ECON® Butterfly valve Type: 9133 Stainless steel/Stainless steel Double-ecFire safe Gearbox Wafer type

Characteristics

Type: 9133
Norm: ASME
Valve design: Double-eccentric
Housing material: Stainless steel
Material quality: ASTM A351 CF8M
Connection: Wafer type
Standard connection: EN (DIN)/ ASME
Face to Face norm: EN 558, Series 20
Operation: Gearbox
Top flange standard: ISO 5211 Direct Mount
Disk material: Stainless steel
Quality class disc: ASTM A351 CF8M
Actuator material: EN-JL1040
Fire safe: Yes

Application

- Heavy industrial, maritime, chemical and petrochemical applications where rubber-lined butterfly valves cannot be used due to their limited pressure and temperature range.
- Recommended in: Chemical, Food & Beverages

Technical Information

- Fire-safe high-performance stainless-steel butterfly valve.
- Patented seat construction for 100% bi-directional seal.
- Full-length shaft-disc construction and replaceable seat.
- One-piece spindle in an anti-blowout design.
- Antistatic version with ground connection.
- Dimensions in DN50 to DN400 (2" to 20").
- Drilled in dimensions DN50 to DN150 PN16 and available from DN200 with PN10, PN16 or Class-150 drilling.
- With "direct mount" top-flange in accordance with ISO-5211.
- Medium temperature with standard seat made of PTFE (TF 1641): -29/+210°C, with RPTFE seat: -29/+250° C.

Construction

- Wafer connection type.
- Double-eccentric.
- Design in accordance with API 609 and ASME B16.34.
- Construction length in accordance with EN 558, series 20.
- Suitable for mounting with flanges in accordance with EN 1092-1.
- Nominal pressure class is Class 150 (PN20).
- Charpy impact test at -29°C.
- Tested according to EN12266-1 rate A for EN- or according to API 598 for ASME valves.

Approval

- PED module H in accordance with 2014/68/EU.
- SIL 2 in accordance with IEC 61508-1 and SIL 3 with duplicate design in series or in parallel (redundancy).
- Fire-safe certified in accordance with API 607 and ISO 10497.

Options

- DN50 to DN150 can also be designed with PN10 or class-150 bore.
- Pressure class PN25, PN40, Class 150 or Class 300.
- Available as a socket or double-flange model.
- Available in steel.
- Equipped with lever and pneumatic, electric or hydraulic actuators.
- Position feedback for manually actuated or automated valves.
- Available with RPTFE/Inconel seat.
- Spindle seal in accordance with ISO 15848-1-CO3 Class BH for fugitive emissions.

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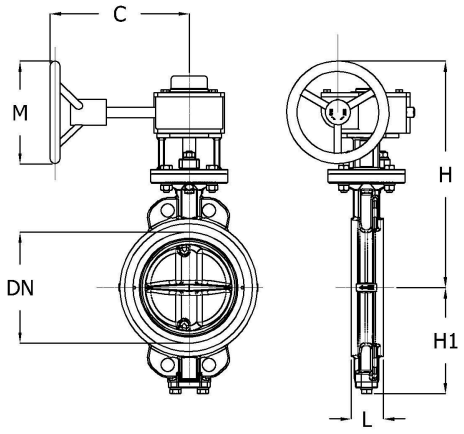

Size table:

DN	C	H	H1	L	M	Weight
	mm	mm	mm	mm	mm	kg
DN50	150	268	99	43	150	10
DN65	150	275	110	46	150	11
DN80	197	340	128	47	200	14
DN100	197	357	150	52	200	16
DN125	197	370	163	56	200	19
DN150	197	385	176	56	200	21
DN200	287	420	206	60	200	37
DN250	287	510	238	68	250	47
DN300	287	540	269	78	250	63

Maximum opererating pressure	Temperature range
20 bar	-29°C tot 210°C*
* Metal seat execution up to 500°C.	

Nominal inner diameter	Pressure rating	Pressure rating flange	Flange drilling	Face to Face length mm	Seat material	Spindle material	Quality class spindle	Article
DN50 - 2"	Class 150	PN16		43	PTFE + Inconel	Stainless steel	ASTM A564 630	13419301
DN65 - 2.1/2"	Class 150	PN16		46	PTFE + Inconel	Stainless steel	ASTM A564 630	13419303
DN80 - 3"	Class 150	PN16		47	PTFE + Inconel	Stainless steel	ASTM A564 630	13388977
DN100 - 4"	Class 150	PN16		52	PTFE + Inconel	Stainless steel	ASTM A564 630	13245317
DN125 - 5"	Class 150	PN16		56	PTFE + Inconel	Stainless steel	ASTM A564 630	13419304
DN150 - 6"	Class 150	PN16		56	PTFE + Inconel	Stainless steel	ASTM A564 630	13228103
DN200 - 8"	Class 150	PN10/16 and Class 150	Unbored	60	PTFE + Inconel	Stainless steel	ASTM A564 630	13228107
DN250 - 10"	Class 150	PN10/16 and Class 150	Unbored	68	PTFE + Inconel	Stainless steel	ASTM A564 630	13228109
DN300 - 12"	Class 150	PN10/16 and Class 150	Unbored	78	PTFE + Inconel	Stainless steel	ASTM A564 630	13419305

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