

BUTTERFLY VALVE

# Cast Iron Body NBR Seat Wafer Butterfly Valve Without Pin

REF **EFC-249** ISSUED 05 Jun 2026

## SPECIFICATIONS

Size	<b>DN50–DN1000</b>
Pressure	<b>PN10–PN16</b>
End connection	<b>wafer (DIN) / wafer (ANSI B 16.1) / wafer (BS 4504) / wafer (ISO) / wafer (JIS B 2212/2213) / wafer (BS 10 table D) / wafer (BS 10 table E)</b>
Face-to-face	<b>API 609, ISO 5752 series 20, BS 5155</b>
Temperature	<b>null°C to 150°C</b>
Media	<b>Fresh water, Sewage, Sea water, Air, Vapour, Food, Medicine, Oils, Acids, Al-kalis</b>

## ACTUATION

- manual lever
- worm gear
- pneumatic
- electric

## STANDARDS

Design	<b>MSS SP-67, API 609, EN 593</b>
Test	<b>API 598</b>



SIZE in DN	C	d0	K	E	z-d	g	h	p	bXl	PN16		PN10		ANSI 150		JIS 10K		
										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	16-29	445	16-25
16	400	86.5	33.15	175	140	4-18	100	4	24	10X50	525	18-30	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	2-18X60	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

## APPROVALS & CERTIFICATIONS

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

## APPLICATIONS

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- Water infrastructure
- Building services
- Industrial processes
- HVAC systems
- Water distribution

**MATERIALS**

body	<b>Cast Iron, Ductile Iron, Carbon Steel, Stainless Steel, Bronze</b>	disc	<b>Bronze, Stainless Steel, Ductile Iron, Carbon Steel</b>
seat	<b>Elastomer, PTFE</b>	stem	<b>Stainless Steel, Carbon Steel</b>
bushing	<b>PTFE, Other</b>	o ring	<b>Elastomer, PTFE</b>
pin	<b>Stainless Steel</b>		

**FEATURES**

- Compact and lightweight construction
- 90-degree on/off operation
- Minimised operating torque
- Flow curve approximating straight line for regulation performance
- Wide selection of body, seat, disc, and stem materials
- Wafer-type design without pin
- Wafer-style butterfly valve with lever operator
- Rubber-lined body (elastomer seat)
- Stainless steel disc
- Sectional diagram shows 7 numbered components including body (1), disc (2), seat/liner (3), shaft bearings (4), stem (5), top flange/actuator mount (6), and stem seal/packing (7)
- Flange drilling compatible with PN10, PN16, ANSI 150, and JIS 10K standards
- Size range DN50 (2") to DN1200 (48")

**OPTIONS & NOTES**

- Size range listed as DN50-DN1200 in product title/overview but performance table states DN50-DN1000 for both PN10 and PN16
- Products hold up to 10 international authoritative certification certificates (unspecified)

**PRESSURE-TEMPERATURE RATING**

CLASS	TEMPERATURE	MAX PRESSURE
—	150°C	1.6 MPa

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SECTION Technical drawing REF EFC-249

