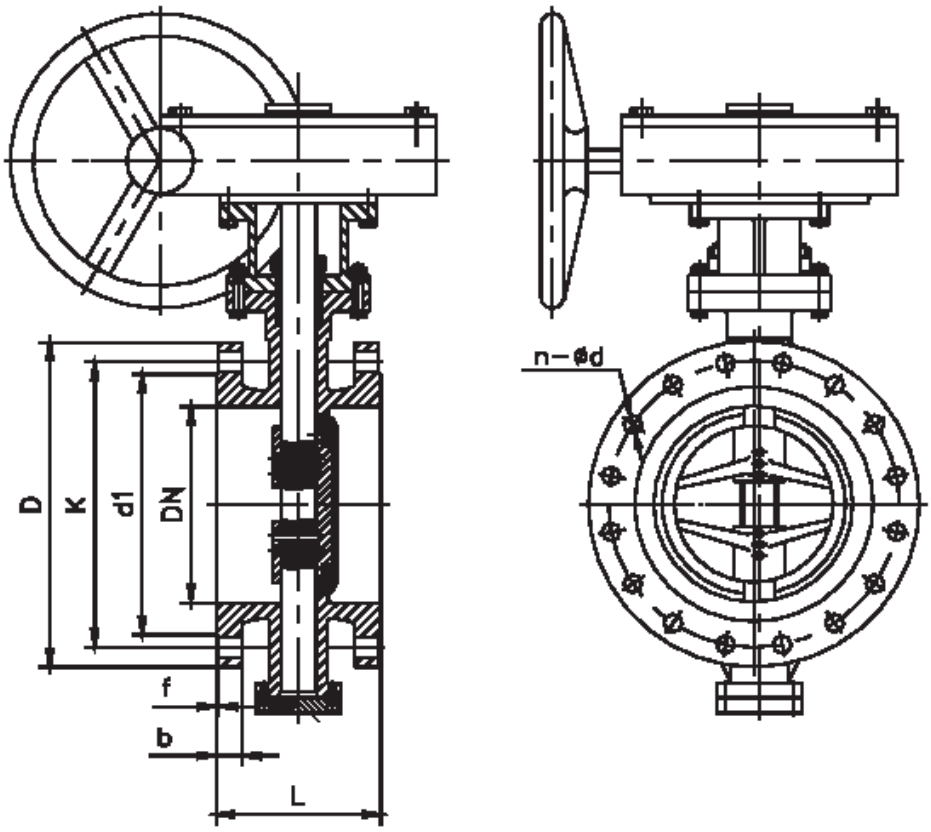
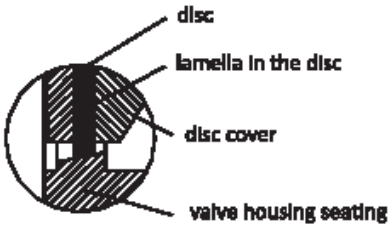
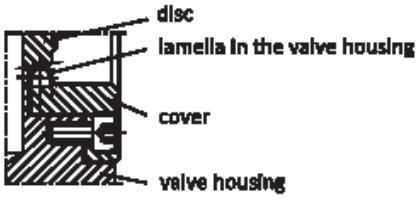
DOUBLE/TRIPLE ECCENTRIC BUTTERFLY VALVE
TYPE: Z2M-K/Z3M-K
Tmax: 425 ºC PN16 DN50-600



Remark
lamella sealing in disc-type Z3M



seal metal on metal
example of installation of sealing lamella
in the valve housing-type:Z2M



Main dimensions

DN	D	K	d1	b	n x do	f	L	Weight
	[mm]							[kg]
50	165	125	102	18	4-ø18	3	108	19
65	185	145	122	18	4-ø18	3	112	22
80	200	160	138	20	8-ø18	3	114	25
100	220	180	158	20	8-ø18	3	127	28
125	250	210	188	22	8-ø18	3	140	43
150	285	240	212	22	8-ø22	3	140	50
200	340	295	268	24	12-ø22	3	152	64
250	405	355	320	26	12-ø26	3	165	99
300	460	410	378	28	12-ø26	4	178	130
350	520	470	438	30	16-ø26	4	190	188
400	580	525	490	32	16-ø30	4	216	270
500	715	650	610	36	20-ø33	4	229	375
600	840	770	725	40	20-ø36	5	267	560

1. Application range

Nominal pressure:	PN 1,6 MPa
Body max test pressure:	PT: 2,4 MPa
Seat max test pressure:	PT: 1,76 MPa
Maximum allowable temperature:	TMA: 425°C
Tightness testing pressure (gas test according to PN-EN 12266-1);	PT: 0,6 MPa

DN	PN	Body test pressure PT	Maximum allowable working pressure PMA at related maximum allowable temperature TMA								
			20 ^{0}C	100 ^{0}C	150 ^{0}C	200^{0}C	250 ^{0}C	300^{0}C	350^{0}C	400^{0}C	425^{0}C
mm	MPa	MPa	MPa								
50-600	1,6	2,4	1,6	1,49	1,39	1,24	1,14	1,03	0,96	0,92	0,89

2. Basic materials

Body, disc:	cast carbon steel GP240GH (1.0619)
Lamella:	austenitic stainless steel alloyed X5CrNi18-10 (1.4301)
Stem:	stainless steel X20Cr13 (1.4021)
Gaskets:	graphite + 1.4301
Bolts/ nuts:	alloy hardened steel A193 B7/carbon hardened steel A194 2H
Optional material design:	body made of acid resistant cast steel GX5CrNiMo19-11-2 (1.4408)

3. Design

Connection:	flanged DN50 – DN600 lug, wafer DN50-DN600 butt weld ends S 2" – S 24" at the client's request flanges acc. to AINSI at the client's request
Drive type:	standard version with a worm gear optional version - with a hand level (from DN50-DN100) - with an electric drive AUMA or another one indicated by ther client
Tightness class:	in standard 100% in the same direction, opposite direction 50% PN

Any requests about 100% tightness in both directions should be always discussed with our technical and sales department.

4. Characteristics

Butterfly valves are designed for general use pipelines in industrial systems, for the second group of fluids. They are designed to cut off as well as control the flow of drinking and industrial water, steam, air. They are also used in the power industry, heat engineering, chemical industry (for non aggressive and non toxic liquid and gas substances), petrochemical and refinery industries, coke and chemical industry (coke-oven gas). They can be installed on pipelines in any position.

5. Requirements and testing

Flanges connecting sizes acc. to PN-EN 1092-1.
Face to face acc. to PN-EN 558-1.
Pressure testing acc. to PN-EN 12266-1.
Certificate of conformity in acc. with PN-EN 10204.
Design to PN-EN 12516-2.
Valves have been submitted for appraisal of conformity according to the directive Pressure Equipment Directive 97/23/EC.

6. Directions for ordering

When giving your order you should supply the following information:

- medium,
- the maximum operating pressure,
- the maximum operating temperature,
- type and size of connections.

7. Additional information

- 24 months warranty compulsory acc. to the conditions which are in the manufacturer's warranty card.
- The manufacturer is able to undertake inspections and repairs of the fittings as well as replacement of the internal elements if required.
- All the requirements concerning the quality and technical specifications of the fittings should be taken into consideration in your order. With the fittings we provide specification sheets (technical and quality) as follows: standard – conformity declaration, Installation, Operation and Maintenance Manual, at the client's request – certificate 2.2 or 3.1.