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Wafer Pattern Butterfly Valves

A universally applicable wafer type valve acc. to EN 593.
The large variety of basic materials allows applications in different industries.

Aluminium version. Available sizes: DN 50 - DN 400

Features:

- Absolutely tight sealing with flow in either direction
- The valve body and disc are accurately machined which results in low operating torque and long service life and reliability
- Triple shaft bearings prevents shaft deflection and guarantees optimum guidance even after many years of operational service
- Four flange mounting holes ensure correct valve location when installing
- Single flange mounting is possible (please request details)
- Can be installed in any desired position
- Maintenance-free
- Can be disassembled, material-specific recycling possible

General applications:

- Chemical and petrochemical industries
- Water and wastewater technology
- Pneumatic materials handling technology
- Shipbuilding
- Power generation industry
- Food industry
- Civil engineering
- For paint and lacquers, a silicon-free version is available

Technical Data			
Nominated diameter:	DN 20 -DN 1200 (DN 20 only PN 10/16)	Marking:	DIN EN 19
Face-to-face:	EN 558 Series 20 (DIN 3202 T3 K1) ISO 5752 Series 20 API 609 Table 1	Tightness check:	DIN 3230 T3 BO, BN (Leakage Rate 1) ISO 5208, Category 3 API 598 Table 5



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	BS 5155 Series 4		ANSI B 16-104, Class VI
Flange accommodation::	DIN 2501 PN 6/10/16 ANSI B 16.5, Class 150 MSS SP44 Class 150 AWWAC 207 AS 2129 Table D and E BS 10 Table D and E JIS B 2211-5 K JIS B 2212-10 K	Temperature range:	-20°C to +160°C depending on pressure, medium and material
Lap-joint flange:	DIN 2641 and DIN 2642	Operating pressure:	max. p 16 bar
Weld-on flange:	DIN 2576	Differential pressure:	max. delta p 16 bar
Flange surface design:	DIN 2526 Form A-E, ANSI RF	Vacuum:	0,2 bar absolute, depending on medium and temperature
Top flange:	EN ISO 5211 NF E 29-402		

Technical drawing of a valve showing front and side views. The front view (left) shows a circular body with a central opening of diameter ØD. The side view (right) shows the valve's profile. Dimensions are labeled: DN (nominal diameter), C (flange thickness), L (total length), H (height to top of handle), M (height to center of body), E (height to bottom of body), and ØD (internal diameter). A note at the bottom right indicates 'ISO DN1500'.

DN	C	L	H	M	E	ØD	kg
50	50	43	143	65	19	96	3,0
65	65	46	155	71	19	110	3,8
80	80	46	162	77	19	124	4,0
100	91	52	181	107	19	148	5,3
125	115	56	197	122	19	180	7,3
150	140	56	210	140	19	208	8,2
200	186	60	240	165	24	259	13,5
250	239	68	286	201	24	320	21,2
300	288	78	309	234	24	370	32,5

DN	Size	Operating Pressure			
(mm)	(in)	3 (bar)	6 (bar)	10 (bar)	16 (bar)
20	3/4	-	-	5	-
25	1	-	-	5	-
32	1 1/4	-	-	5	-
40	1 1/2	-	-	6	8
50	2	5	7	7	9
65	2 1/2	7	9	15	18
80	3	8	10	18	24
100	4	9	18	28	37
125	5	15	22	45	59
150	6	36	45	110	125
200	8	59	76	140	200
250	10	150	180	200	240
300	12	200	240	280	360
350	14	350	540	610	700
400	16	420	620	750	850
450	18	720	746	860	1500
500	20	900	1100	2255	3690
600	24	1050	2100	3000	5830
700	28	1560	2240	3450	6100
800	32	2070	3800	6600	11200
900	36	2700	4900	7100	14500
1000	40	4600	6780	11500	24400
1200	48	7800	12000	21000	44000

TORQUE

The torque values specified (MD) are based on liquid and lubricant media.

Powdery (non-lubricant) media Md x 1,3

Dry gases/high viscous media Md x 1,2

The values specified are based on the initial breakaway torque.

Dynamic torque specification available upon request.

Regarding the dimensioning of actuators, please contact us.

DN	Size	Opening angle							
(mm)	(in)	20°	30°	40°	50°	60°	70°	80°	90°
20	3/4	-	1	4	8	11	19	27	32
25	1	-	1,5	5	10	15	24	32	36
32	1 1/4	-	1,5	5	11	16	27	35	40
40	1 1/2	-	2,2	8	15	21	33	43	50
50	2	1,2	8	13	22	38	50	65	85
65	2 1/2	2	9	22	42	77	115	170	215
80	3	8	24	50	95	150	240	330	420
100	4	13	28	65	130	180	340	550	800
125	5	26	65	130	230	350	530	870	1010
150	6	35	90	200	360	640	900	1350	2100
200	8	43	180	350	580	1000	1600	3000	4000
250	10	125	360	660	1100	1800	3100	5300	6400
300	12	200	550	1000	1600	2600	5000	7500	8500
350	14	350	780	1400	2400	4000	8000	10800	11500
400	16	490	1050	1800	3100	5500	11000	12000	14500
450	18	510	1080	2040	3350	6100	11500	14600	20500
500	20	520	1100	2200	3500	6200	12000	15100	21000
600	24	750	1400	2800	5100	8800	14000	22000	29300
700	28	770	1755	3260	5980	10600	17100	25300	36000
800	32	1200	2260	4550	8230	12900	20300	29300	44600
900	36	1540	2280	6030	10500	17600	29200	42150	59000
1000	40	2200	3970	8300	14480	24000	37100	60300	81500
1200	48	5050	7900	13800	19700	33500	53300	73050	102650

K_v-Values

The K_v-value (m³ per hour) is the flow of water at a temperature of 5° C to 30° C (41° F to 86° F) of delta p of 1 bar

The K_v-values specified are based on tests carried out by the Delfter Hydraulics Laboratories, the Netherlands.

Permissible velocity of flow V_{max} 4,5 m/s for liquids and V_{max} 70 m/s for gases.

The throttle function is linear of an angle 30° to 70°.

Avoid cavitation!

For further values, please contact us.

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