Application
The throttling butterfly valves are valves to regulation medium flow rate, which can flow by both ways. The throttling butterfly valves aren't closing valves.

Working medium
- air
- water
- non-aggressive liquids
- gases

Maximum working temperature
A working temperature is from - 40 °C up to + 350 °C and depends on the body and gland packing material.

Maximum allowable differential overpressure is in accordance with maximum allowable pressure in the valve.

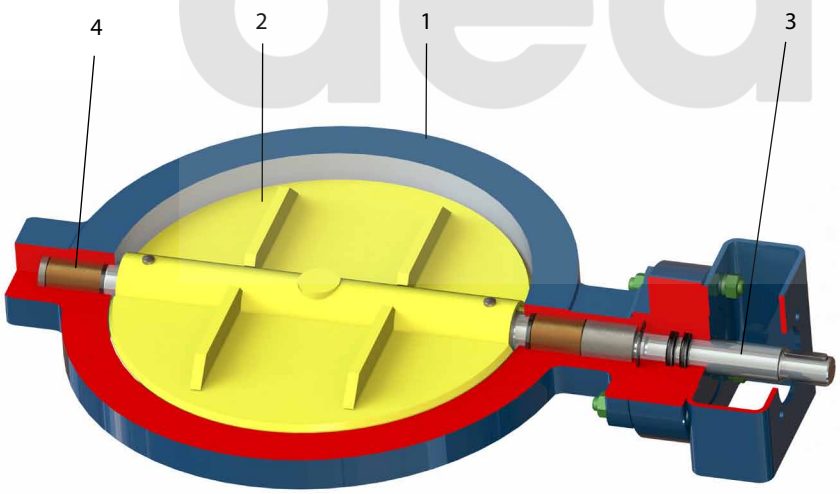
Technical description
The disc is pivoted by operating shaft in the body. The angle displacement of the disc is 0-90°. Disc position is shown by indicator line on the shaft, on the lever eventually on the electric actuator. There is always a gap between disc and body in closed position (butterfly valve is not closing valve). In case of butterfly valve design with sealing collar then the gap is limited to shaft area merely.

Operation
- lever
- manual gear-box
- electric actuator
- bare shaft

Testing
The valves are tested according to PED 97/23/EC and EN 12 266-1 as standard or ISO 5208.

Connection to piping
- **wafer type** acc. to EN 1092-1
  Other ways of connection are acc. to the customer´s requierement. The face to face and connecting dimensions are noted in table of dimensions, e.g. GOST, ANSI.

Installation
The throttling butterfly valves can be mounted into horizontal, vertical or inclined pipeline with the horizontal rotating axe of the disc. When there is a butterfly valve with electric actuator it is important to abide the actuator's manufacturer.



Material

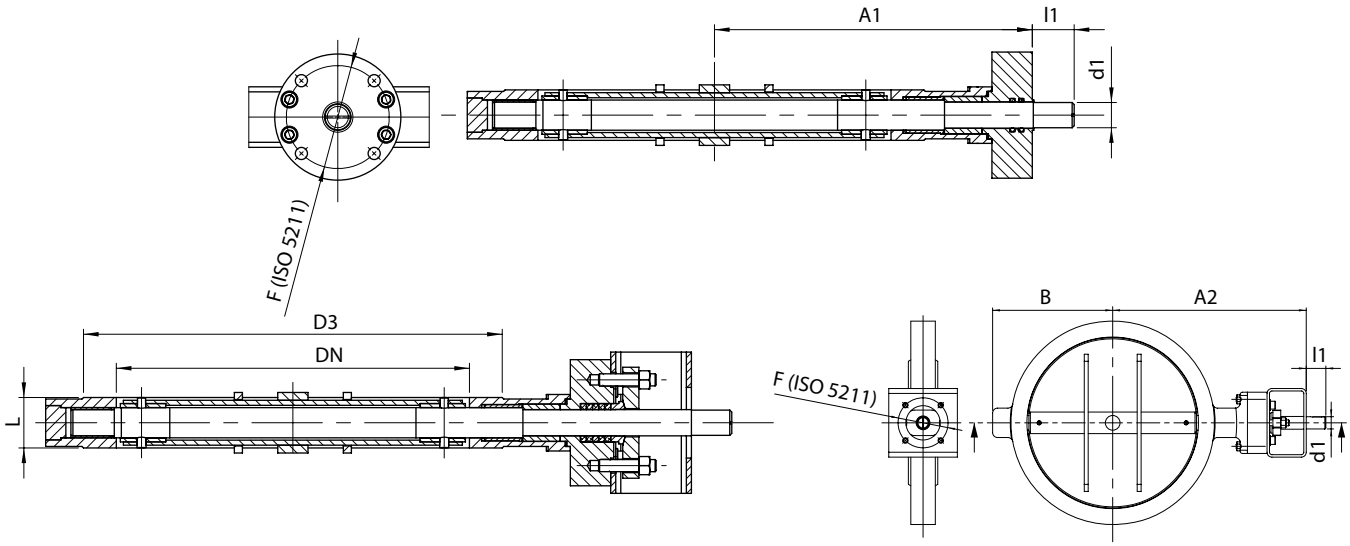
Position	Component	Material acc. to EN
1	Body	1.0425+N
2	Disc	1.0425+N
3	Shaft	1.4021-QT700
4	Pivot	1.4021-QT700

Maximum allowable pressure in the valve adheres to Pressure-Temperature chart of body material - 1.0425+N.

PN	Maximum allowable working pressure (bar)						
Temperature	- 10 to +50 °C	100 °C	150 °C	200 °C	250 °C	300 °C	350 °C
2,5	2,5	2,3	2,2	2,0	1,9	1,7	1,6
6	6,0	5,5	5,2	5,0	4,5	4,1	3,8
10	10,0	9,2	8,8	8,3	7,6	6,9	6,4

DN 50-1200 • PN 2,5-10 • Tmax +350°C

Connection: EN 1092-1 WAFER TYPE



PN 2,5

DN	A1	A2	B	L	D3	F	d1	l1	kg
50	112	192	70	46	90	F05	16	23	6
65	120	200	78	46	110	F05	16	23	6
80	128	208	85	46	128	F05	16	23	12
100	166	246	94	46	148	F05	16	23	13
125	178	258	108	46	178	F05	16	23	16
150	193	273	119	46	202	F05	16	23	18
200	230	310	170	46	258	F05	16	30	45
250	258	338	198	46	312	F07	20	30	52
300	310	390	231	50	365	F10	25	40	65
350	335	415	256	50	415	F10	25	40	89
400	367	487	308	70	465	F12	35	50	110
500	410	490	331	70	570	F12	35	50	195
600	445	525	390	90	670	F14	50	70	260
700	580	720	485	165*	775	F16	60	80	415
800	700	840	573	190*	880	F16	70	85	640
1000	760	960	700	216*	1080	F25	80	100	835
1200	910	1110	830	254*	1280	F30	90	100	1570

* face to face dimensions acc. to EN 558-1, Series 20

PN 10

DN	A1	A2	B	L	D3	F	d1	l1	kg
50	112	192	70	46	102	F05	16	23	6
65	120	200	78	46	122	F05	16	23	8
80	128	208	85	46	138	F05	16	23	16
100	166	246	94	46	158	F05	16	23	18
125	178	258	108	46	188	F05	16	23	22
150	193	273	119	46	212	F05	16	23	50
200	230	310	170	60	268	F10	25	35	60
250	258	338	198	60	320	F10	25	35	64
300	310	390	231	70	370	F12	35	50	68
350	335	415	256	70	430	F12	35	50	92
400	367	487	308	90	482	F16	50	70	115
500	410	490	331	90	585	F16	50	70	200
600	445	525	390	100	685	F16	65	85	290
700	580	780	485	165*	800	F25	80	100	415
800	700	800	573	190*	905	F25	90	120	640
1000	760	1010	700	216*	1110	F35	100	135	835
1200	910	1110	830	254*	1330	F35	120	140	1570

* face to face dimensions acc. to EN 558-1, Series 20