



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

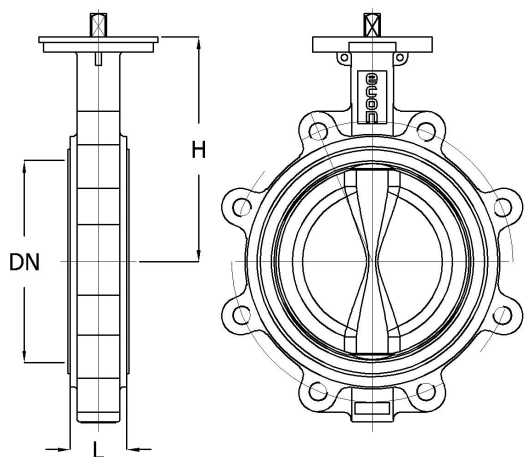
- Threaded eye connection.
- Design in accordance with EN 593, API 609 and ASME B16.34.
- Standard design with pressure class PN16 for DN25 to DN150 and PN10 or PN16 for DN200 to DN600.
- Construction length in accordance with EN 558 series 20, ISO 5752 series 20 and API 609 category A.
- Suitable for 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.

Size table:

DN	H mm	L mm	Weight 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 mm	Material liner	Spindle material	Quality class spindle	Minimum medium temperature (continuous) °C	Maximum medium temperature (continuous) °C	Article
DN40	PN16	PN10/16	33	NBR	Stainless steel	1.4006	-10	80	EC06820E040-CABC
DN50	PN16	PN10/16	43	NBR	Stainless steel	1.4006	-10	80	EC06820E050-CABC
DN65	PN16	PN10/16	46	NBR	Stainless steel	1.4006	-10	80	EC06820E065C-ABC
DN80	PN16	PN10/16	46	NBR	Stainless steel	1.4006	-10	80	EC06820E080-CABC
DN100	PN16	PN10/16	52	NBR	Stainless steel	1.4006	-10	80	EC06820E100C-ABC
DN125	PN16	PN10/16	56	NBR	Stainless steel	1.4006	-10	80	EC06820E125C-ABC
DN150	PN16	PN10/16	56	NBR	Stainless steel	1.4006	-10	80	EC06820E150C-ABC
DN200	PN10	PN10	60	NBR	Stainless steel	1.4057	-10	80	EC06820E200D-ABC
DN200	PN16	PN16	60	NBR	Stainless steel	1.4057	-10	80	EC06820E200C-ABC
DN250	PN10	PN10	68	NBR	Stainless steel	1.4057	-10	80	13548569
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

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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	
DN300	PN16	PN16	78	NBR	Stainless steel	1.4057	-10	80	13548572
DN350	PN16	PN16	78	NBR	Stainless steel	1.4057	-10	80	EC06820E350C-ABC
DN400	PN10	PN10	102	NBR	Stainless steel	1.4057	-10	80	13492663
DN400	PN16	PN16	102	NBR	Stainless steel	1.4057	-10	80	13492662
DN450	PN10	PN10	114	NBR	Stainless steel	1.4057	-10	80	EC06820E450D-ABC
DN500	PN10	PN10	127	NBR	Stainless steel	1.4057	-10	80	EC06820E500D-ABC
DN600	PN10	PN10	154	NBR	Stainless steel	1.4057	-10	80	EC06820E600-DABC

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