



ECON® Butterfly valve Type: 6821 Ductile cast iron/Aluminum bronze Centric Squeeze handle Lug type

Characteristics

Type: 6821

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

Face to Face norm: EN 558, Series 20

Operation: Squeeze handle

Top flange standard: ISO 5211 Direct Mount

Housing lining: Replaceable

Disk material: Aluminum bronze

Minimum medium temperature (continuous): -10 °C

Maximum medium temperature (continuous): 80 °C

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 DN200.
- Bronze bearing bushings.
- Housing with polyester powder coating, minimum thickness of 200 µm and RAL colour 5015.
- Version with handle.
- Dimensions in DN25 to DN200 (1" to 8").
- Flanged connection pressure class for DN25 to DN150 (1" to 6"): PN10 and PN16 or class 150, DN200 (8"): 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

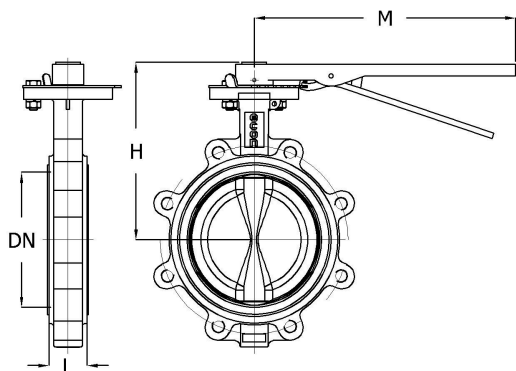
- Threaded eye connection.
- Design in accordance with EN 593, API 609 and ASME B16.34.
- Standard design with pressure class PN16 for DN25 to DN150 and PN10 or PN16 for DN200.
- Construction length in accordance with EN 558 series 20, ISO 5752 series 20 and API 609 category A.
- Suitable for fitting 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

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

Size table:

DN	H mm	L mm	M mm	Weight kg
DN40	145	33	195	2.8
DN65	186	46	265	5
DN80	192	46	265	5.5
DN100	212	52	265	8.3
DN150	242	56	328	12



DN	Liner	Pressure and temperature range		
		Pressure rating	Temperature range	Max. working pressure
DN25-DN150	NBR or EPDM	PN16	NBR -10°/+80°C, EPDM -10°/+110°C	16 bar
DN200	NBR or EPDM	PN10	NBR -10°/+80°C, EPDM -10°/+110°C	10 bar

Nominal inner diameter	Standard connection	Pressure rating	Pressure rating flange	Face to Face length mm	Material liner	Quality class disc	Spindle material	Quality class spindle	Actuator material	Article
DN40	EN (DIN)	PN16	PN10/16	33	NBR	CC333G	Stainless steel	1.4006	Malleable cast iron	EC06821E040-CBBC
DN65	EN (DIN)	PN16	PN10/16	46	NBR	CC333G	Stainless steel	1.4006	Malleable cast iron	EC06821E065-CBBC
DN80	EN (DIN)	PN16	PN10/16	46	NBR	CC333G	Stainless steel	1.4006	Malleable cast iron	EC06821E080-CBBC
DN100	EN (DIN)	PN16	PN10/16	52	NBR	CC333G	Stainless steel	1.4006	Malleable cast iron	EC06821E100-CBBC
DN150	EN (DIN)	PN16	PN10/16	56	NBR	CC333G	Stainless steel	1.4006	Malleable cast iron	EC06821E150-CBBC

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