

BUTTERFLY VALVE

Gear Operated Wafer Butterfly Valve with Aluminum Bronze Disc and EPDM

REF **EFC-281** ISSUED 05 Jun 2026

SPECIFICATIONS

Size	DN50–DN1200
Pressure	PN10–PN16
End connection	wafer (DIN 2501) / wafer (ANSI) / wafer (BS 4504) / wafer (JIS)
Face-to-face	API 609, DIN 3202, ISO 5752, BS 5155
Temperature	-30°C to 135°C
Media	water, seawater, chemicals, air, steam, oil, acids, salts



ACTUATION

- worm gear (gearbox) — ISO 5211 top flange

STANDARDS

Design	API 609, ANSI 16.34, JIS B2064, GB/T 12238
Test	API 598



APPROVALS & CERTIFICATIONS

- LR (Lloyd's Register)
- ECM (Ente Certificazione Macchine)
- ISO
- EAC
- CE
- Bureau Veritas
- ACS (Attestation de Conformite Sanitaire)
- WRAS Approved Product

APPLICATIONS

- Water supply networks
- HVAC systems
- Industrial circulation lines

- Wastewater treatment facilities
- Municipal water systems

MATERIALS

body	Cast Iron, Ductile Iron, Carbon Steel, Stainless Steel	disc	Aluminium Bronze, Stainless Steel, Ductile Iron Nickel-plated
seat	Elastomer, Fluoropolymer, Fluoroelastomer	shaft	Stainless Steel, Carbon Steel
bushing	Fluoropolymer, Bronze	o ring	Elastomer
pin	Stainless Steel	stem	Stainless Steel, Carbon Steel

FEATURES

- Wafer-type body for installation between flanges
- Aluminium bronze disc for corrosion resistance in water and mildly corrosive media
- EPDM seat for elastic sealing and shut-off
- Worm gear operating mechanism for precise flow control
- Reduced operating torque due to smooth disc rotation
- ISO 5211 top flange for actuator mounting
- Available in a wide range of sizes DN50–DN1200
- Multiple body, seat, and shaft material options available
- Wafer-style butterfly valve with gearbox operator
- Disc visible, stainless steel construction
- Body marked DN100 (image 0)
- Disc marked C954 (aluminium bronze alloy, images 4 and 5)
- Rubber-lined body/seat
- Sectional diagram shows 7 numbered component parts
- Dimensional drawing references: C (face-to-face), d0 (stem diameter), K (stem top flange), E (bolt circle), z-d (bolt holes), g (stem top flange diameter), h (stem top flange height), p (bolt hole pitch), b (body width), D1 (flange OD), n-Od1 (number and diameter of bolt holes)
- Flange drilling compatible with PN10, PN16, ANSI 150, JIS 10K

OPTIONS & NOTES

- Can also be customized to meet specific project requirements.

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SECTION Technical drawing REF EFC-281

SIZE		C	d0	K	E	z-d	g	h	p	bXl	PN16		PN10		ANSI 150		JIS 10K	
in	DN										D1	n-Ød1	D1	n-Ød1	D1	n-Ød1	D1	n-Ød1
2	50	42	12.6	77	50	4-7	35	3	9	3X16	125	4-18	125	4-18	120.5	4-19	120	4-19
2.5	65	44.7	12.6	77	50	4-7	35	3	9	3X16	145	4-18	145	4-18	139.5	4-19	140	4-19
3	80	45.2	12.6	77	50	4-7	35	3	9	3X16	160	8-18	160	8-18	152.5	4-19	150	4-19
4	100	52.1	15.77	90	70	4-9	55	3	11	5X19	180	8-18	180	8-18	190.5	8-19	175	8-19
5	125	54.4	18.92	90	70	4-9	55	3	14	5X19	210	8-18	210	8-18	216	8-22	210	8-23
6	150	55.8	18.92	90	70	4-9	55	3	14	5X19	240	8-23	240	8-23	241.5	8-22	240	8-23
8	200	60.6	22.1	125	102	4-12	70	3.5	17	5X19	295	12-23	295	8-23	298.5	8-22	290	12-23
10	250	65.6	28.45	125	102	4-12	70	3.5	22	8X28	355	12-27	350	12-23	362	12-25	355	12-25
12	300	76.9	31.6	125	102	4-12	70	3.5	22	8X28	410	12-27	400	12-23	432	12-25	400	16-25
14	350	76.9	31.6	125	102	4-12	70	3.5	22	8X28	470	16-27	460	16-23	476	12-29	445	16-25
16	400	86.5	33.15	175	140	4-18	100	4	24	10X50	525	16-30	515	16-27	540	16-29	510	16-27
18	450	105.6	38	175	140	4-18	100	4	27	10X50	585	20-30	565	20-27	578	16-32	565	20-27
20	500	127	41.15	175	140	4-18	100	4	32	10X50	650	20-33	620	20-27	635	20-32	620	20-27
24	600	152	50.65	210	165	4-23	130	5	36	2-16X60	770	24-36	725	20-30	749.5	20-35	730	24-33
28	700	163	55	300	254	8-18	200	5.5		2-18X63	840	24-36	840	24-30	863.5	28-35	840	24-33
30	750	165	55	300	254	8-18	200	5.5		2-18X63	914	24-39	914	24-33	914.5	28-11/4"	900	24-33
32	800	188	55	300	254	8-18	200	5.5		2-18X63	950	24-39	950	24-33	978	28-41	950	28-33
36	900	203	75	300	254	8-18	200	5.5		2-20X100	1050	28-39	1050	28-33	1086	32-41	1050	28-33
40	1000	216	85	300	254	8-18	200	5.5		2-20X100	1170	28-42	1160	28-36	1200	36-41	1160	28-39
42	1050	251	95	300	254	8-18	200	5.5		2-25X140	1257	32-44	1257	32-37	1257.5	36-41	1270	28-39
48	1200	276	105	350	298	8-23	230	5.5		2-28X140	1390	32-50	1380	32-41	1422.5	40-41	1380	32-39