

DESCRIPTION

Series TIG Wafer Design Butterfly Valve
Fully Stainless Steel Body & Disc



A universally applicable wafer type valve acc. to EN 558.
The large variety of basic materials (body & seat) allows
to wider the applications in different industries.

TECHNICAL DATA

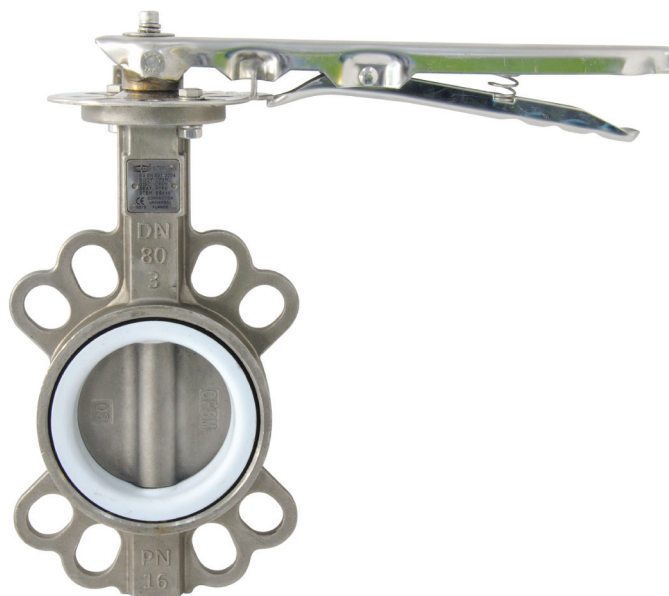
Nominal diameter:	DN 50 – DN 300
Face-to-face:	EN 558 ISO 5752 API 609 Table 1 BS 5155 Series 4
Flange accommodation:	DIN 2501 PN 6/10/16 ANSI B 16.5, Class 150 MSS SP44 Class 150 AS 2129 Table D and E BS 10 Table D and E JIS B 2211-5 K JIS B 2212-10 K
Top Flange:	EN ISO 5211 NF E 29-402
Seat Material:	PTFE (As Standard) + White EPDM PTFE (As Standard) + Black EPDM
Temperature Range:	–20°C to + 120°C (depending on pressure, medium and material)
Operating Pressure:	max. 7 bar (DN 50 - DN 300) for White EPDM max. 10 bar (DN 50 - DN 300) for Black EPDM
Differential Pressure:	max. Δp 10 bar
Body Material:	SS 316 (CF8M)

FEATURES

- Tight sealing with flow in either direction.
- The valve body and disc are accurately machined to ensure the low operating torque, long service life and reliability.
- Triple shaft copper bushers to prevent shaft deflection and guarantee optimum guidance even after many years of operational service.
- Four flange mounting holes ensure correct valve location when installing.
- Can be installed in any desired position.
- Maintenance-free.
- Can be disassembled, material-specific recycling possible.

APPLICATIONS

- Chemical and petrochemical industries
- Water and wastewater technology
- Pneumatic materials handling technology
- Shipbuilding
- Power generation industry
- Food industry
- Civil engineering



Hand Lever : Available Sizes : DN 50 - DN 300
Gear Box : Available Sizes : DN 50 - DN 300
(Aluminium Version)

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TORQUE

Please regard these as approximate values

- ▶ 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.

All Values in Nm

DN [mm]	Size [in]	Operating Pressure		
		3 [bar]	6 [bar]	10 [bar]
50	2	10	14	14
65	2 1/2	14	18	30
80	3	16	20	36
100	4	18	36	56
125	5	30	44	90
150	6	72	90	220
200	8	118	152	280
250	10	300	360	400
300	12	400	480	560

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) at Δp of 1 bar.
- ▶ Permissible velocity of flow
Vmax 4,5 m/s for liquids and
Vmax 70 m/s for gases.
- ▶ The throttle function is linear at an angle 30° to 70°.
- ▶ Avoid cavitation!

Unit: m³/h

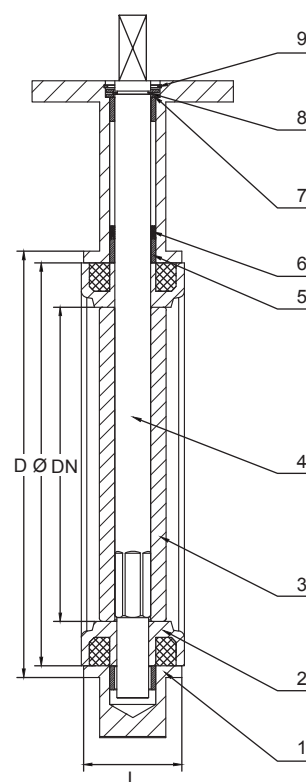
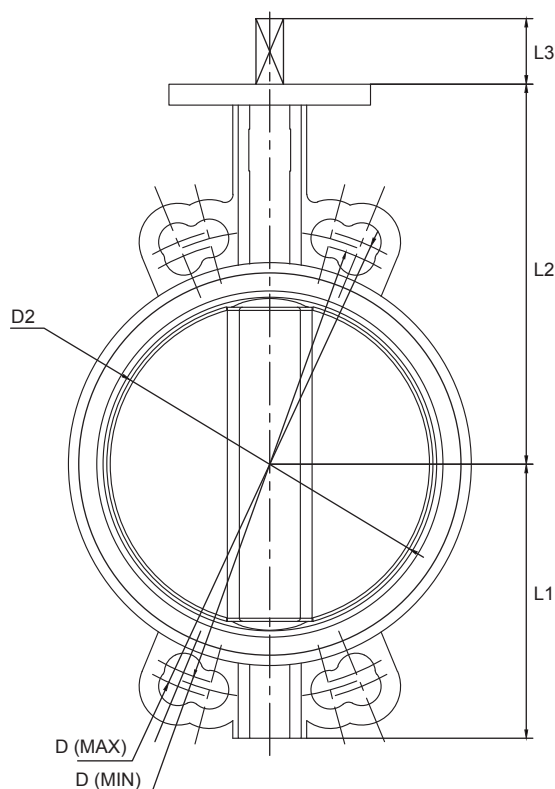
DN [mm]	Size [in]	Opening angel α°							
		20°	30°	40°	50°	60°	70°	80°	90°
50	2	1,2	8	13	22	38	50	65	85
65	2 1/2	2	9	22	42	77	115	170	215
80	3	8	24	50	95	150	240	330	420
100	4	13	28	65	130	180	340	550	800
125	5	26	65	130	230	350	530	870	1010
150	6	35	90	200	360	640	900	1350	2100
200	8	43	180	350	580	1000	1600	3000	4000
250	10	125	360	660	1100	1800	3100	5300	6400
300	12	200	550	1000	1600	2600	5000	7500	8500

Subject to change without notice.

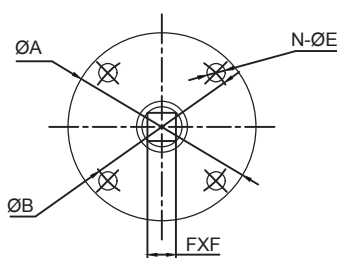
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L3 For Handle or Gearbox



9	Circlip	65Mn
8	Circlip	65Mn
7	Gasket	45#
6	Y-ring	EPDM
5	Bushing	PTFE
4	Stem	SS416
3	Disc	CF8M
2	Seat	PTFE
1	Body	CF8M
No.	Name	Material



ADOPTIVE STANDARD

1. Upper Flange Standard: ISO 5211
2. Flange Standard: DIN PN10 & PN16 & 150LB & JIS 10K
3. Face to Face: EN558 - 1.20
4. Pressure Test Cofirm API 598
5. Seal Test Pressure: 11 Bar

DN	L	L1	L2	L3	D	D (MAX)	D (MIN)	D2	ØA	ØB	FxF	N - ØE
DN50	43	66	131.5	31	92.5	125	105	52.2	70	50	9	4 - Ø6.7
DN65	46	86	140	31	117	145	130	63.9	70	50	9	4 - Ø6.7
DN80	46	94	154	31	131	160	145	78.5	70	50	11	4 - Ø6.7
DN100	52	110	173	31	151	180	165	104	90	70	11	4 - Ø10
DN125	56	128	189	31	183.5	210	200	123.3	90	70	14	4 - Ø10
DN150	56	140.5	199	31	216	240	230	155.4	90	70	14	4 - Ø10
DN200	60	170	236	31	264.5	295	280	202.3	125	102	17	4 - Ø12
DN250	68	205	277	31	322.5	355	345	250.3	125	102	22	4 - Ø12
DN300	78	238.5	317	35	365.8	410	390	301.3	150	125	22	4 - Ø14