The Oventrop Quality Management System
is certified to DIN-EN-ISO 9001

Tender specification:

Oventrop wafer pattern butterfly valves (DN 50 up to DN 300) for installation between two flanges according to DIN EN 1092-2 (PN 10 or PN 16) and lugged pattern butterfly valves (DN 50 up to DN 400) for installation between two flanges according to DIN EN 1092-2 (PN 10 or PN 16 for DN 50 up to DN 200; DN 250 up to DN 400 only for PN 16).

1. PN 16, -10°C up to +110°C with EPDM liner.
For water or mixtures of water and ethylene or propylene glycol.

2. PN 16, -10°C up to +80°C, with NBR liner.
For water, mineral oils, air, harmless gases (not suitable for aggressive or flammable gases like gas installations according to TRGI).

Body made of nodular cast iron GJS-500-7 (GGG 50)
Stem made of stainless steel AISI 410
Flap made of stainless steel CF8M AISI 316
Loose liner made of EPDM or NBR (depending on the application)
O-ring seal of the stem for DN 50 up to DN 300

The butterfly valves must only be used with fitted blind flange as terminal valve.

Advantages:

- Compact construction
- Quarter turn operation of the lever for a quick isolation of the pipework
- Snap-in lever
- Installation in any position
- Low pressure loss due to centrally mounted flap and flow-supporting construction
- Extended stem for an easy insulation of the pipework

Function:

Oventrop butterfly valves are installed in the risers of hot water central heating or cooling systems.

Due to the special construction of the butterfly valves, the isolation function is given even where space is limited.

The internal loose liner guarantees a safe sealing of the fluid against the shaft conduit and the flanges.

Additional counter flange seals are not required. The fluid only comes into contact with the flap and the liner.

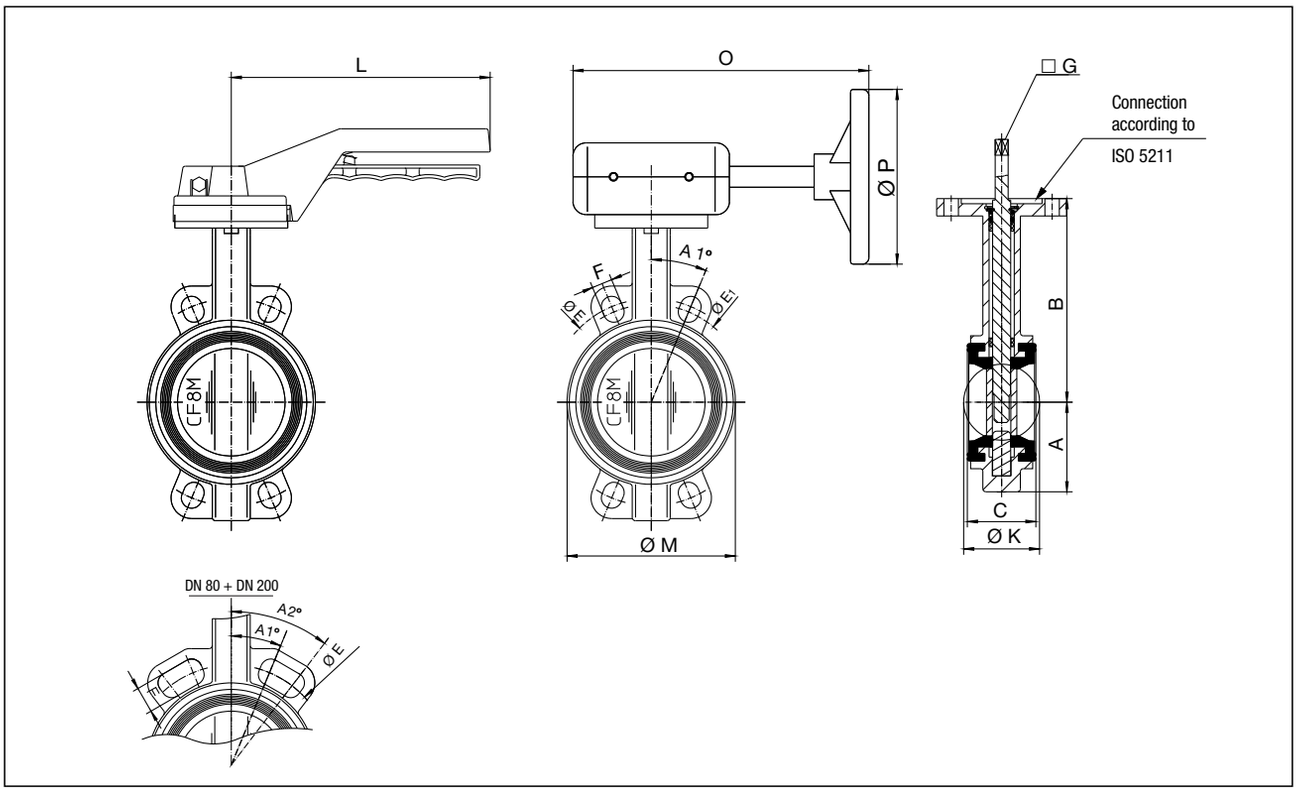
Size:	k_{VS} value:	Item no.:*
DN 50	108	104 .. 50
DN 65	198	104 .. 51
DN 80	330	104 .. 52
DN 100	545	104 .. 53
DN 125	890	104 .. 54
DN 150	1410	104 .. 55
DN 200	2356	104 .. 56
DN 250	3780	104 .. 57
DN 300	5590	104 .. 58
DN 350	8080	104 .. 59
DN 400	10533	104 .. 60

*(For .. alternatively: 62/63/69/70/82/83/89/90)

Wafer pattern butterfly valve DN 50 up to DN 300
(illustrated with lever)

Lugged pattern butterfly valve DN 50 up to DN 400
(illustrated with gear operator)

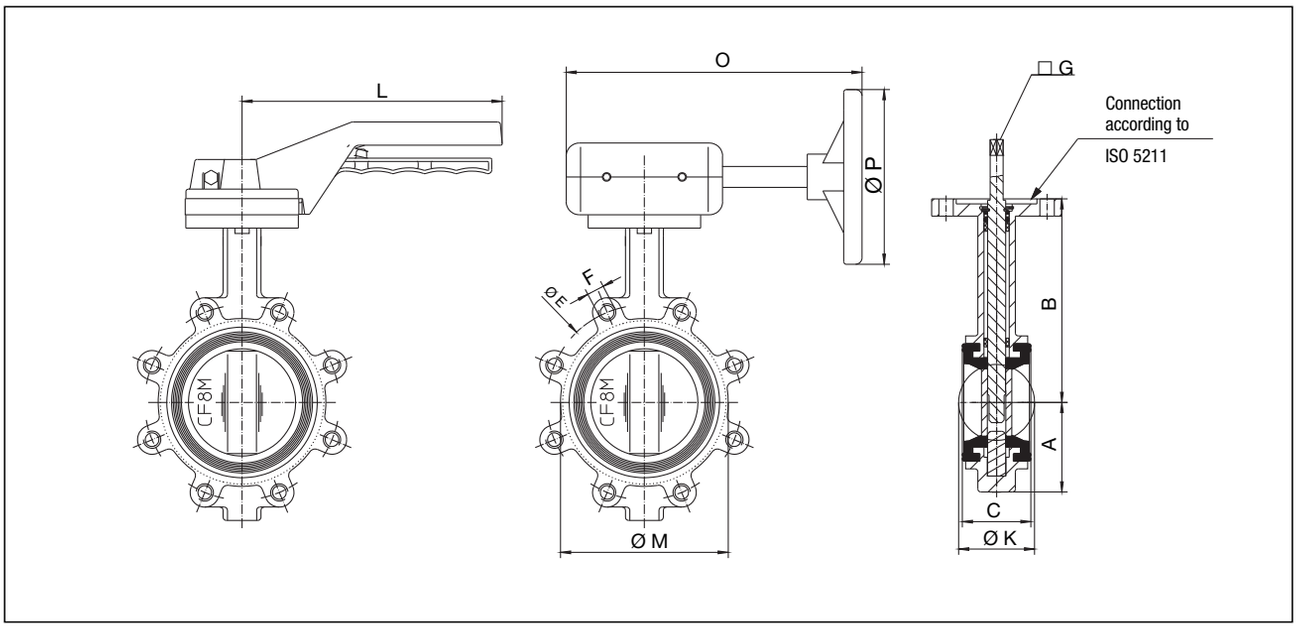
Wafer pattern:



Dimensions:

DN	A	B	C	Ø E	Ø E_1	A 1°	A 2°	F	□ G	Ø K	L	Ø M	O	Ø P
50	61	141	43	125	–	45	–	18	9	52.6	200	92	205	134
65	72	153	46	145	–	45	–	18	9	64.4	200	104	205	134
80	87	161	46	160	–	22.5	45	18	9	78.9	200	123	205	134
100	106	178	52	180	–	22.5	–	18	11	104.1	200	154	205	134
125	123	191	56	210	–	22.5	–	18	11	123.4	200	180	205	134
150	137	201	56	240	–	22.5	–	23	11	155.9	200	203	205	134
200	174	247	60	295	–	15	22.5	23	17	202.9	320	267	296	215
250	209	280	68	355	350	15	–	27	22	250.9	356	316	296	215
300	253	324	78	410	400	15	–	27	22	301.9	356	366	296	215

Lugged pattern:



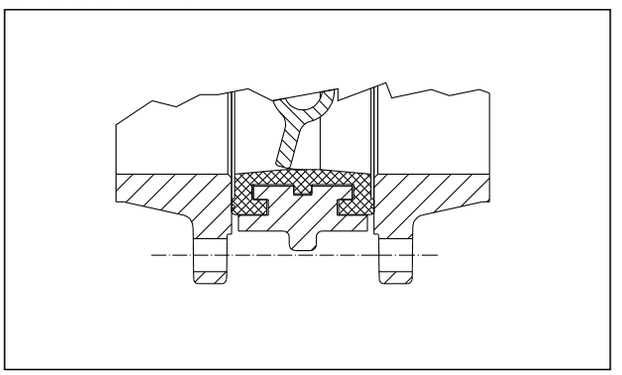
Dimensions:

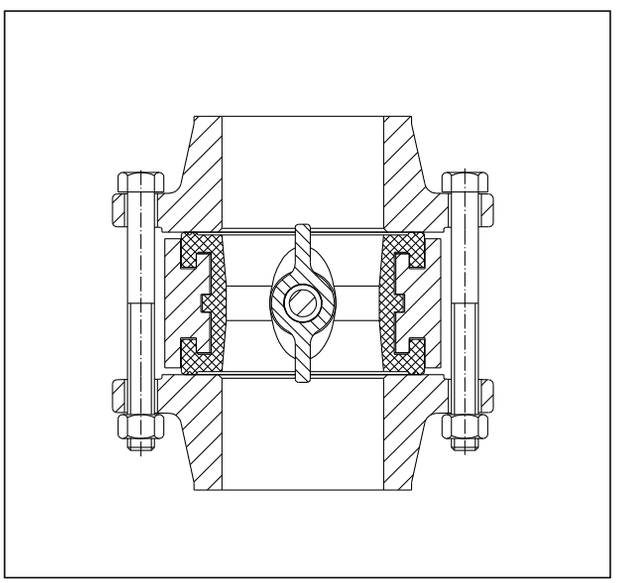
DN	A	B	C	Ø E	F	□ G	Ø K	L	Ø M	O	Ø P
50	62	141	43	125	M16	9	52.6	200	92	205	134
65	72	153	46	145	M16	9	64.4	200	104	205	134
80	87	161	46	160	M16	9	78.9	200	121	205	134
100	106	178	52	180	M16	11	104.1	200	152	205	134
125	123	191	56	210	M16	11	123.4	200	181	205	134
150	139	201	56	240	M20	11	155.9	200	200	205	134
200	174	247	60	295	M20	17	202.9	320	260	296	215
250	207	280	68	355	M24	22	250.9	–	315	296	215
300	250	324	78	410	M24	22	301.9	–	374	296	215
350	272	368	78	470	M25	22	334	–	–	307	300
400	300	400	86	525	M27	22	390.1	–	–	–	300

Table of butterfly valve models:

Valve body	Stem	Flap	Loose liner	Operator	Temperature	Wafer pattern item no.	Lugged pattern item no.
EN-GJS-500-7	SS 410	AISI 316 stainless steel	EPDM	Lever	-10 °C up to +110 °C	104 62 ..	104 82 ..
EN-GJS-500-7	SS 410	AISI 316 stainless steel	EPDM	Gear operator	-10 °C up to +110 °C	104 69 ..	104 89 ..
EN-GJS-500-7	SS 410	AISI 316 stainless steel	NBR	Lever	-10 °C up to +80°C	104 63 ..	104 83 ..
EN-GJS-500-7	SS 410	AISI 316 stainless steel	NBR	Gear operator	-10 °C up to +80°C	104 70 ..	104 90 ..

Installation advice:





Before installation please make sure that the surfaces of the flanges comply with DIN EN 1092-2 standard (PN 10 or PN 16) and that they are installed in parallel with a sufficient distance to each other.

An exact alignment of the Oventrop butterfly valves with the flanges is very important:

– Full utilization of the sealing surface between butterfly valve and flange
– Avoid damage of the inside flap during opening

Open butterfly valve slightly before installation.

When tightening the screws of the flange, the butterfly valve must be opened completely to make sure that the initial torque when opening the valve is not too high due to the deformation of the loose liner.

Additional flange seals are not required.

Tighten screws crosswise.

OVENTROP GmbH & Co. KG
Paul-Oventrop-Straße 1
D-59939 Olsberg
Germany
Telephone +49(0) 29 62 82 - 0
Telefax +49(0) 29 62 82 - 450
E-Mail mail@oventrop.de
Internet www.oventrop.de

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