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Silo-Anlagenbau - "Your specialist in silo components"

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Flat Gate Types & Closing Components

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■ **2-Way-Distributor-Closing**



Flange Mounted Valves

Butterfly valve with threaded holes.

This type enables the one sided lugging of pipes.

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.
- Can be disassembled, material-specific recycling possible.
- Maintenance-free
- Fully repairable valve
- Single flange mounting is possible (please request details)

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			
Nominal diameter:	DN 20 -DN 600 (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 BS 5155 Series 4 NF E 29-305.1	Tightness check:	DIN 3230 T3 BO, BN (leakage rate 1) ISO 5208, Category 3 API 598 Table 5 ANSI B 16-104, Class VI
Flange accomodation:	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		

DN	C	L	H	M	E	ØD	PN 16			kg
							N	n	ØB	
50	50	43	143	65	19	96	M16	4	125	3,4
65	65	46	155	71	19	110	M16	4	145	4,0
80	80	46	162	77	19	124	M16	8	160	4,5
100	91	52	181	89	19	148	M16	8	180	7,6
125	115	56	197	112	19	180	M16	8	210	9,5
150	140	56	210	123	19	208	M20	12	240	10,4
200	186	60	240	150	24	259	M20	12	295	17,5
250	239	68	286	179	24	320	M24	12	355	26,5
300	288	78	309	216	24	370	M24	12	355	43,5

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

TORQUE

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

Powdery (nun-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	K_v-Values The K _v -value (m ³ 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 Vmax 4,5 m/s for liquids and Vmax 70 m/s for gases. The throttle function is linear of an angle 30° to 70°. Avoid cavitation! For further values, please contact us.
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	

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