



ECON® Butterfly valve Type: 6720 Ductile cast iron/ Aluminum bronze Centric Bare stem Wafer type

Characteristics

Type: 6720
Norm: EN (DIN)
Valve design: Centric
Housing material: Ductile cast iron
Material quality: EN-JS1030
Surface protection: Polyester powder coating min. 200µm
Connection: Wafer type
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
Minimum medium temperature (continuous): -10 °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 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 DN300 (1" to 12"): PN6, PN10, PN16 and class 150, DN350 to DN400 (14" to 16"): PN10, PN16 and class 150, DN450 to DN600 (18" 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

- Wafer connection type.
- 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.

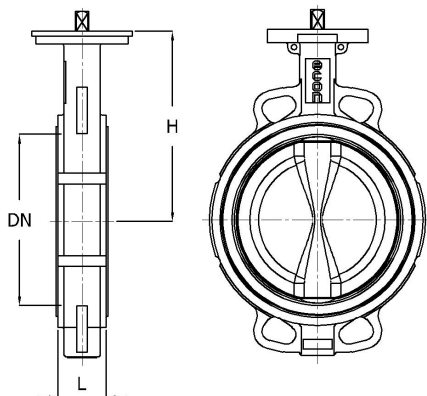
Options

- 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	L	Weight
	mm	mm	kg
DN32	115	32	1.7
DN40	115	33	2
DN50	143	43	2.7
DN65	156	46	3.6
DN80	162	46	3.9
DN100	177	52	5
DN125	190	56	7
DN150	205	56	8
DN200	236	60	13.2
DN250	267	68	19
DN300	308	78	31
DN350	368	78	42
DN400	400	102	63
DN450	422	114	72
DN500	480	127	100
DN600	562	154	190



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	Standard connection	Pressure rating	Pressure rating flange	Face to Face length	Material liner	Quality class disc	Spindle material	Quality class spindle	Maximum medium temperature (continuous)	Article
				mm					°C	
DN32 - 1.1/4"	EN [DIN]/ASME	PN16	PN6/10/16 and Class 150	32	EPDM	CC333G	Stainless steel	1.4006	110	13331236
DN32 - 1.1/4"	EN [DIN]/ASME	PN16	PN6/10/16 and Class 150	32	NBR	CC333G	Stainless steel	1.4006	80	13331224
DN40 - 1.1/2"	EN [DIN]/ASME	PN16	PN6/10/16 and Class 150	33	EPDM	CC333G	Stainless steel	1.4006	110	13331237
DN40 - 1.1/2"	EN [DIN]/ASME	PN16	PN6/10/16 and Class 150	33	NBR	CC333G	Stainless steel	1.4006	80	13331249
DN50 - 2"	EN [DIN]/ASME	PN16	PN6/10/16 and Class 150	43	EPDM	CC333G	Stainless steel	1.4006	110	13331238
DN50 - 2"	EN [DIN]/ASME	PN16	PN6/10/16 and Class 150	43	NBR	CC333G	Stainless steel	1.4006	80	13331225
DN65 - 2.1/2"	EN [DIN]/ASME	PN16	PN6/10/16 and Class 150	46	EPDM	CC333G	Stainless steel	1.4006	110	13331239
DN65 - 2.1/2"	EN [DIN]/ASME	PN16	PN6/10/16 and Class 150	46	NBR	CC333G	Stainless steel	1.4006	80	13331226

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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	Maximum medium temperature (continuous) °C	Article
DN80 - 3"	EN [DIN]/ASME	PN16	PN6/10/16 and Class 150	46	EPDM	CC333G	Stainless steel	1.4006	110	13331240
DN80 - 3"	EN [DIN]/ASME	PN16	PN6/10/16 and Class 150	46	NBR	CC333G	Stainless steel	1.4006	80	13331227
DN100 - 4"	EN [DIN]/ASME	PN16	PN6/10/16 and Class 150	52	EPDM	CC333G	Stainless steel	1.4006	110	13331241
DN100 - 4"	EN [DIN]/ASME	PN16	PN6/10/16 and Class 150	52	NBR	CC333G	Stainless steel	1.4006	80	13331228
DN125 - 5"	EN [DIN]/ASME	PN16	PN6/10/16 and Class 150	56	EPDM	CC333G	Stainless steel	1.4006	110	13331242
DN125 - 5"	EN [DIN]/ASME	PN16	PN6/10/16 and Class 150	56	NBR	CC333G	Stainless steel	1.4006	80	13331229
DN150 - 6"	EN [DIN]/ASME	PN16	PN6/10/16 and Class 150	56	EPDM	CC333G	Stainless steel	1.4006	110	13331243
DN150 - 6"	EN [DIN]/ASME	PN16	PN6/10/16 and Class 150	56	NBR	CC333G	Stainless steel	1.4006	80	13331230
DN200 - 8"	EN [DIN]/ASME	PN10	PN6/10/16 and Class 150	60	EPDM	CC333G	Stainless steel	1.4057	110	13331244
DN200 - 8"	EN [DIN]/ASME	PN10	PN6/10/16 and Class 150	60	NBR	CC333G	Stainless steel	1.4057	80	13331231
DN200 - 8"	EN [DIN]/ASME	PN16	PN6/10/16 and Class 150	60	NBR	CC333G	Stainless steel	1.4057	80	13486679
DN250 - 10"	EN [DIN]/ASME	PN10	PN6/10/16 and Class 150	68	EPDM	CC333G	Stainless steel	1.4057	110	13331245
DN250 - 10"	EN [DIN]/ASME	PN10	PN6/10/16 and Class 150	68	EPDM	CC333G	Stainless steel	1.4057	110	13548563
DN250 - 10"	EN [DIN]/ASME	PN10	PN6/10/16 and Class 150	68	NBR	CC333G	Stainless steel	1.4057	80	13486680
DN250 - 10"	EN [DIN]/ASME	PN10	PN6/10/16 and Class 150	68	NBR	CC333G	Stainless steel	1.4057	80	13331232
DN250 - 10"	EN [DIN]/ASME	PN16	PN6/10/16 and Class 150	68	EPDM	CC333G	Stainless steel	1.4057	110	13548588
DN250 - 10"	EN [DIN]/ASME	PN16	PN6/10/16 and Class 150	68	NBR	CC333G	Stainless steel	1.4057	80	13548586
DN300 - 12"	EN [DIN]/ASME	PN10	PN6/10/16 and Class 150	78	NBR	CC333G	Stainless steel	1.4057	80	13331233
DN300 - 12"	EN [DIN]/ASME	PN10	PN6/10/16 and Class 150	78	NBR	CC333G	Stainless steel	1.4057	80	13548552
DN300 - 12"	EN [DIN]/ASME	PN16	PN6/10/16 and Class 150	78	EPDM	CC333G	Stainless steel	1.4057	110	13653494
DN350 - 14"	EN [DIN]/ASME	PN10	PN10/16 and Class 150	78	EPDM	CC333G	Stainless steel	1.4057	110	13331247
DN350 - 14"	EN [DIN]/ASME	PN10	PN10/16 and Class 150	78	NBR	CC333G	Stainless steel	1.4057	80	13331234
DN400 - 16"	EN [DIN]/ASME	PN10	PN10/16 and Class 150	102	EPDM	CC333G	Stainless steel	1.4057	110	13331248
DN400 - 16"	EN [DIN]/ASME	PN10	PN10/16 and Class 150	102	NBR	CC333G	Stainless steel	1.4057	80	13331235
DN450 - 18"	EN [DIN]	PN10	PN10	114	EPDM	CC333G	Stainless steel	1.4057	110	13331253
DN450 - 18"	EN [DIN]	PN10	PN10	114	NBR	CC333G	Stainless steel	1.4057	80	13331250
DN500 - 20"	EN [DIN]	PN10	PN10	127	EPDM	CC333G	Stainless steel	1.4057	110	13331254
DN500 - 20"	EN [DIN]	PN10	PN10	127	NBR	CC333G	Stainless steel	1.4057	80	13331251
DN600 - 24"	EN [DIN]	PN10	PN10	154	EPDM	CC333G	Stainless steel	1.4057	110	13331255
DN600 - 24"	EN [DIN]	PN10	PN10	154	NBR	CC333G	Stainless steel	1.4057	80	13331252

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