DN400                  | PN16            | PN16                   | 102                 | EPDM           | Stainless steel  | 1.4057                | -10                                     | 110                                     | 13332755 |
| DN400                  | PN16            | PN16                   | 102                 | NBR            | Stainless steel  | 1.4057                | -10                                     | 80                                      | 13492662 |
| DN450                  | PN10            | PN10                   | 114                 | EPDM           | Stainless steel  | 1.4057                | -10                                     | 110                                     | 13332793 |
| DN450                  | PN10            | PN10                   | 114                 | NBR            | Stainless steel  | 1.4057                | -10                                     | 80                                      | 13332796 |
| DN500                  | PN10            | PN10                   | 127                 | EPDM           | Stainless steel  | 1.4057                | -10                                     | 110                                     | 13332794 |
| DN500                  | PN10            | PN10                   | 127                 | NBR            | Stainless steel  | 1.4057                | -10                                     | 80                                      | 13332797 |
| DN600                  | PN10            | PN10                   | 154                 | EPDM           | Stainless steel  | 1.4057                | -10                                     | 110                                     | 13332795 |
| DN600                  | PN10            | PN10                   | 154                 | NBR            | Stainless steel  | 1.4057                | -10                                     | 80                                      | 13332798 |

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