ECON® Butterfly valve Type: 6420 Ductile cast iron/ Aluminum bronze Bare stem Lug type

Characteristics

Type: 6420
Norm: EN (DIN)
Valve design: Centric
Housing material: Ductile cast iron
Material quality: EN-JS1030
Surface protection: Epoxy coating (external)
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.
- Especially suitable for sea water due to the aluminium bronze valve disc.
- Supply systems (HVAC).
- Recommended in: Chemical

Technical Information

- Fitted with replaceable lining.
- One-piece spindle in an anti-blowout design with a two-piece spindle from DN 350.
- With direct mount top-flange in accordance with ISO 5211.
- Three-point spindle bearing for excellent life cycle management.
- Grooved connection between spindle and valve disc.
- The body is provided with a two-layer epoxy coating with the upper layer in RAL 5015.
- Suitable as an end fitting up to the maximum pressure class for DN 50-DN 200 and for DN 250 and above with a maximum pressure difference of 6 bar.
- Dimensions in DN 50-DN 600 (2" to 24").
- Flanged connection pressure class for DN 50–DN 600 (2" to 24"): PN 10, PN 16.
- Maximum medium temperature depends on the lining: EPDM -10 to +140°C, NBR -10 to +100°C, FPM (FKM) -10 to +204°C.

Construction

- Socket outlet type.
- Design according to EN 593, API 609 and ASME B16.34.
- The pressure class of the standard design is PN 16 for DN 50 to DN 200 and PN 10 for DN 250 to DN 600.
- Construction length according to EN 558 series 20, ISO 5752 series 20 and API 609 category A.
- Suitable for mounting with flanges according to EN 1092-2.
- Bi-directional bubble-tight sealing according to EN 12266 rate A and API 598.

Options

- Available as a wafer type (series 63).
- Equipped with lever, worm gearbox and pneumatic, electric or hydraulic actuators.
- Position feedback for manually actuated or automated valves.
- Available with other lining materials: white EPDM EC1935, black EPDM EC1935, HNBR, silicone, CR (neoprene) and CSM (Hypalon).
- Available with valve disc in stainless steel, Hastelloy, Monel, Inconel, titanium or Uranus-B.
- Available with a steel or stainless steel body.
- DN 250 to DN 600 in pressure class PN 16.
- Socket outlet according to class 150.
- The shut-off valve is also available in a design that meets the requirements of EC1935. This standard applies to all materials that come into direct or indirect contact with food.

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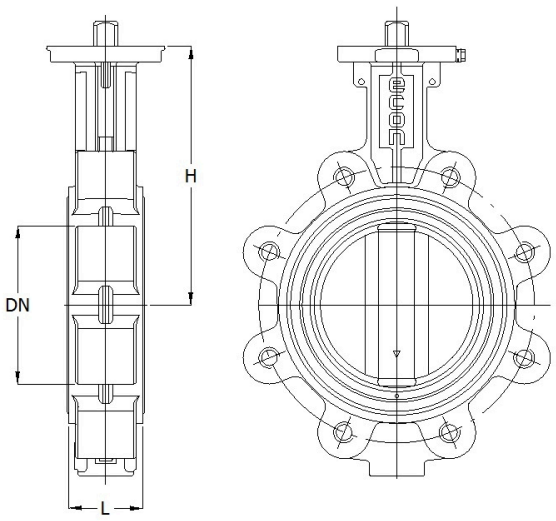

Size table:

DN	H	L	Weight
	mm	mm	kg
DN50	143	43	2.7
DN65	155	46	3.4
DN80	162	46	4.4
DN100	181	52	5.3
DN125	197	56	7.6
DN150	210	56	9.5
DN200	240	60	14.6
DN250	286	68	21.5
DN300	309	78	32
DN350	329	78	42.2
DN400	361	102	61.7
DN450	393	114	91.2
DN500	427	127	110.2
DN600	492	154	182.1

Temperature and pressure range					
Size	Liner	Pressure rating	Temperature range	Maximum operating pressure	
DN50 - DN300	EPDM or NBR	PN16	EPDM -10°/+140°C, NBR -10°/+100°C	16	[bar]
DN50 - DN300	FPM	PN16	FPM -10°/+204°C	10	[bar]
DN200 - DN600	EPDM, NBR of FPM	PN10	EPDM -10°/+140°C, NBR -10°/+100°C, FPM -10°/+204°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)	Maximum pressure difference as end valve	Article
			mm				°C	°C	bar	
DN50	PN16	PN10/16	43	EPDM	Stainless steel	1.4006	-10	140	16	13357334
DN50	PN16	PN10/16	43	NBR	Stainless steel	1.4006	-10	100	16	13357165
DN65	PN16	PN10/16	46	EPDM	Stainless steel	1.4006	-10	140	16	13357335
DN65	PN16	PN10/16	46	NBR	Stainless steel	1.4006	-10	100	16	13357166
DN80	PN16	PN10/16	46	EPDM	Stainless steel	1.4006	-10	140	16	13357336
DN80	PN16	PN10/16	46	NBR	Stainless steel	1.4006	-10	100	16	13357167
DN100	PN16	PN10	52	EPDM	Stainless steel	1.4006	-10	140	16	13357337
DN100	PN16	PN10	52	NBR	Stainless steel	1.4006	-10	100	16	13357168
DN125	PN16	PN10	56	EPDM	Stainless steel	1.4006	-10	140	16	13357338
DN125	PN16	PN10	56	NBR	Stainless steel	1.4006	-10	100	16	13357169
DN150	PN16	PN10/16	56	EPDM	Stainless steel	1.4006	-10	140	16	13357339
DN150	PN16	PN10/16	56	NBR	Stainless steel	1.4006	-10	100	16	13357170
DN200	PN10	PN10	60	EPDM	Stainless steel	1.4006	-10	140	10	13357340
DN200	PN10	PN10	60	NBR	Stainless steel	1.4006	-10	100	10	13357171
DN200	PN16	PN16	60	EPDM	Stainless steel	1.4006	-10	140	16	13578017
DN200	PN16	PN16	60	FPM (FKM)	Stainless steel	1.4006	-10	204	10	13578029

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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)	Maximum pressure difference as end valve	Article
			mm				°C	°C	bar	
DN200	PN16	PN16	60	NBR	Stainless steel	1.4006	-10	100	16	13578014
DN250	PN10	PN10	68	EPDM	Stainless steel	1.4006	-10	140	6	13357341
DN250	PN10	PN10	68	NBR	Stainless steel	1.4006	-10	100	6	13357172
DN250	PN16	PN16	68	EPDM	Stainless steel	1.4006	-10	140	6	13578018
DN250	PN16	PN16	68	FPM (FKM)	Stainless steel	1.4006	-10	204	6	13578030
DN250	PN16	PN16	68	NBR	Stainless steel	1.4006	-10	100	6	13578015
DN300	PN10	PN10	78	EPDM	Stainless steel	1.4006	-10	140	6	13357342
DN300	PN10	PN10	78	NBR	Stainless steel	1.4006	-10	100	6	13357333
DN300	PN16	PN16	78	EPDM	Stainless steel	1.4006	-10	140	6	13578019
DN300	PN16	PN16	78	FPM (FKM)	Stainless steel	1.4006	-10	204	6	13578031
DN300	PN16	PN16	78	NBR	Stainless steel	1.4006	-10	100	6	13578016
DN350	PN10	PN10	78	EPDM	Stainless steel	1.4006	-10	140	6	13607272
DN350	PN10	PN10	78	NBR	Stainless steel	1.4006	-10	100	6	13357384
DN400	PN10	PN10	102	EPDM	Stainless steel	1.4006	-10	140	6	13607274
DN400	PN10	PN10	102	NBR	Stainless steel	1.4006	-10	100	6	13357385
DN450	PN10	PN10	114	EPDM	Stainless steel	1.4006	-10	140	6	13607275
DN450	PN10	PN10	114	NBR	Stainless steel	1.4006	-10	100	6	13357386
DN500	PN10	PN10	127	EPDM	Stainless steel	1.4006	-10	140	6	13607276
DN500	PN10	PN10	127	NBR	Stainless steel	1.4006	-10	100	6	13357387
DN600	PN10	PN10	154	EPDM	Stainless steel	1.4006	-10	140	6	13607277
DN600	PN10	PN10	154	NBR	Stainless steel	1.4006	-10	100	6	13357388

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