APPLICATION CATALOGUE

HVAC & Building Services Valves

Valves for heating, chilled water, condenser and ventilation circuits

A representative selection of the range. Valves are configurable to your specification.

HVAC pipework systems combine continuous circulation duty, variable-flow balancing and close-coupled equipment that demands compact, reliable valves. This selection covers the isolation, balancing and protection valves we supply for heating, chilled water, condenser and ventilation systems. Specifications are indicative and confirmed at the time of quotation.

KEY STANDARDS

- EN 1074 (valve performance)
- EN 1092-1 (flanges)
- EN 558 (face-to-face)
- PED 2014/68/EU (pressure equipment)
- EN 12952 / EN 12953 (boiler safety valves)

SUPPLIED BY

EAP Global Limited (trading as Euro Flow Control)

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Issued July 2026

WHO WE ARE

About Euro Flow Control

Euro Flow Control supplies industrial valves and flow control equipment to industry across Europe and worldwide.

This catalogue shows a selection of our range. It is indicative of what we supply, not a limit: we source a great deal more to specification, so if you do not see what you need, please ask.

Euro Flow Control supplies equipment to project specification across water and wastewater, marine, fire protection, HVAC, oil and gas and industrial process applications. Requirements outside the range shown are supplied to specification on request.

Enquiries are handled on a project basis. On receipt of a specification, parts list or written description of requirement, we prepare a quotation for review.

SECTORS SERVED

Water and wastewater. Marine and offshore. Fire protection. HVAC and building services. Oil and gas. Industrial process.

STANDARDS AND CERTIFICATION

Products are manufactured to recognised international standards (API, ASME, EN, ISO and DIN). Material and test certification to EN 10204 3.1 is provided as standard, with PED, ATEX, fire-safe (API 607 / 6FA) and marine classification available on request and confirmed per order.

ENQUIRY TO QUOTATION

· Submit your requirement as a specification, parts list or written description.

· We confirm specification, materials, end connections and applicable standards against your requirement.

· We issue a quotation, with certification and approvals provided to project requirements.

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BUTTERFLY VALVE

Centerline Flanged Butterfly Valve

REF **EFC-18** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**NPS 2" / DN50 to NPS 48" / DN1400**
Pressure	**PN10 to PN16**
End connection	**flanged (ANSI B16.1) / flanged (BS4504) / flanged (DIN2501)**
Face-to-face	**API 609, MSS SP-67, DIN3202, BS EN558-1**
Temperature	**-10°C to 150°C**
Media	**water, oil, gas, corrosive media**

STANDARDS

Design	**API 609, MSS SP-67**
Test	**API 598**

MATERIALS

Body	**Ductile Iron, Cast Iron + Rubber (NBR), Cast Iron + Rubber (EPDM)**
Stem	**Stainless Steel**
Disc	**Ductile Iron, Bronze, Stainless Steel**

FEATURES

- Bi-directional sealing with low operating torque
- Flow characteristic tending to linear
- Flanged connection; suitable for both vertical and horizontal installation
- Multiple seat sealing material options available
- Suitable for use at pipe nozzle locations
- Seat sealing integrated with body for extended service life

OPTIONS & NOTES

• Material field in specification table reads: 'Water, oil, gas, and various corrosive media' — listed under 'Material' heading, likely intended as media rather than material of construction

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

PTFE Lined Wafer Butterfly Valve

REF **EFC-27** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**NPS 1½" to NPS 48"**
Pressure	**Class 150**
End connection	**wafer (ANSI B16.1) / wafer (BS4504) / wafer (DIN2501)**
Face-to-face	**API 609, MSS SP-67, DIN3202, BS EN558-1**
Temperature	**null°C to null°C**
Media	**Water, weak acids and alkalis, air, steam, oil**

STANDARDS

Design	**API 609, MSS SP-67**
Test	**API 598**

MATERIALS

Body	**Cast iron, Cast steel, Stainless steel**	Seat	**PTFE, NR, CR, NBR, EPDM**
Disc	**WCB+PTFE**		

FEATURES

- Compact and lightweight construction; can be installed in any position and easily disassembled for maintenance
- 90° rotation for quick opening and closing
- Wear-reducing, self-lubricating PTFE lining; operating torque reduced by over 40% compared to standard butterfly valves
- Non-toxic, odourless, and antibacterial lining material
- Resistant to salt, alkali, and weak acid corrosion
- Pinless disc-to-stem connection providing complete isolation between medium and metallic parts

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BUTTERFLY VALVE

Wafer Type Centerline Butterfly Valve

REF **EFC-33** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**NPS 2" to NPS 8"**
Pressure	**Class 150**
End connection	**wafer (ANSI B16.1) / wafer (BS4504) / wafer (DIN2501)**
Face-to-face	**API 609, MSS SP-67, DIN3202, BS EN558-1**
Media	**air, sewage, steam, gas, oil**

STANDARDS

Design	**API 609, MSS SP-67**
Test	**API 598**

MATERIALS

Body	**WCB, QT450**	Disc	**WCB, QT450**
Shaft	**2Cr13**	O ring	**EPDM, NBR, VITON, PTFE**
Packing	**Flexible graphite**	Stem	**2Cr13**
Seat	**EPDM, NBR, VITON, PTFE**		

FEATURES

- Compact and lightweight construction for ease of transport, installation and disassembly.
- 90-degree operation for rapid switching.
- Low operating torque.
- Zero-leakage sealing capability.
- Multiple seat and body materials available for compatibility with various media.
- Flow characteristics approximate a straight-line curve, providing good throttling performance.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Double Flanged Butterfly Valve

REF **EFC-102** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN100 to DN1200**
Pressure	**PN10, PN16, PN25, PN40**
End connection	**flanged (EN 1092) / flanged (EN 1092) / flanged (EN 1092) / flanged (EN 1092)**

ACTUATION

- worm gear — GGG-50 / St gear unit

MATERIALS

Body	**GGG-40, GGG-50, GSC25, AISI 304**	Disc	**GGG-50, GS-C 25, Al-Bronze**
Reating ring	**St37, 304, 316**	Stem driven end	**AISI 420 (X20 Cr 13), 304, 316**
Stem free end	**AISI 420 (X20 Cr 13), 304, 316**	Bearing bush	**TEFLON, PTFE**
Cover driven end	**GGG-50, GS-C 25, 304, 316**	Cover free end	**GGG-50, GS-C 25, 304, 316**
Sealing ring	**EPDM**	Key	**Steel Ck-45**
Setscrew	**Stainless Steel-A2, A4**	O ring	**EPDM, BUNA-N**
Screw	**Stainless Steel-A2**	Bolt	**5D**
Worm gear unit	**GGG-50, St**		

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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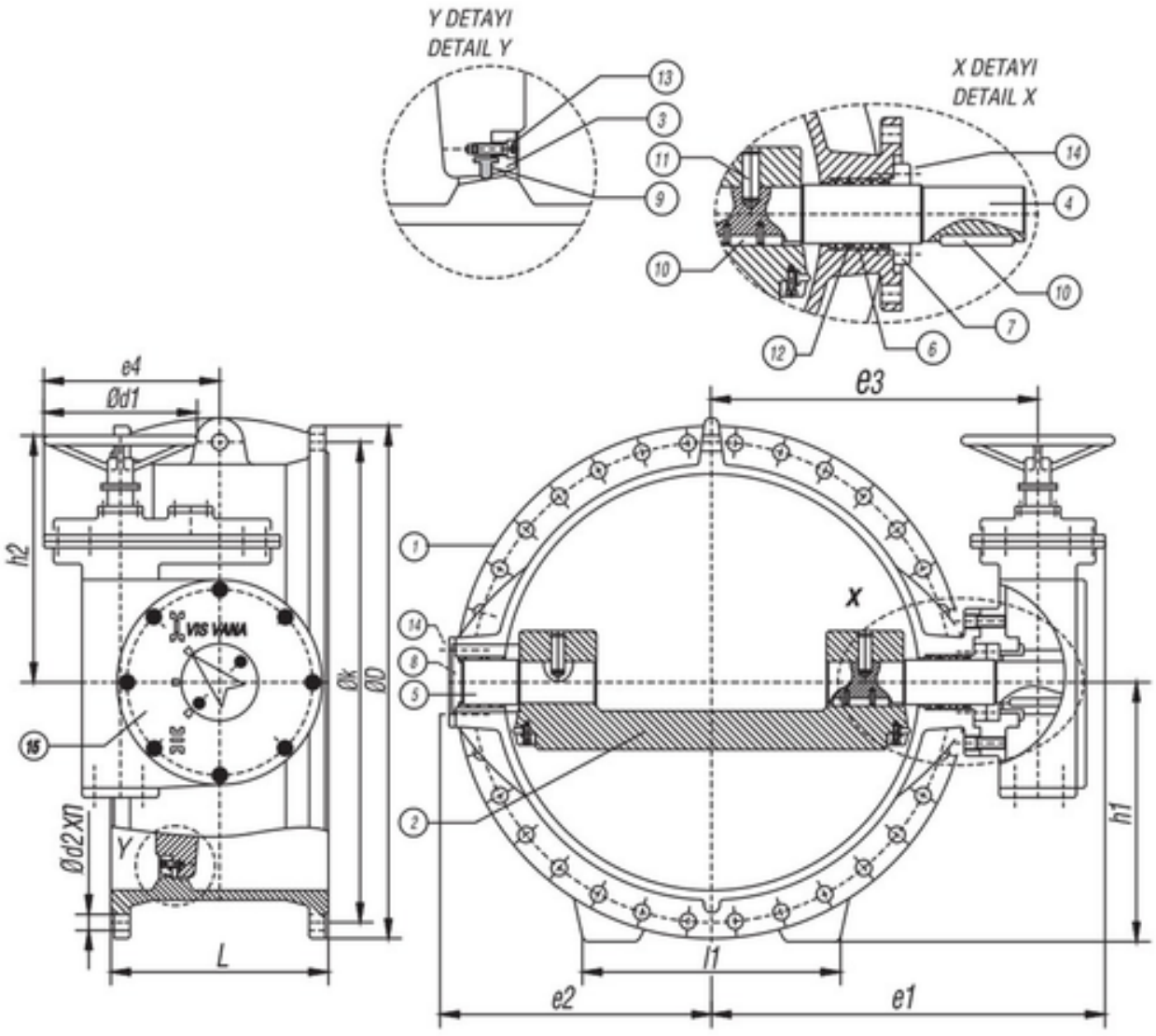
BUTTERFLY VALVE

Double Flanged Butterfly Valve

SECTION **Technical drawing 1** REF **EFC-102**



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BUTTERFLY VALVE

Double Flanged Butterfly Valve

SECTION **Dimensions per size** REF **EFC-102**

SIZE	D	K	BOLTSL_EN558_S1	14_BS5155		E1	E2	E3	E4	H1	D1	H2	L1	WEIGHT
DN100 (PN10)	220	180	4xØ18	190	127	250	105	198	134	110	180	—	—	30 kg
DN100 (PN16)	220	180	4xØ18	190	127	250	105	198	134	110	180	—	—	30 kg
DN100 (PN25)	235	190	4xØ22	190	127	250	105	198	134	110	180	—	—	30 kg
DN100 (PN40)	235	190	4xØ22	190	127	250	105	198	134	110	180	—	—	30 kg
DN125 (PN10)	250	210	4xØ22	200	140	262	117	210	134	125	180	205	—	35 kg
DN125 (PN16)	250	210	4xØ22	200	140	262	117	210	134	125	180	205	—	35 kg
DN125 (PN25)	270	220	4xØ26	200	140	262	117	210	134	125	180	205	—	35 kg
DN125 (PN40)	270	220	4xØ26	200	140	262	117	210	134	125	180	205	—	35 kg
DN150 (PN10)	285	240	4xØ22	210	140	284	128	232	134	143	180	205	—	45 kg
DN150 (PN16)	285	240	4xØ22	210	140	284	128	232	134	143	180	205	—	45 kg
DN150 (PN25)	300	250	4xØ26	210	140	284	128	232	134	143	180	205	—	45 kg
DN150 (PN40)	300	250	4xØ30	210	140	284	128	232	134	143	180	205	—	45 kg
DN200 (PN10)	340	295	8xØ22	230	152	307	157	255	158	170	180	—	—	50 kg
DN200 (PN16)	340	295	8xØ22	230	152	307	157	255	158	170	180	—	—	50 kg
DN200 (PN25)	375	310	8xØ30	230	152	307	157	255	158	170	180	—	—	50 kg
DN200 (PN40)	375	320	8xØ33	230	152	307	157	255	158	170	180	—	—	50 kg
DN250 (PN10)	395	350	12xØ22	250	165	387	213	319	158	212	215	255	260	95 kg

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

Double Flanged Butterfly Valve

Dimensions per size (continued) · EFC-102

SIZE	D	K	BOLTSL_EN558_S14	BS5155	E1	E2	E3	E4	H1	D1	H2	L1	WEIGHT
DN250 (PN16)	405	355	12xØ26	250	165	387	213	319	158	212	215	255	260	95 kg
DN250 (PN25)	450	370	12xØ33	250	165	387	213	319	158	212	215	255	260	95 kg
DN250 (PN40)	450	385	12xØ36	250	165	387	213	319	158	212	215	255	260	95 kg
DN300 (PN10)	445	400	12xØ22	270	178	423	242	355	172	240	215	255	335	120 kg
DN300 (PN16)	460	410	12xØ26	270	178	423	242	355	172	240	215	255	335	120 kg
DN300 (PN25)	515	430	12xØ33	270	178	423	242	355	172	240	215	255	335	120 kg
DN300 (PN40)	515	450	12xØ36	270	178	423	242	355	172	240	215	255	335	120 kg
DN350 (PN10)	505	460	16xØ22	290	190	438	273	370	238	270	250	275	345	160 kg
DN350 (PN16)	520	470	16xØ26	290	190	438	273	370	238	270	250	275	345	160 kg
DN350 (PN25)	580	490	16xØ33	290	190	438	273	370	238	270	250	275	345	160 kg
DN350 (PN40)	580	510	16xØ36	290	190	438	273	370	238	270	250	275	345	160 kg
DN400 (PN10)	565	515	16xØ26	310	216	482	299	414	238	295	250	275	375	200 kg
DN400 (PN16)	580	525	16xØ30	310	216	482	299	414	238	295	250	275	375	200 kg
DN400 (PN25)	660	550	16xØ36	310	216	482	299	414	238	295	250	275	375	200 kg
DN400 (PN40)	660	585	16xØ39	310	216	482	299	414	238	295	250	275	375	200 kg
DN450 (PN10)	615	565	20xØ26	330	222	515	335	447	238	325	250	275	450	255 kg
DN450 (PN16)	640	585	20xØ33	330	222	515	335	447	238	325	250	275	450	255 kg
DN450 (PN25)	715	600	20xØ35	330	222	515	335	447	238	325	250	275	450	255 kg
DN450 (PN40)	715	610	20xØ39	330	222	515	335	447	238	325	250	275	450	255 kg
DN500 (PN10)	670	620	20xØ26	350	229	573	355	491	238	367	250	—	470	300 kg

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

DN500 (PN16)	715	650	20xØ33	350	229	573	355	491	238	367	250	—	470	300 kg

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

Double Flanged Butterfly Valve

Dimensions per size (continued) · EFC-102

SIZE	D	K	BOLTSL_EN558_S14	L14	BS5155	E1	E2	E3	E4	H1	D1	H2	L1	WEIGHT
DN500 (PN25)	775	660	20xØ35	350	229	573	355	491	238	367	250	—	470	300 kg
DN500 (PN40)	795	670	20xØ39	350	229	573	355	491	238	367	250	—	470	300 kg
DN600 (PN10)	780	725	20xØ30	390	267	641	430	559	314	430	385	410	545	460 kg
DN600 (PN16)	840	770	20xØ33	390	267	641	430	559	314	430	385	410	545	460 kg
DN600 (PN25)	960	770	20xØ42	390	267	641	430	559	314	430	385	410	545	460 kg
DN600 (PN40)	900	795	20xØ48	390	267	641	430	559	314	430	385	410	545	460 kg
DN700 (PN10)	895	840	24xØ30	430	292	729	465	599	366	465	385	410	590	635 kg
DN700 (PN16)	910	840	24xØ36	430	292	729	465	599	366	465	385	410	590	635 kg
DN700 (PN25)	1085	875	24xØ48	430	292	729	465	599	366	465	385	410	590	635 kg
DN700 (PN40)	995	900	24xØ56	430	292	729	465	599	366	465	385	410	590	635 kg
DN800 (PN10)	1015	950	24xØ33	470	318	790	521	660	366	522	385	476	660	790 kg
DN800 (PN16)	1025	950	24xØ39	470	318	790	521	660	366	522	385	476	660	790 kg
DN800 (PN25)	1185	990	24xØ48	470	318	790	521	660	366	522	385	476	660	790 kg
DN800 (PN40)	1140	1030	24xØ56	470	318	790	521	660	366	522	385	476	660	790 kg
DN900 (PN10)	1115	1050	28xØ33	510	330	845	576	715	515	570	385	476	720	1020 kg
DN900 (PN16)	1125	1050	28xØ39	510	330	845	576	715	515	570	385	476	720	1020 kg
DN900 (PN25)	1320	1090	28xØ56	510	330	845	576	715	515	570	385	476	720	1020 kg
DN900 (PN40)	1250	1140	28xØ56	510	330	845	576	715	515	570	385	476	720	1020 kg
DN1000 (PN10)	1230	1160	28xØ36	550	410	920	650	790	515	632	385	515	770	1355 kg
DN1000 (PN16)	1255	1170	28xØ42	550	410	920	650	790	515	632	385	515	770	1355 kg

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

DN1000 (PN25)	1530	1210	28xØ56	550	410	920	650	790	515	632	385	515	770	1355 kg

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

Double Flanged Butterfly Valve

Dimensions per size (continued) · EFC-102

SIZE	D	K	BOLTSL_EN558_S14	BS5155	E1	E2	E3	E4	H1	D1	H2	L1	WEIGHT
DN1000 (PN40)	1530	1250	—	550	410	920	650	790	515	632	385	515	770	1355 kg
DN1100 (PN10)	1340	1270	28xØ36	590	440	980	710	850	515	695	385	515	—	1710 kg
DN1100 (PN16)	1355	1270	28xØ48	590	440	980	710	850	515	695	385	515	—	1710 kg
DN1100 (PN25)	1530	1420	—	590	440	980	710	850	515	695	385	515	—	1710 kg
DN1100 (PN40)	1530	1430	—	590	440	980	710	850	515	695	385	515	—	1710 kg
DN1200 (PN10)	1455	1380	32xØ39	630	470	1168	765	945	515	752	385	620	—	2400 kg
DN1200 (PN16)	1485	1380	32xØ49	630	470	1168	765	945	515	752	385	620	—	2400 kg

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BUTTERFLY VALVE

U-Type Double Flanged Butterfly Valve

REF **EFC-103** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN40 to DN1400**
Pressure	**PN10, PN16, Class 150**
End connection	**flanged (EN 1092) / flanged (EN 1092) / flanged (BS 4504)**

MATERIALS

Body	**GG 25, GGG 40, GGG 50, GS-C 25**	Gasket	**EPDM, NBR, VITON**
Disc	**GGG 40, SS, Bronze**	Stem	**AISI 420, AISI 316**
O ring	**EPDM, NBR, VITON**	Gland bush	**PTFE, Bronze**
Retaining ring	**St, SS**	Washer	**St-37, SS, Bronze**
Bolt	**A2, A4, SS**	Gearbox	**GGG-40**

FEATURES

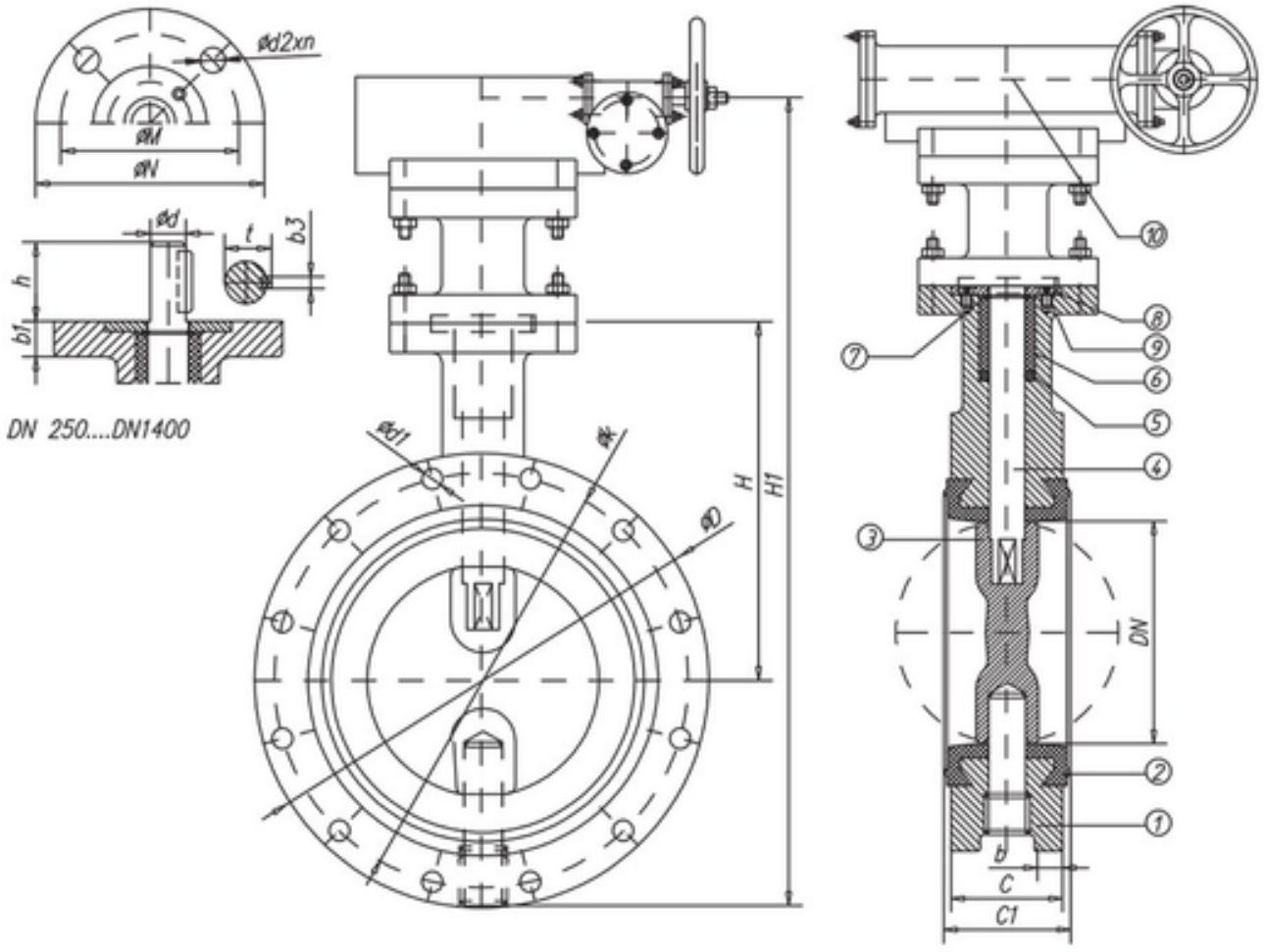
- Double-flanged body design conforming to EN 558 Series 20 and DIN 3202-K1 face-to-face dimensions
- Body available in grey cast iron, ductile iron, or cast carbon steel
- Disc available in ductile iron, stainless steel, or bronze
- Stem in AISI 420 or AISI 316 stainless steel
- Seat/gasket available in EPDM, NBR, or VITON elastomers
- Top flange dimensions to ISO 5211/1 for actuator mounting
- Stem dimensions to DIN 3337 / ISO 5211/1
- Available in PN10, PN16 and Class 150 pressure ratings
- Flange drilling to EN 1092 and BS 4504
- Gearbox operator in ductile iron GGG-40 available

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BUTTERFLY VALVE

U-Type Double Flanged Butterfly Valve

SECTION **Technical drawing 1** REF **EFC-103**



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BUTTERFLY VALVE

U-Type Double Flanged Butterfly Valve

SECTION **Dimensions per size** REF **EFC-103**

SIZE	D	K	BOLTS	C	C1	H	H1	B	STEM OD	STEM H	STEM T	STEM B3	TOP FLANGE ON	TOP FLANGE OM	TOP FLANGE OD2XN	TOP FLANGE B1	WEIGHT
DN40 (PN16)	150	110	18x4	33	37	130	260	10	14x9	32	25	8	—	—	—	—	4 kg
DN40 (PN10)	150	110	18x4	33	37	130	260	10	14x9	32	25	8	—	—	—	—	4 kg
DN40 (Class150)	127	98.5	16x4	33	37	130	260	10	14x9	32	25	8	—	—	—	—	4 kg
DN50 (PN16)	165	125	18x4	43	47	140	295	11	14x9	32	25	8	—	—	—	—	5 kg
DN50 (PN10)	165	125	18x4	43	47	140	295	11	14x9	32	25	8	—	—	—	—	5 kg
DN50 (Class150)	152	120.5	19x4	43	47	140	295	11	14x9	32	25	8	—	—	—	—	5 kg
DN65 (PN16)	185	145	18x4	46	50	152	310	12	14x9	32	25	8	65	50	7x4	10	7 kg
DN65 (PN10)	185	145	18x4	46	50	152	310	12	14x9	32	25	8	65	50	7x4	10	7 kg
DN65 (Class150)	178	139.7	19x4	46	50	152	310	12	14x9	32	25	8	65	50	7x4	10	7 kg
DN80 (PN16)	200	160	18x8	52	56	159	320	13	16x11	32	31	8	—	—	—	—	9 kg
DN80 (PN10)	200	160	18x8	52	56	159	320	13	16x11	32	31	8	—	—	—	—	9 kg
DN80 (Class150)	190.5	152.4	19x4	52	56	159	320	13	16x11	32	31	8	—	—	—	—	9 kg
DN100 (PN16)	220	180	18x8	56	60	177	360	15	16x11	32	31	8	90	70	10x4	12	12 kg
DN100 (PN10)	220	180	18x8	56	60	177	360	15	16x11	32	31	8	90	70	10x4	12	12 kg

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DN100 (Class150)	228.6	190.5	19x8	56	60	177	360	15	16x11	32	31	8	90	70	10x4	12	12 kg
DN125 (PN16)	250	210	18x8	60	64	190	400	20	22	60	43	12	—	—	—	—	14 kg
DN125 (PN10)	250	210	18x8	60	64	190	400	20	22	60	43	12	—	—	—	—	14 kg

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

U-Type Double Flanged Butterfly Valve

Dimensions per size (continued) · EFC-103

SIZE	D	K	BOLTS	C	C1	H	H1	B	STEM OD	STEM H	STEM T	STEM B3	TOP FLANGE ON	TOP FLANGE OM	TOP FLANGE OD2XN	TOP FLANGE B1	WEIGHT
DN125 (Class150)	254	215.9	22x8	60	64	190	400	20	22	60	43	12	—	—	—	—	14 kg
DN150 (PN16)	285	240	22x8	68	71	203	430	25	22	60	43	12	125	102	12x4	16	19 kg
DN150 (PN10)	270	220	22x8	68	71	203	430	25	22	60	43	12	125	102	12x4	16	19 kg
DN150 (Class150)	279.5	241.3	22x8	68	71	203	430	25	22	60	43	12	125	102	12x4	16	19 kg
DN200 (PN16)	340	295	22x12	78	84	241	550	30	28	70	50.5	14	175	140	18x4	22	22 kg
DN200 (PN10)	295	250	22x8	78	84	241	550	30	28	70	50.5	14	175	140	18x4	22	22 kg
DN200 (Class150)	343	298.5	19x8	78	84	241	550	30	28	70	50.5	14	175	140	18x4	22	22 kg
DN250 (PN16)	405	355	26x12	102	108	250	600	32	38	90	60.5	20	—	—	—	—	32 kg
DN250 (PN10)	350	295	22x12	102	108	250	600	32	38	90	60.5	20	—	—	—	—	32 kg
DN250 (Class150)	406.5	362	22x12	102	108	250	600	32	38	90	60.5	20	—	—	—	—	32 kg
DN300 (PN16)	460	410	26x12	114	120	282	620	34	38	90	60.5	20	210	165	22x4	26	42 kg
DN300 (PN10)	400	350	22x12	114	120	282	620	34	38	90	60.5	20	210	165	22x4	26	42 kg
DN300 (Class150)	482.5	431.8	22x12	114	120	282	620	34	38	90	60.5	20	210	165	22x4	26	42 kg
DN350 (PN16)	520	470	26x16	127	133	320	700	36	45	100	65.5	20	—	—	—	—	55 kg
DN350 (PN10)	460	410	22x16	127	133	320	700	36	45	100	65.5	20	—	—	—	—	55 kg

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

DN350 (Class150)	533.5	476	22x16	127	133	320	700	36	45	100	65.5	20	—	—	—	—	55 kg
DN400 (PN16)	580	525	30x16	154	160	360	825	40	55	100	65.5	32	300	254	18x8	32	110 kg
DN400 (PN10)	515	450	26x16	154	160	360	825	40	55	100	65.5	32	300	254	18x8	32	110 kg
DN400 (Class150)	597	539.8	22x16	154	160	360	825	40	55	100	65.5	32	300	254	18x8	32	110 kg
DN450 (PN16)	640	585	30x20	165	171	408	900	44	55	100	65.5	32	—	—	—	—	145 kg
DN450 (PN10)	565	505	26x20	165	171	408	900	44	55	100	65.5	32	—	—	—	—	145 kg

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

U-Type Double Flanged Butterfly Valve

Dimensions per size (continued) · EFC-103

SIZE	D	K	BOLTS	C	C1	H	H1	B	STEM OD	STEM H	STEM T	STEM B3	TOP FLANGE ON	TOP FLANGE OM	TOP FLANGE OD2XN	TOP FLANGE B1	WEIGHT
DN450 (Class150)	635	577.9	25x20	165	171	408	900	44	55	100	65.5	32	—	—	—	—	145 kg
DN500 (PN16)	715	650	33x20	190	196	432	1000	—	60	120	85.5	32	350	298	22x8	35	184 kg
DN500 (PN10)	620	555	26x20	190	196	432	1000	—	60	120	85.5	32	350	298	22x8	35	184 kg
DN500 (Class150)	699	635	25x20	190	196	432	1000	—	60	120	85.5	32	350	298	22x8	35	184 kg
DN600 (PN16)	840	770	36x20	203	208	520	1100	—	80	170	97.5	40	415	356	33x8	—	262 kg
DN600 (PN10)	725	650	30x20	203	208	520	1100	—	80	170	97.5	40	415	356	33x8	—	262 kg
DN600 (Class150)	813	749.3	25x20	203	208	520	1100	—	80	170	97.5	40	415	356	33x8	—	262 kg
DN700 (PN16)	910	840	36x24	216	224	550	1150	—	80	170	97.5	40	415	356	33x8	—	350 kg
DN700 (PN10)	840	770	30x24	216	224	550	1150	—	80	170	97.5	40	415	356	33x8	—	350 kg
DN700 (Class150)	927	863.6	25x28	216	224	550	1150	—	80	170	97.5	40	415	356	33x8	—	350 kg
DN800 (PN16)	1025	950	39x28	254	262	630	1250	—	90	170	128.1	40	415	356	33x8	—	450 kg
DN800 (PN10)	950	875	33x24	254	262	630	1250	—	90	170	128.1	40	415	356	33x8	—	450 kg
DN800 (Class150)	1060	978	29x32	254	262	630	1250	—	90	170	128.1	40	415	356	33x8	—	450 kg
DN900 (PN16)	1125	1050	39x28	254	262	770	1350	—	90	170	128.1	40	415	356	33x8	—	582 kg
DN900 (PN10)	1050	975	33x28	254	262	770	1350	—	90	170	128.1	40	415	356	33x8	—	582 kg

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

DN900 (Class150)	1168	1086	32x32	254	262	770	1350	—	90	170	128.1	40	415	356	33x8	—	582 kg
DN1000 (PN16)	1255	1170	42x28	280	288	840	1400	—	120	170	128.1	40	415	356	33x8	—	710 kg
DN1000 (PN10)	1160	1075	33x28	280	288	840	1400	—	120	170	128.1	40	415	356	33x8	—	710 kg
DN1000 (Class150)	1289	1200	32x36	280	288	840	1400	—	120	170	128.1	40	415	356	33x8	—	710 kg
DN1100 (PN16)	1355	1280	42x32	280	288	900	1500	—	120	170	128.1	40	415	356	33x8	—	1150 kg
DN1100 (PN10)	1270	1180	39x28	280	288	900	1500	—	120	170	128.1	40	415	356	33x8	—	1150 kg

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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U-Type Double Flanged Butterfly Valve

Dimensions per size (continued) · EFC-103

SIZE	D	K	BOLTS	C	C1	H	H1	B	STEM OD	STEM H	STEM T	STEM B3	TOP FLANGE ON	TOP FLANGE OM	TOP FLANGE OD2	XN	TOP FLANGE B1	WEIGHT
DN1100 (Class150)	1403	1314	35x32	280	288	900	1500	—	120	170	128.1	40	415	356	33x8		—	1150 kg
DN1200 (PN16)	1485	1390	42x32	280	288	970	1700	—	120	170	128.1	40	415	356	33x8		—	1300 kg
DN1200 (PN10)	1380	1280	42x32	280	288	970	1700	—	120	170	128.1	40	415	356	33x8		—	1300 kg
DN1200 (Class150)	1511	1422	41x32	280	288	970	1700	—	120	170	128.1	40	415	356	33x8		—	1300 kg
DN1300 (PN16)	1590	1490	48x36	280	288	1025	1800	—	120	170	128.1	40	415	356	33x8		—	1550 kg
DN1300 (PN10)	1490	1380	42x36	280	288	1025	1800	—	120	170	128.1	40	415	356	33x8		—	1550 kg
DN1300 (Class150)	1626	1537	41x36	280	288	1025	1800	—	120	170	128.1	40	415	356	33x8		—	1550 kg
DN1400 (PN16)	1685	1590	48x40	280	288	1025	1900	—	120	170	128.1	40	415	356	33x8		—	1810 kg
DN1400 (PN10)	1590	1490	42x36	280	288	1025	1900	—	120	170	128.1	40	415	356	33x8		—	1810 kg
DN1400 (Class150)	1746	1651	44x44	280	288	1025	1900	—	120	170	128.1	40	415	356	33x8		—	1810 kg

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BUTTERFLY VALVE

LUG Type Butterfly Valve

REF **EFC-104** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN600**
Pressure	**PN16 (max)**
End connection	**lug (EN 1092-1) / lug (EN 1092-1) / lug (EN 1092-1) / lug (ASME B16.5) / lug (JIS B2220) / lug (JIS B2220)**

MATERIALS

Body	**GGG40, WCB, Bronze Rg5, Al-Bronze, SS304, SS316**	Seat	**EPDM, NBR, VITON, PTFE**
Shaft	**SS420, SS304, SS316**	Disc	**GGG40, WCB, Al-Bronze, SS304, SS316**
Bushing	**Polymers**	O ring	**NBR**

FEATURES

- Lug-type body allowing end-of-line service
- Top flange drilling to DIN EN ISO 5211 for actuator mounting
- Stem dimensions to DIN 3337
- Compatible with EN 1092-1 (PN6, PN10, PN16), ASME B16.5 Class 150, and JIS B2220 (5K, 10K) flanges
- Multiple seat elastomer options to suit varying media

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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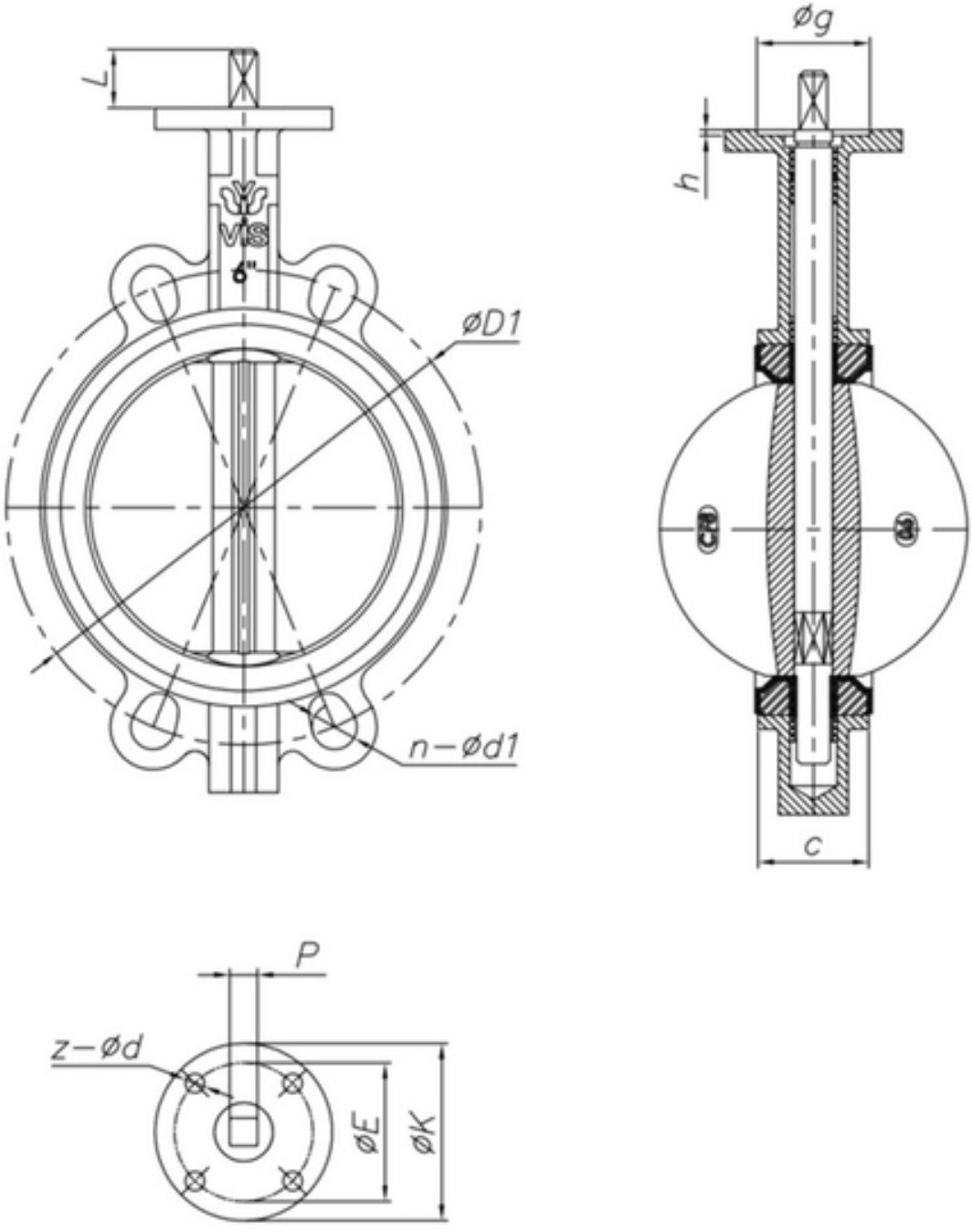
BUTTERFLY VALVE

LUG Type Butterfly Valve

SECTION **Technical drawing 1** REF **EFC-104**



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BUTTERFLY VALVE

LUG Type Butterfly Valve

SECTION **Dimensions per size** REF **EFC-104**

SIZE	ØD1	N-ØD1	C	ØK	ØE	ØG	Z X ØD	H	L	P	5K ØD1	5K N-ØD1	10K ØD1	10K N-ØD1	WEIGHT
DN50 (PN6)	110	4-M12	43	65	50	35	4xØ7	3	32	9	105	4-M12	120	4-M16	4.6 kg
DN50 (PN10)	125	4-M16	43	65	50	35	4xØ7	3	32	9	105	4-M12	120	4-M16	4.6 kg
DN50 (PN16)	125	4-M16	43	65	50	35	4xØ7	3	32	9	105	4-M12	120	4-M16	4.6 kg
DN50 (Class150)	120.7	4-M16	43	65	50	35	4xØ7	3	32	9	105	4-M12	120	4-M16	4.6 kg
DN65 (PN6)	130	4-M12	43	65	50	35	4xØ7	3	32	9	130	4-M16	140	4-M16	5.2 kg
DN65 (PN10)	145	4-M16	43	65	50	35	4xØ7	3	32	9	130	4-M16	140	4-M16	5.2 kg
DN65 (PN16)	145	4-M16	43	65	50	35	4xØ7	3	32	9	130	4-M16	140	4-M16	5.2 kg
DN65 (Class150)	139.7	4-M16	43	65	50	35	4xØ7	3	32	9	130	4-M16	140	4-M16	5.2 kg
DN80 (PN6)	150	4-M16	46	65	50	35	4xØ7	3	32	11	145	4-M16	150	4-M16	6.8 kg
DN80 (PN10)	160	4-M16	46	65	50	35	4xØ7	3	32	11	145	4-M16	150	4-M16	6.8 kg
DN80 (PN16)	160	4-M16	46	65	50	35	4xØ7	3	32	11	145	4-M16	150	4-M16	6.8 kg
DN80 (Class150)	152.4	4-M16	46	65	50	35	4xØ7	3	32	11	145	4-M16	150	4-M16	6.8 kg
DN100 (PN6)	170	4-M16	52	90	70	55	4xØ9	3	32	14	165	8-M16	175	8-M16	8.5 kg
DN100 (PN10)	180	8-M16	52	90	70	55	4xØ9	3	32	14	165	8-M16	175	8-M16	8.5 kg
DN100 (PN16)	180	8-M16	52	90	70	55	4xØ9	3	32	14	165	8-M16	175	8-M16	8.5 kg
DN100 (Class150)	190.5	8-M16	52	90	70	55	4xØ9	3	32	14	165	8-M16	175	8-M16	8.5 kg
DN125 (PN6)	200	8-M16	52	90	70	55	4xØ9	3	32	14	200	8-M16	210	8-M20	10.5 kg

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

LUG Type Butterfly Valve

Dimensions per size (continued) · EFC-104

SIZE	ØD1	N-ØD1	C	ØK	ØE	ØG	Z X ØD	H	L	P	5K ØD1	5K N-ØD1	10K ØD1	10K N-ØD1	WEIGHT
DN125 (PN10)	210	8-M16	52	90	70	55	4xØ9	3	32	14	200	8-M16	210	8-M20	10.5 kg
DN125 (PN16)	210	8-M20	52	90	70	55	4xØ9	3	32	14	200	8-M16	210	8-M20	10.5 kg
DN125 (Class150)	215.9	8-M20	52	90	70	55	4xØ9	3	32	14	200	8-M16	210	8-M20	10.5 kg
DN150 (PN6)	225	8-M16	56	90	70	55	4xØ9	3	32	17	230	8-M20	240	8-M20	12.5 kg
DN150 (PN10)	240	8-M20	56	90	70	55	4xØ9	3	32	17	230	8-M20	240	8-M20	12.5 kg
DN150 (PN16)	240	8-M20	56	90	70	55	4xØ9	3	32	17	230	8-M20	240	8-M20	12.5 kg
DN150 (Class150)	241.3	8-M20	56	90	70	55	4xØ9	3	32	17	230	8-M20	240	8-M20	12.5 kg
DN200 (PN6)	280	8-M16	60	125	102	70	4xØ12	4	45	22	280	8-M20	290	12-M20	20.2 kg
DN200 (PN10)	295	8-M20	60	125	102	70	4xØ12	4	45	22	280	8-M20	290	12-M20	20.2 kg
DN200 (PN16)	295	12-M20	60	125	102	70	4xØ12	4	45	22	280	8-M20	290	12-M20	20.2 kg
DN200 (Class150)	298.5	8-M20	60	125	102	70	4xØ12	4	45	22	280	8-M20	290	12-M20	20.2 kg
DN250 (PN6)	335	12-M16	68	125	102	70	4xØ12	4	45	22	345	12-M20	355	12-M20	29.5 kg
DN250 (PN10)	350	12-M20	68	125	102	70	4xØ12	4	45	22	345	12-M20	355	12-M20	29.5 kg
DN250 (PN16)	355	12-M24	68	125	102	70	4xØ12	4	45	22	345	12-M20	355	12-M20	29.5 kg
DN250 (Class150)	362	12-M20	68	125	102	70	4xØ12	4	45	22	345	12-M20	355	12-M20	29.5 kg
DN300 (PN6)	395	12-M20	78	125	102	70	4xØ12	4	45	27	390	12-M20	400	12-M20	46.5 kg
DN300 (PN10)	400	12-M20	78	125	102	70	4xØ12	4	45	27	390	12-M20	400	12-M20	46.5 kg

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

DN300 (PN16)	410	12-M24	78	125	102	70	4xØ12	4	45	27	390	12-M20	400	12-M20	46.5 kg
DN300 (Class150)	431.8	12-M27	78	125	102	70	4xØ12	4	45	27	390	12-M20	400	12-M20	46.5 kg
DN350 (PN6)	445	16-M20	102	175	140	100	4xØ18	4	46	27	435	16-M22	445	16-M22	71 kg
DN350 (PN10)	460	16-M20	102	175	140	100	4xØ18	4	46	27	435	16-M22	445	16-M22	71 kg

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

LUG Type Butterfly Valve

Dimensions per size (continued) · EFC-104

SIZE	ØD1	N-ØD1	C	ØK	ØE	ØG	Z X ØD	H	L	P	5K ØD1	5K N-ØD1	10K ØD1	10K N-ØD1	WEIGHT
DN350 (PN16)	470	16-M24	102	175	140	100	4xØ18	4	46	27	435	16-M22	445	16-M22	71 kg
DN350 (Class150)	476.3	16-M27	102	175	140	100	4xØ18	4	46	27	435	16-M22	445	16-M22	71 kg
DN400 (PN6)	495	16-M20	114	175	140	100	4xØ18	4	51	36	495	16-M20	510	16-M24	107 kg
DN400 (PN10)	515	16-M24	114	175	140	100	4xØ18	4	51	36	495	16-M20	510	16-M24	107 kg
DN400 (PN16)	525	16-M27	114	175	140	100	4xØ18	4	51	36	495	16-M20	510	16-M24	107 kg
DN400 (Class150)	539.8	16-M30	114	175	140	100	4xØ18	4	51	36	495	16-M20	510	16-M24	107 kg
DN450 (PN6)	550	20-M20	127	210	165	130	4xØ18	4	64	36	555	20-M22	565	20-M24	140 kg
DN450 (PN10)	565	20-M24	127	210	165	130	4xØ18	4	64	36	555	20-M22	565	20-M24	140 kg
DN450 (PN16)	585	20-M27	127	210	165	130	4xØ18	4	64	36	555	20-M22	565	20-M24	140 kg
DN450 (Class150)	577.9	20-M30	127	210	165	130	4xØ18	4	64	36	555	20-M22	565	20-M24	140 kg
DN500 (PN6)	600	20-M24	154	210	165	130	4xØ18	4	70	36	605	20-M22	620	20-M24	186 kg
DN500 (PN10)	620	20-M24	154	210	165	130	4xØ18	4	70	36	605	20-M22	620	20-M24	186 kg
DN500 (PN16)	650	20-M30	154	210	165	130	4xØ18	4	70	36	605	20-M22	620	20-M24	186 kg
DN500 (Class150)	635	20-M30	154	210	165	130	4xØ18	4	70	36	605	20-M22	620	20-M24	186 kg
DN600 (PN6)	705	20-M24	154	210	165	130	4xØ23	5	70	36	715	20-M24	730	24-M30	267 kg
DN600 (PN10)	725	20-M27	154	210	165	130	4xØ23	5	70	36	715	20-M24	730	24-M30	267 kg
DN600 (PN16)	770	20-M33	154	210	165	130	4xØ23	5	70	36	715	20-M24	730	24-M30	267 kg

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

DN600 (Class150)	749.3	20-M33	154	210	165	130	4xØ23	5	70	36	715	20-M24	730	24-M30	267 kg

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BUTTERFLY VALVE

Wafer Type Butterfly Valve

REF **EFC-105** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN600**
Pressure	**PN16 (max)**
End connection	**wafer (EN 1092-1) / wafer (EN 1092-1) / wafer (EN 1092-1) / wafer (ASME B16.5) / wafer (JIS B2220) / wafer (JIS B2220)**

ACTUATION

- manual lever — DIN EN ISO 5211
- pneumatic double-acting — DIN EN ISO 5211
- electric — DIN EN ISO 5211
- manual gearbox — DIN EN ISO 5211

MATERIALS

Body	**GGG40, WCB, Bronze Rg5, Al-Bronze, SS304, SS316**	Seat	**EPDM, NBR, VITON, PTFE**
Shaft	**SS 420, SS 304, SS 316**	Disc	**GGG40, WCB, Al-Bronze, SS304, SS316**
Bushing	**Polymers**	O ring	**NBR**

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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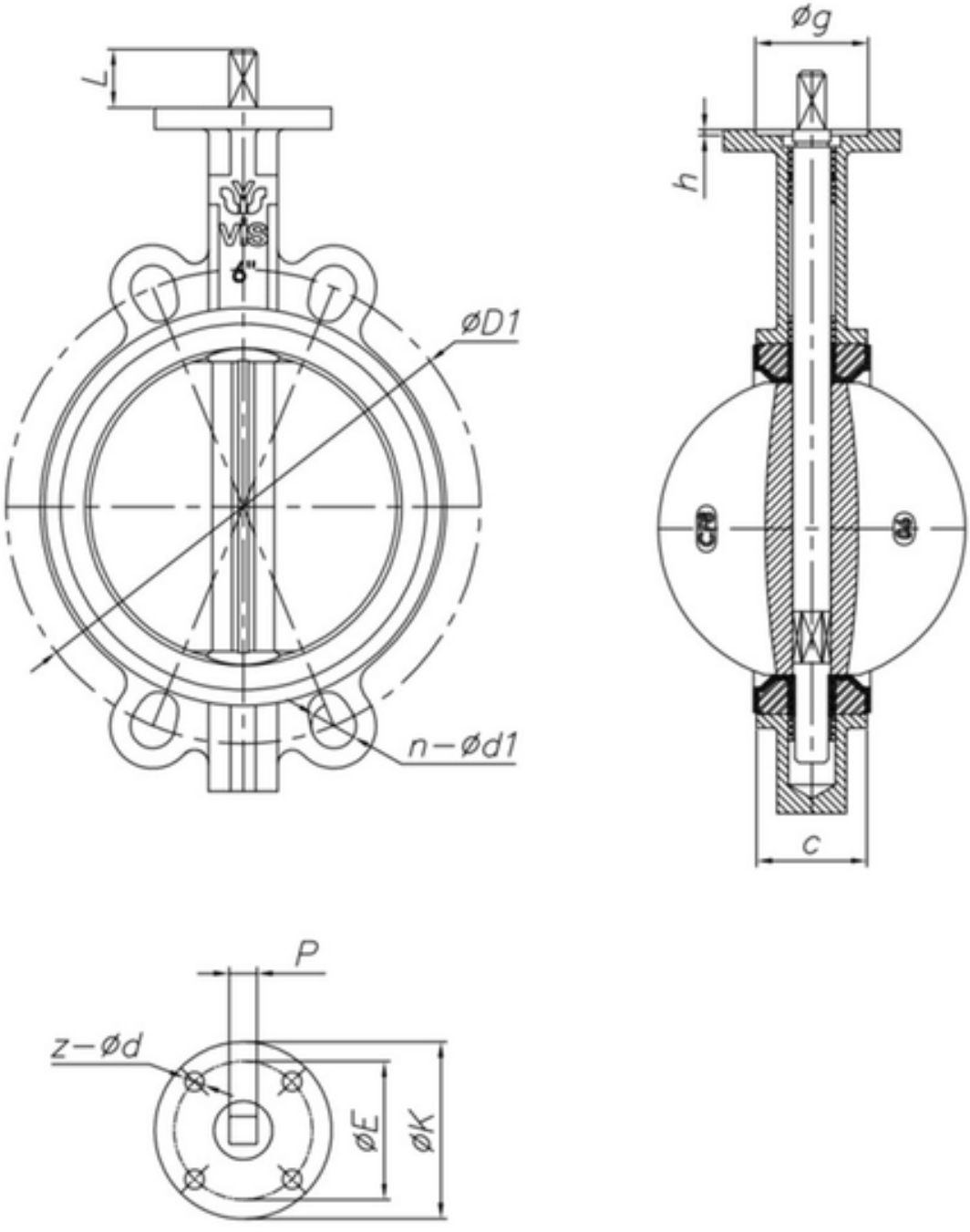
BUTTERFLY VALVE

Wafer Type Butterfly Valve

SECTION **Technical drawing 1** REF **EFC-105**



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BUTTERFLY VALVE

Wafer Type Butterfly Valve

SECTION **Dimensions per size** REF **EFC-105**

SIZE	D1	BOLTS	C	L	PTOP_FLANGE_K	TOP_FLANGE_E	TOP_FLANGE_G	TOP_FLANGE_ZXA	JIS5K D1	JIS5K BOLTS	JIS10K D1	JIS10K BOLTS	WEIGHT
DN50 (PN6)	110	4-14	43	46	9	65	50	35	4xØ7	3	105	4-19	120	4(8)-19	3.5 kg
DN50 (PN10)	125	4-18	43	46	9	65	50	35	4xØ7	3	105	4-19	120	4(8)-19	3.5 kg
DN50 (PN16)	125	4-18	43	46	9	65	50	35	4xØ7	3	105	4-19	120	4(8)-19	3.5 kg
DN50 (Class150)	120.7	4-19	43	46	9	65	50	35	4xØ7	3	105	4-19	120	4(8)-19	3.5 kg
DN65 (PN6)	130	4-14	43	46	9	65	50	35	4xØ7	3	130	4-19	140	4(8)-19	4 kg
DN65 (PN10)	145	4-18	43	46	9	65	50	35	4xØ7	3	130	4-19	140	4(8)-19	4 kg
DN65 (PN16)	145	4-18	43	46	9	65	50	35	4xØ7	3	130	4-19	140	4(8)-19	4 kg
DN65 (Class150)	139.7	4-19	43	46	9	65	50	35	4xØ7	3	130	4-19	140	4(8)-19	4 kg
DN80 (PN6)	150	4-18	46	46	11	90	70	55	4xØ9	3	145	4(8)-19	150	4(8)-19	4.4 kg
DN80 (PN10)	160	4(8)-18	46	46	11	90	70	55	4xØ9	3	145	4(8)-19	150	4(8)-19	4.4 kg
DN80 (PN16)	160	4(8)-18	46	46	11	90	70	55	4xØ9	3	145	4(8)-19	150	4(8)-19	4.4 kg
DN80 (Class150)	152.4	4(8)-19	46	46	11	90	70	55	4xØ9	3	145	4(8)-19	150	4(8)-19	4.4 kg
DN100 (PN6)	170	4(8)-18	52	52	11	90	70	55	4xØ9	3	165	4(8)-19	175	4(8)-19	6 kg
DN100 (PN10)	180	4(8)-18	52	52	11	90	70	55	4xØ9	3	165	4(8)-19	175	4(8)-19	6 kg
DN100 (PN16)	180	4(8)-18	52	52	11	90	70	55	4xØ9	3	165	4(8)-19	175	4(8)-19	6 kg
DN100 (Class150)	190.5	4(8)-19	52	52	11	90	70	55	4xØ9	3	165	4(8)-19	175	4(8)-19	6 kg
DN125 (PN6)	200	4(12)-18	56	32	14	90	70	55	4xØ9	3	200	4(8)-19	210	4(8)-23	7.3 kg

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

Wafer Type Butterfly Valve

Dimensions per size (continued) · EFC-105

SIZE	D1	BOLTS	C	L	PTOP_FLANGE_K	TOP_FLANGE_E	TOP_FLANGE_G	TOP_FLANGE_ZXA	JIS5K D1	JIS5K BOLTS	JIS10K D1	JIS10K BOLTS	WEIGHT
DN125 (PN10)	210	4(8)-23	56	32	14	90	70	55	4xØ9	3	200	4(8)-19	210	4(8)-23	7.3 kg
DN125 (PN16)	210	4(8)-23	56	32	14	90	70	55	4xØ9	3	200	4(8)-19	210	4(8)-23	7.3 kg
DN125 (Class150)	215.9	4(8)-23	56	32	14	90	70	55	4xØ9	3	200	4(8)-19	210	4(8)-23	7.3 kg
DN150 (PN6)	225	4(12)-23	56	32	14	125	102	70	4xØ12	3	230	4(12)-25	240	4(8)-23	8.5 kg
DN150 (PN10)	240	4(12)-23	56	32	14	125	102	70	4xØ12	3	230	4(12)-25	240	4(8)-23	8.5 kg
DN150 (PN16)	240	4(12)-23	56	32	14	125	102	70	4xØ12	3	230	4(12)-25	240	4(8)-23	8.5 kg
DN150 (Class150)	241.3	4(12)-23	56	32	14	125	102	70	4xØ12	3	230	4(12)-25	240	4(8)-23	8.5 kg
DN200 (PN6)	280	4(12)-23	60	32	17	125	102	70	4xØ12	3	280	4(12)-25	290	4(12)-23	15.8 kg
DN200 (PN10)	295	4(12)-23	60	32	17	125	102	70	4xØ12	3	280	4(12)-25	290	4(12)-23	15.8 kg
DN200 (PN16)	295	4(12)-23	60	32	17	125	102	70	4xØ12	3	280	4(12)-25	290	4(12)-23	15.8 kg
DN200 (Class150)	298.5	4(12)-23	60	32	17	125	102	70	4xØ12	3	280	4(12)-25	290	4(12)-23	15.8 kg
DN250 (PN6)	335	4(12)-23	68	45	17	175	140	100	4xØ18	4	345	4(12)-25	355	4(16)-25	22.4 kg
DN250 (PN10)	350	4(16)-23	68	45	17	175	140	100	4xØ18	4	345	4(12)-25	355	4(16)-25	22.4 kg
DN250 (PN16)	350	4(12)-27	68	45	17	175	140	100	4xØ18	4	345	4(12)-25	355	4(16)-25	22.4 kg
DN250 (Class150)	362	4(12)-27	68	45	17	175	140	100	4xØ18	4	345	4(12)-25	355	4(16)-25	22.4 kg
DN300 (PN6)	390	4(12)-23	78	45	22	175	140	100	4xØ18	4	390	4(12)-25	400	4(16)-25	32.9 kg
DN300 (PN10)	400	4(16)-27	78	45	22	175	140	100	4xØ18	4	390	4(12)-25	400	4(16)-25	32.9 kg

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

DN300 (PN16)	400	4(16)-27	78	45	22	175	140	100	4xØ18	4	390	4(12)-25	400	4(16)-25	32.9 kg
DN300 (Class150)	431.8	4(16)-27	78	45	22	175	140	100	4xØ18	4	390	4(12)-25	400	4(16)-25	32.9 kg
DN350 (PN6)	445	4(16)-23	78	46	22	175	140	100	4xØ18	4	435	4(16)-25	445	4(16)-27	54 kg
DN350 (PN10)	460	4(16)-27	78	46	22	175	140	100	4xØ18	4	435	4(16)-25	445	4(16)-27	54 kg

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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Wafer Type Butterfly Valve

Dimensions per size (continued) · EFC-105

SIZE	D1	BOLTS	C	L	PTOP_FLANGE_K	TOP_FLANGE_F	TOP_FLANGE_E	TOP_FLANGE_G	TOP_FLANGE_ZXA	JIS5K D1	JIS5K BOLTS	JIS10K D1	JIS10K BOLTS	WEIGHT
DN350 (PN16)	470	4(16)-27	78	46	22	175	140	100	4xØ18	4	435	4(16)-25	445	4(16)-27	54 kg
DN350 (Class150)	476.3	4(16)-30	78	46	22	175	140	100	4xØ18	4	435	4(16)-25	445	4(16)-27	54 kg
DN400 (PN6)	495	4(20)-23	102	51	27	210	165	130	4xØ23	5	495	4(20)-25	510	4(16)-27	76 kg
DN400 (PN10)	515	4(20)-27	102	51	27	210	165	130	4xØ23	5	495	4(20)-25	510	4(16)-27	76 kg
DN400 (PN16)	525	4(20)-27	102	51	27	210	165	130	4xØ23	5	495	4(20)-25	510	4(16)-27	76 kg
DN400 (Class150)	539.8	4(16)-30	102	51	27	210	165	130	4xØ23	5	495	4(20)-25	510	4(16)-27	76 kg
DN450 (PN6)	550	4(20)-28	114	64	27	210	165	130	4xØ23	5	555	4(20)-25	565	4(16)-27	93 kg
DN450 (PN10)	565	4(20)-27	114	64	27	210	165	130	4xØ23	5	555	4(20)-25	565	4(16)-27	93 kg
DN450 (PN16)	585	4(20)-30	114	64	27	210	165	130	4xØ23	5	555	4(20)-25	565	4(16)-27	93 kg
DN450 (Class150)	577.9	4(20)-33	114	64	27	210	165	130	4xØ23	5	555	4(20)-25	565	4(16)-27	93 kg
DN500 (PN6)	600	4(20)-28	127	70	36	210	165	130	4xØ23	5	605	4(20)-25	620	4(20)-27	133 kg
DN500 (PN10)	620	4(20)-30	127	70	36	210	165	130	4xØ23	5	605	4(20)-25	620	4(20)-27	133 kg
DN500 (PN16)	650	4(20)-33	127	70	36	210	165	130	4xØ23	5	605	4(20)-25	620	4(20)-27	133 kg
DN500 (Class150)	635	4(20)-36	127	70	36	210	165	130	4xØ23	5	605	4(20)-25	620	4(20)-27	133 kg
DN600 (PN6)	705	4(20)-28	154	—	36	210	165	130	4xØ23	5	715	4(20)-27	730	4(24)-33	198 kg
DN600 (PN10)	725	4(20)-30	154	—	36	210	165	130	4xØ23	5	715	4(20)-27	730	4(24)-33	198 kg
DN600 (PN16)	770	4(20)-30	154	—	36	210	165	130	4xØ23	5	715	4(20)-27	730	4(24)-33	198 kg

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

DN600 (Class150)	749.3	4(24)-33	154	—	36	210	165	130	4xØ23	5	715	4(20)-27	730	4(24)-33	198 kg

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BUTTERFLY VALVE

Flanged Type Butterfly Valve

REF **EFC-107** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN600**
Pressure	**PN16 (16 bar)**
End connection	**flanged (EN 1092-1) / flanged (EN 1092-1) / flanged (EN 1092-1) / flanged (ASME B16.5) / flanged (JIS B2220) / flanged (JIS B2220)**

ACTUATION

- manual lever — DIN EN ISO 5211
- pneumatic double-acting — DIN EN ISO 5211
- pneumatic single-acting — DIN EN ISO 5211
- electric actuator — DIN EN ISO 5211
- manual gearbox — DIN EN ISO 5211

MATERIALS

Body	**GGG40, WCB, Bronze Rg5, Al-Bronze, SS304, SS316**	Seat	**EPDM, NBR, VITON, PTFE**
Shaft	**SS 420, SS 304, SS 316**	Disc	**GGG40, WCB, Al-Bronze, SS304, SS316**
Bushing	**Polymers**	O ring	**NBR**

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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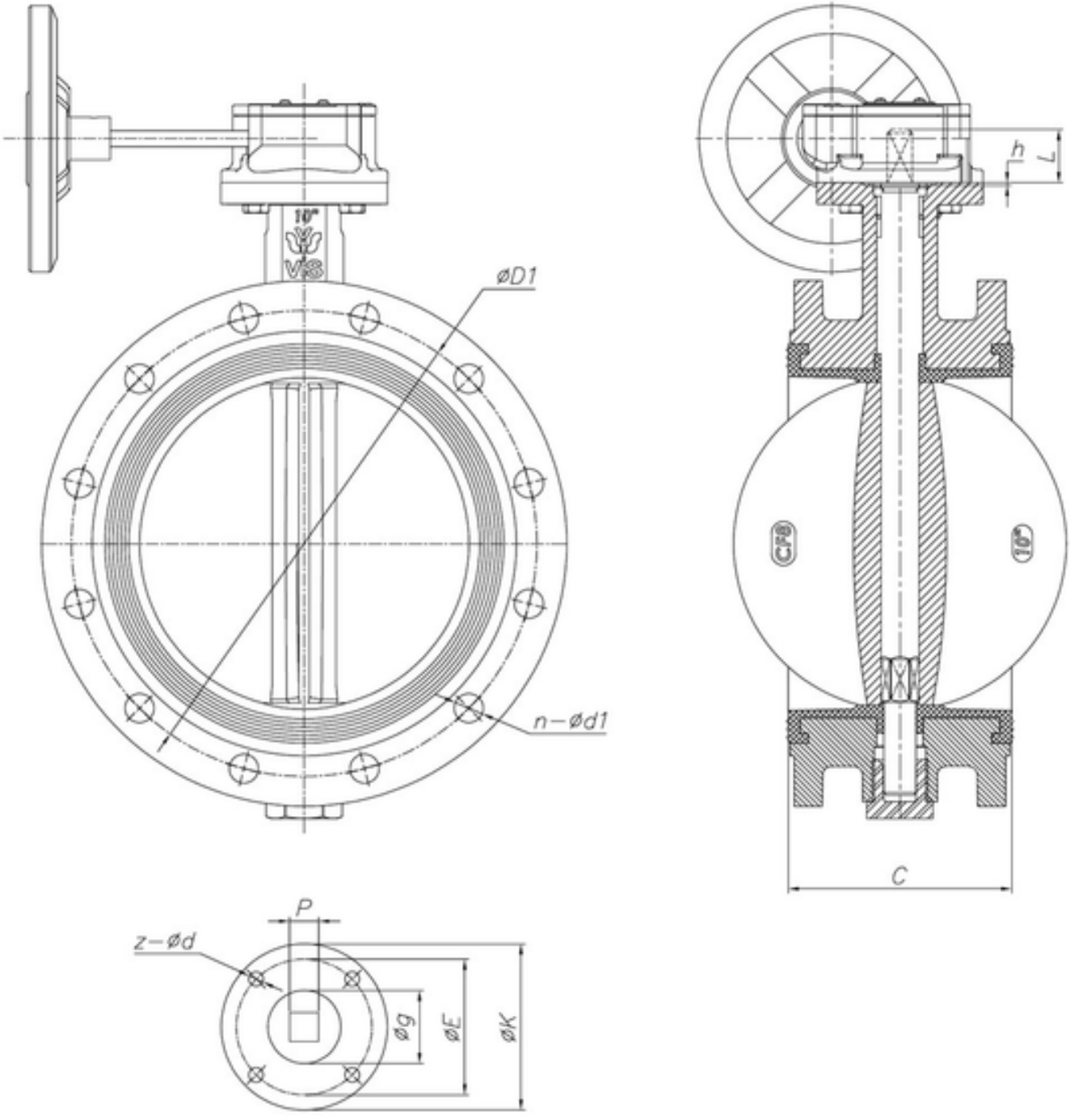
BUTTERFLY VALVE

Flanged Type Butterfly Valve

SECTION **Technical drawing 1** REF **EFC-107**



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BUTTERFLY VALVE

Flanged Type Butterfly Valve

SECTION **Dimensions per size** REF **EFC-107**

SIZE	OD1	BOLTS	CTOP_FLANGE_OD	TOP_FLANGE_H	TOP_FLANGE_W	TOP_FLANGE_OD	TOP_FLANGE_ZOD	TOP_FLANGE_H	STEM_L	STEM_P	JIS5K OD1	JIS5K BOLTS	JIS10K OD1	JIS10K BOLTS	WEIGHT
DN50 (PN6)	110	4x14	108	65	50	35	4xO7	3	32	9	105	4x15	120	4x19	8 kg
DN50 (PN10)	125	4x18	108	65	50	35	4xO7	3	32	9	105	4x15	120	4x19	8 kg
DN50 (PN16)	125	4x18	108	65	50	35	4xO7	3	32	9	105	4x15	120	4x19	8 kg
DN50 (Class150)	120.7	4x19	108	65	50	35	4xO7	3	32	9	105	4x15	120	4x19	8 kg
DN65 (PN6)	130	4x18	112	65	50	35	4xO7	3	32	9	130	4x19	140	4x19	9 kg
DN65 (PN10)	145	4x18	112	65	50	35	4xO7	3	32	9	130	4x19	140	4x19	9 kg
DN65 (PN16)	145	4x18	112	65	50	35	4xO7	3	32	9	130	4x19	140	4x19	9 kg
DN65 (Class150)	139.7	4x19	112	65	50	35	4xO7	3	32	9	130	4x19	140	4x19	9 kg
DN80 (PN6)	150	8x18	114	65	50	35	4xO7	3	32	9	145	8x19	150	8x23	11 kg
DN80 (PN10)	160	8x18	114	65	50	35	4xO7	3	32	9	145	8x19	150	8x23	11 kg
DN80 (PN16)	160	8x18	114	65	50	35	4xO7	3	32	9	145	8x19	150	8x23	11 kg
DN80 (Class150)	152.4	4x19	114	65	50	35	4xO7	3	32	9	145	8x19	150	8x23	11 kg
DN100 (PN6)	170	8x18	127	65	50	35	4xO7	3	32	11	165	8x19	175	8x19	13 kg
DN100 (PN10)	180	8x18	127	65	50	35	4xO7	3	32	11	165	8x19	175	8x19	13 kg
DN100 (PN16)	180	8x18	127	65	50	35	4xO7	3	32	11	165	8x19	175	8x19	13 kg
DN100 (Class150)	190.5	8x22	127	65	50	35	4xO7	3	32	11	165	8x19	175	8x19	13 kg
DN125 (PN6)	200	8x23	140	90	70	55	4xO9	3	45	14	200	8x19	210	8x23	17 kg

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

Flanged Type Butterfly Valve

Dimensions per size (continued) · EFC-107

SIZE	OD1	BOLTS	CTOP_FLANGE_OD	TOP_FLANGE_THK	TOP_FLANGE_PCD	TOP_FLANGE_HOLE	TOP_FLANGE_FACE	STEM_L	STEM_P	JIS5K OD1	JIS5K BOLTS	JIS10K OD1	JIS10K BOLTS	WEIGHT
DN125 (PN10)	210	8x23	140	90	70	55	4xO9	3	45	14	200	8x19	210	8x23	17 kg
DN125 (PN16)	210	8x23	140	90	70	55	4xO9	3	45	14	200	8x19	210	8x23	17 kg
DN125 (Class150)	215.9	8x19	140	90	70	55	4xO9	3	45	14	200	8x19	210	8x23	17 kg
DN150 (PN6)	225	8x23	152	90	70	55	4xO9	3	45	17	230	8x23	240	8x23	23 kg
DN150 (PN10)	240	8x23	152	90	70	55	4xO9	3	45	17	230	8x23	240	8x23	23 kg
DN150 (PN16)	240	8x23	152	90	70	55	4xO9	3	45	17	230	8x23	240	8x23	23 kg
DN150 (Class150)	241.3	8x22	152	90	70	55	4xO9	3	45	17	230	8x23	240	8x23	23 kg
DN200 (PN6)	280	12x18	165	90	70	55	4xO9	3	45	22	280	12x23	290	12x23	32 kg
DN200 (PN10)	295	8x23	165	90	70	55	4xO9	3	45	22	280	12x23	290	12x23	32 kg
DN200 (PN16)	295	8x23	165	90	70	55	4xO9	3	45	22	280	12x23	290	12x23	32 kg
DN200 (Class150)	298.5	8x19	165	90	70	55	4xO9	3	45	22	280	12x23	290	12x23	32 kg
DN250 (PN6)	335	12x23	178	125	102	70	4xO12	4	46	22	345	12x23	355	12x25	50 kg
DN250 (PN10)	350	12x23	178	125	102	70	4xO12	4	46	22	345	12x23	355	12x25	50 kg
DN250 (PN16)	355	12x23	178	125	102	70	4xO12	4	46	22	345	12x23	355	12x25	50 kg
DN250 (Class150)	362	12x29	178	125	102	70	4xO12	4	46	22	345	12x23	355	12x25	50 kg
DN300 (PN6)	395	12x23	190	125	102	70	4xO12	4	51	27	390	12x23	400	16x25	65 kg
DN300 (PN10)	400	12x23	190	125	102	70	4xO12	4	51	27	390	12x23	400	16x25	65 kg

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

DN300 (PN16)	410	12x27	190	125	102	70	4xO12	4	51	27	390	12x23	400	16x25	65 kg
DN300 (Class150)	431.8	16x29	190	125	102	70	4xO12	4	51	27	390	12x23	400	16x25	65 kg
DN350 (PN6)	445	16x23	216	175	140	100	4xO18	4	64	36	435	16x23	445	16x25	95 kg
DN350 (PN10)	460	16x27	216	175	140	100	4xO18	4	64	36	435	16x23	445	16x25	95 kg

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

Flanged Type Butterfly Valve

Dimensions per size (continued) · EFC-107

SIZE	OD1	BOLTS	CTOP_FLANGE	TOP_FLANGE	TOP_FLANGE	TOP_FLANGE	TOP_FLANGE	TOP_FLANGE	STEM_L	STEM_P	JIS5K OD1	JIS5K BOLTS	JIS10K OD1	JIS10K BOLTS	WEIGHT
DN350 (PN16)	470	16x30	216	175	140	100	4xO18	4	64	36	435	16x23	445	16x25	95 kg
DN350 (Class150)	476.3	16x29	216	175	140	100	4xO18	4	64	36	435	16x23	445	16x25	95 kg
DN400 (PN6)	495	16x23	222	175	140	100	4xO18	4	70	36	495	16x25	510	20x27	130 kg
DN400 (PN10)	515	16x27	222	175	140	100	4xO18	4	70	36	495	16x25	510	20x27	130 kg
DN400 (PN16)	525	16x30	222	175	140	100	4xO18	4	70	36	495	16x25	510	20x27	130 kg
DN400 (Class150)	539.8	20x32	222	175	140	100	4xO18	4	70	36	495	16x25	510	20x27	130 kg
DN450 (PN6)	550	20x23	229	210	165	130	4xO23	5	70	36	555	20x25	565	20x27	150 kg
DN450 (PN10)	565	20x27	229	210	165	130	4xO23	5	70	36	555	20x25	565	20x27	150 kg
DN450 (PN16)	585	20x33	229	210	165	130	4xO23	5	70	36	555	20x25	565	20x27	150 kg
DN450 (Class150)	—	20x35	229	210	165	130	4xO23	5	70	36	555	20x25	565	20x27	150 kg
DN500 (PN6)	600	20x23	267	210	165	130	4xO23	5	70	36	605	20x27	620	24x33	200 kg
DN500 (PN10)	620	20x30	267	210	165	130	4xO23	5	70	36	605	20x27	620	24x33	200 kg
DN500 (PN16)	650	20x36	267	210	165	130	4xO23	5	70	36	605	20x27	620	24x33	200 kg
DN500 (Class150)	635	20x35	267	210	165	130	4xO23	5	70	36	605	20x27	620	24x33	200 kg
DN600 (PN6)	705	20x28	—	210	165	130	4xO23	5	—	—	715	20x27	730	24x33	300 kg
DN600 (PN10)	725	20x30	—	210	165	130	4xO23	5	—	—	715	20x27	730	24x33	300 kg
DN600 (PN16)	770	20x36	—	210	165	130	4xO23	5	—	—	715	20x27	730	24x33	300 kg

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

DN600 (Class150)	749.3	20x35	—	210	165	130	4xO23	5	—	—	715	20x27	730	24x33	300 kg

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BUTTERFLY VALVE

4 inch butterfly valve Ductile iron EPDM Seat

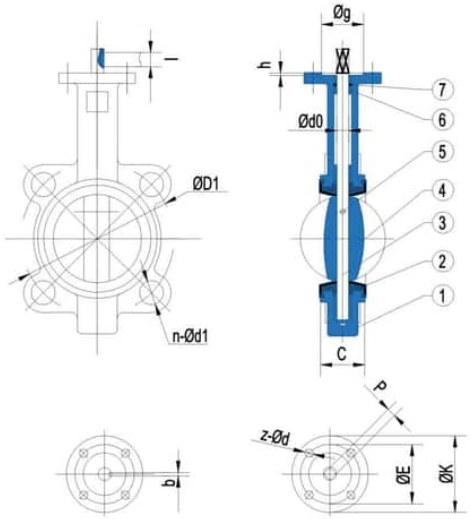
REF **EFC-237** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**4 inch to 4 inch**
Pressure	**PN10 to PN16**
End connection	**wafer / lug / flanged (DIN2501) / flanged (ANSI) / flanged (BS4504) / flanged (JIS)**
Face-to-face	**API609, DIN3202, ISO5752, BS5155**
Temperature	**-29°C to 121°C**
Media	**water, air, gas, steam, non-viscous fluids, potable water, wastewater**

ACTUATION

- manual lever — ISO5211
- gear operator — ISO5211
- pneumatic actuator — ISO5211
- electric actuator — ISO5211



STANDARDS

Design	**API609, ANSI16.34, JISB2064, GB T12238**
Test	**API598**

APPLICATIONS

- Water distribution
- Wastewater treatment
- Building services
- HVAC
- Water supply and sewage
- Food and beverage
- Chemical/petrochemical/processing
- Power and utilities
- Paper and pulp
- Shipbuilding

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	**Ductile iron, Stainless Steel, Aluminum**	Disc	**Stainless Steel**
Stem	**Stainless Steel**	Seat	**EPDM, NBR, PTFE, VITON, HYPALON**
O ring	**EPDM, NBR**		

FEATURES

- Compact structure, 90° rotation for rapid open/close operation
- Eccentric disc structure reduces friction on seat seal and extends valve service life
- Zero-leakage sealing
- Modular design for straightforward assembly and disassembly
- Body size 4 inches (100 mm)

OPTIONS & NOTES

- Pressure range depends on materials and design
- Temperature range depends on materials selected
- Custom company logo on valve body available on request
- Different colours available on request
- Different standard configurations available for different markets

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Aluminum Bronze Disc EPDM Seat Lug Butterfly Valve with Gear Operator

REF **EFC-239** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN1200**
Pressure	**PN10 to Class 300**
End connection	**lug (DIN 2501) / lug (ANSI) / lug (BS 4504) / lug (JIS)**
Face-to-face	**API 609, DIN 3202, ISO 5752, BS 5155**
Temperature	**-30°C to 135°C**
Media	**water, wastewater, chemicals, air, steam, oil, acids, salts**

ACTUATION

• gear operator — Manual worm gear for reduced operating torque on medium and large diameters — ISO 5211 top flange

STANDARDS

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

APPLICATIONS

- Water supply networks
- Cooling water systems
- Marine-related installations
- General industrial pipelines
- On-off isolation service

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	**CI, DI, CS, SS**	Disc	**Aluminum Bronze**
Stem	**SS416, SS316, SS304, CS**	Seat	**EPDM, PTFE, VITON, NBR, Hypalon**
Bushing	**PTFE, Bronze**	O ring	**NBR, EPDM**
Pin	**SS**		

FEATURES

- Lug-type body allowing secure bolting to pipeline
- Supports end-of-line service
- Aluminium bronze disc for resistance to seawater and corrosive media
- EPDM seat for sealing on clean water, wastewater, and non-aggressive fluids
- Gear operator for controlled manual operation at medium and large diameters
- Lug-type body configuration
- Gear-operated (worm gearbox actuator)
- Rubber-lined seat/liner
- Stainless steel disc
- Through-stem (bottom stem retained) design
- Raised bolt-hole lugs on body periphery

OPTIONS & NOTES

• Product listing includes seat options beyond EPDM: NBR, PTFE, Viton, Neoprene, Hypalon, Silicone

• Bushing material listed as EPDM in product summary but PTFE/Bronze in standard materials table

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Aluminum Bronze Disc EPDM Seat Lug Butterfly Valve with Handle

REF **EFC-240** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN1200**
Pressure	**PN10 to PN16**
End connection	**lug (DIN2501) / lug (ANSI) / lug (BS4504) / lug (JIS)**
Face-to-face	**API609, DIN3202, ISO5752, BS5155**
Temperature	**-30°C to 135°C**
Media	**Chemicals, air, water, steam, oil, acids, salts**

ACTUATION

• manual lever — Handle operation for direct on-off control — ISO5211 top flange

STANDARDS

Design	**API609, ANSI16.34, JISB2064, GB T12238**
Test	**API598**

APPLICATIONS

- Water supply networks
- Cooling water systems
- Marine-related installations
- General industrial pipelines
- Wastewater

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	**CI, DI, CS, SS**	Disc	**Aluminum Bronze**
Stem	**SS416, SS316, SS304, CS**	Seat	**EPDM, NBR, PTFE, VITON, HYPALON**
O ring	**NBR, EPDM**	Bushing	**PTFE, Bronze**
Pin	**SS**		

FEATURES

- Lug-type body supports end-of-line service
- Aluminium bronze disc for corrosion resistance in seawater and corrosive media
- EPDM seat for sealing in clean water, wastewater, and non-aggressive fluids
- Manual handle for direct on-off isolation
- Multiple body, seat, and stem material options available
- Lug-type body configuration
- Lever-operated with notched lockable handle
- Stainless steel disc
- Rubber-lined seat/liner (EPDM or similar, black)
- Threaded lug holes (red plugged) for dead-end service
- Split-stem design visible in sectional drawing
- ISO 5211 top flange for actuator mounting
- Components numbered 1-7 in sectional diagram: 1-lower stem, 2-body, 3-disc, 4-seat/liner, 5-upper stem, 6-stem seal, 7-top flange/bracket

OPTIONS & NOTES

• Seat options include: EPDM, NBR, PTFE, Viton, Neoprene, Hypalon, Silicon (from short description)

• Nominal pressure also stated as 150-300LB in addition to PN10/16

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Aluminum Bronze Disc PTFE Seat Lug Butterfly Valve with Gear Operator

REF **EFC-241** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN1200**
Pressure	**PN10 to Class 300**
End connection	**lug (DIN 2501) / lug (ANSI) / lug (BS 4504) / lug (JIS)**
Face-to-face	**API 609, DIN 3202, ISO 5752, BS 5155**
Temperature	**-30°C to 135°C**
Media	**chemicals, air, water, steam, oil, acids, salts**

ACTUATION

• gear operator — Worm gear for manual operation; torque reduction for medium and large diameters — ISO 5211 top flange

STANDARDS

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

APPLICATIONS

- Marine installations
- Chemical processing systems
- Cooling water lines
- Industrial water treatment pipelines

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	**CI, DI, CS, SS**	Disc	**Aluminum Bronze**
Stem	**SS416, SS316, SS304, CS**	Seat	**EPDM, PTFE, VITON, NBR, Hypalon**
Bushing	**PTFE, Bronze**	O ring	**NBR, EPDM**
Pin	**SS**		

FEATURES

- Aluminium bronze disc providing resistance to seawater and chemically aggressive environments
- PTFE seat providing stable sealing performance and low operating friction
- Lug-type body allowing secure bolting and end-of-line service
- Gear operator for controlled manual actuation in medium and large diameters
- Suitable for on-off isolation service; not intended for flow regulation
- Lug-type body configuration
- Gearbox (worm gear) actuator fitted
- PTFE/white polymer seat lining visible
- Stainless steel disc
- Red threaded lug inserts in body
- Stem with upper and lower bearings (items 4 and 5 in diagram)
- 7-part construction visible in sectional diagram: body (1), seat (2), disc (3), lower stem bearing (4), upper stem bearing (5), stem (6), gland/packing (7)

OPTIONS & NOTES

• Our products hold up to 10 international authoritative certification certificates, ensuring compliance with global standards.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Aluminum Bronze Disc PTFE Seat Lug Butterfly Valve with Handle

REF **EFC-242** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN1200**
Pressure	**PN10 to Class 300**
End connection	**lug (DIN 2501) / lug (ANSI) / lug (BS 4504) / lug (JIS)**
Face-to-face	**API 609, DIN 3202, ISO 5752, BS 5155**
Temperature	**-30°C to 135°C**
Media	**chemicals, air, water, steam, oil, acids, salts**

ACTUATION

• manual lever — Handle — ISO 5211 top flange

STANDARDS

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

APPLICATIONS

• Marine systems
• Chemical processing lines
• Cooling water networks
• Industrial water treatment

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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MATERIALS

Body	**CI, DI, CS, SS**	Disc	**Aluminum Bronze**
Stem	**SS416, SS316, SS304**	Seat	**EPDM, NBR, PTFE, VITON, HYPALON**
Bushing	**PTFE**	O ring	**NBR, EPDM**
Pin	**SS**		

FEATURES

- Aluminium bronze disc provides resistance to seawater, salt spray, and corrosive media
- PTFE seat provides stable sealing performance and low friction
- Lug-type body allows secure bolting to pipeline
- Supports end-of-line service
- Manual handle operation for quick and direct valve control
- PTFE bushing
- Lug-type body design
- PTFE-lined seat/liner (white internal lining visible)
- Stainless steel disc
- Lever operator with notched locking plate
- ISO 5211 top flange for actuator mounting
- Lugged body with threaded bolt holes for dead-end service
- Parts numbered 1-7 in sectional diagram: 1=lower shaft/bush, 2=body, 3=disc, 4=seat/liner, 5=upper shaft, 6=packing/gland area, 7=top flange

OPTIONS & NOTES

• Seat options listed include: EPDM, NBR, PTFE, Viton, Neoprene, Hypalon, Silion (from product summary text)

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Aluminum Bronze Disc PTFE Seat Wafer Butterfly Valve with Gear Operator

REF **EFC-243** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN1000**
Pressure	**PN10 to PN16**
End connection	**wafer (DIN2501) / wafer (ANSI) / wafer (BS4504) / wafer (JIS)**
Face-to-face	**API609, DIN3202, ISO5752, BS5155**
Temperature	**-30°C to 135°C**
Media	**chemicals, air, water, steam, oil, acids, salts**

ACTUATION

• gear operator — Manual worm gear — ISO5211 top flange

STANDARDS

Design	**API609, ANSI16.34, JISB2064, GB T12238**
Test	**API598**

APPLICATIONS

• water treatment
• marine
• chemical services

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	**CI, DI, CS, SS**	Disc	**Aluminum Bronze, CF8, CF8M, DI+Ni, SS304**
Stem	**SS416, SS316, SS304**	Seat	**EPDM, NBR, PTFE, VITON, HYPALON, Neoprene**
O ring	**NBR, EPDM**	Bushing	**PTFE, Bronze**
Pin	**SS**		

FEATURES

- Aluminium bronze disc for corrosion resistance
- PTFE seat for tight sealing and low operating torque
- Compact wafer design for installation between flanges
- Gear operator for smooth and controlled manual operation
- Suitable for medium and large diameter applications
- Wafer-type butterfly valve body with lugged bolt holes
- PTFE full-lined seat/liner visible as white ring
- Stainless steel disc
- Gearbox actuator (worm gear handwheel) fitted as standard in images
- Two-pin disc-to-stem connection visible in sectional drawing
- Upper and lower stem bushings (parts 6 and 4 in drawing)
- Stem seal packing (part 7 in drawing)
- ISO 5211 top-flange mounting pattern for actuator

OPTIONS & NOTES

• Seat options listed include: EPDM, NBR, PTFE, Viton, Neoprene, Hypalon, Silion (from introductory text)

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Aluminum Bronze Disc PTFE Seat Wafer Butterfly Valve with Handle

REF **EFC-244** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN1200**
Pressure	**PN10 to 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	**Chemicals, air, water, steam, oil, acids, salts**

ACTUATION

- manual handle

STANDARDS

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

APPLICATIONS

- Marine systems
- Chemical process lines
- Cooling water circuits
- Industrial water treatment

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	**CI, DI, CS, SS**	Disc	**Aluminum Bronze, CF8, CF8M, DI+Ni, SS304**
Stem	**SS416, SS316, SS304, CS**	Seat	**EPDM, NBR, PTFE, VITON, HYPALON**
Bushing	**PTFE, Bronze**	O ring	**NBR, EPDM**
Pin	**SS**		

FEATURES

- Aluminium bronze disc for improved resistance to seawater and corrosion compared with ductile iron or carbon steel disc materials
- PTFE seat for sealing where rubber seats may be unsuitable
- Wafer-type body for installation between flanges
- Manual handle operation
- ISO 5211 top flange for actuator mounting
- Wafer-style butterfly valve body
- PTFE-lined seat/liner visible as white seating face
- Lever operator with notched positioning bracket
- Stainless steel disc
- Through-stem (pin-less) shaft design visible in sectional drawing
- Parts numbered 1-7 in sectional drawing: lower shaft (1), body (2), disc (3), seat/liner (4), upper shaft area (5), top flange/ISO mounting pad (6), stem seal/packing area (7)
- Flanged drilling compatible with PN10, PN16, ANSI 150, JIS 10K

OPTIONS & NOTES

• Seat options also listed in product summary as: EPDM, NBR, PTFE, Viton, Neoprene, Hypalon, Silion — 'Neoprene' and 'Silion' (possibly Silicone) appear in the summary text but not in the formal materials table

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Aluminum Bronze Wafer Butterfly Valve

REF **EFC-245** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN1200**
Pressure	**PN10 to Class 300**
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	**Chemicals, air, water, steam, oil, acids, salts**

STANDARDS

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

APPLICATIONS

- Marine
- Offshore
- Seawater cooling systems
- Desalination plants
- Corrosive water service

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	**Aluminum Bronze, Cast Iron, Ductile Iron, Carbon Steel, Stainless Steel**	Disc	**Ductile Iron+Ni, CF8, CF8+PTFE, CF8M, CF8M+PTFE, Bronze, Ductile Iron, Carbon Steel, Stainless Steel**
Stem	**Stainless Steel 416, 316, 304, Aluminum Bronze**	Seat	**EPDM, NBR, PTFE, VITON, HYPALON, Neoprene, Silicone**
Bushing	**PTFE**	O ring	**NBR, EPDM**

FEATURES

- Aluminium bronze body material (C95400/C95800) for saltwater and corrosion resistance
- Multiple seat material options: EPDM, NBR, PTFE, Viton, Hypalon, Neoprene, Silicone
- Multiple stem material options: SS 416, SS 316, SS 304, Aluminium Bronze
- PTFE bushings
- ISO 5211 top flange for actuator mounting
- Compatible with ANSI Class 150-300 and PN10/16 flanges
- Wafer and lug body styles visible
- Rubber-lined seat/seal visible in product photos
- Lever operated (hand lever with position lock visible on smaller sizes)
- Gear operated (worm gearbox visible on larger sizes)
- Triple-offset / double-offset disc design visible on larger DN valves
- Flanged drilling compatible with PN10, PN16, ANSI 150, JIS 10K

OPTIONS & NOTES

• Dimensions table referenced in the page (heading 'Dimensions:(mm)') but no tabular data was present in the HTML.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Aluminum Wafer butterfly valve

REF **EFC-246** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN1000**
Pressure	**PN10 to Class 300**
End connection	**wafer (DIN2501) / wafer (ANSI) / wafer (BS4504) / wafer (JIS)**
Face-to-face	**API609, DIN3202, ISO5752, BS5155**
Temperature	**-30°C to 135°C**
Media	**water, air, steam, oil, chemicals, acids, salts**

ACTUATION

- manual lever — Aluminium handle (standard) — ISO5211
- worm gear — ISO5211
- pneumatic actuator — ISO5211

STANDARDS

Design	**API609, ANSI16.34, JISB2064, GB/T12238**
Test	**API598**

APPLICATIONS

- water supply
- HVAC
- industrial piping systems

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	**Aluminium, Cast Iron, Ductile Iron, Carbon Steel, Stainless Steel**	Disc	**Ductile Iron+Ni, CF8, CF8+PTFE, CF8M, CF8M+PTFE, Bronze**
Stem	**SS416, SS316, SS304**	Seat	**EPDM, NBR, PTFE, VITON, HYPALON, Neoprene, Silicone**
Bushing	**PTFE, Bronze**	O ring	**NBR, EPDM**
Handle	**Aluminium**		

FEATURES

- Lightweight aluminium body construction
- Wafer-type design for compact installation between flanges
- ISO5211 top flange for actuator mounting
- Multiple seat material options for chemical compatibility
- Multiple disc material options including PTFE-lined variants
- Wafer-type butterfly valve with lever operator
- DN100 size marking visible on stem/neck
- Valve body appears to be polypropylene or similar polymer (white/light grey)
- Stainless steel disc
- Black elastomeric seat/liner
- Grey cast lever handle with white position indicator
- Stainless steel stem fasteners
- Lug-style body with through-bolt holes

OPTIONS & NOTES

• Seat options listed in product header include Silicone and Hypalon which do not appear in the main materials table

• Size stated as DN50–DN1200 in the product header but DN50–DN1000 in the specification table

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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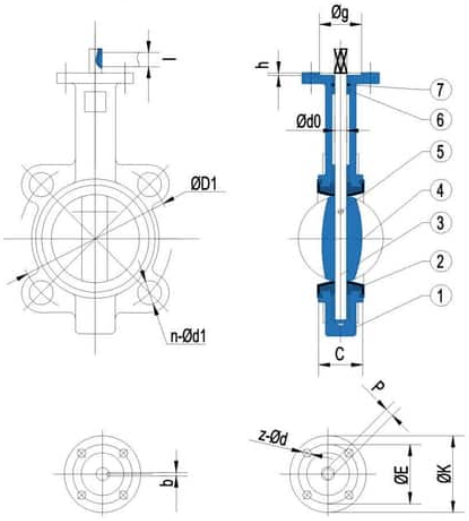
BUTTERFLY VALVE

Cast Iron Body NBR Seat Wafer Butterfly Valve Without Pin

REF **EFC-249** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN1000**
Pressure	**PN10 to PN16**
End connection	**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)**
Face-to-face	**API 609, ISO 5752 series 20, BS 5155**
Temperature	**null°C to 150°C**
Media	**Fresh water, Sewage, Sea water, Air, Vapour, Food, Medicine, Oils, Acids, Alkalis**



ACTUATION

- manual lever
- worm gear
- pneumatic
- electric

STANDARDS

Design	**MSS SP-67, API 609, EN 593**
Test	**API 598**

APPLICATIONS

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

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	**Cast Iron, Ductile Iron, Carbon Steel, Stainless Steel, Al-Bronze**	Disc	**Al-Bronze, CF8M, Ductile Iron, WCB, Ductile Iron+Ni, CF8, CF8+PTFE, CF8M+PTFE, Bronze**
Seat	**EPDM, NBR, PTFE, Viton, Neoprene, Hypalon, Silicone, Buna**	Stem	**Stainless Steel 416, Stainless Steel 316, Stainless Steel 304, Carbon Steel, Stainless Steel314**
Bushing	**PTFE, Lubricating**	O ring	**NBR, EPDM, PEFE, Buna, Hypalon**
Pin	**SS316, SS416, SS304**		

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

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BUTTERFLY VALVE

Cast Iron Lug Butterfly Valve

REF **EFC-252** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN600**
Pressure	**PN10 to Class 300**
End connection	**lug (DIN2501) / lug (ANSI) / lug (BS4504) / lug (JIS)**
Face-to-face	**API609, DIN3202, ISO5752, BS5155**
Temperature	**-30°C to 135°C**
Media	**water, chemicals, air, steam, oil, acids, salts**

STANDARDS

Design	**API609, ANSI16.34, JISB2064, GB T12238**
Test	**API598**

APPLICATIONS

- Water supply
- Drainage systems
- Industrial piping
- Municipal systems
- Building services
- Water treatment systems

SIZE		C	d0	K	E	z-d	g	h	p	bXl	PN16		PN10		ANSI 150		JIS 10K	
in	DN										D1	n-M	D1	n-M	D1	n-M	D1	n-M
2	50	42	12.6	77	50	4-7	35	3	9	3X16	125	4-M16	125	4-M16	120.5	4-5/8"	120	4-M16
2.5	65	44.7	12.6	77	50	4-7	35	3	9	3X16	145	4-M16	145	4-M16	139.5	4-5/8"	140	4-M16
3	80	45.2	12.6	77	50	4-7	35	3	9	3X16	160	8-M16	160	8-M16	152.5	4-5/8"	150	4-M16
4	100	52.1	15.77	90	70	4-9	55	3	11	5X19	180	8-M16	180	8-M16	190.5	8-5/8"	175	8-M16
5	125	54.4	18.92	90	70	4-9	55	3	14	5X19	210	8-M16	210	8-M16	216	8-3/4"	210	8-M20
6	150	55.8	18.92	90	70	4-9	55	3	14	5X19	240	8-M20	240	8-M20	241.5	8-3/4"	240	8-M20
8	200	60.6	22.1	125	102	4-12	70	3.5	17	5X19	295	12-M20	295	8-M20	298.5	8-3/4"	290	12-M20
10	250	65.6	28.45	125	102	4-12	70	3.5	22	8X28	355	12-M24	350	12-M20	362	12-7/8"	355	12-M22
12	300	76.9	31.6	125	102	4-12	70	3. 5	22	8X28	410	12-M24	400	12-M20	432	12-7/8"	400	16-M22
14	350	76.9	31.6	125	102	4-12	70	3. 5	22	8X28	470	16-M24	460	16-M20	476	12-1"	445	16-M22
16	400	86.5	33.15	175	140	4-18	100	4	24	10X50	525	20-M27	515	16-M24	540	16-1"	510	16-M24
18	450	105.6	38	175	140	4-18	100	4	27	10X50	585	20-M27	565	20-M24	578	16-11/8"	565	20-M24
20	500	127	41.15	175	140	4-18	100	4	32	10X50	650	20-M30	620	20-M24	635	20-11/8"	620	20-M24
24	600	152	50.65	210	165	4-23	130	5	36	2-16X60	770	20-M33	725	20-M27	749.5	20-11/4"	730	24-M30
28	700	163	55	300	254	8-18	200	5. 5		2-18X63	840	24-M33	840	24-M27	863.5	24-11/4"	840	24-M30
30	750	165	55	300	254	8-18	200	5. 5		2-18X63	914	24-M36	914	24-M30	914.5	28-11/4"	900	24-M30
32	800	188	55	300	254	8-18	200	5. 5		2-18X63	950	24-M36	950	24-M30	978	28-11/2"	950	28-M30
36	900	203	75	300	254	8-18	200	5. 5		2-20X100	1050	28-M36	1050	28-M30	1086	32-11/2"	1050	28-M30
40	1000	216	85	300	254	8-18	200	5. 5		2-20X100	1170	28-M39	1160	28-M33	1200	36-11/2"	1160	28-M36
42	1050	251	95	300	254	8-18	200	5. 5		2-25X140	1257	32-M39	1257	32-M36	1257.5	36-11/2"	1270	28-M36
48	1200	276	105	350	298	8-23	230	5. 5		2-28X140	1390	32-M45	1380	32-M39	1422. 5	36-11/2"	1380	32-M36

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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MATERIALS

Body	**Cast Iron, Ductile Iron, Carbon Steel, Stainless Steel**	Disc	**Ductile Iron, Carbon Steel, Stainless Steel**
Stem	**Stainless Steel 416, Stainless Steel 316, Stainless Steel 304**	Seat	**EPDM, NBR, PTFE, VITON, HYPALON**
O ring	**EPDM, NBR**	Bushing	**PTFE, BRONZE**

FEATURES

- Lug-type body allowing end-of-line service
- Multiple body material options: cast iron, ductile iron, carbon steel, stainless steel
- Multiple seat elastomer options: EPDM, NBR, PTFE, Viton, Hypalon
- Stainless steel stem in grades 304, 316, or 416
- ISO5211 top flange for actuator mounting
- Pressure ratings to PN16 and Class 300
- Lug-type body configuration
- Lever operated with spring-return locking handle
- Rubber-lined seat/liner visible within body bore
- Stainless steel disc marked CF8
- Stem marked CI 4 (cast iron grade 4)
- Body marked EN1092 (flange standard)
- 150LB pressure class marking visible on body
- Disc marked CF8 (ASTM equivalent of 316 stainless steel)
- Part numbered sectional diagram with 7 called-out components
- Flanged bolt patterns for PN10, PN16, ANSI 150 and JIS 10K

OPTIONS & NOTES

• butterfly valve manufacturers

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Cast Iron Wafer Butterfly Valve with Plate Spray Painted

REF **EFC-254** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN1200**
Pressure	**PN10 to PN16**
End connection	**wafer (DIN2501) / wafer (ANSI) / wafer (BS4504) / wafer (JIS)**
Face-to-face	**API609, DIN3202, ISO5752, BS5155**
Temperature	**-30°C to 135°C**
Media	**water, chemicals, air, steam, oil, acids, salts**

STANDARDS

Design	**API609, ANSI16.34, JISB2064, GB T12238**
Test	**API598**

COATINGS & LINING

- spray painted (valve plate)

APPLICATIONS

- Municipal water supply and distribution systems
- Irrigation and agricultural water pipelines
- HVAC systems
- Cooling water loops in industrial facilities
- Wastewater treatment plants
- Fire protection and sprinkler systems

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	**Cast Iron, Ductile Iron, Carbon Steel, Stainless Steel**	Disc	**Ductile Iron+Ni, CF8, CF8+PTFE, CF8M, CF8M+PTFE, Bronze**
Stem	**Stainless Steel 416, Stainless Steel 316, Stainless Steel 304**	Seat	**EPDM, NBR, PTFE, VITON, HYPALON, Neoprene, Silicone**
Bushing	**PTFE, Bronze**	O ring	**NBR, EPDM**

FEATURES

- Compact wafer-style body for installation between flanges
- Spray-painted valve plate for corrosion resistance
- ISO5211 top flange for actuator mounting
- Multiple body, disc, seat, and stem material options available
- PTFE/Bronze bushing options
- Wafer-style butterfly valve with gearbox actuator
- Rubber-lined body seat
- Stem with top flange - ISO 5211 mounting pattern (inferred from z-Ød bolt pattern on actuator flange)
- Lugged/wafer body with through-bolt holes (n-Ød1) for multiple flange standards: PN10, PN16, ANSI 150, JIS 10K
- Size range DN50 (2") to DN1200 (48")

OPTIONS & NOTES

• Customisation options available for special sizes, materials, coatings, or actuation types — contact supplier.

• Products hold up to 10 international authoritative certification certificates.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Cast Iron Wafer Butterfly Valve

REF **EFC-255** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN1000**
Pressure	**PN10 to Class 300**
End connection	**wafer (DIN2501) / wafer (ANSI) / wafer (BS4504) / wafer (JIS)**
Face-to-face	**API609, DIN3202, ISO5752, BS5155**
Temperature	**-30°C to 135°C**
Media	**Chemicals, air, water, steam, oil, acids, salts**

STANDARDS

Design	**API609, ANSI16.34, JISB2064, GB T12238**
Test	**API598**

APPLICATIONS

- Water supply
- HVAC systems
- Industrial circulation lines
- Wastewater treatment
- Municipal water systems

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	**CI, DI, CS, SS**	Seat	**EPDM, NBR, PTFE, VITON, HYPALON**
Shaft	**SS416, SS316, SS304, CS**	Disc	**CF8, CF8M, DI+Ni, SS304**
Bushing	**PTFE, Bronze**	O ring	**NBR, EPDM**
Pin	**SS**	Stem	**SS416, SS316, SS304, CS**

FEATURES

- Compact wafer-type body for installation between flanges
- Low operating torque
- Tight sealing mechanism for shut-off and flow regulation
- Top flange to ISO5211 for actuator mounting
- Multiple body, seat, disc, and stem material options
- Wafer-style butterfly valve with lever-lock handle
- Rubber-lined body with stainless steel disc
- Bottom shaft stub visible (double-stub shaft configuration)
- Bolt-through lug pattern with 4-bolt configuration on smaller sizes
- Parts labelled 1-7 in sectional drawing: (1) bottom shaft, (2) body/seat liner, (3) disc, (4) body, (5) upper shaft, (6) packing/gland, (7) top plate/actuator mounting
- Dimension references: C = face-to-face, d0 = shaft diameter, K = ISO 5211 actuator bolt circle, E = actuator bolt hole spacing, z-d = actuator bolt count and diameter, g = actuator flange diameter, h = top flange height, p = bottom shaft stub length, D1 = flange bolt circle diameter, n-Ød1 = bolt count and hole diameter
- Flange drilling to PN10, PN16, ANSI 150, JIS 10K

OPTIONS & NOTES

• Can be customised to meet specific project requirements

• Header listing states DN50–DN1200; specification table states DN50–DN1000

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Desulfuration Wafer Butterfly Valve

REF **EFC-257** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN1200**
End connection	**wafer**
Media	**flue gas desulfurisation slurry, waste-water, corrosive media, abrasive slurries, H_2SO_4, HCl, Cl$_2$**

ACTUATION

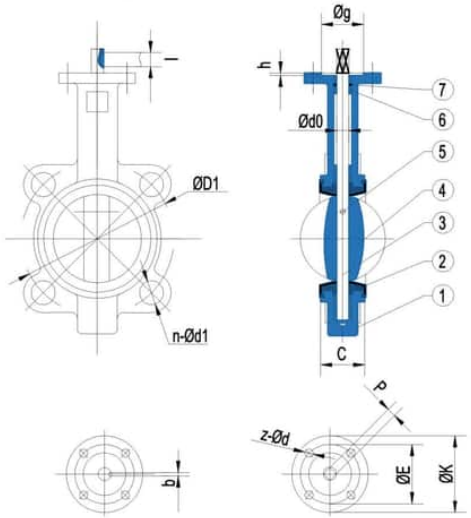
- customisable actuation options — on request

STANDARDS

Test	**API 598**

APPLICATIONS

- Flue gas desulfurisation (FGD) systems
- Wastewater treatment
- Corrosive media handling
- Abrasive slurry service



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	**CI, DI, WCB, SS**	Seat	**EPDM**
Shaft	**SS416, SS316, SS304, 431, 17-4PH**	Disc	**DI, ALB, Rubber lined Disc, 1.2501, CF8M, 1.4529, CF8, Hastelloy, 2507, 1.4469, C207**
Pin	**Stainless Steel**	Bushing	**PTFE, Bronze**
O ring	**EPDM**	Stem	**SS416, SS316, SS304**

FEATURES

- Resilient seat design with bubble-tight seal
- Abrasion-resistant disc edge for slurry applications
- Compact and lightweight construction
- Pressure test conforms to API 598
- Can regulate or isolate pipeline flow
- Available with special linings, extended shafts, and actuation options
- Available in multiple body, disc, and stem material combinations
- Wafer-style butterfly valve body with lever operator
- Sectional diagram shows 7 numbered component parts
- Dimensional parameters: C (face-to-face), d0 (bore/shaft diameter), K (actuator bolt circle), E (actuator bolt circle inner), z-d (flange bolt pattern), g (ISO top flange diameter), h (top flange height), p (bottom shaft diameter), D1 (flange bolt circle diameter), n-Ød1 (number and diameter of flange bolts)
- Flange drilling compatible with PN10, PN16, ANSI 150, and JIS 10K standards
- Sizes available from DN50 (2 inch) to DN1200 (48 inch)

OPTIONS & NOTES

• Customizable Configurations – Special linings, extended shafts, and actuation options

• Our products hold up to 10 international authoritative certification certificates

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Double Eccentric Butterfly Valve

REF **EFC-260** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**2" to 48"**
Pressure	**125lbs to 150lbs**
End connection	**flanged (DIN) / flanged (BS) / flanged (ISO) / flanged (ANSI) / flanged (AS) / flanged (JIS)**
Face-to-face	**API 609, BS 5155, DIN 3202, ISO 5752**
Media	**water, sewage, food and beverage media, chemical / petrochemical fluids, process fluids, paper and pulp media**

ACTUATION

- worm gear actuator — ISO 5211

COATINGS & LINING

- Epoxy coated (retainer)

APPLICATIONS

- HVAC
- Water supply
- Sewage / wastewater treatment
- Food and beverage
- Chemical / petrochemical processing
- Power and utilities
- Paper and pulp
- Shipbuilding
- Municipal water networks
- Industrial pipelines

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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MATERIALS

Body	**GGG50, Cast Iron**	Bushing	**BRONZE, EPDM**
Bottom shaft	**SS420**	Packing	**EPDM**
Retainer	**CS EPOXY COATED**	Taper pin	**SS416**
Disc	**GGG50**	Disc sealing	**EPDM, NBR**
Stuffing flange	**GGG50**	Support	**CS**
Top shaft	**SS420**	Cover	**GGG50**
Fasteners	**A2-70**	Seat	**EPDM**
Stem	**SS420**		

FEATURES

- Double eccentric (double offset) disc design
- Offset disc minimises disc-to-seat contact during operation, reducing wear and operating torque
- Resilient seated construction
- Suitable for high-pressure and large-diameter pipelines
- Tight shut-off under fluctuating flow conditions
- Double-flanged body with flange drilling to PN10, PN16, JIS 10K and ANSI 150 standards
- Triple-offset / eccentric disc configuration visible on sectional diagram
- Gearbox (worm gear) actuation option
- Electric actuator with manual override handwheel option
- Large-diameter flanged face with reinforced disc (cross-ribbed disc on large sizes)
- White/PTFE-lined seat visible on electric-actuated variants
- Rubber-lined seat visible on electric-actuated variants
- Pedestal/foot support on large-bore valves
- Part numbers visible in sectional cross-section: parts labelled 1-12 (body, disc, shaft, seat, seals, gland, etc.)

OPTIONS & NOTES

• Available in a range of materials, flange standards, and actuation options to suit various project needs.

• Dimensions table referenced in HTML but no tabulated data was present in the page.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Double Flanged Butterfly Valve

REF **EFC-261** ISSUED **08 Jul 2026**

SPECIFICATIONS

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

ACTUATION

- manual lever
- worm gear
- pneumatic
- electric

STANDARDS

Design	**MSS SP-67, API 609, EN 593**
Test	**API 598**

APPLICATIONS

- Water treatment plants
- Pumping stations
- HVAC systems
- Industrial fluid control
- Municipal water systems

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	**Carbon Steel, Stainless Steel, Cast Iron, Ductile Iron, Al-Bronze**	Disc	**Carbon Steel, Stainless Steel, Cast Iron, Ductile Iron, Al-Bronze**
Seat	**EPDM, NBR, VITON, PTFE**	Stem	**Carbon Steel, Stainless Steel314, Stainless Steel316**
Bushing	**PTFE, Lubricating**	O ring	**EPDM, PEFE, Buna, NBR, Hypalon**
Pin	**SS316, SS416, SS304**		

FEATURES

- Full-face flanges on both ends
- Centred disc with streamlined flow path minimising pressure loss
- 90-degree on/off operation
- Compact construction
- Minimised operating torque
- Wide range of body, disc, seat, and stem material options
- Part callouts on sectional drawing: 1 - body, 2 - lower stem/bottom pin, 3 - disc, 4 - seat/liner, 5 - upper stem, 6 - stem seal/packing, 7 - gearbox/actuator mounting bracket
- Flanged (double-flanged) end connections
- Gear-operated variant shown (worm gearbox with handwheel)
- Lever-operated variant shown
- Dimension table covers DN50 - DN1200 (2" - 48") with PN10, PN16, and ANSI 150 flange drilling patterns

OPTIONS & NOTES

• Customisable configurations available including actuation types, sealing materials, and international flange standards

• Dimensions table referenced in HTML ('Dimensions:(mm)') but no data was present in the page

PRESSURE-TEMPERATURE RATING

CLASS	TEMPERATURE	MAX PRESSURE
—	150°C	1.6 MPa

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Ductile Iron Disc EPDM Seat Lug Butterfly Valve with Gear Operator

REF **EFC-265** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN1200**
Pressure	**PN10 to PN16**
End connection	**lug (DIN2501) / lug (ANSI) / lug (BS4504) / lug (JIS)**
Face-to-face	**API609, DIN3202, ISO5752, BS5155**
Temperature	**-30°C to 135°C**
Media	**Chemicals, air, water, steam, oil, acids, salts**

ACTUATION

• gear operator — Manual gear operator for reduced operating torque at medium and large diameters — ISO5211 top flange

STANDARDS

Design	**API609, ANSI16.34, JISB2064, GB T12238**
Test	**API598**

APPLICATIONS

- Water supply networks
- HVAC systems
- Wastewater treatment pipelines
- Building services
- General industrial pipeline systems

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	**CI, DI, CS, SS**	Disc	**CF8, CF8M, DI+Ni, SS304**
Seat	**EPDM, PTFE, VITON, NBR, Hypalon**	Shaft	**SS416, SS316, SS304, CS**
Bushing	**PTFE, Bronze**	O ring	**NBR, EPDM**
Pin	**SS**	Stem	**SS416, SS316, SS304, CS**

FEATURES

- Lug-type body allows secure bolting and supports end-of-line service
- Ductile iron disc provides mechanical strength
- EPDM seat provides sealing for clean water, wastewater, and non-aggressive media
- Gear operator enables smooth and controlled manual operation
- ISO5211 top flange for actuator mounting
- Lug-type butterfly valve body
- Gearbox operator with handwheel
- Rubber-lined body seat/liner
- Stainless steel disc
- Lugged body with threaded bolt inserts (red-capped)
- Dual-flange drilling pattern compatible with PN10, PN16, ANSI 150, JIS 10K

OPTIONS & NOTES

• Our products hold up to 10 international authoritative certification certificates, ensuring compliance with global standards.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Ductile Iron Disc EPDM Seat Lug Butterfly Valve with Handle

REF **EFC-266** ISSUED **08 Jul 2026**

SPECIFICATIONS

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

ACTUATION

- manual handle — ISO 5211 top flange

STANDARDS

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

APPLICATIONS

- Water supply networks
- HVAC systems
- Building services
- General industrial pipeline systems
- On-off isolation service
- End-of-line service

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	**CI, DI, CS, SS**	Seat	**EPDM, PTFE, VITON, NBR, Hypalon**
Shaft	**SS416, SS316, SS304, CS**	Disc	**CF8, CF8M, DI+Ni, SS304**
Pin	**SS**	Bushing	**PTFE, Bronze**
O ring	**NBR, EPDM**	Stem	**SS416, SS316, SS304, CS**

FEATURES

- Lug-type body allows secure bolting to pipeline
- Supports end-of-line service
- Manual handle operation for quick valve control
- Ductile iron disc provides mechanical strength
- EPDM seat provides sealing for clean water and non-aggressive media
- Lug-type body configuration with threaded inserts
- Lever handle actuator with locking positions
- Rubber-lined body seat
- Stainless steel disc
- Part 1: bottom stem/shaft bearing
- Part 2: body/liner assembly
- Part 3: disc
- Part 4: seat/liner
- Part 5: top stem
- Part 6: stem seal/packing
- Part 7: top plate/bracket
- Dimensional reference parameters: C (face-to-face), d0 (stem diameter), K (bolt circle offset), E (bolt circle), z-d (number and diameter of bolts), g (stem top plate diameter), h (top plate height), p (stem projection)
- Flange drilling compatible with PN10, PN16, ANSI 150, JIS 10K standards
- Size range: DN50 (2") to DN1200 (48")

OPTIONS & NOTES

• Our products hold up to 10 international authoritative certification certificates, ensuring compliance with global standards.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Ductile Iron Disc EPDM Seat Wafer Butterfly Valve with Gear Operator

REF **EFC-267** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN1000**
Pressure	**PN10 to 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, chemicals, air, steam, oil, acids, salts**

ACTUATION

• gear operator — For medium and large diameters where manual torque is high — ISO 5211 top flange

STANDARDS

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

APPLICATIONS

- Water supply lines
- Wastewater networks
- Cooling systems
- Building services pipelines
- HVAC

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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MATERIALS

Body	**CI, DI, CS, SS**	Disc	**CF8, CF8M, DI+Ni, SS304**
Seat	**EPDM, PTFE, VITON, NBR, Hypalon, Neoprene, Silicone**	Shaft	**SS416, 316, 304, CS**
Pin	**SS**	Bushing	**PTFE, Bronze**
O ring	**NBR, EPDM**	Stem	**SS416, SS316, SS304, CS**

FEATURES

- Wafer-type body installed between flanges to save space and reduce system weight
- Ductile iron disc provides structural strength
- Gear operator enables smooth and controlled opening and closing
- Multiple body material options: cast iron, ductile iron, carbon steel, stainless steel
- Multiple seat material options: EPDM, NBR, PTFE, Viton, Hypalon
- Wafer-style body with gearbox (worm gear) actuator
- Concentric disc design
- Rubber-lined body seat
- Stainless steel disc (marked 'DI' and grade references visible on disc)
- Dual-flange bolt pattern compatible with PN10, PN16, ANSI 150, and JIS 10K flanges
- ISO 5211 top flange for actuator mounting
- Upper and lower stem/shaft arrangement (items 1-7 visible in sectional diagram)

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Ductile Iron Disc EPDM Seat Wafer Butterfly Valve with Handle

REF **EFC-268** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN1200**
Pressure	**PN10 to 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, wastewater, chemicals, air, steam, oil, acids, salts**

ACTUATION

- manual handle

STANDARDS

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

APPLICATIONS

- Water supply networks
- HVAC systems
- Building services
- General industrial pipeline systems
- On-off isolation service

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	**CI, DI, CS, SS**	Seat	**EPDM, PTFE, VITON, NBR, Hypalon**
Stem	**SS416, SS316, SS304, CS**	Disc	**CF8, CF8M, DI+Ni, SS304**
Pin	**SS**	Bushing	**PTFE, Bronze**
O ring	**NBR, EPDM**		

FEATURES

- Compact wafer-type body for installation between flanges
- Manual handle for quick open/close operation
- Ductile iron disc for mechanical strength
- EPDM seat for sealing in clean water and non-aggressive media
- Top flange to ISO 5211 for actuator mounting
- Multiple body, seat, and stem material options available
- Wafer-style body with lug ears for bolting between flanges
- Lever handle operator with notched position lock
- Rubber-lined body/seat
- Stainless steel disc
- Two-piece stem design
- ISO 5211 top flange for actuator mounting
- Dimensions referenced to PN10, PN16, ANSI 150 and JIS 10K flange drillings

OPTIONS & NOTES

• Seat options listed include: EPDM, NBR, PTFE, Viton, Neoprene, Hypalon, Silicone (from short description field)

• Products hold up to 10 international authoritative certification certificates

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Ductile Iron Disc PTFE Seat Lug Butterfly Valve with Handle

REF **EFC-269** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN1200**
Pressure	**PN10 to PN16**
End connection	**lug (DIN2501) / lug (ANSI) / lug (BS4504) / lug (JIS)**
Face-to-face	**API609, DIN3202, ISO5752, BS5155**
Temperature	**-30°C to 135°C**
Media	**chemicals, air, water, steam, oil, acids, salts**

ACTUATION

• manual lever — Handle — ISO5211 top flange

STANDARDS

Design	**API609, ANSI16.34, JISB2064, GB T12238**
Test	**API598**

APPLICATIONS

• Water treatment systems
• Cooling water networks
• General industrial isolation duty
• End-of-line service

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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MATERIALS

Body	**CI, DI, CS, SS**	Seat	**EPDM, PTFE, VITON, NBR, Hypalon**
Disc	**CF8, CF8M, DI+Ni, SS304**	Stem	**SS416, SS316, SS304, CS**
Bushing	**PTFE, Bronze**	O ring	**NBR, EPDM**
Pin	**SS**		

FEATURES

- Lug-type body allows end-of-line service
- PTFE seat provides improved chemical compatibility compared with standard rubber seats
- Ductile iron disc
- Manual handle operation for on-off isolation
- Top flange to ISO5211 for actuator mounting
- Lug-type body configuration
- PTFE seat/liner (white)
- Lever operated with notched locking plate
- Threaded lug bolt holes around body periphery
- Two-piece stem design visible in sectional view
- Components numbered 1-7 in sectional diagram

OPTIONS & NOTES

• Our products hold up to 10 international authoritative certification certificates, ensuring compliance with global standards.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Ductile Iron Lug Butterfly Valve

REF **EFC-271** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN1200**
End connection	**lug**
Media	**water, wastewater**

APPLICATIONS

- Water distribution
- Wastewater treatment
- Industrial piping systems
- Municipal infrastructure

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	**CI, DI, CS, SS**	Seat	**EPDM, PTFE, VITON, NBR, Hypalon, Neoprene, Silicone**
Shaft	**SS416, SS316, SS304, CS**	Disc	**CF8, CF8M, DI+Ni, SS304, CF8+PTFE, CF8M+PTFE, Bronze**
Pin	**SS**	Bushing	**PTFE, Bronze**
O ring	**NBR, EPDM**	Stem	**SS416, SS316, SS304, CS**

FEATURES

- Simple, compact structure with light weight
- 90° rotation for rapid open/close operation
- Eccentric structure reduces seal friction and extends service life
- Zero-leakage shut-off
- Easy assembly and disassembly

OPTIONS & NOTES

• Dimensions table referenced in HTML but not populated with data

• Products hold up to 10 international authoritative certification certificates

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Ductile Iron Sluice Valve

REF **EFC-273** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN1200**
Pressure	**PN10 to PN16**
End connection	**flanged (DIN2533) / flanged (ANSI 125/150) / flanged (JIS10K)**
Face-to-face	**DIN3202 F4/F5, BS5163, ANSI B16.10**
Temperature	**-10°C to 120°C**
Media	**chemicals, air, water, steam, oil, acids, salts**

ACTUATION

- manual
- electric actuator
- gearbox

STANDARDS

Design	**DIN3352 F4/F5, MSS SP-70, AWWA C509/515, BS5163**
Test	**DIN3230, BS6755**

COATINGS & LINING

- epoxy coating (internal and external)

APPLICATIONS

- municipal water distribution
- wastewater pipelines
- irrigation pipeline systems
- fire protection lines
- agricultural applications
- underground installation
- infrastructure projects

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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MATERIALS

Body	**Cast Iron, Ductile Iron, ductile iron (DI)**	Wedge	**Cast Iron, Ductile Iron**
Stem	**Stainless steel, Brass, SS416**	Sealing ring	**EPDM, NBR**
O ring	**EPDM, NBR**	Body seat ring	**brass**
Disc	**ductile iron (DI)**	Disc seat ring	**brass**
Bolt	**carbon steel (CS)**	Bonnet	**ductile iron (DI)**
Seat	**EPDM, NBR**		

FEATURES

- non-rising stem design
- resilient rubber-seated wedge for tight shutoff under fluctuating flow conditions
- compact structure for installation in underground or space-limited environments
- epoxy coating for internal and external corrosion protection
- supports manual, electric, and gearbox actuation
- Flanged ends
- Rubber-seated disc (resilient seat)
- Gear operator fitted
- Size range DN600 - DN800 covered by this drawing
- PN10 pressure class

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Ductile Iron Wafer Butterfly Valve

REF **EFC-274** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN1000**
Pressure	**PN10 to 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, chemicals, air, steam, oil, acids, salts**

ACTUATION

- manual lever — ISO 5211
- worm gear — ISO 5211
- pneumatic actuator — ISO 5211

STANDARDS

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

APPLICATIONS

- water treatment
- irrigation
- HVAC systems
- industrial fluid distribution
- municipal water systems

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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MATERIALS

Body	**CI, DI, CS, SS**	Disc	**CF8, CF8M, DI+Ni, SS304**
Stem	**SS416, SS316, SS304, CS**	Seat	**EPDM, NBR, PTFE, VITON, HYPALON**
O ring	**NBR, EPDM**	Bushing	**PTFE, Bronze**
Pin	**SS**		

FEATURES

- Wafer body fits between standard flanges
- Low torque operation
- Tight shut-off
- Compatible with manual and automated actuation
- Multiple body, disc, seat, and stem material options available
- ISO 5211 top flange for actuator mounting

OPTIONS & NOTES

• Custom configurations available to fit specific project needs

• Products hold up to 10 international certification certificates

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Electric Actuator Lug Butterfly Valve

REF **EFC-275** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN1000**
Pressure	**1.0 to 1.6**
End connection	**lug (ANSI B 16.1) / lug (EN 1092) / lug (AS 2129)**
Face-to-face	**API 609, ISO 5752 series 20, BS 5155**
Temperature	**-45°C to 150°C**
Media	**Fresh water, Sewage, Sea water, Air, Vapour, Food, Medicine, Oils, Acids, Alkalis**

ACTUATION

- electric actuator — ISO 5211
- manual lever — ISO 5211
- worm gear — ISO 5211
- pneumatic — ISO 5211

STANDARDS

Design	**MSS SP-67, API 609, EN 593**
Test	**API 598**

APPLICATIONS

- Water treatment
- HVAC
- Chemical processing
- Power generation

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	**Cast Iron, Ductile Iron, WCB, ALB, CF8, CF8M**	Disc	**Cast Iron, Ductile Iron, ALB, CF8M, CF8, WCB**
Seat	**EPDM, PTFE, Buna, NBR, Hypalon, Neoprene, Viton, Silicon**	Stem	**SS416, SS304, SS316, 431**
Bushing	**PTFE, Lubricating**	O ring	**EPDM, PTFE, Buna, NBR, Hypalon**
Pin	**SS316, SS416, SS304**		

FEATURES

- Compact and lightweight construction
- 90-degree quarter-turn on/off operation
- Low operating torque
- Flow characteristic tending toward linear
- Wide material selection for compatibility with various media
- Lug-type body for dead-end service
- Lug-type body configuration
- Electric actuator with manual override handwheel
- 7-part sectional construction: body (1), seat/liner (2), disc (3), shaft lower (4), shaft upper (5), stem seal (6), actuator bracket/top flange (7)
- Drilling pattern compatible with PN10, PN16, ANSI 150 and JIS 10K flanges

OPTIONS & NOTES

• Dimensions table referenced in page (heading 'Dimensions:(mm)') but no data provided

• Products stated to hold up to 10 international certification certificates; specific certificates not enumerated

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Electric Actuator Wafer Butterfly Valve

REF **EFC-276** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN1000**
Pressure	**PN16**
End connection	**wafer (DIN / BS / UNI / ISO / ANSI / AS / JIS)**
Face-to-face	**API 609, ISO 5752 series 20, BS 5155, DIN 3202**
Temperature	**null°C to 150°C**
Media	**Fresh water, Sewage, Sea water, Air, Vapour, Food, Medicine, Oils, Acids, Alkalis**

ACTUATION

- electric actuator — ISO 5211
- manual lever
- worm gear
- pneumatic

STANDARDS

Design	**MSS SP-67, API 609, EN 593**
Test	**API 598**

APPLICATIONS

- HVAC
- Water supply and sewage
- Food and beverage
- Chemical / petrochemical / processing
- Power and utilities
- Paper and pulp
- Ship building
- Municipal water systems
- Building automation

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

• Wastewater treatment

MATERIALS

Body	**Cast Iron, Ductile Iron, Carbon Steel, Stainless Steel, Al-Bronze**	Disc	**Al-Bronze, CF8M, Ductile Iron, WCB, CF8, DI+Ni, CF8+PTFE, CF8M+PTFE, Bronze**
Seat	**EPDM, NBR, PTFE, Viton, Neoprene, Hypalon, Silicone, Buna**	Stem	**SS416, SS316, SS304, Carbon Steel**
Bushing	**PTFE, Bronze, Lubricating**	O ring	**NBR, EPDM, Buna, Hypalon**
Pin	**SS316, SS416, SS304**		

FEATURES

- Compact size and low weight for easy installation and maintenance
- Simple construction with 90-degree on/off operation
- Low operating torque
- Flow characteristic tending to linear, providing good regulation performance
- Rated for tens of thousands of opening/closing cycles
- Wide selection of body and seat materials for compatibility with various media
- Wafer body for installation between standard flanges
- Wafer-style body (images 0-1) and lug-style body (images 2-3) variants visible
- Electric actuator mounted on valve
- Rubber-lined body with stainless steel disc
- Two-piece shaft design visible in sectional diagram
- 7 numbered components visible in sectional diagram (parts 1-7)
- Flanged drilling dimensions provided for PN16, PN10, ANSI 150 and JIS 10K standards

OPTIONS & NOTES

• Available in various sizes and voltage configurations

• Products hold up to 10 international authoritative certification certificates

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Extension Shaft Wafer Butterfly Valve

REF **EFC-277** ISSUED **08 Jul 2026**

SPECIFICATIONS

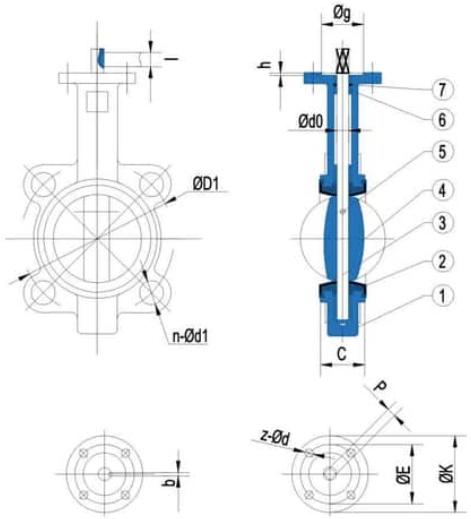
Size	**DN50 to DN1000**
Pressure	**PN10 to PN16**
End connection	**wafer (DIN 2501) / wafer (ANSI) / wafer (BS 4504) / wafer (JIS)**
Face-to-face	**API 609, DIN 3202, ISO 5752, BS 5155**
Temperature	**-30°C to 135°C**
Media	**chemicals, air, water, steam, oil, acids, salts**

STANDARDS

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

APPLICATIONS

- Buried pipeline systems
- Insulated piping
- Hard-to-access installations



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	**Cast Iron, Ductile Iron, Carbon Steel, Stainless Steel**	Disc	**Ductile Iron, Ductile Iron+Ni, Carbon Steel, CF8, CF8+PTFE, CF8M, CF8M+PTFE, Bronze**
Stem	**Stainless Steel 416, Stainless Steel 316, Stainless Steel 304**	Seat	**EPDM, NBR, PTFE, VITON, HYPALON, Neoprene, Silicone**
O ring	**NBR, EPDM**	Bushing	**PTFE, Bronze**
Shaft	**Stainless Steel 416, Stainless Steel 316, Stainless Steel 304**		

FEATURES

- Extension shaft allows valve operation without excavation of buried pipelines
- Thermal break option to prevent heat transfer in insulated systems
- Compact wafer-style body
- Custom shaft lengths, materials, and accessories available on request
- Wafer-style butterfly valve with lever handle
- Rubber-lined body bore (seat integral with body)
- Disc visible in closed position
- Stem with packing gland arrangement
- Flanged drilling patterns available for PN10, PN16, ANSI 150 and JIS 10K

OPTIONS & NOTES

• Global Certifications – WRAS, NSF/ANSI 61, DVGW available

• Custom Configurations – Special shaft lengths, materials, and accessories

• Our products hold up to 10 international authoritative certification certificates

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Gear Operated Wafer Butterfly Valve with Aluminum Bronze Disc and EPDM

REF **EFC-281** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN1200**
Pressure	**PN10 to 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**

APPLICATIONS

• Water supply networks
• HVAC systems
• Industrial circulation lines
• Wastewater treatment facilities
• Municipal water systems

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	**CI, DI, CS, SS**	Disc	**Aluminum Bronze, CF8, CF8M, DI+Ni, SS304**
Seat	**EPDM, NBR, PTFE, VITON, HYPALON**	Shaft	**SS416, SS316, SS304, CS**
Bushing	**PTFE, Bronze**	O ring	**NBR, EPDM**
Pin	**SS**	Stem	**SS416, SS316, SS304, CS**

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.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Grooved end butterfly valve

REF **EFC-284** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN300**
Pressure	**PN10 to PN16**
End connection	**grooved**
Face-to-face	**API609, ISO5752 series 20, BS5155**
Temperature	**null°C to 150°C**
Media	**Fresh water, Sewage, Sea water, Air, Vapour, Food, Medicine, Oils, Acids, Alkalis**

ACTUATION

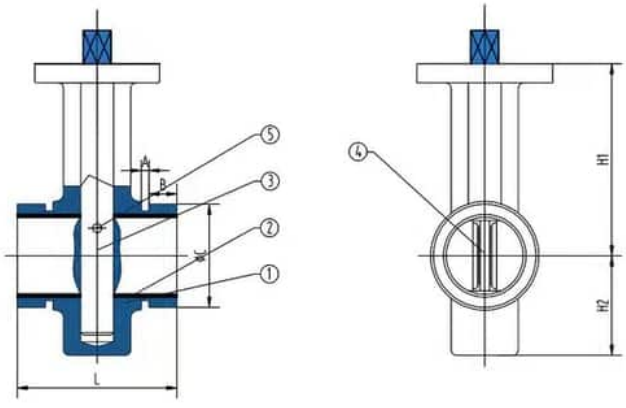
- manual lever — ISO5211
- worm gear — ISO5211
- pneumatic — ISO5211
- electric — ISO5211

STANDARDS

Design	**MSS SP-67, API609, EN593**
Test	**API 598**

APPLICATIONS

- HVAC
- Fire protection
- Water distribution



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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MATERIALS

Body	**DI**	Seat	**EPDM**
Shaft	**SS416**	Disc	**DI**
Pin	**SS416**	Stem	**SS416**

FEATURES

- Grooved connection for assembly without flanged joints or welding
- Resilient seat for tight sealing and corrosion resistance
- Lightweight body
- Low-torque operation
- Suitable for isolation and throttling service
- Compatible with standard grooved pipe fittings
- Grooved-end (Victaulic-type) pipe connections
- Available with handwheel gear operator
- Available with lever operator with position indicator and tamper-evident feature
- Available with supervisory switch / tamper switch (electrical cable visible on some variants)
- Yellow open/closed position indicator on gear-operated variants
- OPEN/CLOSE markings cast into handwheel (index 4)
- Available in red-painted (fire protection) and blue-painted (general service) versions
- Stem with groove for supervisory switch integration
- DN50 to DN300 size range

OPTIONS & NOTES

• Operating mode: manual, worm gear, pneumatic, electric, etc.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

HALAR Spraying Lug butterfly valve

REF **EFC-285** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN1200**
Pressure	**PN10 to Class 300**
End connection	**lug (DIN 2501 / ANSI / BS 4504 / JIS)**
Face-to-face	**API 609, DIN 3202, ISO 5752, BS 5155**
Temperature	**-30°C to 135°C**
Media	**chemicals, air, water, steam, oil, acids, salts**

ACTUATION

- manual gear — ISO 5211 top flange
- electric actuator — ISO 5211 top flange
- pneumatic actuator — ISO 5211 top flange

STANDARDS

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

COATINGS & LINING

- HALAR (ECTFE) spraying coating

APPLICATIONS

- Water treatment plants
- Chemical processing systems
- Industrial water networks

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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MATERIALS

Body	**CI, DI, CS, SS**	Disc	**CF8, CF8M, DI+Ni, SS304**
Stem	**SS416, SS316, SS304, CS**	Seat	**EPDM, NBR, PTFE, VITON, HYPALON**
O ring	**NBR, EPDM**	Bushing	**HALAR**
Pin	**SS**		

FEATURES

- HALAR (ECTFE) coating on bushing for chemical resistance
- Lug-type body for dead-end service
- Multiple seat elastomer options
- Multiple body and disc material options
- ISO 5211 top flange for actuator mounting
- Custom configurations available on request
- Lug-type body configuration with threaded lug holes (n-Ød1 pattern)
- Concentric disc design
- Stem passes fully through disc (through-stem construction)
- ISO 5211 top flange mounting pad (Ødg, dimension h)
- 7-part numbered assembly: (1) lower stem/bush, (2) seat/liner, (3) disc, (4) upper stem/bush, (5) body, (6) stem packing/seal, (7) top flange

OPTIONS & NOTES

• Custom Configurations available for special project requirements

• Available with manual gear, electric or pneumatic actuation to meet your automation needs.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Pneumatic Actuator PTFE Seat Stainless Steel Wafer Butterfly Valve

REF **EFC-293** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN300**
Pressure	**PN10 to PN16**
End connection	**wafer (DIN2501) / wafer (ANSI) / wafer (BS4504) / wafer (JIS)**
Face-to-face	**API609, BS5155, DIN3202, ISO5752**
Temperature	**-20°C to 180°C**
Media	**Chemicals, air, water, steam, oil, acids, salts**

ACTUATION

• pneumatic actuator — ISO5211

STANDARDS

Design	**API609**
Test	**API598**

APPLICATIONS

• HVAC
• Water supply and sewage
• Food and beverage
• Chemical/petrochemical/processing
• Power and utilities
• Paper and pulp
• Ship building
• Water treatment systems
• Industrial processes
• Building services

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	**CI, DI, WCB, SS**	Disc	**CI, DI, WCB, CF8, CF8M, D1+Ni**
Seat	**PTFE, EPDM, VITON, NBR, Hypalon**	Stem	**SS416, SS420, SS316, SS304**
O ring	**VITON, NBR, EPDM**	Bushing	**PTFE, Bronze**
Pin	**SS304, SS316**		

FEATURES

- Wafer-type body for installation between flanges
- PTFE seat providing bubble-tight shutoff
- 316 stainless steel body option
- Pneumatic actuator for automated operation
- ISO5211 top flange for actuator mounting
- Compatible with multiple flange drilling standards: DIN, BS, UNI, ISO, ANSI, AS, JIS
- Pneumatic actuator with double-acting or spring-return configuration; air ports labelled A and B, G1/4 threaded, with 4-M5 auxiliary ports
- Manual override knob on actuator side with OPEN/CLOSE direction arrows
- Wafer-pattern body with lug bolt holes for sandwiching between flanges
- PTFE seat/liner visible as white ring on disc face
- Lever handle with notched position plate marked OPEN and CLOSE with intermediate positions numbered
- Stem keyed/squared for direct actuator coupling

OPTIONS & NOTES

• Customization options available

• Products hold up to 10 international authoritative certification certificates

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Pneumatic Actuators Wafer Butterfly Valve

REF **EFC-294** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN1200**
Pressure	**PN10 to PN16**
End connection	**wafer (DIN / BS / UNI / ISO / ANSI / AS / JIS)**
Face-to-face	**API 609, ISO 5752 series 20, BS 5155, DIN 3202**
Temperature	**null°C to 150°C**
Media	**Fresh water, Sewage, Sea water, Air, Vapour, Food, Medicine, Oils, Acids, Alkalis**

ACTUATION

- pneumatic — ISO 5211
- manual lever — ISO 5211
- worm gear — ISO 5211
- electric — ISO 5211

STANDARDS

Design	**MSS SP-67, API 609, EN 593**
Test	**API 598**

APPLICATIONS

- Municipal water supply
- Wastewater treatment
- HVAC systems
- Industrial water distribution
- Food and beverage
- Chemical / petrochemical / processing
- Power and utilities
- Paper and pulp
- Ship building

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	**Cast Iron, Ductile Iron, Carbon Steel, Stainless Steel, Al-Bronze**	Disc	**Al-Bronze, CF8M, CF8, Ductile Iron, WCB, DI+Ni**
Seat	**EPDM, PTFE, NBR, Viton, Neoprene, Hypalon, Silicone**	Stem	**SS416, SS316, SS304, Carbon Steel**
Bushing	**PTFE, Bronze**	O ring	**NBR, EPDM**
Pin	**SS304, SS316, SS416**		

FEATURES

- Compact wafer body for installation between standard flanges
- 90-degree on/off operation
- Low operating torque
- Flow characteristic tending towards linear for regulation
- Wide selection of body, disc, seat, and shaft materials
- Tested for tens of thousands of opening/closing cycles
- Wafer-pattern butterfly valve body with pneumatic scotch-yoke rack-and-pinion actuator
- Spring-return (fail-safe) actuator variants visible (orange end caps = spring return)
- Double-acting actuator variants visible (black end caps)
- PTFE-lined disc variant visible (image index 1)
- Rubber-seated disc variant visible (image index 0 and 4)
- Stainless steel body / full stainless construction variant visible (image index 3)
- Position indicator on actuator top (visual flag)
- Flange drilling to PN10, PN16, ANSI 150, JIS 10K standards
- Sectional diagram shows 7 numbered component positions: bottom stub shaft (1), lower bearing (2), disc (3), seat/liner (4), body (5), upper stem (6), top bearing/packing assembly (7)
- Dimension parameters shown: C (face-to-face), d0 (stem diameter), K (ISO 5211 mounting PCD), E (actuator mount bolt PCD), z-d (actuator bolt pattern), g (actuator mount flange diameter), h (key height), p (stem projection), bxl (key dimensions), D1 (flange OD), n-Od1 (bolt count and diameter)

OPTIONS & NOTES

• Available in a variety of sizes and actuator configurations to meet diverse project needs.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Pneumatic Actuators Wafer Butterfly Valve

SECTION **Dimensions per size** REF **EFC-294**

SIZE	D1	NØ	C	D0	K	E	Z-D	G	H	P	B×L
DN 50 (PN16)	125	4-18	42	12.6	77	50	4-7	35	3	9	3×16
DN 50 (PN10)	125	4-18	42	12.6	77	50	4-7	35	3	9	3×16
DN 50 (ANSI15)	120.5	4-19	42	12.6	77	50	4-7	35	3	9	3×16
DN 50 (JIS)	120	4-19	42	12.6	77	50	4-7	35	3	9	3×16
DN 65 (PN16)	145	4-18	44.7	12.6	77	50	4-7	35	3	9	4×16
DN 65 (PN10)	145	4-18	44.7	12.6	77	50	4-7	35	3	9	4×16
DN 65 (ANSI15)	139.5	4-19	44.7	12.6	77	50	4-7	35	3	9	4×16
DN 65 (JIS)	140	4-19	44.7	12.6	77	50	4-7	35	3	9	4×16
DN 80 (PN16)	160	8-18	45.2	12.6	77	50	4-7	35	3	9	3×16
DN 80 (PN10)	160	8-18	45.2	12.6	77	50	4-7	35	3	9	3×16
DN 80 (ANSI15)	152.5	4-19	45.2	12.6	77	50	4-7	35	3	9	3×16
DN 80 (JIS)	150	4-19	45.2	12.6	77	50	4-7	35	3	9	3×16
DN 100 (PN16)	180	8-18	52.1	15.72	90	70	4-9	55	3	11	5×19
DN 100 (PN10)	180	8-18	52.1	15.72	90	70	4-9	55	3	11	5×19
DN 100 (ANSI15)	190.5	8-19	52.1	15.72	90	70	4-9	55	3	11	5×19
DN 100 (JIS)	175	8-19	52.1	15.72	90	70	4-9	55	3	11	5×19
DN 125 (PN16)	210	8-18	54.4	18.92	90	70	4-9	55	3	14	5×19
DN 125 (PN10)	210	8-18	54.4	18.92	90	70	4-9	55	3	14	5×19
DN 125 (ANSI15)	216	8-22	54.4	18.92	90	70	4-9	55	3	14	5×19
DN 125 (JIS)	210	8-23	54.4	18.92	90	70	4-9	55	3	14	5×19
DN 150 (PN16)	240	8-23	56	18.92	90	70	4-9	55	3	14	5×19
DN 150 (PN10)	240	8-23	56	18.92	90	70	4-9	55	3	14	5×19
DN 150 (ANSI15)	241.5	8-22	56	18.92	90	70	4-9	55	3	14	5×19
DN 150 (JIS)	240	8-23	56	18.92	90	70	4-9	55	3	14	5×19
DN 200 (PN16)	295	12-23	60.6	22.1	125	102	4-12	70	3.5	17	7×15
DN 200 (PN10)	295	8-23	60.6	22.1	125	102	4-12	70	3.5	17	7×15
DN 200 (ANSI15)	298.5	8-22	60.6	22.1	125	102	4-12	70	3.5	17	7×15

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

Pneumatic Actuators Wafer Butterfly Valve

Dimensions per size (continued) · EFC-294

SIZE	D1	NØ	C	D0	K	E	Z-D	G	H	P	B×L
DN 200 (JIS)	290	12-23	60.6	22.1	125	102	4-12	70	3.5	17	7×15
DN 250 (PN16)	350	12-27	68	26.4	125	102	4-12	70	3.5	22	8×28
DN 250 (PN10)	350	12-23	68	26.4	125	102	4-12	70	3.5	22	8×28
DN 250 (ANSI15)	362	12-25	68	26.4	125	102	4-12	70	3.5	22	8×28
DN 250 (JIS)	355	12-23	68	26.4	125	102	4-12	70	3.5	22	8×28
DN 300 (PN16)	400	12-27	76.9	31.6	125	102	4-12	70	3.5	22	8×28
DN 300 (PN10)	400	12-23	76.9	31.6	125	102	4-12	70	3.5	22	8×28
DN 300 (ANSI15)	432	12-25	76.9	31.6	125	102	4-12	70	3.5	22	8×28
DN 300 (JIS)	400	16-25	76.9	31.6	125	102	4-12	70	3.5	22	8×28
DN 350 (PN16)	460	16-27	76.9	31.6	125	102	4-12	70	3.5	22	8×28
DN 350 (PN10)	460	16-23	76.9	31.6	125	102	4-12	70	3.5	22	8×28
DN 350 (ANSI15)	476	12-29	76.9	31.6	125	102	4-12	70	3.5	22	8×28
DN 350 (JIS)	445	16-25	76.9	31.6	125	102	4-12	70	3.5	22	8×28
DN 400 (PN16)	525	16-30	86.5	35.15	175	140	4-18	100	4	24	10×50
DN 400 (PN10)	515	16-27	86.5	35.15	175	140	4-18	100	4	24	10×50
DN 400 (ANSI15)	540	16-29	86.5	35.15	175	140	4-18	100	4	24	10×50
DN 400 (JIS)	510	16-27	86.5	35.15	175	140	4-18	100	4	24	10×50
DN 450 (PN16)	585	20-30	105.6	38	175	140	4-18	100	4	27	10×50
DN 450 (PN10)	565	20-27	105.6	38	175	140	4-18	100	4	27	10×50
DN 450 (ANSI15)	578	16-32	105.6	38	175	140	4-18	100	4	27	10×50
DN 450 (JIS)	565	20-27	105.6	38	175	140	4-18	100	4	27	10×50
DN 500 (PN16)	650	20-33	127	41.15	175	140	4-18	100	4	32	10×50
DN 500 (PN10)	620	20-27	127	41.15	175	140	4-18	100	4	32	10×50
DN 500 (ANSI15)	635	20-32	127	41.15	175	140	4-18	100	4	32	10×50
DN 500 (JIS)	620	20-27	127	41.15	175	140	4-18	100	4	32	10×50
DN 600 (PN16)	725	20-36	150.5	50.21	210	165	4-23	130	5	36	2-16×60
DN 600 (PN10)	725	20-27	150.5	50.21	210	165	4-23	130	5	36	2-16×60
DN 600 (ANSI15)	749.5	20-33	150.5	50.21	210	165	4-23	130	5	36	2-16×60
DN 600 (JIS)	730	24-33	150.5	50.21	210	165	4-23	130	5	36	2-16×60
DN 700 (PN16)	840	24-36	163	55	300	254	8-18	200	5.5	—	2-18×63
DN 700 (PN10)	840	24-30	163	55	300	254	8-18	200	5.5	—	2-18×63
DN 700 (ANSI15)	863.5	28×1¼in	163	55	300	254	8-18	200	5.5	—	2-18×63
DN 700 (JIS)	840	24-33	163	55	300	254	8-18	200	5.5	—	2-18×63

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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Pneumatic Actuators Wafer Butterfly Valve

Dimensions per size (continued) · EFC-294

SIZE	D1	NØ	C	D0	K	E	Z-D	G	H	P	B×L
DN 750 (PN16)	914	24-36	165	55	300	254	8-18	200	5.5	—	2-18×63
DN 750 (PN10)	914	24-30	165	55	300	254	8-18	200	5.5	—	2-18×63
DN 750 (ANSI15)	914.5	28×1¼in	165	55	300	254	8-18	200	5.5	—	2-18×63
DN 750 (JIS)	900	24-33	165	55	300	254	8-18	200	5.5	—	2-18×63
DN 800 (PN16)	950	24-39	188	63	300	254	8-18	200	5.5	—	2-18×63
DN 800 (PN10)	950	32-33	188	63	300	254	8-18	200	5.5	—	2-18×63
DN 800 (ANSI15)	978	28-41	188	63	300	254	8-18	200	5.5	—	2-18×63
DN 800 (JIS)	950	28-33	188	63	300	254	8-18	200	5.5	—	2-18×63
DN 900 (PN16)	1050	28-39	203	75	300	254	8-18	200	5.5	—	2-20×100
DN 900 (PN10)	1050	32-33	203	75	300	254	8-18	200	5.5	—	2-20×100
DN 900 (ANSI15)	1086	32-38	203	75	300	254	8-18	200	5.5	—	2-20×100
DN 900 (JIS)	1050	32-33	203	75	300	254	8-18	200	5.5	—	2-20×100
DN 1000 (PN16)	1160	28-42	216	85	300	254	8-18	200	5.5	—	2-20×100
DN 1000 (PN10)	1160	36-38	216	85	300	254	8-18	200	5.5	—	2-20×100
DN 1000 (ANSI15)	1200	36-41	216	85	300	254	8-18	200	5.5	—	2-20×100
DN 1000 (JIS)	1160	36-41	216	85	300	254	8-18	200	5.5	—	2-20×100
DN 1100 (PN16)	1270	32-44	251	95	350	298	8-23	230	5.5	—	2-20×100
DN 1100 (PN10)	1270	36-38	251	95	350	298	8-23	230	5.5	—	2-20×100
DN 1100 (ANSI15)	1257.5	36-41	251	95	350	298	8-23	230	5.5	—	2-20×100
DN 1100 (JIS)	1270	36-41	251	95	350	298	8-23	230	5.5	—	2-20×100
DN 1200 (PN16)	1390	32-50	276	105	350	298	8-23	230	5.5	—	2-28×140
DN 1200 (PN10)	1380	32-41	276	105	350	298	8-23	230	5.5	—	2-28×140
DN 1200 (ANSI15)	1422.5	40-41	276	105	350	298	8-23	230	5.5	—	2-28×140
DN 1200 (JIS)	1380	32-50	276	105	350	298	8-23	230	5.5	—	2-28×140

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

PTFE Coated Lug Butterfly Valve

REF **EFC-296** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN1200**
Pressure	**PN10 to PN16**
End connection	**lug (ANSI B 16.1) / lug (EN 1092) / lug (AS 2129)**
Face-to-face	**ANSI B 16.10**
Temperature	**-45°C to 150°C**
Media	**chemical media, high-purity media, corrosive media**

COATINGS & LINING

- PTFE coating (2–3 mm lining)

APPLICATIONS

- Aggressive chemical service
- High-purity media service
- Corrosive media service

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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MATERIALS

Body	**Cast Iron, Ductile Iron, WCB, ALB, CF8, CF8M**	Disc	**Cast Iron, Ductile Iron, ALB, CF8M, CF8**
Stem	**SS416, SS304, SS316, SS431**	Seat	**Hypalon, EPDM, Neoprene, NBR, Viton, Silicon, PTFE**
Body	**Cast Iron (CI), Ductile Iron (DI)**	Down Shaft	**SS410**
Liner (Seat)	**PTFE**	Butterfly Spring	**Spring Steel**
Disc	**CF8M + PTFE**	Up Shaft	**SS410, SS304, SS316**
Seat Energiser	**Silicone**	Pressing Sleeve	**Stainless Steel**
Bushing	**PTFE**	Bolt	**SS304**

FEATURES

- Compact structure with low weight
- 90° rotation for rapid open/close operation
- Eccentric structure reduces seal packing collar friction
- Bubble-tight shutoff (zero leakage)
- PTFE lining thickness 2-3 mm
- Top flange to ISO 5211 for actuator mounting
- Lug-type body configuration
- PTFE full-face liner/seat
- 7-part construction: body, down shaft, liner (seat), butterfly spring, disc, up shaft, seat energiser, pressing sleeve, bushing, bolt
- Stem square drive top (ISO 5211 pattern inferred from mounting pad)

OPTIONS & NOTES

• Our products hold up to 10 international authoritative certification certificates

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

PTFE Seat Flange Butterfly Valve

REF **EFC-298** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN1200**
Pressure	**PN10/16**
End connection	**flanged (DIN / BS / UNI / ISO / ANSI / AS / JIS)**
Face-to-face	**API609, BS5155, DIN3202, ISO5752**
Temperature	**-15°C to 135°C**
Media	**Chemicals, Air, Water, Steam, Oil, Acids, Salts**

APPLICATIONS

- HVAC
- Water Supply & Sewage
- Food & Beverage
- Chemical / Petrochemical / Processing
- Power and Utilities
- Paper and Pulp
- Ship Building

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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MATERIALS

Body	**CI, DI, CS, SS, Al-Bronze**	Seat	**PTFE, EPDM, NBR, Hypalon, Buna**
Disc	**CF8, CF8M, DI+Ni, Al-Bronze, WCB**	Stem	**SS416, SS316, SS304, Carbon Steel**
Pin	**SS304, SS316, SS416**	Bushing	**PTFE, Bronze, Lubricating**
O ring	**NBR, EPDM, Buna, Hypalon**		

FEATURES

- PTFE (Teflon) seat providing corrosion-resistant sealing
- Flanged end connections compatible with multiple international flange standards
- Multiple body, disc, and seat material options available
- ISO5211 mounting flange for actuator compatibility
- Flanged body (full-face flange pattern)
- PTFE-lined bore and seat visible in product photos
- Available with pneumatic actuator and positioner/limit switch assembly (index 0)
- Available with gearbox operator (worm-gear handwheel) (indices 1 and 2)
- Stainless steel disc visible through PTFE seat liner
- Dimensional parameters shown: C (face-to-face), d0 (shaft diameter), K (bolt circle), E (bolt circle secondary), z-d (number and diameter of bolts), g, h, p, bXl
- Flange drilling data provided for PN16, PN10, ANSI 150, and JIS 10K standards across DN50 to DN1200

OPTIONS & NOTES

• Our products hold up to 10 international authoritative certification certificates, ensuring compliance with global standards.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Red 5K Lug Butterfly Valve

REF **EFC-300** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN40 to DN1200**
Pressure	**PN16**
End connection	**lug (ANSI B16.1 / EN1092 / AS2129 / DIN / BS / UNI / ISO / JIS)**
Face-to-face	**API 609, BS 5155, DIN 3202, ISO 5752, ANSI B16.10**
Temperature	**-45°C to 150°C**
Media	**Water, Sewage, Fire protection media, HVAC fluids, Food and beverage, Chemical/petrochemical process fluids, Paper and pulp process fluids**

APPLICATIONS

- Water supply and drainage
- Fire protection systems
- HVAC
- Hydraulic engineering
- Industrial water treatment
- Food and beverage
- Chemical/petrochemical/processing
- Power and utilities
- Paper and pulp
- Ship building

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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MATERIALS

Body	**CI, DI, CS, SS, WCB, ALB, CF8, CF8M**	Seat	**EPDM, PTFE, VITON, NBR, Hypalon, Neoprene, Silicon**
Stem	**SS416, SS316, SS304, SS431, CS**	Disc	**CI, DI, ALB, CF8, CF8M, Ni, SS304**
Pin	**SS**	Bushing	**PTFE, Bronze**
O ring	**NBR, EPDM**		

FEATURES

- Lug-type construction for end-of-line service
- Eccentric structure reduces seat friction and extends service life
- 90° rotation for rapid open/close operation
- Zero-leakage sealing
- Compact and lightweight construction
- Easy assembly and disassembly
- Lug-type body configuration
- Lever operated with notched locking handle
- Part numbers visible on disc: 2006
- Pressure class markings visible on body: 16K
- 7-part numbered sectional assembly shown in dimensional drawing
- Dimension parameters shown: C (face-to-face), d0 (stem diameter), K (bolt circle), E (bolt circle inner), z-d (number and diameter of bolts), g (stem top diameter), h (stem top height), p (flange thickness), b (stem key width), l (stem key length)
- Flange drilling data provided for PN16, PN10, ANSI 150 and JIS 10K standards
- Size range DN50 to DN1200 (2" to 48")

OPTIONS & NOTES

• Normal Pressure stated as PN1.0/1.6 MPa (150/200 PSI) in product header; Working Pressure stated as PN16 (200 PSI) in specification table

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Stainless Steel PTFE Seat Lug Butterfly Valve

REF **EFC-308** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN40 to DN1200**
Pressure	**PN10 to PN16**
End connection	**lug (ANSI B 16.1) / lug (EN1092) / lug (AS2129)**
Face-to-face	**ANSI B 16.10**
Temperature	**-45°C to 150°C**

APPLICATIONS

- water systems
- industrial process applications

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	**CI, DI, CS, SS**	Seat	**EPDM, PTFE, VITON, NBR, Hypalon**
Shaft	**SS416, 316, 304, CS**	Disc	**CF8, CF8M, DI+Ni, SS304**
Pin	**SS**	Bushing	**PTFE**
O ring	**NBR, EPDM**	Stem	**SS416, 316, 304, CS**

FEATURES

- Compact and lightweight structure with 90° rotation for rapid open/close operation
- Eccentric structure reduces seal friction and extends valve service life
- Bubble-tight shutoff (zero leakage)
- Easy assembly and disassembly
- Lug-type body (fully lugged with threaded inserts)
- PTFE/white seat liner visible
- Stainless steel disc
- Lever handle operator with spring-return detent
- ISO 5211 top flange for actuator mounting
- Dual upper and lower shaft arrangement
- 8-bolt lug pattern on larger sizes

OPTIONS & NOTES

• Our products hold up to 10 international authoritative certification certificates, ensuring compliance with global standards.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Stainless Steel PTFE Seat Wafer Butterfly Valve

REF **EFC-309** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN1000**
Pressure	**PN10 to PN16**
End connection	**wafer (DIN2501) / wafer (ANSI) / wafer (BS4504) / wafer (JIS)**
Face-to-face	**API609, DIN3202, ISO5752, BS5155**
Temperature	**-30°C to 135°C**
Media	**chemicals, air, water, steam, oil, acids, salts**

STANDARDS

Design	**API609, ANSI16.34, JISB2064, GB T12238**
Test	**API598**

APPLICATIONS

- Municipal water supply
- Industrial water circulation
- HVAC systems
- Wastewater treatment

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	**CI, DI, CS, SS**	Seat	**EPDM, PTFE, VITON, NBR, Hypalon**
Shaft	**SS416, SS316, SS304, CS**	Disc	**CF8, CF8M, DI+Ni, SS304, CS**
Pin	**SS**	Bushing	**PTFE, Bronze**
O ring	**NBR, EPDM**	Stem	**SS416, SS316, SS304, CS**

FEATURES

- Compact wafer-type body for installation between standard flanges
- PTFE seat for chemical resistance
- Low torque operation
- ISO5211 top flange for actuator mounting
- Available in multiple body and seat material combinations
- Wafer-style body with lug ears for pipeline installation
- PTFE seat/liner visible as white ring in body bore
- Lever handle with notched position bracket (positions marked 1-8 plus OPEN/CLOSE)
- Stainless steel stem with top and bottom stub-shaft configuration (parts 1-7 visible in sectional drawing)
- Body cast marking DN100 and CF8 (stainless steel grade CF8 / AISI 304)
- Pressure rating marking 150 Lb visible on stem neck
- Flanged drilling dimensions tabulated for PN10, PN16, ANSI 150 and JIS 10K standards

OPTIONS & NOTES

• Products hold up to 10 international authoritative certification certificates

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Two Holes PTFE Wafer Butterfly Valve

REF **EFC-316** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN40 to DN1200**
Pressure	**PN10 to PN16**
End connection	**wafer (ANSI B 16.1) / wafer (EN1092) / wafer (AS2129)**
Face-to-face	**ANSI B 16.10**
Temperature	**-45°C to 150°C**
Media	**corrosive media, treated water, industrial fluids**

APPLICATIONS

- pipeline construction
- HVAC systems
- industrial water treatment
- municipal water systems

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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MATERIALS

Body	**CI, DI, WCB, ALB, CF8, CF8M**	Seat	**Hypalon, EPDM, Neoprene, NBR, Viton, Silicone, PTFE**
Stem	**SS416, 304, 316, 431**	Disc	**CI, DI, ALB, CF8M, CF8**
Pin	**Stainless steel**	Bushing	**PTFE, Bronze**
O ring	**NBR, EPDM**		

FEATURES

- Compact wafer-style body with dual alignment holes for installation between flanges
- PTFE lining providing chemical resistance
- Eccentric structure to reduce seat friction and extend service life
- 90° rotation for rapid open/close operation
- Zero-leakage sealing
- Low-torque disc operation
- Wafer-style butterfly valve with PTFE/full-lined seat (white liner visible)
- Lever operated with lockable notched handle
- Shaft options: Round with key, Diagonal square head, Double D head
- Flanged drilling to ANSI 150 and DIN PN10/16
- Parts identified in sectional drawing: 1-body, 2-disc, 3-seat/liner, 4-stem (lower), 5-stem (upper), 6-stem packing/bushing, 7-top plate/flange
- Dimension references: A=overall height, B=body height, C=face-to-face, D=bore diameter, L=stem length above body, d0=stem diameter, P=key width, H=key height, K=upper flange PCD, E=upper flange diameter, z-d=bolt holes count and diameter, g=upper flange bolt PCD, h=upper flange bolt hole diameter, D1=flange OD, n-od1=bolt hole count and diameter

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Wcb Carbon Steel Flange Butterfly Valve

REF **EFC-320** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN3200**
Pressure	**PN10 to PN16**
End connection	**flanged (DIN) / flanged (ANSI B 16.1) / flanged (BS 4504) / flanged (ISO) / flanged (JIS B 2212/2213) / flanged (BS 10 Table D) / flanged (BS 10 Table E)**
Face-to-face	**API 609, ISO 5752 Series 20, BS 5155**
Temperature	**-15°C to 150°C**
Media	**Fresh water, Sewage, Sea water, Air, Vapour, Food, Medicine, Oils, Acids, Alkalis, Chemicals, Steam**

ACTUATION

- manual lever
- worm gear
- pneumatic
- electric

STANDARDS

Design	**MSS SP-67, API 609, EN 593**
Test	**API 598**

APPLICATIONS

- Municipal water systems
- Engineering projects
- Water treatment plants
- HVAC networks
- Industrial process lines

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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MATERIALS

Body	**WCB, CF8M, Cast Iron, Ductile Iron, Al-Bronze**	Disc	**Al-Bronze, CF8M, Ductile Iron, WCB**
Seat	**EPDM, PEFE, Buna, NBR, Hypalon**	Stem	**Carbon Steel, Stainless Steel 314, Stainless Steel 316**
Bushing	**PTFE, Lubricating**	O ring	**EPDM, PEFE, Buna, NBR, Hypalon**
Pin	**SS316, SS416, SS304**		

FEATURES

- Flanged-end connection for secure pipeline integration
- Low-torque disc operation
- Tight shut-off
- Customisable size, actuation type, and sealing material
- Flanged-end butterfly valve with lug/wafer body style
- Gearbox operator mounted on top (red housing)
- Pressure ratings: PN10, PN16, ANSI 150
- Size range: DN50 (2") to DN1200 (48")
- Dimensional parameters: C (face-to-face), d0 (stem diameter), K (stem bolt circle), E (stem flange diameter), z-d (stem bolt pattern), g (key width), h (key depth), p (keyway depth), bXl (key dimensions), D1 (flange bolt circle), n-Ød1 (bolt hole count and diameter)

OPTIONS & NOTES

• Can be customized to meet specific project requirements, including size, actuation type, and sealing material.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Worm Gear operated Wafer Butterfly Valve

REF **EFC-321** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN1200**
End connection	**wafer**
Media	**water, wastewater, general industrial fluids**

ACTUATION

• worm gear — Low-torque worm gear operator enabling smooth manual throttling or shut-off; 90° rotation

APPLICATIONS

• Municipal water distribution

• HVAC systems

• Wastewater treatment

• General industrial fluid management

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	**CI, DI, CS, SS**	Seat	**EPDM, PTFE, VITON, NBR, Hypalon, Neoprene, Silion**
Shaft	**SS416, SS316, SS304, CS**	Disc	**CF8, CF8M, DI+Ni, SS304, CF8+PTFE, CF8M+PTFE, Bronze**
Pin	**SS**	Bushing	**PTFE, Bronze**
O ring	**NBR, EPDM**	Stem	**SS416, SS316, SS304, CS**

FEATURES

- Compact wafer-type body for installation between pipeline flanges
- Worm gear operator for smooth, low-torque manual operation
- 90° rotation for rapid open/close
- Eccentric structure to reduce seat friction and extend service life
- Zero-leakage sealing
- Easy assembly and disassembly
- Wafer-style body with gear operator (worm gearbox)
- Seven-part sectional construction identified in dimensional drawing (parts labelled 1-7)
- Flanged drilling shown for PN10, PN16, ANSI 150 and JIS 10K bolt patterns
- PTFE-lined disc variant visible (white disc face, image index 3)
- Stainless steel disc variant visible
- Through-stem (double-stem) design shown in sectional drawing

OPTIONS & NOTES

• Our products hold up to 10 international authoritative certification certificates, ensuring compliance with global standards.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Rubber lined butterfly valve

REF **EFC-325** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN300 to DN3600**
Pressure	**PN6 to PN40**
Face-to-face	**EN558-1/ISO5752 Series 14, EN558-1/ISO5752 Series 13, AWWA C504**
Temperature	**null°C to null°C**
Media	**sewage, chemical fluids, seawater, de-salination process fluids, corrosive flu-ids**

STANDARDS

Design	**BS EN593, AWWA C504, API 609**

COATINGS & LINING

• Internal ebonite lining, thickness 3 mm or 5 mm, Shore D hardness 75±5

• External coating system C5 per EN ISO 12944-2: Option 1 — Epoxy zinc-rich primer 60µm + Epoxy micaceous iron interme-diate paint 120µm + Acrylic polyurethane finish paint 60µm; Total DFT 240µm

• External coating system C5 per EN ISO 12944-2: Option 2 — Epoxy glass flake primer 80µm + Epoxy glass flake paint two layers 160µm; Total DFT 240µm

APPLICATIONS

• Sewage

• Chemical industry

• Seawater treatment

• Desalination

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	**GJS500-7, GJS400-15, WCB**	Disc	**GJS500-7, GJS400-15, WCB**
Shaft	**SS420, SS431, Duplex 1.4462**	Disc seal ring	**EPDM**
Retainer ring	**Carbon steel +epoxy, SS304, SS316**	Shaft bearing	**AL-bronze**
O ring	**EPDM**	Pin	**SS420**
Key	**SS420**	Packing gland	**Carbon steel +epoxy**
Connection flange	**Carbon steel +epoxy**	End cover	**Carbon steel +epoxy**
Fasteners	**316L, Duplex stainless steel**	Internal lining	**Ebonite (vulcanised rubber)**
Disc seal ring	**Natural hard rubber (vulcanised)**	Body lining	**Natural hard rubber (vulcanised)**
Shaft	**Stainless steel (inferred from dry shaft / corrosion-resistant design)**	Seat	**EPDM**
Stem	**SS420, SS431, Duplex 1.4462**		

FEATURES

- Ebonite lining thickness 3 mm or 5 mm forming a continuous covering layer isolating ferrous substrate from service medium
- Substrate sand-blasted to cleanliness Sa 2.5 per ISO 8501 and roughness medium G per ISO 8503 prior to lining
- Ebonite vulcanisation processed with hot air or steam in vulcanisation kettle
- Lining quality verified by visual inspection, electric spark detection (holidays/pinholes/cracks), adhesion test and hardness test
- Ebonite hardness Shore D 75±5
- Eccentric disc design
- Replaceable disc seal ring
- All internal and external fasteners in stainless steel grade 316L or duplex stainless steel
- Suitable for installation in vertical or horizontal position
- Lifting eye/lifting hook provided for vertical or horizontal lifting
- Disc fully vulcanised with natural hard rubber
- Body fully vulcanised with natural hard rubber
- L-profiled disc seal ring fixed by retainer; bi-directional sealing; replaceable without special tools
- Dry shaft design to prevent corrosion from service medium
- Gearbox equipped with ISO 5210 flange connection for actuator; F10 standard specified
- Multiple shaft O-rings for sealing; adjustable and replaceable
- Streamlined low-profile disc for reduced flow resistance
- Low-torque gearbox; operable by handwheel or actuator

OPTIONS & NOTES

• Other Material are available on request

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

AWWA C504 Butterfly Valve

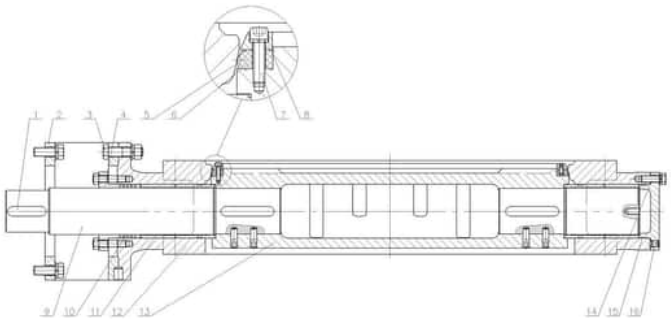
REF **EFC-326** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN350 to DN4000**
Pressure	**Class 75B to Class 250B**
End connection	**flanged (ASME B16.1) / flanged (ASME B16.5) / flanged (AWWA C207) / flanged (EN 1092) / grooved (Victaulic)**
Face-to-face	**EN 558-1 / ISO 5752 series 14, EN 558-1 / ISO 5752 series 13**
Temperature	**0°C to 80°C**
Media	**drinking water, sea water, TSE water, low-corrosive liquid**

ACTUATION

- manual gearbox — handwheel or chainwheel
- electric actuator — via gearbox with ISO 5210 top works — ISO 5210
- electric actuator — direct mount
- hydraulic cylinder
- pneumatic cylinder



STANDARDS

Design	**AWWA C504, EN 593, BS5155, DIN3354**
Test	**AWWA C504**

COATINGS & LINING

- Fusion bonded epoxy coating, non-toxic, WRAS/NSF approved for potable water

APPLICATIONS

- Drinking water
- Sea water
- Cooling water

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

- TSE water
- Desalination
- Low-corrosive liquids

MATERIALS

Body	**65-45-12, 60-40-18**	Disc	**65-45-12**
Shaft	**630**	Body seat	**304**
Disc seal ring	**EPDM**	O ring	**EPDM**
Packing	**PTFE**	Shaft bearing	**316**
Shaft bush	**Aluminium Bronze**	Packing gland	**65-45-12**
Shaft cover	**65-45-12**	Retainer ring	**304**
Key	**420**	Yoke	**A36**
Bolt	**304**	Screw	**304**
Seat	**304**	Stem	**630**

FEATURES

- Body with minimum shell thickness per AWWA C504 standard
- Flat face flange ends
- Solid single disc or lattice disc for larger sizes
- 360° uninterruptible seal ring secured with retainer ring for bidirectional service up to full rated pressure
- Disc seal ring adjustable and replaceable without special tools
- Two-piece stub-type shaft of SS630
- Body seat ring stainless steel welded and micro-finished
- Aluminium bronze shaft bush in both body trunnions, maintenance free
- Multiple O-rings on bearing bush and V-type shaft packing for shaft sealing
- V-type shaft packing and extended top bracket for online adjustment and replacement of shaft packing without gearbox disassembly
- Disc to shaft connection by SS630 taper pins
- Cycle tested per AWWA C504 requirements
- Leakage rate Class A (zero leakage) bidirectional, 100% tested before delivery
- Optional shaft locking device
- Optional rubber lining (ebonite lining)
- Optional extended bonnet
- Double-offset (double eccentric) butterfly valve design
- Extended shaft arrangement visible - shaft protrudes below body for bottom bearing access
- Gear operator (worm gearbox) mounted on top of valve
- Flanged end connections
- Streamlined disc design noted in diagram callout
- Shaft designed to be isolated from flow medium
- Bearings referenced in sectional diagram
- Sectional cross-section (index 4/10) shows 16 numbered component parts including body, disc, shaft, seals and fasteners

OPTIONS & NOTES

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

- Other materials such as carbon steel, st. steel, duplex SS, al-bronze are available on request.
- Victaulic grooved ends or other type of connection ends are also available.
- Two piece, stub-type shaft of corrosion resistant material SS630, other materials available as request.
- Disc to shaft connection by SS630 taper pins. Other methods available as request.
- The material solution of Aluminum bronze/nickel aluminum bronze (such as ASTM B148 C95400/C95500/C95800 body & disc and nickel-copper alloy (such as Monel k500 etc.) shaft is available for desalination of sea water project.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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BUTTERFLY VALVE

Double Eccentric Butterfly Valve

REF **EFC-327** ISSUED **08 Jul 2026**

SPECIFICATIONS

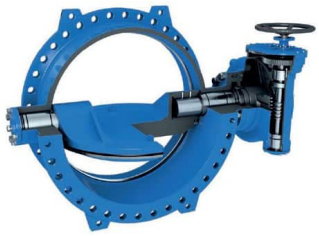
Size	**DN200 to DN4000**
Pressure	**PN10 to PN40**
End connection	**flanged (EN 1092) / flanged (ASME B16.5) / flanged (ASME B16.1) / flanged (AWWA C207)**
Face-to-face	**EN 558-1 / ISO 5752 series 14, EN 558-1 / ISO 5752 series 13**
Temperature	**0°C to 80°C**
Media	**potable water, sea water, TSE water, low-corrosive liquid**

ACTUATION

- gearbox with handwheel
- electric actuator — ISO 5210 top flange — ISO 5210

STANDARDS

Design	**EN 593, BS5155, DIN3354**
Test	**EN 12266-1**



COATINGS & LINING

- Fusion bonded epoxy coating, min. thickness 300 micron, colour RAL5005/5015/5017

APPLICATIONS

- Potable water
- Sea water
- TSE water
- Low-corrosive liquids
- Throttling service
- Applications requiring valve actuation after long periods of inactivity

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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• Full vacuum service

MATERIALS

Gear housing	**GJS400-15**	Key	**420**
Upper shaft	**1.4462**	Packing gland	**GJS400-15**
O ring	**EPDM**	Bolt	**A2-70**
Shaft bearing	**QAI9-2**	Body	**GJS400-15**
Body seat	**316**	Retainer ring	**1.4571**
Disc seal ring	**EPDM**	Screw	**A2-70**
Taper pin	**420**	Disc	**GJS400-15**
Lower shaft	**1.4462**	Shaft cover	**GJS400-15**
Seat	**316**	Stem	**1.4462**
Bonnet	**GJS400-15**		

FEATURES

- Stainless steel welded and finished body seat for corrosion and wear resistance
- Streamlined low-profile disc design verified by finite element analysis for lower flow resistance
- Seal gasket at shaft bearing/disc joint, double O-ring on shaft bearing, and closed disc eyes forming dry operating condition for shaft and shaft seal
- Anti-blowout shaft design
- Disc to shaft connection by taper pin or key (optional)
- Self-lubricating bearings in bronze or stainless steel lined PTFE to reduce shaft friction and operating torque; bearings keep disc centred and prevent axial movement
- Multiple O-rings in shaft sealing system; O-rings on packing gland and shaft cover replaceable without removing valve from pipeline
- Suitable for full vacuum service conditions
- T-profiled resilient seal ring secured on disc by retainer ring and bolts; bidirectional sealing; adjustable or replaceable on site without special tools
- External locking device on non-drive shaft end to allow gearbox removal with valve in service
- ISO 5210 top flange for electric actuator coupling
- Fusion bonded epoxy coating internally and externally, 250 micron thickness (other coatings/linings available on request), colour RAL5005/5015/5017
- Leakage rate Class A (zero leakage) in both directions per EN 12266-1
- 100% tested before delivery
- Double-flanged end connections
- Double-eccentric (triple-offset) disc configuration visible in sectional drawing
- Worm gearbox actuator with handwheel
- Open/Close indicator on gearbox
- 18-part numbered sectional assembly (parts 1-18 labelled on sectional diagram)

OPTIONS & NOTES

• Other materials such as carbon steel, st. steel, duplex SS, aluminum bronze are available on request.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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- Different coating/lining is available as special request.
- Disc to shaft connection by means of taper pin or key (optional).

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BUTTERFLY VALVE

FBLC - Concentric Flange Butterfly Valve

REF **EFC-374** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN1200**
Pressure	**PN10 to PN16**
End connection	**flanged (EN 1092-2) / flanged (EN 1092-2)**

ACTUATION

- manual lever — Rigid design aluminum lever — ISO 5211
- manual gearbox — Worm Gear Operator — ISO 5211
- electric — Electrical Operator — ISO 5211
- bare valve — No operator — ISO 5211

STANDARDS

Design	**EN 593, EN ISO 5752, EN 1074-2, ISO 5752, DIN 3202, BS 5155, ISO 5211**

COATINGS & LINING

- Fusion-bonded epoxy (FBE)

APPLICATIONS

- Water distribution
- Raw water
- Treated effluent
- Irrigation
- Water treatment plants

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	**Ductile Iron**	Disc	**AISI 304**
Seat	**EPDM**	Stem	**AISI 420**

FEATURES

- The FBLC is a resilient-seated concentric butterfly valve with a pinless disc design that eliminates the corrosion and leakage path associated with conventional pin/stem connections
- The EPDM seat is moulded integrally into the body, providing a positive bubble-tight seal
- Fusion-bonded epoxy coating provides corrosion protection for buried or wet-well service
- Available with handwheel, gearbox or electric actuator

PRESSURE-TEMPERATURE RATING

CLASS	TEMPERATURE	MAX PRESSURE
—	-10°C	10 bar
—	120°C	10 bar
—	-10°C	16 bar
—	120°C	16 bar

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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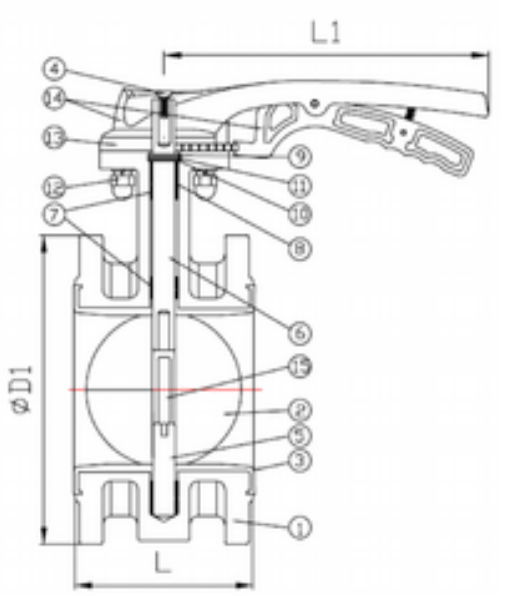
BUTTERFLY VALVE

FBLC - Concentric Flange Butterfly Valve

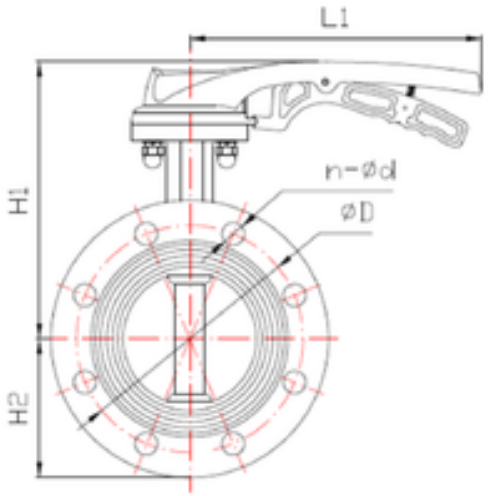
SECTION **Technical drawing 1 of 3** REF **EFC-374**

FBLC-Flange BufferflyValve



Parts List

No.	Part Name	Material	Standard
1	Body	DI	* -6
2	Disc	Stainless Steel	$,6,
3	Body Seat	Rubber	EPDM
4	Bolt	Stainless Steel	AISI 304
5	Lower Stem	Stainless Steel	AISI 420
6	Upper Stem	Stainless Steel	$,6,420
7	Bearing	Plastic	PTFE
8	O-Ring	Rubber	EPDM
9	Snap Spring	Steel	#50 Mn Steel
10	Washer	Stainless Steel	AISI 304
11	7KUXW&	CS Zink plated	Commercial
12	%R	Stainless Steel	AISI 304
13	)	Aluminum alloy	Commercial
14	/ HYHU	Aluminum alloy	Commercial
15	7KUXW6	Stainless Steel	AISI 304



Dimension

Unit: mm

DN	ØD	ØD1	n-Ød	H1	H2	L	L1
50	125	165	4-Ø19	183	82.5	110	176
65	145	185	4-Ø19	196	93	114	176
80	160	200	8-Ø19	208	100	116	176
100	180	220	8-Ø19	232	110	129	215
125	210	250	8-Ø19	252	125	142	260
150	240	285	8-Ø23	272	143	142	260

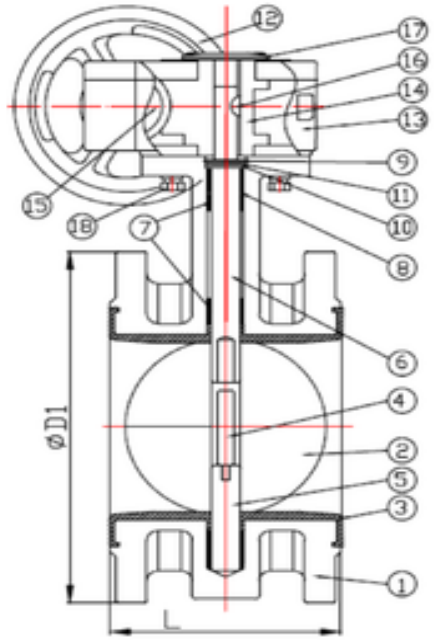
Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BUTTERFLY VALVE

FBLC - Concentric Flange Butterfly Valve

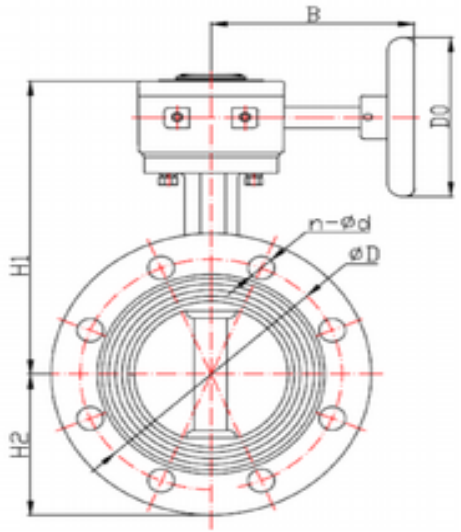
SECTION **Technical drawing 2 of 3** REF **EFC-374**

FBGC-Flange BufferflyValve



Parts List

No.	Part Name	Material	Standard
1	Body	DI	* -6
2	Disc	Stainless Steel	$,6,
3	Body Seat	Rubber	EPDM
4	Thrust Stem	Stainless Steel	AISI 304
5	Lower Stem	Stainless Steel	AISI 420
6	Upper Stem	Stainless Steel	$,6,420
7	Bearing	Plastic	PTFE
8	O-Ring	Rubber	EPDM
9	Snap Spring	Steel	#50 Mn Steel
10	Washer	Stainless Steel	AISI 304
11	7KUXW&RDU	Stainless Steel	AISI 304
12	Handwheel	CS	#45
13	Gear Shell	Aluminum alloy	Commercial
14	Gear	Ductile Iron	GJS450-10I
15	Gear Stem	CS	#45
16	Key	Stainless Steel	AISI 304
17	Indicator	Plastic	Commercial
18	Bolt	Stainless Steel	AISI 304



Dimension PN16

Unit: mm

DN	ØD	ØD1	n-Ød	H1	H2	B	D0	L
50	125	165	4-Ø19	181	82.5	131	121	110
65	145	185	4-Ø19	194	93	131	121	114
80	160	200	8-Ø19	208	100	131	121	116
100	180	220	8-Ø19	228.5	110	143.5	160	129
125	210	250	8-Ø19	248.5	125	143.5	160	142
150	240	285	8-Ø23	268.5	143	143.5	160	142
200	295	340	12-Ø23	303	170	181	220	154
250	355	405	12-Ø28	342	203	181	220	167
300	410	460	12-Ø28	386.5	230	232.5	280	180
350	470	520	16-Ø28	421.5	270	232.5	280	192
400	525	580	16-Ø31	478	287	262	350	218
450	585	640	20-Ø31	496	320	262	350	224
500	650	715	20-Ø34	605	355	317	390	229
600	770	840	20-Ø37	662	420			

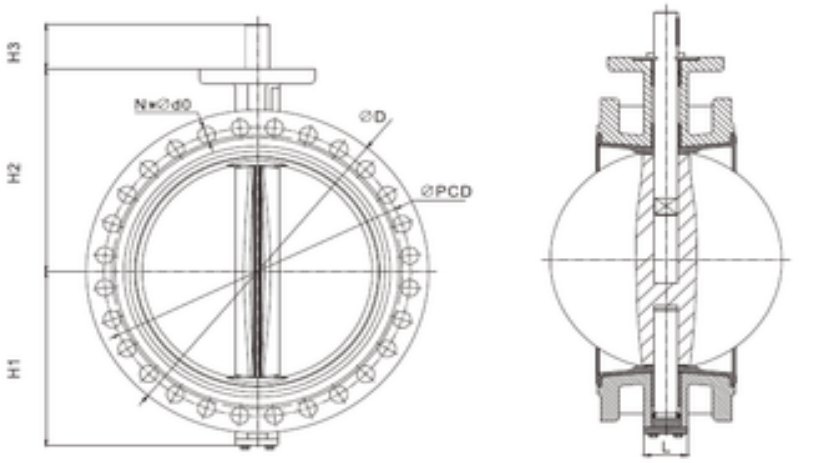
Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BUTTERFLY VALVE

FBLC - Concentric Flange Butterfly Valve

SECTION **Technical drawing 3 of 3** REF **EFC-374**

Dimension



PN16

Unit: mm

DN	ØD	n-Ød0	H2	H1	PCD	H3
700	895	24-Ø37	660	480	840	100
800	1015	24-Ø40	720	580	950	100
900	1115	28-Ø40	785	625	1050	130
1000	1230	28-Ø43	900	660	1170	130
1200	1455	32-Ø49	917	780	1390	150

Order Coding

FB L C-0100-16-XXX

Model:
FB: Flange ButterflyValve

Operator:
L: Lever Operator
G: Worm Gear Operator
B: Bare Valve
E: Electrical Operator

Type:
C: Concentric

Special Code:
Please consult factory

End Connection:
10: PN 10
16: PN 16
1K: JIS 10K

Valve Size:
0080: 80 mm
0200: 200 mm

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BUTTERFLY VALVE

FBLC - Concentric Flange Butterfly Valve

SECTION **Dimensions per size** REF **EFC-374**

SIZE	L	L1	H1	H2	OD	OD1	BOLTS
DN50	110	176	183	82.5	125	165	4-Ø19
DN65	114	176	196	93	145	185	4-Ø19
DN80	116	176	208	100	160	200	8-Ø19
DN100	129	215	232	110	180	220	8-Ø19
DN125	142	260	252	125	210	250	8-Ø19
DN150	142	260	272	143	240	285	8-Ø23

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BUTTERFLY VALVE

FBGD - Double Eccentric Flange Butterfly Valve

REF **EFC-375** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN100 to DN1800**
Pressure	**PN10 to PN16**
End connection	**flanged (EN 1092-2) / flanged (EN 1092-2)**
Face-to-face	**EN 558-1 Series 13, EN 558-1 Series 14**

STANDARDS

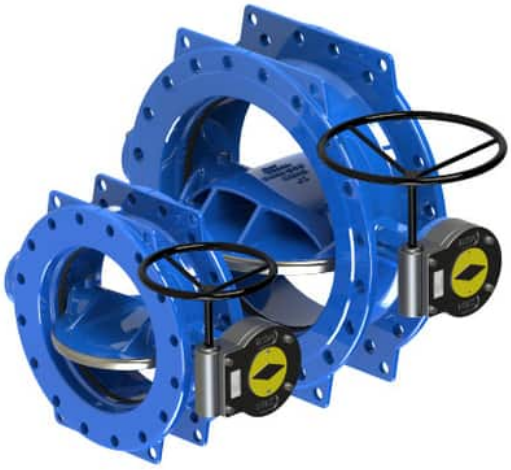
Design	**EN 593, ISO 5211**

COATINGS & LINING

- epoxy

APPLICATIONS

- Water distribution
- Industrial water
- Throttling service
- Water treatment
- Fire protection



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	**Ductile Iron GJS 500-7**	Disc	**Ductile Iron GJS 500-7**
Shaft	**AISI 420, AISI 304, 316**	Body seat	**EPDM rubber**
Disc seat	**316SS L, GJS 500-7 + epoxy coated**		

FEATURES

- The FBGD double-eccentric (high-performance) butterfly valve uses a two-offset disc geometry that lifts the disc clear of the seat immediately on opening, eliminating seat friction and wear
- Suitable for frequent operation, throttling service and applications demanding tight shut-off to ANSI Class VI
- Available in ductile iron or stainless body with a wide range of seat materials for media compatibility

OPTIONS & NOTES

• DN100-500: flat disc; DN600-1200: arch shape disc

• Standard operator: worm gear

• Dovetail seal design captured by epoxy on the back with multiple raised rings

PRESSURE-TEMPERATURE RATING

CLASS	TEMPERATURE	MAX PRESSURE
PN10	-10°C	10 bar
PN10	80°C	10 bar
PN16	-10°C	16 bar
PN16	80°C	16 bar

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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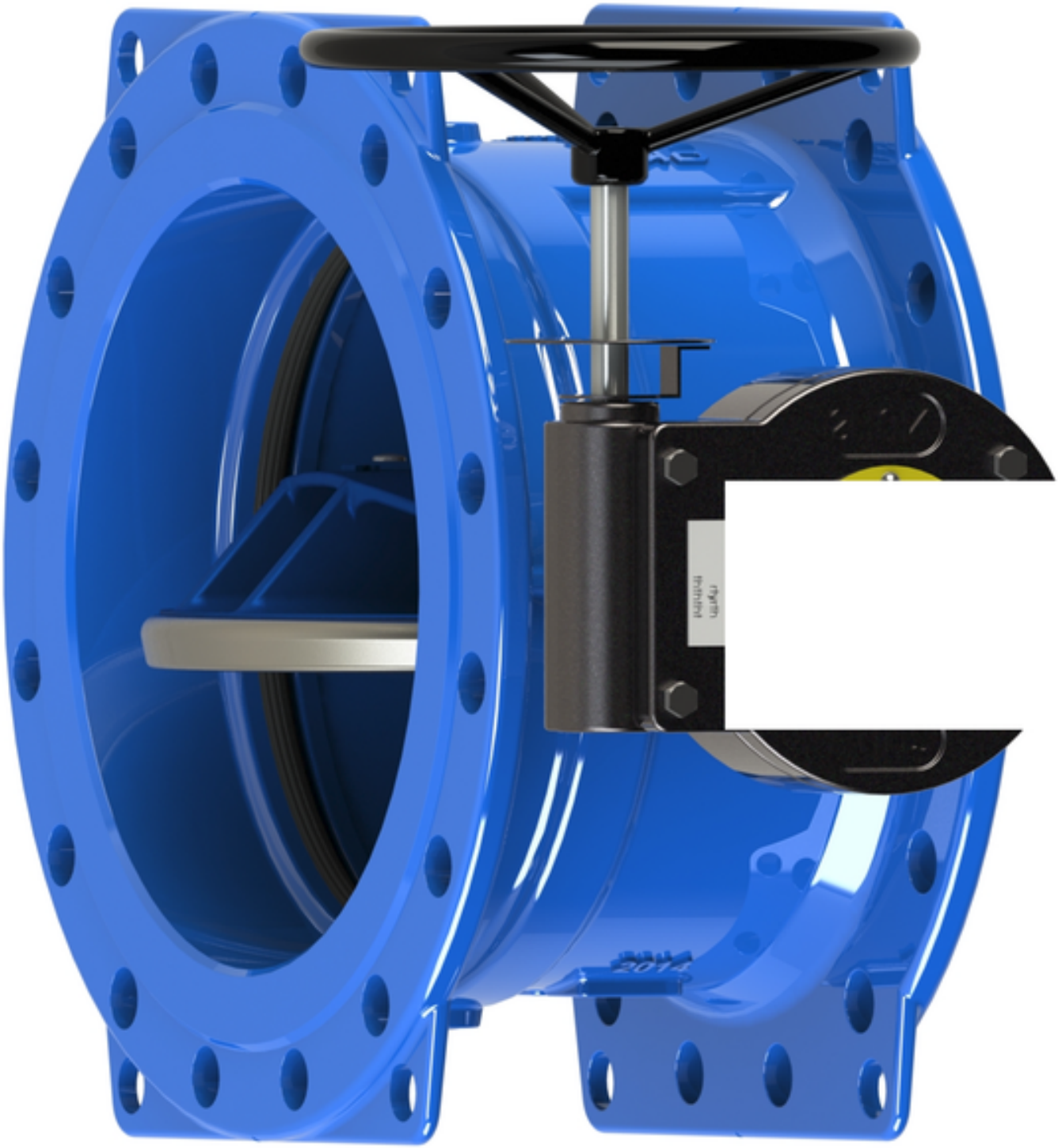
BUTTERFLY VALVE

FBGD - Double Eccentric Flange Butterfly Valve

SECTION **Technical drawing 1 of 2** REF **EFC-375**

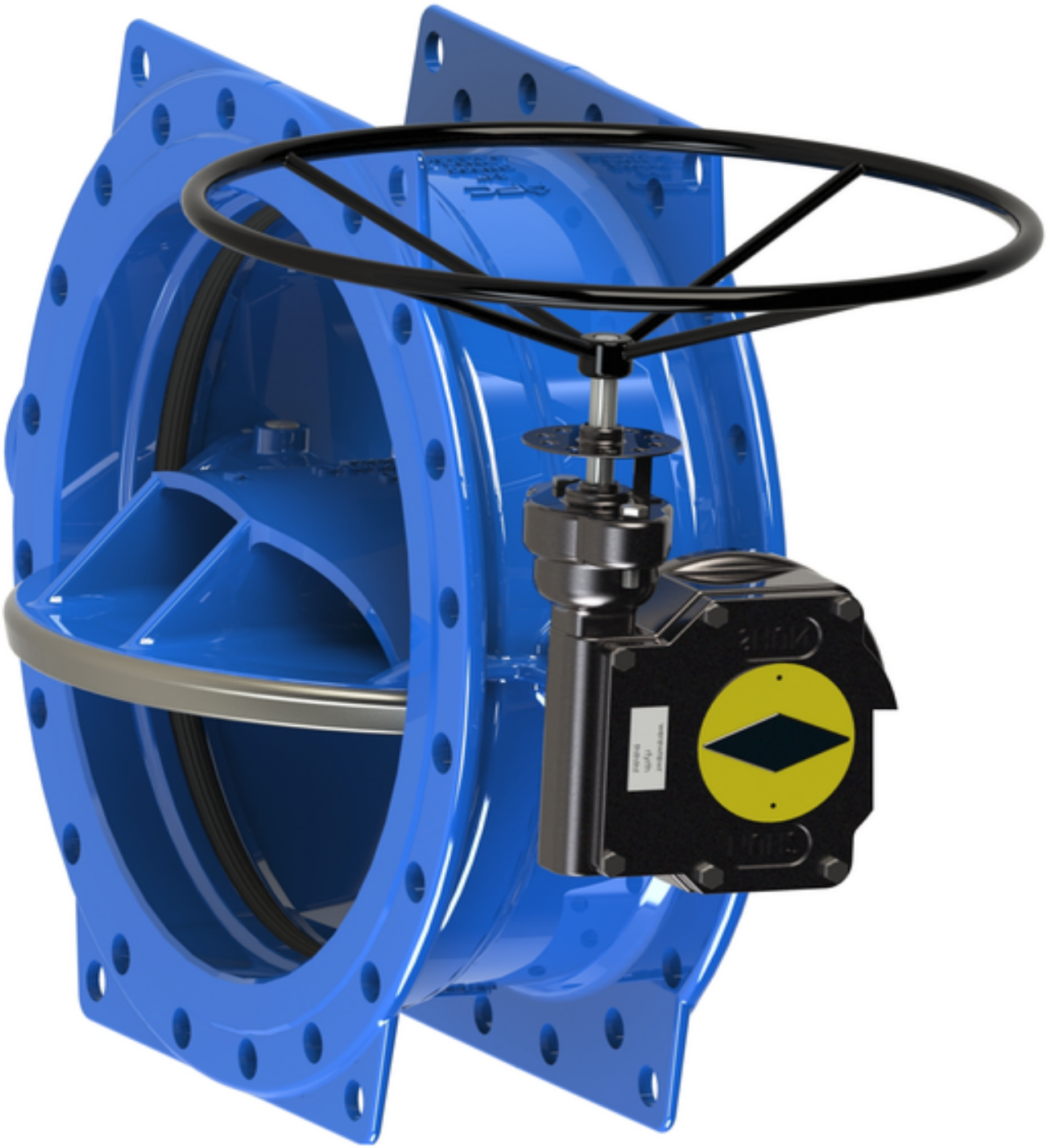


Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BUTTERFLY VALVE

FBGD - Double Eccentric Flange Butterfly Valve

SECTION **Technical drawing 2 of 2** REF **EFC-375**



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BUTTERFLY VALVE

FBGD - Double Eccentric Flange Butterfly Valve

SECTION **Dimensions per size** REF **EFC-375**

SIZE	B	KL_EN558_1	3_EN558_14	H1	H2	H3	D	C	ISO_5211	A1	B1	C1	GLAND_D1	E1
DN250 (PN10)	319	350	165	250	268	280	48	405	22	F10	31	8	45	25	20
DN250 (PN16)	—	355	165	250	268	280	48	405	22	F10	31	8	45	25	20
DN300 (PN10)	370	400	178	270	322	315	50	460	24.5	F12	36	8	45	30	18
DN300 (PN16)	370	410	178	270	322	315	50	460	24.5	F12	36	8	45	30	18
DN350 (PN10)	429	460	190	290	350	335	50	520	26.5	F12	36	8	45	30	25
DN350 (PN16)	429	470	190	290	350	335	50	520	26.5	F12	36	8	45	30	25
DN400 (PN10)	480	515	216	310	375	355	55	580	28	F14	46	12	50	40	25
DN400 (PN16)	480	525	216	310	375	355	55	580	28	F14	46	12	50	40	25
DN450 (PN10)	530	565	222	330	415	405	55	640	30	F14	46	12	50	40	25
DN450 (PN16)	548	585	222	330	415	405	55	640	30	F14	46	12	50	40	25
DN500 (PN10)	582	620	229	350	450	425	55	715	31.5	F14	46	12	50	40	25
DN500 (PN16)	609	650	229	350	450	425	55	715	31.5	F14	46	12	50	40	25
DN600 (PN10)	682	725	267	390	520	525	55	780	30	F16	52	14	50	45	25
DN600 (PN16)	720	770	267	390	520	525	55	840	36	F16	52	14	50	45	25
DN700 (PN10)	794	840	292	430	600	565	75	895	32.5	F16	68	18	70	60	25
DN700 (PN16)	794	840	292	430	600	565	75	910	39.5	F16	68	18	70	60	25
DN800 (PN10)	901	950	318	470	660	640	75	1015	35	F16	68	18	70	60	25

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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FBGD - Double Eccentric Flange Butterfly Valve

Dimensions per size (continued) · EFC-375

SIZE	B	KL_EN558_13	L3_EN558_14	H1	H2	H3	D	C	ISO_5211	A1	B1	C1	GLAND_D1	E1
DN800 (PN16)	901	950	318	470	660	640	75	1025	43	F25	68	18	70	60	25
DN900 (PN10)	1001	1050	330	510	725	718	100	1115	37.5	F25	90	22	90	80	30
DN900 (PN16)	1001	1050	330	510	725	718	100	1125	46.5	F25	90	22	90	80	30
DN1000 (PN10)	1112	1160	410	550	800	785	110	1230	40	F25	112	28	100	100	28
DN1000 (PN16)	1112	1170	410	550	800	785	110	1255	50	F25	112	28	100	100	28
DN1200 (PN10)	1328	1380	470	630	950	940	110	1455	45	F25	112	28	100	100	28
DN1200 (PN16)	1328	1390	470	630	950	940	110	1485	57	F25	112	28	100	100	28
DN1400 (PN10)	1530	1590	530	710	990	1070	150	1675	46	F30	134	32	125	120	30
DN1400 (PN16)	1530	1590	530	710	990	1070	150	1685	60	F30	134	32	125	120	30
DN1600 (PN10)	1750	1820	600	790	1080	1200	175	1915	49	F35	157	36	160	140	40
DN1600 (PN16)	1750	1820	600	790	1080	1200	175	1930	65	F35	157	36	160	140	40
DN1800 (PN10)	1950	2020	670	870	1190	1310	180	2115	52	F35	157	36	160	140	45
DN1800 (PN16)	1950	2020	670	870	1190	1310	180	2130	70	F35	157	36	160	140	45

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BUTTERFLY VALVE

Alpine Wafer Lugged Butterfly Valve

REF **EFC-376** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN300**
Pressure	**PN10 to PN16**
End connection	**wafer (EN 1092-2)**
Face-to-face	**DIN 3202, ISO 5752**

STANDARDS

Design	**EN 593, ISO 5752, DIN 3202, BS 5155, API 609, ISO 5211**
Test	**BS/ISO/GB, Seat: 1.1 x PN, Body: 1.5 x PN**

APPLICATIONS

- Water treatment
- Pump stations
- Building services
- HVAC
- Industrial water

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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MATERIALS

Body	**Ductile Iron GGG40**	Disc	**Ductile Iron, Stainless Steel, Aluminum Bronze**
Seat	**NBR, EPDM**	Shaft	**AISI 410, AISI 304, 316**
Bushings	**PTFE, Aluminum Bronze (CA103)**	Worm gear head	**Cast Iron GGG25**
Lever	**Carbon Steel**		

FEATURES

- Pinless shaft-to-disc connection provides stronger, fixed coupling and keeps the stem firm during operation
- EPDM/NBR rubber seat moulded onto the body ensures full corrosion resistance and bi-directional bubble-tight shut-off
- Hard-back seat design: dimensionally stable sealing surface, minimal seat wear, blow-out proof and field replaceable
- One-piece seat has integral O-ring for upper and lower shafts, working with disc edge hub to provide a double stem seal
- Epoxy-coated body for corrosion resistance, maximising service life
- ISO 5211 top flange for direct actuator mounting

PRESSURE-TEMPERATURE RATING

CLASS	TEMPERATURE	MAX PRESSURE
PN16	-10°C	16 bar
PN16	120°C	16 bar

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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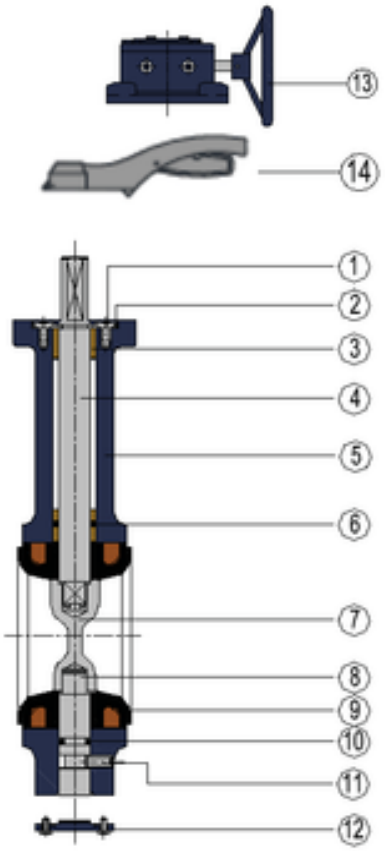
BUTTERFLY VALVE

Alpine Wafer Lugged Butterfly Valve

SECTION **Technical drawing 1 of 2** REF **EFC-376**

WB-Wafer Butterfly Valve



Parts List

No.	Part Name	Material	Standard
1	Bolts	Stainless Steel	AISI 410
2	Retaining Plate	Stainless Steel	AISI 410
3	Bushing	Plastic+Aluminum Bronze	Teflon+AL/CA103
4	Upper Shaft	Stainless Steel	AISI 410/304/316
5	Body	DI	GGG40
6	O-Ring	Rubber	NBR/EPDM
7	Disc	DI/ Stainless Steel/ Aluminum Bronze	GGG40+Nickel Plated/CF8,CF8M/ C95400 AB1
8	Bottom Shaft	Stainless Steel	AISI 410/304/306
9	Replaceable Seat	Rubber	NBR/EPDM
10	O-Ring	Rubber	NBR/EPDM
11	Bolts	Stainless Steel	Commercial
*12	Buttom Cover	DI	GGG40
13	Worm Gear Head	CI	GGG25
14	Lever	CS	Commercial

* Only for DN400 and above

Hydraulic Test:
Test Standard: BS/ISO/GB
Seat : 1.1 X PN
Body : 1.5 X PN

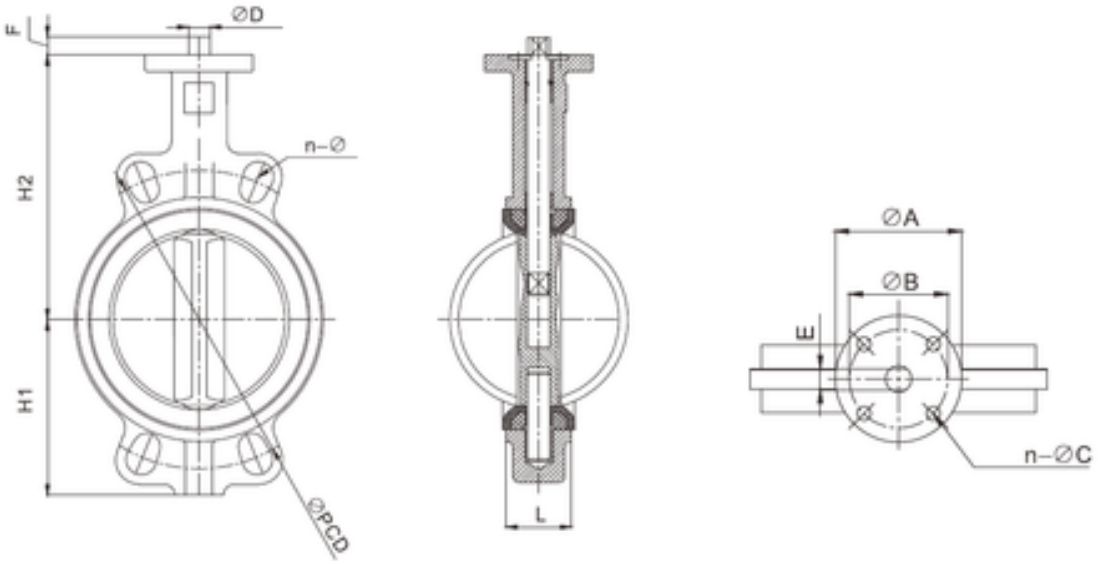
Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BUTTERFLY VALVE

Alpine Wafer Lugged Butterfly Valve

SECTION **Technical drawing 2 of 2** REF **EFC-376**

WB-Wafer Butterfly Valve



SIZE / DN	H1	H2	ΦA	ΦB	n–ΦC	ΦD	E	L	PCD	F
DN50	63	131	Φ65	Φ50	4–Φ8	Φ12.6	9	42	125	12
DN65	86.5	145.5	Φ65	Φ50	4–Φ8	Φ12.6	9	45	145	12
DN80	93	150	Φ65	Φ50	4–Φ8	Φ12.6	9	46	160	12
DN100	109	172	Φ90	Φ70	4–Φ10	Φ15.77	11	52	180	14
DN125	128	182	Φ90	Φ70	4–Φ10	Φ18.92	14	56	210	17
DN150	146	201	Φ90	Φ70	4–Φ10	Φ18.92	14	56	240	17
DN200	176	229	Φ125	Φ102	4–Φ12	Φ22.1	17	60	295	22
DN250	213	271	Φ125	Φ102	4–Φ12	Φ28.45	22	68	350	22
DN300	242	302	Φ125	Φ102	4–Φ12	Φ31.6	24	78	400	22

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BUTTERFLY VALVE

Alpine Wafer Lugged Butterfly Valve

SECTION **Dimensions per size** REF **EFC-376**

SIZE	H1	H2	A	B	D	E	L	PCD	F
DN50	63	131	65	50	12.6	9	42	125	12
DN65	86.5	145.5	65	50	12.6	9	45	145	12
DN80	93	150	65	50	12.6	9	46	160	12
DN100	109	172	90	70	15.77	11	52	180	14
DN125	128	182	90	70	18.92	14	56	210	17
DN150	146	201	90	70	18.92	14	56	240	17
DN200	176	229	125	102	22.1	17	60	295	22
DN250	213	271	125	102	28.45	22	68	350	22
DN300	242	302	125	102	31.6	24	78	400	22

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BUTTERFLY VALVE

Wafer Butterfly Valve

REF **EFC-459** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**NPS 3" to NPS 12"**
Pressure	**200 PSI**
End connection	**wafer**

ACTUATION

- Manual lever — ten-position throttling
- Pneumatic actuator — ISO 5211
- Electric actuator — ISO 5211

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	**Ductile Iron**	Disc	**Ductile Iron (Nickel Plated), Ductile Iron (Nylon Coated), Aluminium Bronze, SS316, Hastelloy C**
Seat	**EPDM, NBR, CSM, PTFE, FKM**	Stem	**410 SS**
O ring	**NBR, FKM**	Retainer ring	**Steel**

PARTS LIST

Ref	Component	Material	Qty
1	Body	Ductile Iron	**1**
2	Disc	Ductile Iron (Nickel Plated), Ductile Iron (Nylon Coated), Aluminium Bronze, SS316, Hastelloy C	**1**
3	Seat	NBR, EPDM, CSM, PTFE, FKM	**1**
4	Upper Stem	410 Stainless Steel	**1**
5	Lower Stem	410 Stainless Steel	**1**
6	O-Ring	NBR, FKM	**2**
7	Retainer Ring	Steel	**2**

FEATURES

- Ten-position lever handle for precise throttling
- One-piece phenolic-backed controlled-torque elastomer seat for tight shut-off
- Split-stem design self-centres the disc around the seat
- External grease fitting for long-term effortless operation
- Gear, pneumatic or electric actuation available
- ATEX (Ex) version available; certification to be confirmed for this build

ACTUATION TORQUE

Size	200 PSI (13.8 bar) N·m	200 PSI (13.8 bar) in·lb	50 PSI (3.4 bar) N·m	50 PSI (3.4 bar) in·lb
NPS 3" / DN80	**34**	300	**22**	195
NPS 4" / DN100	**51**	450	**31**	270
NPS 6" / DN150	**102**	900	**62**	550
NPS 8" / DN200	**169**	1500	**113**	1000
NPS 10" / DN250	**301**	2660	**203**	1800
NPS 12" / DN300	**508**	4500	**395**	3500

Wet opening torque, indicative. Size the actuator with margin and confirm at quotation. Source values in in·lb shown for reference.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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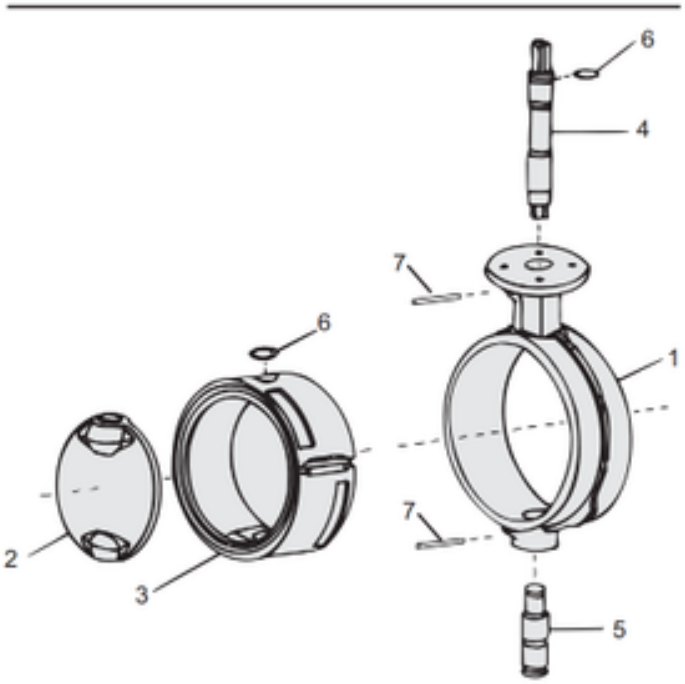
BUTTERFLY VALVE

Wafer Butterfly Valve

SECTION **Technical drawing 1 of 2** REF **EFC-459**

REF. NO.	COMPONENT DESCRIPTION	MATERIALS AVAILABLE	NO. REQ.
1	Body	Ductile Iron	1
2	Disc	Aluminum Bronze Ductile Iron, Nylon Coated, Stainless Steel, Hastalloy C	1
3	Seat	Buna N, EPDM, Hypalon, Teflon, Viton	1
4	Upper Stem	410 Stainless Steel	1
5	Lower Stem	410 Stainless Steel	1
6	O-Ring	Buna N, Viton	2
7	Retainer Ring	Steel	2

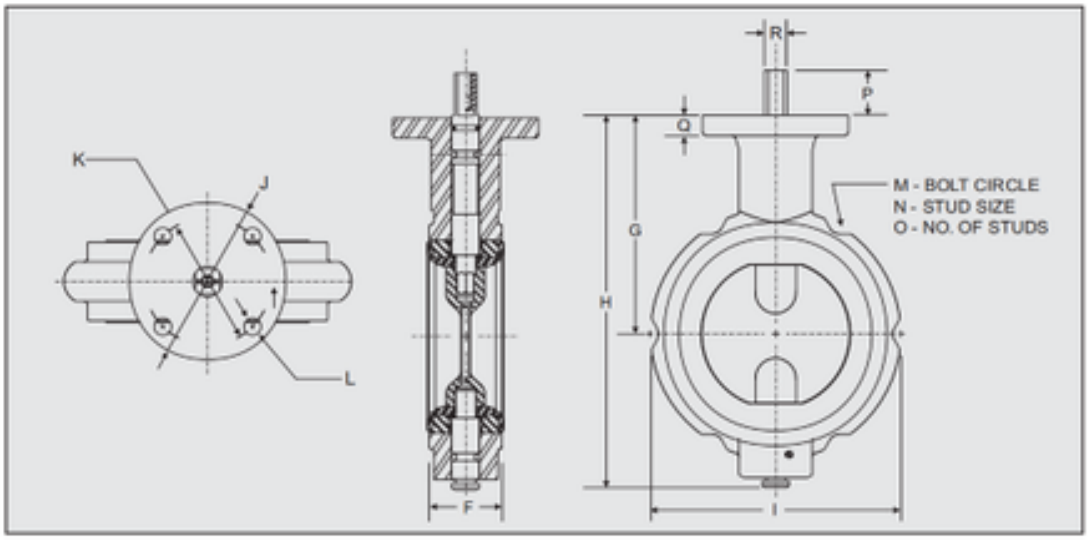


Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BUTTERFLY VALVE

Wafer Butterfly Valve

SECTION **Technical drawing 2 of 2** REF **EFC-459**



DIMENSIONS (Dimensions in Inches)

VALVE SIZE	F	G	H	I	J	K	L	M	N	O	P	Q	R
3"	1.86	4.88	8.19	5.38	4.00	3.25	0.408	4.91	3/8	6.00	1.00	0.44	0.51
4"	2.11	6.00	9.88	6.88	4.00	3.25	0.408	7.03	1/2	6.00	1.00	0.44	0.63
5"	2.14	6.00	11.10	8.10	4.00	3.25	0.408	8.44	1/2	8.00	1.00	0.55	0.62
6"	2.20	6.50	11.75	8.75	4.00	3.25	0.408	9.16	1/2	8.00	1.25	0.44	0.75
8"	2.40	8.20	14.50	11.00	6.00	5.00	0.533	11.72	5/8	8.00	1.70	0.65	0.87
10"	2.65	9.97	18.00	13.38	6.00	5.00	0.533	13.72	5/8	8.00	1.80	0.56	1.14
12"	3.24	10.91	20.41	16.12	6.00	5.00	0.533	16.62	1/2	12.00	1.38	0.56	1.26

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

Wafer Butterfly Valve

Dimensions per size · EFC-459

Dimension	NPS 3" / DN80	NPS 4" / DN100	NPS 5" / DN125	NPS 6" / DN150	NPS 8" / DN200	NPS 10" / DN250	NPS 12" / DN300
Face-to-face (inch)	1.86	2.11	2.14	2.2	2.4	2.65	3.24
Centreline to mounting face (inch)	4.88	6	6	6.5	8.2	9.97	10.91
Overall height (inch)	8.19	9.88	11.1	11.75	14.5	18	20.41
Body diameter/width (inch)	5.38	6.88	8.1	8.75	11	13.38	16.12
Top mounting PCD (inch)	4	4	4	4	6	6	6
Top mounting bolt centres (inch)	3.25	3.25	3.25	3.25	5	5	5
Mounting hole diameter (inch)	0.408	0.408	0.408	0.408	0.533	0.533	0.533
Flange bolt circle (inch)	4.91	7.03	8.44	9.16	11.72	13.72	16.62
Stud size (inch)	3/8	1/2	1/2	1/2	5/8	5/8	1/2
Number of studs	6	6	8	8	8	8	12
Mounting flange thickness (inch)	1	1	1	1.25	1.7	1.8	1.38
Stem projection (inch)	0.44	0.44	0.55	0.44	0.65	0.56	0.56
Stem diameter (inch)	0.51	0.63	0.62	0.75	0.87	1.14	1.26

Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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Wafer Butterfly Valve

Material selection · EFC-459

DISC MATERIAL SELECTION

Medium	Ductile Iron (Nickel Plated)	Ductile Iron (Nylon Coated)	Aluminium Bronze	SS316	Hastelloy C
Acetic Acid	N	G	N	E	E
Brine (Liquid)	N	E	G	E	N
Carbon Dioxide (Wet)	N	E	N	E	N
Diesel Fuel	E	E	E	E	E
Cement (Dry)	N	N	E	N	N
Cement (Slurry)	N	N	E	N	N
Drilling Mud	N	N	E	N	N
Gel Water	N	N	E	N	N
Hydrofluoric Acid	N	G	N	N	E
Hydrochloric Acid	N	G	N	N	E
Sea Mud	N	N	E	N	N
Xylene	G	E	E	E	E

E = Excellent · G = Good · N = Not recommended

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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SEAT MATERIAL SELECTION

Medium	EPDM	NBR	FKM	PTFE
Acetic Acid	N	N	N	E
Brine (Liquid)	E	E	E	E
Carbon Dioxide (Wet)	E	G	E	E
Diesel Fuel	N	E	E	E
Cement (Dry)	G	G	G	N
Cement (Slurry)	G	G	G	N
Drilling Mud	N	G	G	N
Gel Water	N	N	E	N
Hydrofluoric Acid	G	N	G	E
Hydrochloric Acid	E	N	G	E
Sea Mud	N	N	G	N
Xylene	E	E	E	E

E = Excellent · G = Good · N = Not recommended

Indicative material suitability. Confirm final selection for the service medium at quotation.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

OTHER

Bronze Pressure Reducing Valve

REF **EFC-178** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN15 to DN100**
Pressure	**20 bar**
End connection	**threaded (BSPT)**
Temperature	**0°C to 170°C**
Media	**water, gas**

APPLICATIONS

- water
- gas

MATERIALS

Body	**Bronze Rg5**	Mesh	**SS 304**
O ring	**NBR**	Core	**CuZn40Pb2**
Bonnet	**Bronze Rg5**	Spring	**Silicon Manganese Steel**
Stem gasket	**CuZn39Pb2**	Cap	**CuZn39Pb2**
Disc	**CuZn39Pb2**	Gasket	**NBR**
Stem	**CuZn39Pb2**	Connection plug	**CuZn39Pb2**
Diaphragm	**NBR+Polytene**		

FEATURES

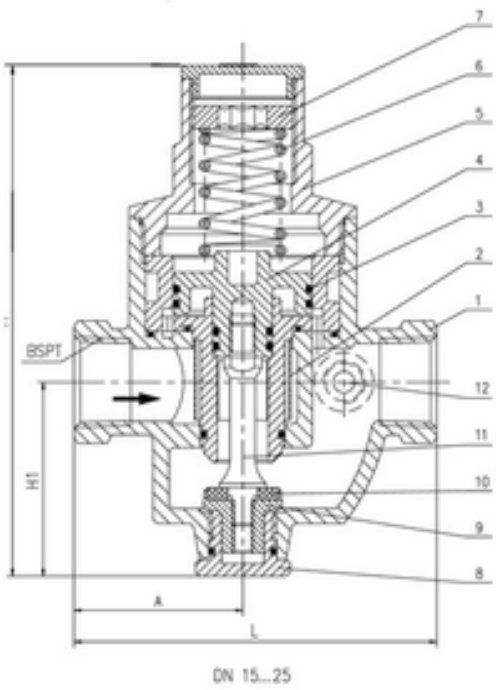
- Diaphragm-type pressure reducing mechanism
- Adjustable outlet pressure
- Outlet pressure range DN15 - DN25: 1-4 bar
- Outlet pressure range DN32 - DN100: 1-5 bar
- Two construction variants: DN15-25 and DN32-100 with differing internal geometry
- Integral mesh strainer element

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

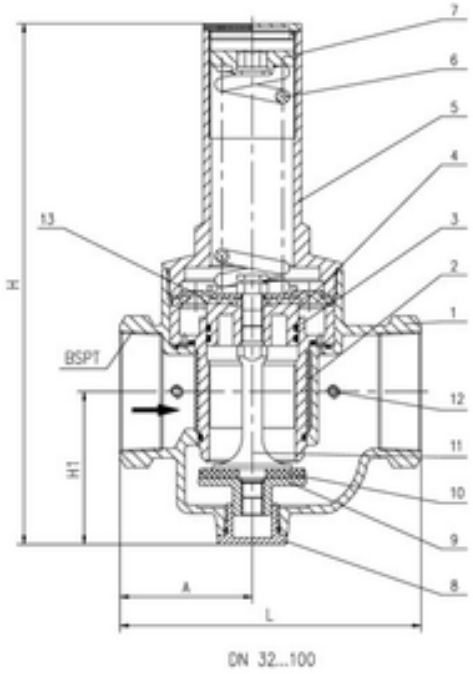
OTHER

Bronze Pressure Reducing Valve

SECTION **Technical drawing 1** REF **EFC-178**



DN 15...25



DN 32...100

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

OTHER

Bronze Pressure Reducing Valve

SECTION **Dimensions per size** REF **EFC-178**

SIZE	L	A	H	H1	L1
DN15	89	41.5	121	46	—
DN20	92	43	121	46	—
DN25	98	46	121	46	—
DN32	126	55	192	62	—
DN40	126	55.5	192	62	—
DN50	168	—	272	85	72
DN65	174	—	272	85	75.5
DN80	225	—	385	113	98.5
DN100	230	—	385	113	104.5

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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OTHER

Sounding Cocks Valve 90 Stop Turning Lever

REF **EFC-180** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN32 to DN65**
Pressure	**PN 2.5**
End connection	**threaded (DIN 259 / ISO R 228)**
Media	**sounding / tank gauging applications**

ACTUATION

• manual lever — 90° stop turning lever, GG-25 handle lever

STANDARDS

Design	**DIN 86 120**

MATERIALS

Body	**G-CuSn 5 Zn Pb**	Cock	**G-CuSn 5 Zn Pb**
Bonnet	**G-CuSn 5 Zn Pb**	O ring	**NBR**
Gasket	**NBR**	Dust cap	**G-CuSn 5 Zn Pb**
Handlelever	**GG-25**	Nut	**8,8**
Test valve	**CuSn 39 Pb 2 F37**		

FEATURES

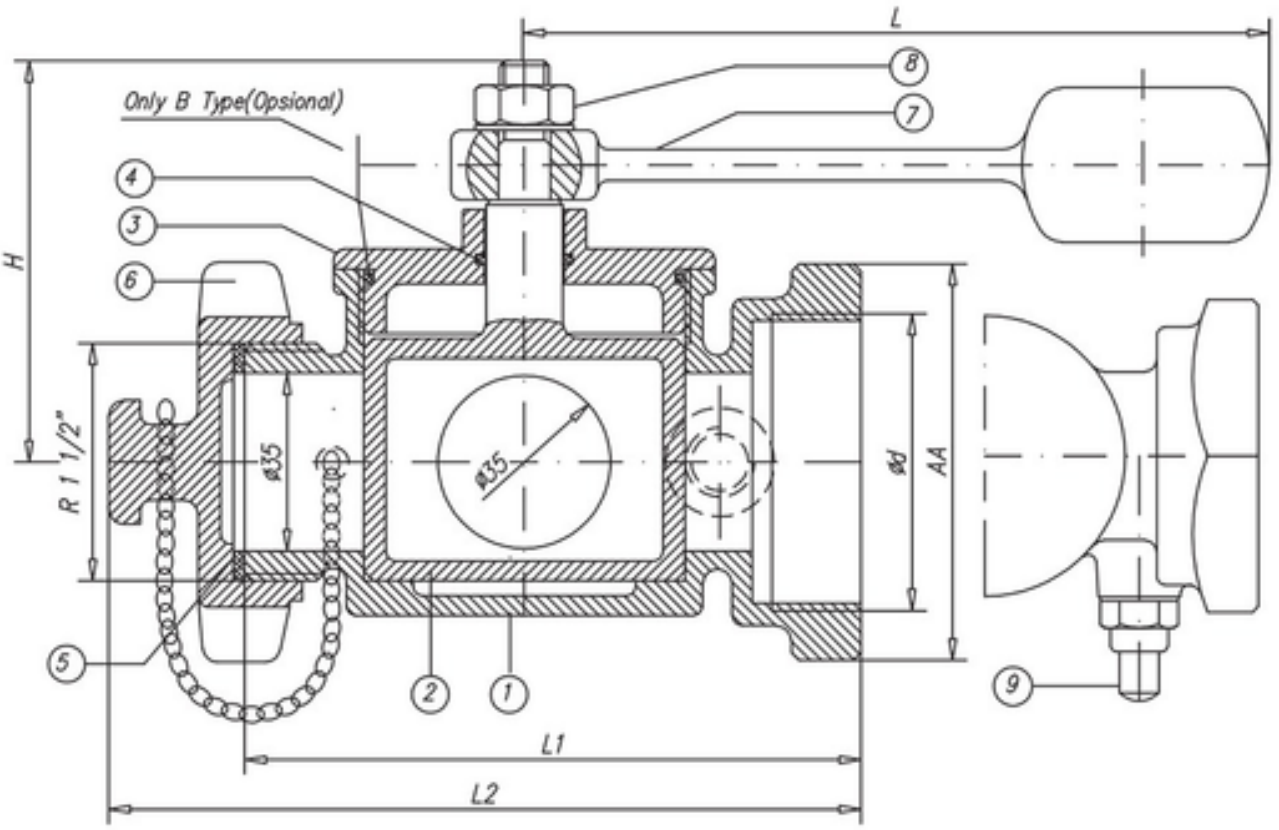
- Full bore design
- 90° stop turning lever operation
- Threaded end connections
- Integrated test valve (item 9)
- Dust cap included
- Optional Type B configuration available

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

OTHER

Sounding Cocks Valve 90 Stop Turning Lever

SECTION **Technical drawing 1** REF **EFC-180**



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

OTHER

Sounding Cocks Valve 90 Stop Turning Lever

SECTION **Dimensions per size** REF **EFC-180**

SIZE	L1	L2	H	OD	AA	L	WEIGHT
DN32	120	135	85	1 1/4" inch	55	190	3.5 kg
DN40	125	140	85	1 1/2" inch	55	190	4 kg
DN50	125	140	85	2" inch	70	190	4.5 kg
DN65	130	145	85	2 1/2" inch	85	190	5 kg

Dimensions in inches unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

OTHER

Sounding Cocks PN 4 360 Turning Lever

REF **EFC-181** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN32 to DN65**
Pressure	**PN 2.5**
End connection	**threaded (DIN 259 / ISO R 228)**

ACTUATION

• manual lever — 360° rotating lever, GG-25 grey cast iron

STANDARDS

Design	**DIN 86 120**

MATERIALS

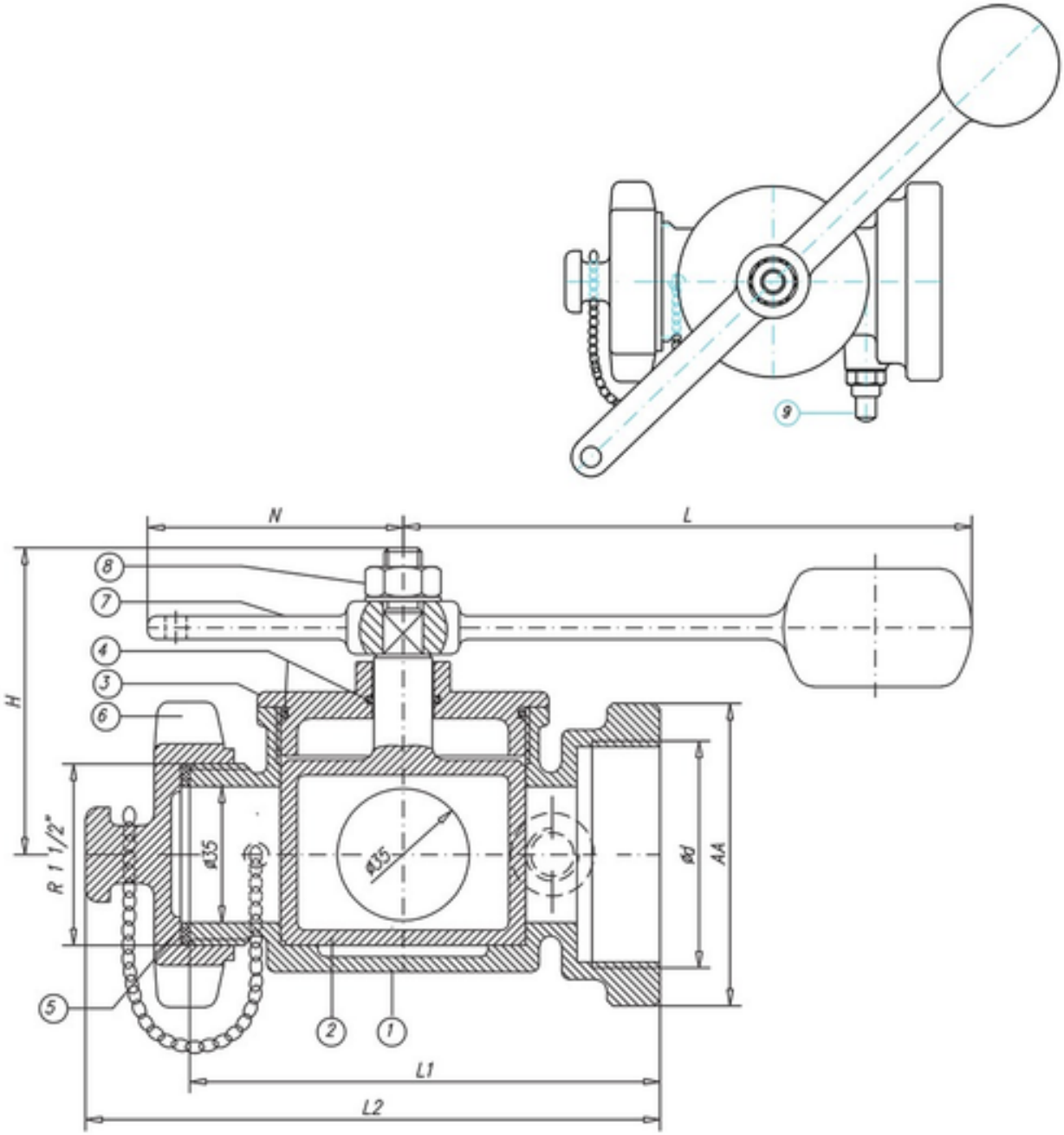
Body	**CC491K(Rg-5 Bronze)**	Cock	**CC491K(Rg-5 Bronze)**
Bonnet	**CC491K(Rg-5 Bronze)**	O ring	**NBR**
Gasket	**NBR**	Dust and cap	**CC491K(Rg-5 Bronze)**
Handlever	**GG-25**	Nut	**8.8**
Test valve	**CW453K(CuSn8)**		

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

OTHER

Sounding Cocks PN 4 360 Turning Lever

SECTION **Technical drawing 1** REF **EFC-181**



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

OTHER

Sounding Cocks PN 4 360 Turning Lever

SECTION **Dimensions per size** REF **EFC-181**

SIZE	L1	L2	H	AA	L	N	OD	WEIGHT
DN32	120	135	85	55	180	95	null inch	3.5 kg
DN40	125	140	85	55	180	95	null inch	4 kg
DN50	125	140	85	70	180	95	null inch	4.5 kg
DN65	130	145	85	85	180	95	null inch	5 kg

Dimensions in inches unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

OTHER

Invert Bucket Steam Trap (Bottom Inlet-Top Outlet)

REF **EFC-183** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN15 to DN50**
Pressure	**PN16**
End connection	**threaded (ISO 228/1)**
Face-to-face	**ISO 228/1**
Media	**steam, condensate**

MATERIALS

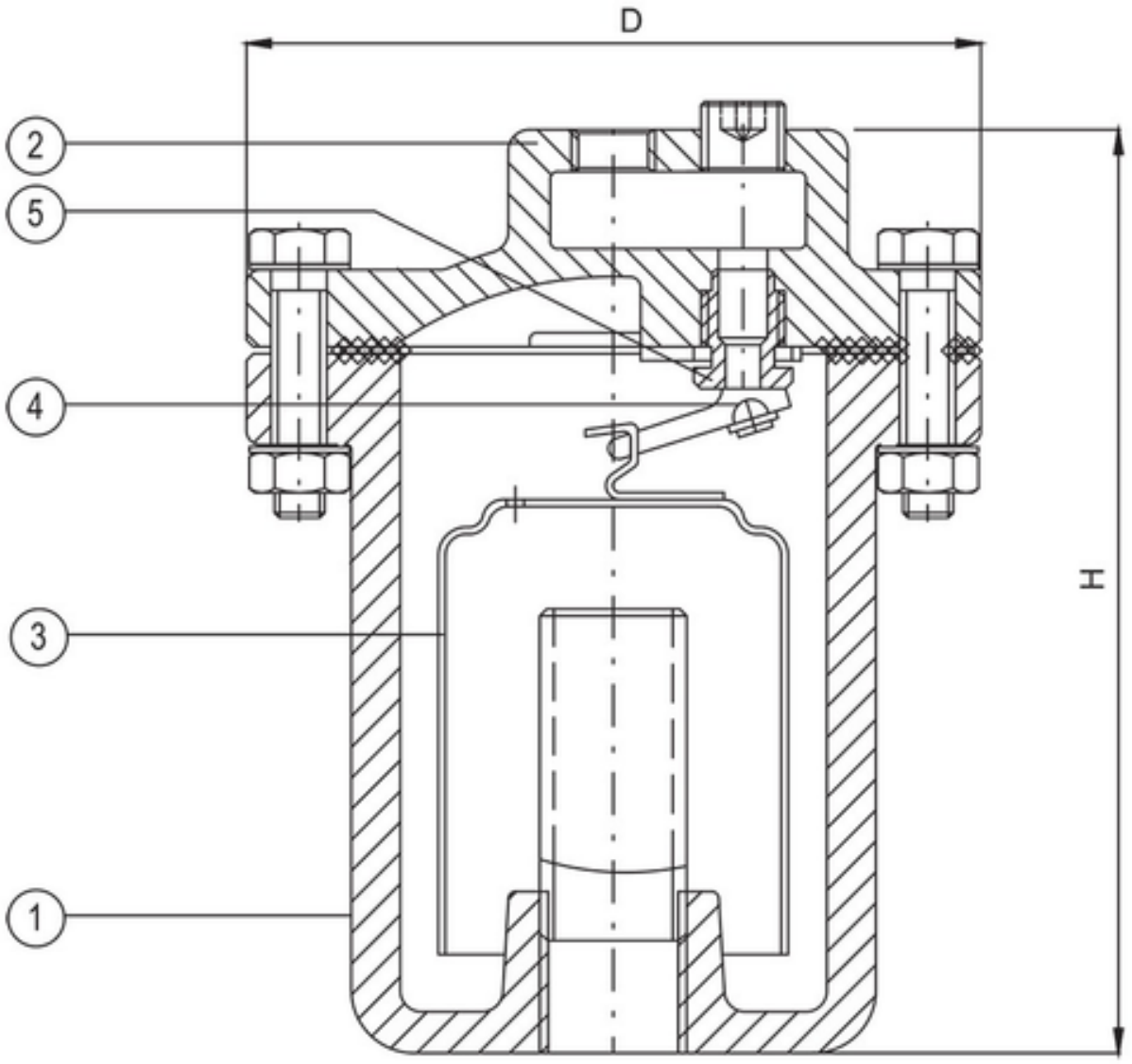
Body	**GG 25, GGG-40**	Bonnet	**GG 25, GGG-40**
Bucket	**1.4301**	Valve	**1.4021**
Orifice	**1.4021**		

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

OTHER

Invert Bucket Steam Trap (Bottom Inlet-Top Outlet)

SECTION **Technical drawing 1** REF **EFC-183**



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

OTHER

Invert Bucket Steam Trap (Bottom Inlet-Top Outlet)

SECTION **Dimensions per size** REF **EFC-183**

SIZE	G	L	A	WEIGHT
DN15	108	160	R1/2" inch	2.8 kg
DN20	136	200	R3/4" inch	6 kg
DN25	184	270	R1" inch	13 kg
DN32	188	310	R1 1/4" inch	16 kg
DN40	216	360	R1 1/2" inch	24 kg
DN50	280	425	R2" inch	45 kg

Dimensions in inches unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

OTHER

Invert Bucket Steam Trap (Threaded)

REF **EFC-184** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN15 to DN32**
Pressure	**PN16**
End connection	**threaded (ISO 228/1)**
Face-to-face	**ISO 228/1**

MATERIALS

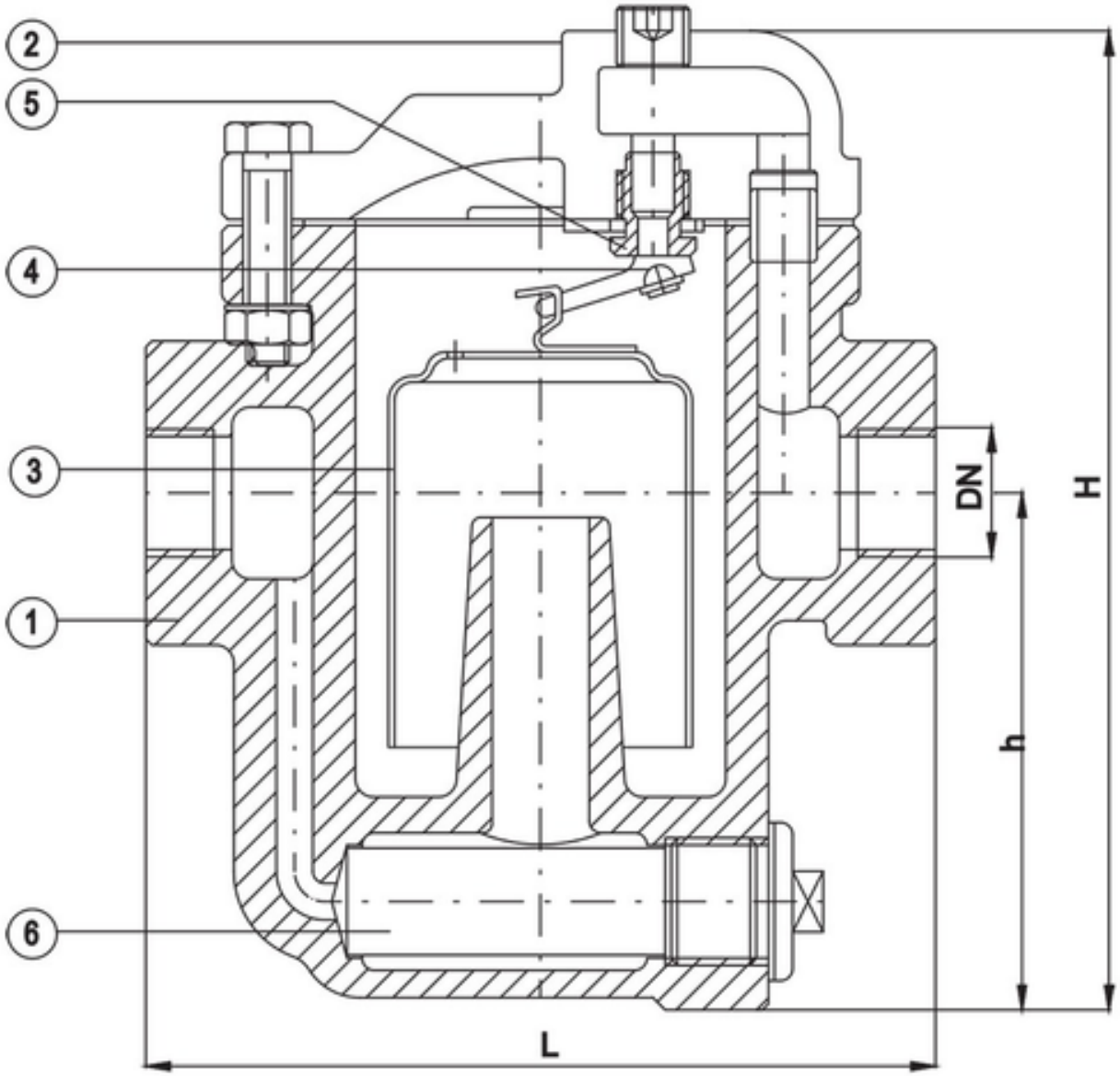
Body	**GG 25, GGG-40**	Bonnet	**GG 25, GGG-40**
Bucket	**1.4301**	Valve	**1.4021**
Orifice	**1.4021**	Filter	**1.4301**

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

OTHER

Invert Bucket Steam Trap (Threaded)

SECTION **Technical drawing 1** REF **EFC-184**



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

OTHER

Invert Bucket Steam Trap (Threaded)

SECTION **Dimensions per size** REF **EFC-184**

SIZE	L	H	H	WEIGHT
DN15	125	81	150	3.1 kg
DN20	170	146	238	8.5 kg
DN25	207	187	320	16 kg
DN32	230	187	320	20 kg

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

OTHER

Invert Bucket Steam Trap (Flanged)

REF **EFC-185** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN15 to DN50**
Pressure	**PN16**
End connection	**flanged (DIN 2501)**
Face-to-face	**DIN 2501**

MATERIALS

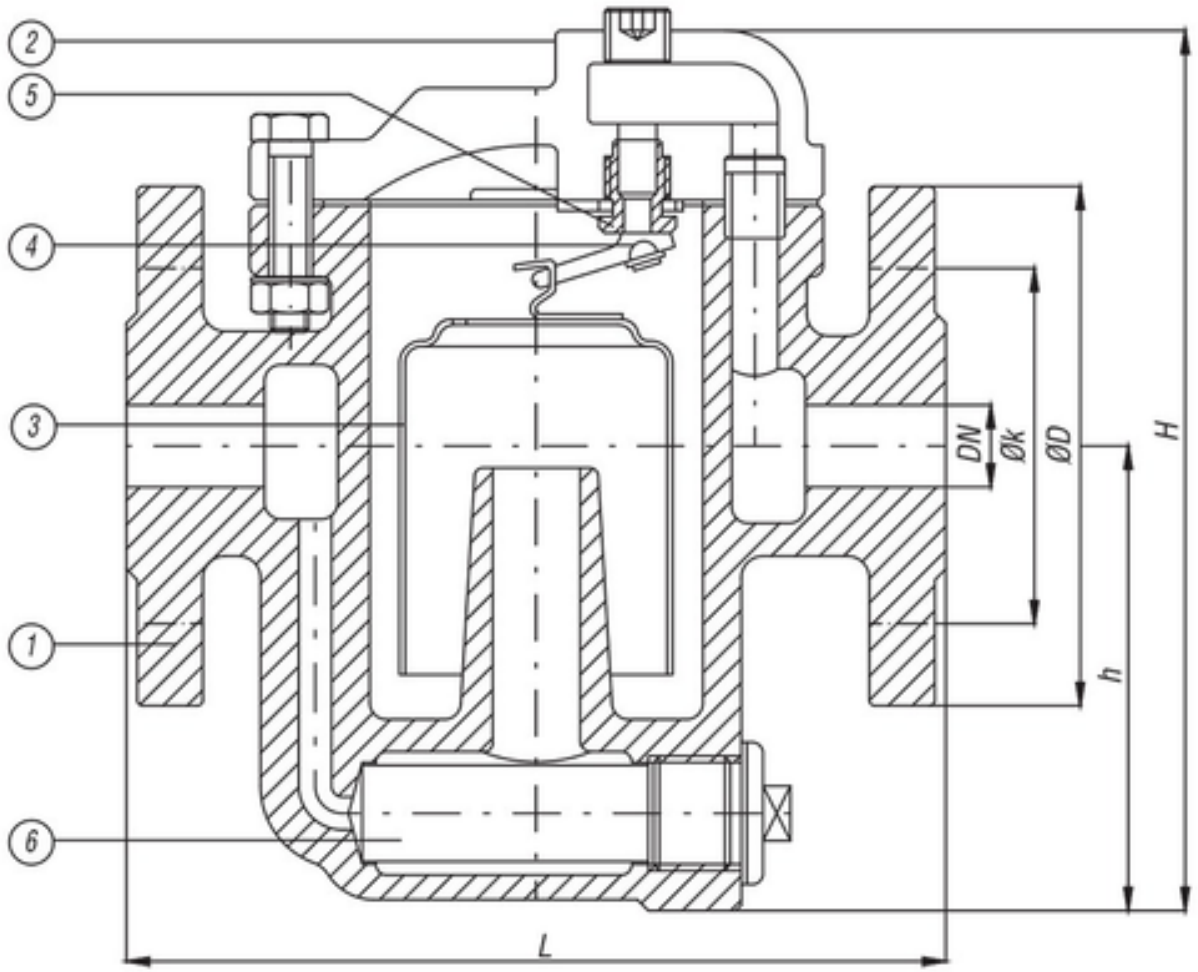
Body	**GG 25, GGG-40**	Cover	**GG 25, GGG-40**
Bucket	**1.4301**	Valve	**1.4021**
Orifice	**1.4021**	Filter	**1.4301**

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

OTHER

Invert Bucket Steam Trap (Flanged)

SECTION **Technical drawing 1** REF **EFC-185**



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

OTHER

Invert Bucket Steam Trap (Flanged)

SECTION **Dimensions per size** REF **EFC-185**

SIZE	L	H	H	D	K	WEIGHT
DN15	156	81	150	95	65	4.2 kg
DN20	200	146	238	105	75	9 kg
DN25	240	187	320	115	85	17 kg
DN32	260	187	320	140	100	21 kg
DN40	280	200	370	150	110	29 kg
DN50	300	200	370	165	125	30 kg

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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OTHER

Termodynamic Steam Trap

REF **EFC-186** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN15 to DN25**
Pressure	**PN16**
End connection	**threaded (ISO 228/1)**
Face-to-face	**ISO 228/1**

MATERIALS

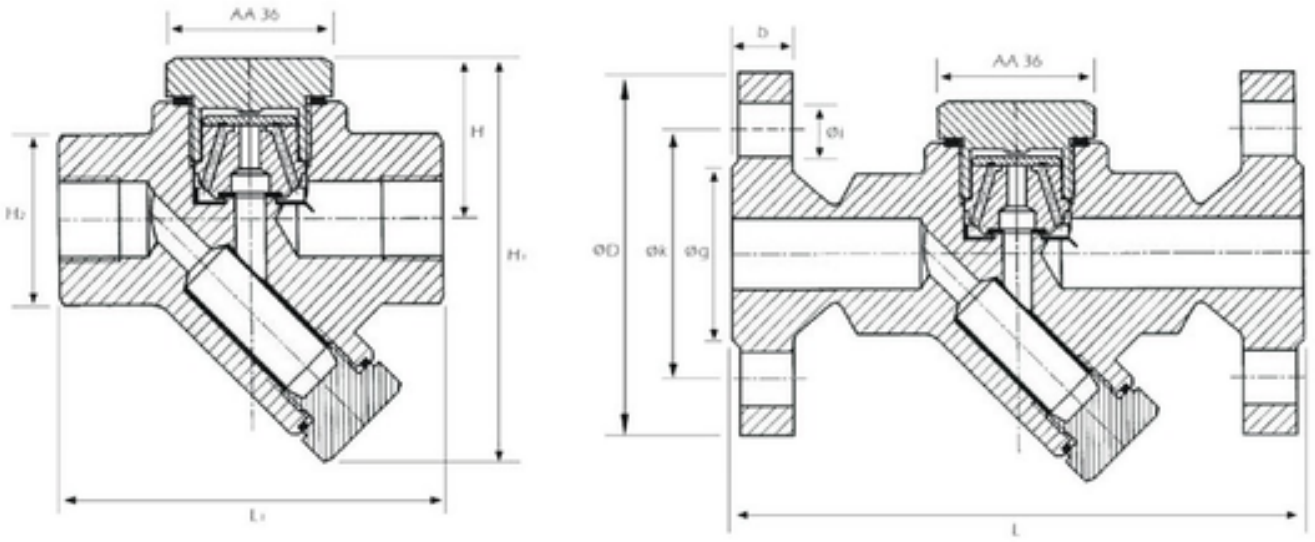
Body	**Forged Steel ASTM A1 05**	Bonnet	**Forged Steel AISI 304AI 05**
Cover gasket	**Stainless Steel**	Disc	**Stainless Steel**
Seat	**Stainless Steel**		

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

OTHER

Termodynamic Steam Trap

SECTION **Technical drawing 1** REF **EFC-186**



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

OTHER

Termodynamic Steam Trap

SECTION **Dimensions per size** REF **EFC-186**

SIZE	L-L1	H-H1-H2	D	B	K	G	I
DN15	150-95	40-100-42	95	16	65	45	14
DN20	150-95	40-100-42	105	18	75	58	14
DN25	160-95	40-100-42	115	18	85	68	14

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

GLOBE VALVE

Bronze SDSL Globe Valve - BSPT

REF **EFC-71** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN15 to DN50**
Pressure	**16 bar**
End connection	**threaded (BSPT)**
Temperature	**null°C to 170°C**
Media	**water, oil, gas**

ACTUATION

- manual handwheel

APPLICATIONS

- water
- oil and gas

MATERIALS

Body	**Bronze Rg5**	Bonnet	**Bronze Rg5**
Disc	**Bronze Rg5**	Stem	**Brass**
Packing	**PTFE**	Handwheel	**Aluminum**
Nut	**Brass**	Nameplate	**Aluminum**

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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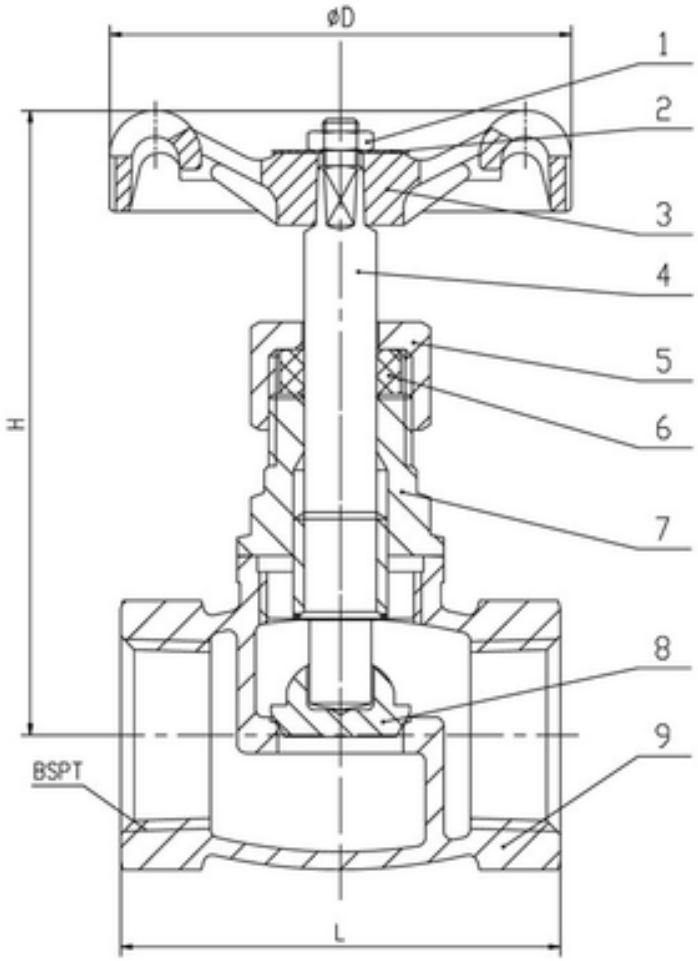
GLOBE VALVE

Bronze SDSL Globe Valve - BSPT

SECTION **Technical drawing 1** REF **EFC-71**



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

GLOBE VALVE

Bronze SDSL Globe Valve - BSPT

SECTION **Dimensions per size** REF **EFC-71**

SIZE	L	OD	H
DN15	49	52	71
DN20	56	60	73
DN25	66	65	87
DN32	74	70	95
DN40	85	78	110
DN50	100	92	124

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

GLOBE VALVE

Bronze SDNR Globe Valve - BSPT

REF **EFC-72** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN15 to DN50**
Pressure	**16 Bar**
End connection	**threaded (BSPT)**
Temperature	**null°C to 170°C**
Media	**water, oil, gas**

ACTUATION

- manual handwheel

APPLICATIONS

- water
- oil
- gas

MATERIALS

Body	**Bronze Rg5**	Bonnet	**Bronze Rg5**
Disc	**Bronze Rg5**	Stem	**Brass**
Packing	**PTFE**	Handwheel	**Aluminum**
Nut 1	**Brass**	Nut 5	**Brass**
Nameplate	**Aluminum**		

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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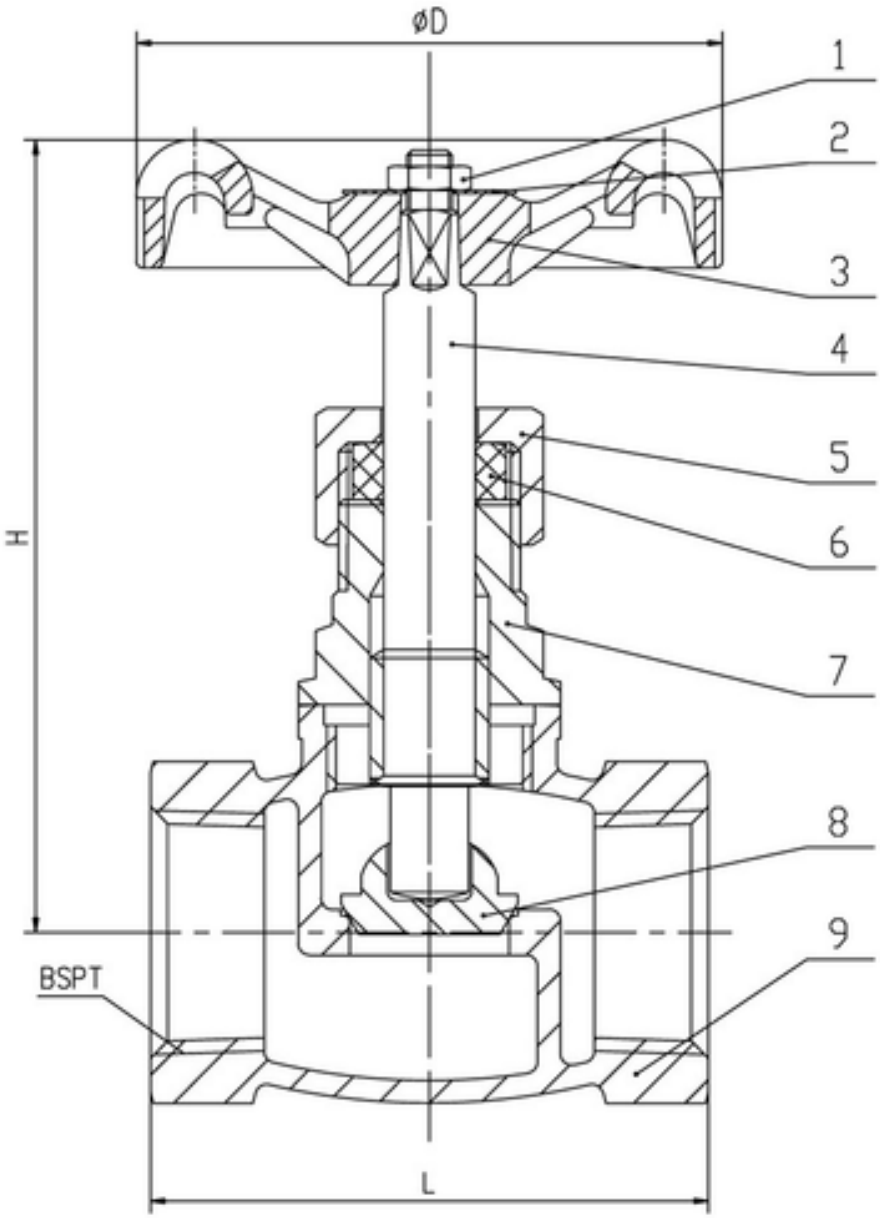
GLOBE VALVE

Bronze SDNR Globe Valve - BSPT

SECTION **Technical drawing 1** REF **EFC-72**



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

GLOBE VALVE

Bronze SDNR Globe Valve - BSPT

SECTION **Dimensions per size** REF **EFC-72**

SIZE	L	D	H
DN15	49	52	71
DN20	56	60	73
DN25	66	65	87
DN32	74	70	95
DN40	85	78	110
DN50	100	92	124

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

FLOAT VALVE

Angle Float Valve

REF **EFC-144** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN40 to DN600**
Pressure	**PN10 to PN16**
End connection	**flanged (EN 1092-2/B) / flanged (EN 1092-2/B)**
Face-to-face	**EN 558 Serie 8, DIN 3202 F32**
Media	**water**

STANDARDS

Design	**DIN 3356**
Test	**EN 12266**

APPLICATIONS

- water storage tanks
- water level control

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	**GG 25, GGG-40**	Seat	**Ms 58, Ms 1,4021**
Seat ring	**Ms 58, Ms 1,4021**	Bonnet	**GG 25, GGG-40**
Disc	**Ms 58, Ms 1,4021**	Cup washer	**St 37, NBR**
Stem	**1,4021**	Seal	**EPDM**
Bolt	**8,8**	Fulcrum	**GG 25, GGG-40**
Lever	**St 37**	Pin	**1,4021**
Float	**Bronze, St 37, SS420, SS 304**		

FEATURES

- Angle-pattern body configuration
- Float-actuated closure via lever and fulcrum mechanism
- Closes automatically when water reaches set level
- Float available in multiple materials including bronze, carbon steel, SS420 and SS304
- Seat and disc in brass (Ms 58) or stainless steel (1.4021)
- Body and fulcrum in grey or ductile cast iron

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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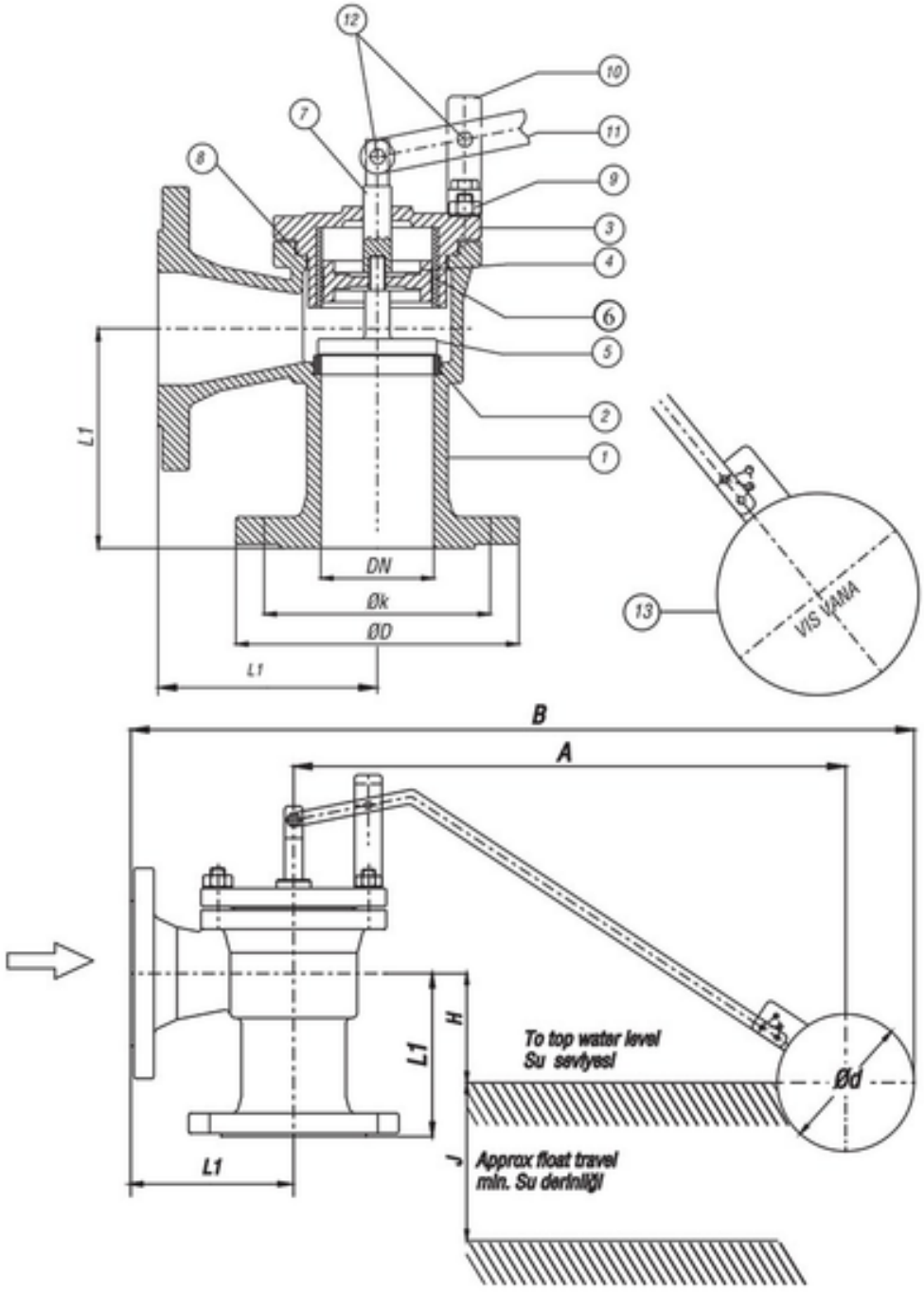
FLOAT VALVE

Angle Float Valve

SECTION **Technical drawing 1** REF **EFC-144**



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

FLOAT VALVE

Angle Float Valve

SECTION **Dimensions per size** REF **EFC-144**

SIZE	L1	A	B	H	J	OD	D_PN10	K_PN10	D_PN16	K_PN16	WEIGHT
DN40	115	1295	1555	172	450	280	150	110	150	110	19 kg
DN50	125	1295	1555	172	450	280	165	125	165	125	20 kg
DN65	145	1460	1740	305	546	320	185	145	185	145	30 kg
DN80	155	1460	1740	305	546	320	200	160	200	160	35 kg
DN100	175	1535	1855	330	700	350	220	180	220	180	55 kg
DN125	200	1850	2260	330	700	350	250	210	250	210	70 kg
DN150	225	2145	2675	340	920	400	285	240	285	240	100 kg
DN200	275	2545	3070	455	1230	400	340	295	340	295	180 kg
DN250	325	3035	3620	455	1580	500	395	350	405	355	270 kg
DN300	375	3035	3620	455	1580	500	445	400	460	410	370 kg

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

FLOAT VALVE

Float Valve

REF **EFC-145** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN40 to DN600**
Pressure	**PN10 to PN16**
End connection	**flanged (EN 1092-2/B)**
Face-to-face	**EN 558 Serie 1, DIN 3202 F1**

STANDARDS

Design	**DIN 3356**
Test	**EN 12266**

MATERIALS

Body	**GG 25, GGG-40**	Seat	**Ms 58, 1.4021**
Seal	**EPDM**	Disc	**Ms 58, 1.4021**
Bonnet	**GG 25, GGG-40**	Gasket	**EPDM**
Stem	**1.4021**	Packing nut	**Ms 58, 1.4021**
O ring	**EPDM**	Fulcrum	**St 37**
Lever	**St 37**	Pin	**1.4021**
Float	**Copper, AISI 304-316**		

FEATURES

- Float-actuated lever mechanism controls valve based on liquid level
- EPDM sealing elements for seat, seal, gasket and O-ring
- Stainless steel or brass stem and seat ring options
- Float sphere available in copper or AISI 304-316 stainless steel
- Cast iron body (GG 25 or GGG-40) compatible with PN10 and PN16 flanges

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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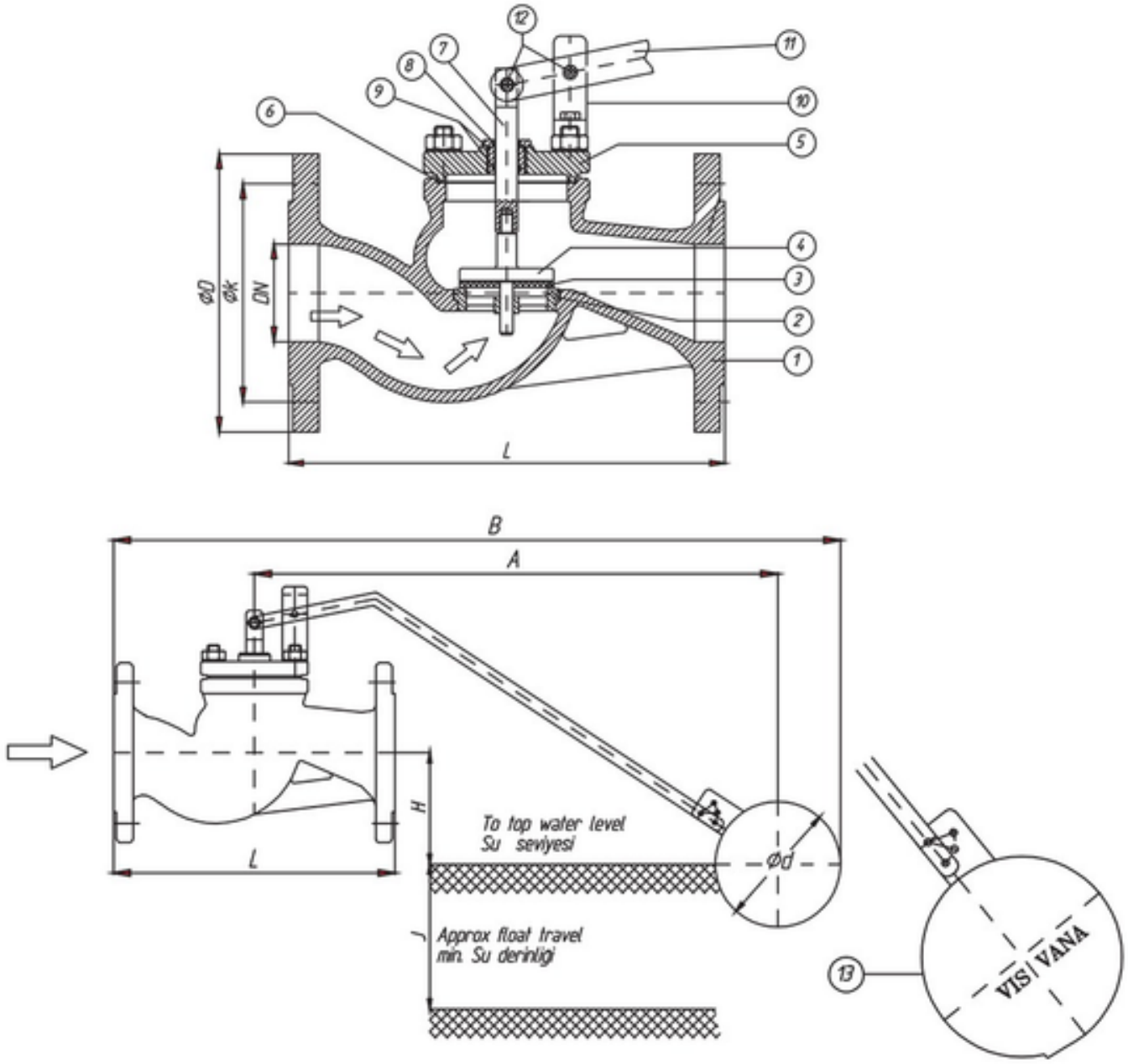
FLOAT VALVE

Float Valve

SECTION **Technical drawing 1** REF **EFC-145**



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

FLOAT VALVE

Float Valve

SECTION **Dimensions per size** REF **EFC-145**

SIZE	L	A	B	H	J	OD	PN10 D	PN10 K	PN10 BOLTS	PN16 D	PN16 K	PN16 BOLTS	WEIGHT
DN40	200	1295	1562	172	463	280	150	110	4xØ18	150	110	4xØ18	19 kg
DN50	230	1295	1562	172	463	280	165	125	4xØ18	165	125	4xØ18	20 kg
DN65	290	1460	1755	305	545	320	185	145	8xØ18	185	145	8xØ18	30 kg
DN80	310	1460	1755	305	545	320	200	160	8xØ18	200	160	8xØ18	35 kg
DN100	350	1535	1890	330	546	350	220	180	8xØ18	220	180	8xØ18	55 kg
DN125	400	1850	2305	340	721	350	250	210	8xØ18	250	210	8xØ18	70 kg
DN150	480	1850	2305	340	721	400	285	240	8xØ22	285	240	8xØ22	100 kg
DN200	600	2145	2995	340	907	400	340	295	8xØ22	340	295	12xØ22	180 kg
DN250	730	2345	3150	455	1150	500	400	350	12xØ22	400	355	12xØ22	270 kg
DN300	850	2995	3700	455	1502	500	455	400	12xØ22	455	410	16xØ22	370 kg

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

ACCESSORY

Float Valve Switch

REF **EFC-404** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**15 to 80**
Pressure	**10**
End connection	**undefined / undefined**

APPLICATIONS

- Tank level control
- Reservoir management
- High/low level shutoff
- Float-operated flow control

MATERIALS

Body	**304**

FEATURES

- All 304 stainless steel construction
- Polished float ball
- Pressure range up to 10 Bar; 20 Bar upon request
- Silicone/EPDM seat
- Working temperature up to 80°C
- Fullbore for high flow
- Connections in Thread or Flanged

PRESSURE-TEMPERATURE RATING

CLASS	TEMPERATURE	MAX PRESSURE
—	80°C	10 bar

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

ACCESSORY

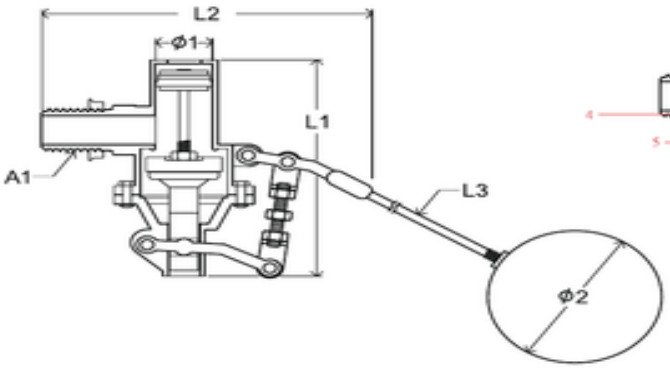
Float Valve Switch

SECTION **Technical drawing 1** REF **EFC-404**

Float Valve Switch

- All 304 stainless steel construction.
- Polished float ball.
- Pressure range up to 10 Bar. 20 Bar Upon Request
- Silicone/EPDM seat.
- Working temperature up to 80°C.
- Fullbore for high flow.
- Connections in Thread or Flanged.

- Size Range: DN15 (1/2") - DN80(3")
- Temperature Range : 0°C ~ 80°C
- Connections : DN10 - DN25 (Threaded)
  DN40 - DN80 (Threaded)



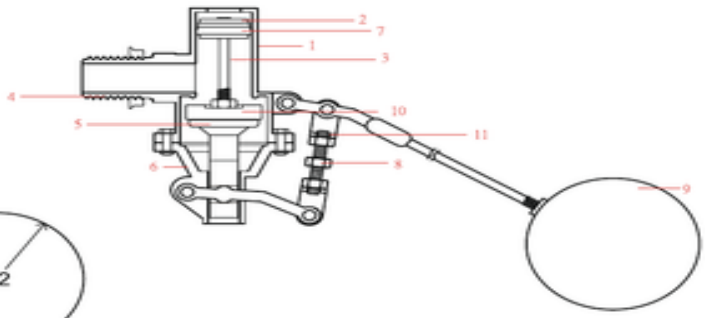


Table of Valve Size (mm)				SS304 Float Ball		
A1 G Threaded	L1	L2	Ø1	L3	Ø2	Weight(kg)
1/2"	110	133	20	160	100	0.67
3/4"	110	145	20	160	100	0.72
1"	110	145	20	160	100	0.76
1 1/2"	170	120	30	350	150	1.75
2"	210	130	40	400	150	2.42
3"	240	160	60	420	200	5.67

No	Part Name	Material
1	Main Body	Stainless Steel 304
2	Piston(Shaft)	Stainless Steel 304
3	Shaft	Stainless Steel 304
4	Orifice	Stainless Steel 304
5	Valve Gate	Stainless Steel 304
6	Lifting Gear	Stainless Steel 304
7	U-Ring	EPDM/Silicone
8	Adjusting Screw	Stainless Steel 304
9	Float Ball	Stainless Steel 304
10	U-Ring	EPDM/Silicone
11	Screw U-Ring	EPDM/Silicone

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

ACCESSORY

Float Valve Switch

SECTION **Dimensions per size** REF **EFC-404**

SIZE	L1	L2	Ø1	L3	Ø2	WEIGHT
1/2"	110	133	20	160	100	0.67 kg
3/4"	110	145	20	160	100	0.72 kg
1"	110	145	20	160	100	0.76 kg
1 1/2"	170	120	30	350	150	1.75 kg
2"	210	130	40	400	150	2.42 kg
3"	240	160	60	420	200	5.67 kg

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

ACCESSORY

Float Type Steam Trap

REF **EFC-420** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN 15 to DN 25**
Pressure	**PN16**
End connection	**threaded (ISO 228/1) / flanged (DIN 2533)**

MATERIALS

Cover	**GS-C25**	Body	**GS-C25**
Thermostatic capsule	**Stainless Steel**	Air vent seat	**Stainless Steel**
Float seat	**Stainless Steel**	Main valve ball	**Stainless Steel**
Float lever	**Stainless Steel**	Float	**Stainless Steel**

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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ACCESSORY

Float Type Steam Trap

SECTION **Dimensions per size** REF **EFC-420**

SIZE	A	K	B	C	D
DN 15	150	150	108	68	122
DN 20	150	150	108	68	122
DN 25	160	167	108	107	145

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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CHECK VALVE

Threaded Bronze Swing Check Valve

REF **EFC-96** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN15 to DN50**
Pressure	**20 bar**
End connection	**threaded (BSP)**
Temperature	**0°C to 170°C**
Media	**water, oil, gas**

APPLICATIONS

- water
- oil
- gas

MATERIALS

Body	**Bronze Rg5**	Disc	**CuZn39Pb3**
Hinge	**CuZn39Pb3**	Pin	**SS420**
Bonnet	**Bronze Rg5**	Nut	**CuZn39Pb3**

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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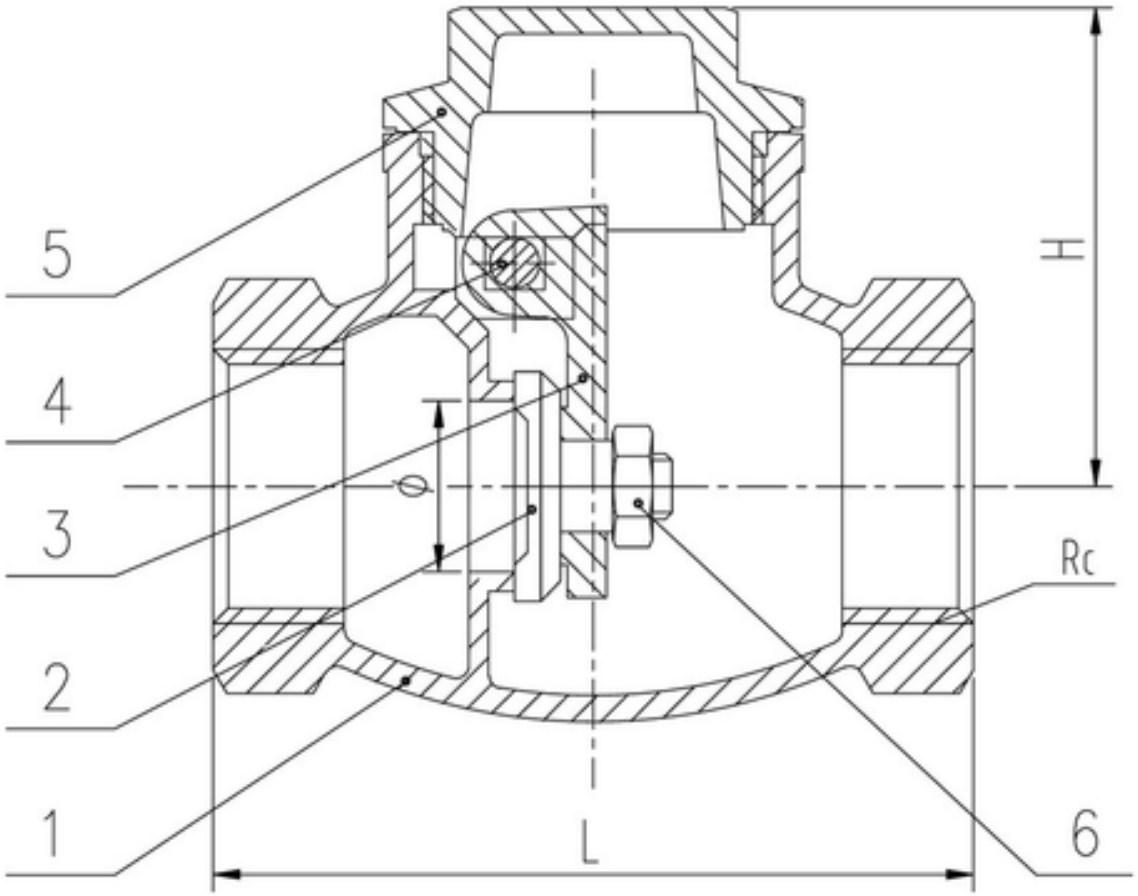
CHECK VALVE

Threaded Bronze Swing Check Valve

SECTION **Technical drawing 1** REF **EFC-96**



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

CHECK VALVE

Threaded Bronze Swing Check Valve

SECTION **Dimensions per size** REF **EFC-96**

SIZE	L	H	Ø
DN15	58	37	13
DN20	66	43	19
DN25	76	49	25
DN32	88	57.5	32
DN40	96	63	39
DN50	112	72	50

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BALL VALVE

Bronze Ball Valve - BSP

REF **EFC-109** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN8 to DN100**
Pressure	**20 bar**
End connection	**threaded (BSP)**
Temperature	**max 170°C**
Media	**water, oil, gas**

ACTUATION

- manual lever — Steel chrome pleated lever with PVC cover

APPLICATIONS

- water
- oil and gas

MATERIALS

Retainer	**Bronze Rg5**	Packing	**PTFE**
Seat	**PTFE**	Ball	**Bronze Rg5 (Chrome)**
Body	**Bronze Rg5**	Stem	**CuZn36Pb2As**
Stem gasket	**PTFE**	Gland nut	**CuZn39Pb3**
Lever	**Steel (Chrome Pleated)**	Lever cover	**PVC**
Gasket	**Steel**	Nut	**Brass**

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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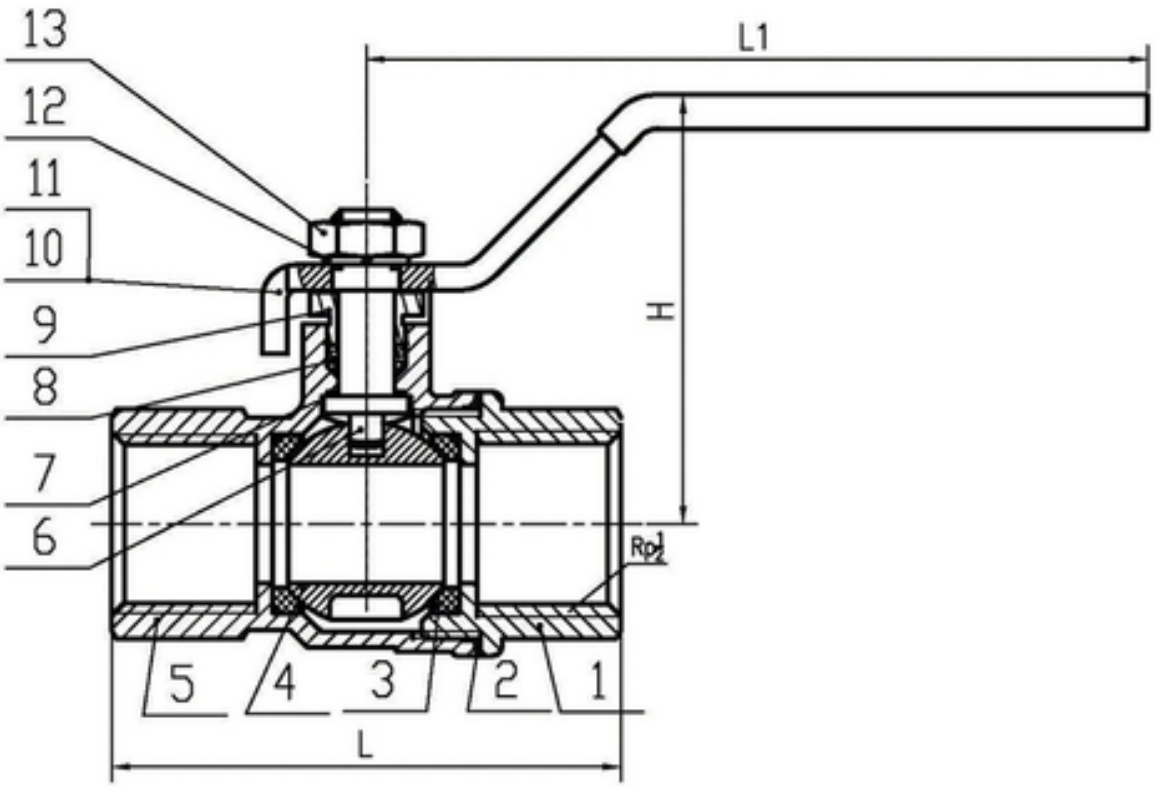
BALL VALVE

Bronze Ball Valve - BSP

SECTION **Technical drawing 1** REF **EFC-109**



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BALL VALVE

Bronze Ball Valve - BSP

SECTION **Dimensions per size** REF **EFC-109**

SIZE	L	L1	H	Ø	RC
DN8	43	70	28	9.5	1/4"
DN10	46	70	28	9.5	3/8"
DN15	53	95	44	14	1/2"
DN20	61	110	51	19	3/4"
DN25	71	110	55	24	1"
DN32	85	140	65	31	1-1/4"
DN40	92	140	70	38	1-1/2"
DN50	114	160	83	49	2"
DN65	134	220	118	63	2-1/2"
DN80	152	270	132	73	3"
DN100	182	280	150	90	4"

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

FIRE HYDRANT

Threaded Angle Type Fire Valve

REF **EFC-164** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN40 to DN65**
Pressure	**PN16**
End connection	**threaded (ISO 228-1) / flanged (EN 1092-3/B)**
Media	**water, fire fighting water**

ACTUATION

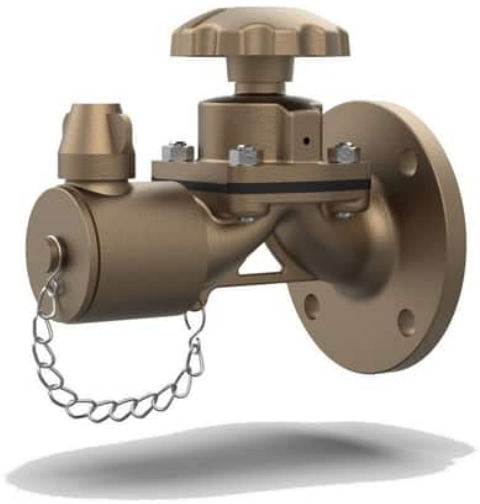
- manual handwheel — GG 25 or Bronze Rg5 handwheel

STANDARDS

Design	**DIN 86211**
Test	**EN 12266**

APPLICATIONS

- fire fighting
- fire hydrant systems



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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MATERIALS

Body	**Bronze Rg5, CuSn10, GS-C25**	Disc	**Bronze Rg5, CuSn10, GS-C25**
Seat	**NBR, EPDM**	Stem	**Cu Zn39Pb3, SS 420, SS316**
Gasket	**NBR, EPDM, Klingerite**	Bonnet	**Bronze Rg5, CuSn10, GS-C25**
Packing	**Graphite, PTFE**	Gland	**Brass Ms58, SS420**
Gland nut	**Brass Ms58**	Handwheel	**GG 25, Bronze Rg5**
Bolt	**A2 (SS304)**	Fixed coupling	**Bronze Rg5, Aluminum**
Coupling seal	**NBR, EPDM**	Blind coupling	**Bronze Rg5, Aluminum**
Chain rope	**SS**		

FEATURES

- Angle type configuration
- BSP threaded inlet connection per ISO 228-1
- Compatible with Storz, BS 336, Nor, and Nakajima coupling options
- Fixed and blind coupling options available
- Chain/rope retainer for blind coupling
- Flange outlet to EN 1092-3/B PN10/PN16

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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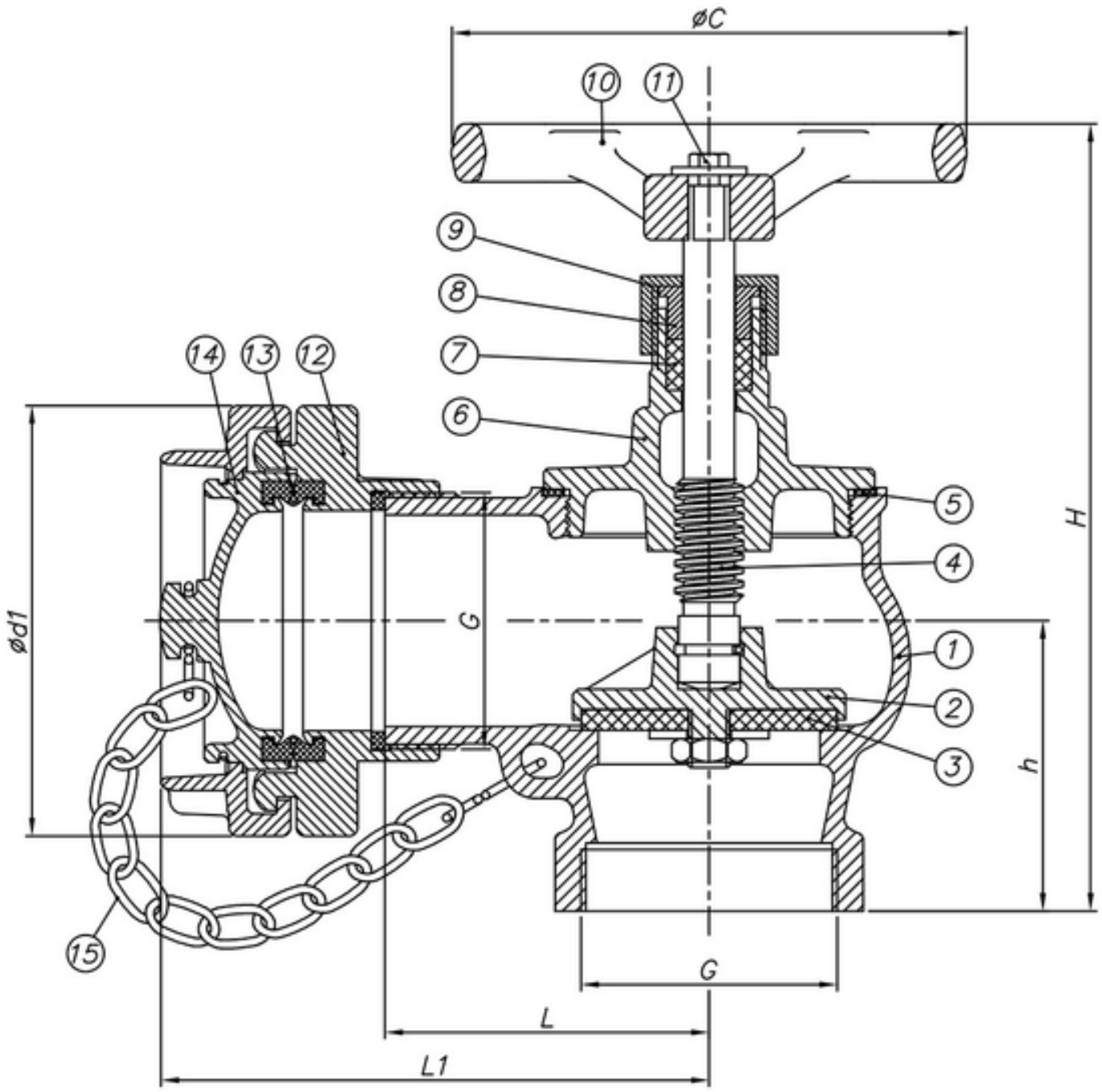
FIRE HYDRANT

Threaded Angle Type Fire Valve

SECTION **Technical drawing 1** REF **EFC-164**



Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

FIRE HYDRANT

Threaded Angle Type Fire Valve

SECTION **Dimensions per size** REF **EFC-164**

SIZE	L	L1	HH_CLOSED	H_OPEN		G	D1	C	OD	OK	OG	B	F	N_OD	WEIGHT
DN40	75	145	65	200	215	1-1/2" BSP	98	140	150	110	84	14	2	4-18	6 kg
DN50	75	145	75	210	225	2" BSP	98	140	165	125	99	16	2	4-18	7.3 kg
DN65	95	160	90	235	255	2-1/2" BSP	126	150	185	145	118	16	2	4-18	10.5 kg

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

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STRAINER

Y-Strainer

REF **EFC-322** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN300**
Pressure	**PN10 to PN16**
End connection	**flanged (DIN2533) / flanged (ANSI) / flanged (BS4504) / flanged (JIS) / threaded / socket-welded**
Face-to-face	**DIN3202 F1**
Temperature	**-10°C to 120°C**
Media	**Chemicals, air, water, steam, oil, acids, salts**

STANDARDS

Design	**DIN3356**
Test	**DIN3230**

APPLICATIONS

- Water treatment plants
- Oil pipelines
- HVAC systems
- General industrial applications

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	**Cast Iron, Ductile Iron**	Disc	**Stainless Steel, Cast Bronze**
Stem	**Stainless Steel, Brass**	Seat ring	**Brass**
Seat	**Brass**		

FEATURES

- Y-shaped body design for capturing contaminants while allowing fluid flow
- Accessible screen chamber for cleaning and maintenance
- Available in flanged, threaded, or socket-welded end connections
- Y-pattern strainer body with flanged end connections
- Removable bolted cover on strainer basket chamber (square cover plate with 4 bolts)
- Mesh/perforated strainer basket visible through bore
- Flanged ends with multiple bolt holes (8-hole pattern visible on larger size)
- Available in blue (ductile iron / cast iron) and red (cast iron) painted versions

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

STRAINER

Y-Strainer

SECTION **Dimensions per size** REF **EFC-322**

SIZE	L	D_PN16	D1_PN16	N_D_PN16	D_PN10	D1_PN10	N_D_PN10
DN50	230	165	125	4-19	165	125	4-19
DN65	290	185	145	4-19	185	145	4-19
DN80	310	200	160	8-19	200	160	8-19
DN100	350	220	180	8-19	220	180	8-19
DN125	400	250	210	8-19	250	210	8-19
DN150	480	285	240	8-23	285	240	8-23
DN200	600	340	295	12-23	340	295	8-23
DN250	730	405	355	12-28	395	350	12-23
DN300	850	460	410	12-28	445	400	12-23
DN350	980	520	470	16-28	505	460	16-23
DN400	1100	580	525	16-31	565	515	16-28
DN450	1200	640	585	20-31	615	565	20-28
DN500	1250	715	650	20-34	670	620	20-28

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BACKFLOW PREVENTER

BFPX - Back Flow Preventer

REF **EFC-389** ISSUED **08 Jul 2026**

SPECIFICATIONS

Size	**DN50 to DN400**
Pressure	**PN10 to PN16**
End connection	**threaded (BSP) / flanged (EN 1092-2)**
Media	**Clean water, Contaminated water**

STANDARDS

Design	**ISO 5752, EN 1092-2, ISO 7005-2**

COATINGS & LINING

• Powder epoxy coating inside and outside for corrosion resistance

APPLICATIONS

• Industrial cross-connections
• Irrigation systems
• Commercial buildings
• Hospitals
• Food processing
• Fire suppression

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

MATERIALS

Body	**EN-GJS-500-7**

FEATURES

- The BFPX provides reduced pressure zone (RPZ) backflow prevention to EN 1717 for fluid category 4 and 5 hazards
- The assembly comprises two independent check valves with a monitored relief valve in the zone between them
- If either check valve fails, the relief valve opens to atmosphere, preventing contaminated downstream water from siphoning back into the potable supply
- Mandatory for connections to industrial processes, irrigation and commercial premises under current European water regulations

PRESSURE-TEMPERATURE RATING

CLASS	TEMPERATURE	MAX PRESSURE
PN10	-10°C	10 bar
PN10	80°C	10 bar
PN16	-10°C	16 bar
PN16	80°C	16 bar

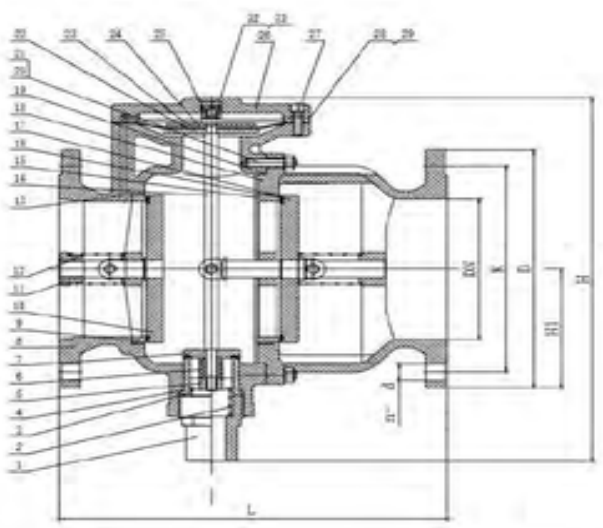
Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BACKFLOW PREVENTER

BFPX - Back Flow Preventer

SECTION **Technical drawing 1 of 2** REF **EFC-389**

BFPX - Flange type



Parts List

No.	Part Name	Material	Standard
1	Relief Joint	Stainless steel	AISI304
2	Spring	Stainless steel	AISI304
3	Seat	Stainless steel	AISI304
4	O-ring	Rubber	EPDM
5	Nut	Stainless steel	AISI304
6	Bushing	Plastic	PTFE
7	Wedge	Stainless steel	AISI304
8	Body	Ductile iron	GJS500-7
9	Front Seat	Stainless steel	AISI304
10	Front Retainer	SS+Rubber	AISI304+EPDM
11	Spring seat	Stainless steel	AISI304
12	Spring	Stainless steel	AISI304
13	O-ring	Rubber	EPDM
14	Stem	Stainless steel	AISI304
15	Back Seat	Stainless steel	AISI304
16	Back Retainer	SS+Rubber	AISI304+EPDM
17	O-ring	Rubber	EPDM
18	By-Body	Ductile iron	GJS500-7
19	O-ring	Rubber	EPDM
20	Bolt	Stainless steel	AISI304
21	Hex Bolt	Stainless steel	AISI304
22	Down Retainer	Stainless steel	AISI304
23	Diaphragm	Rubber+Nylon	EPDM+Nylon reinforcement
24	Up Retainer	Stainless steel	AISI304
25	Bolt	Stainless steel	AISI304
26	Bonnet	Ductile iron	GJS500-7
27	Bolt	Stainless steel	AISI304
28	Bolt	Stainless steel	AISI304
29	Gasket	Rubber	EPDM

Dimension:

Unit: mm

DN	Model No	L (F/F)	ØD		ØK		n-Ød	
			PN10	PN16	PN10	PN16	PN10	PN16
50	BFPX-0050	230	165		125		4-Ø19	
65	BFPX-0065	236	185		145		4-Ø19	
80	BFPX-0080	276	200		160		8-Ø19	
100	BFPX-0100	298	220		180		8-Ø19	
125	BFPX-0125	303	250		210		8-Ø23	
150	BFPX-0150	364	285		240		8-Ø23	
200	BFPX-0200	470	340		295		8-Ø23	12-Ø23
250	BFPX-0250	530	395	405	350	355	12-Ø23	12-Ø28
300	BFPX-0300	580	445	460	400	410	12-Ø23	12-Ø28
350	BFPX-0350	690	505	520	460	470	16-Ø23	16-Ø28
400	BFPX-0400	770	565	580	515	525	16-Ø28	16-Ø32

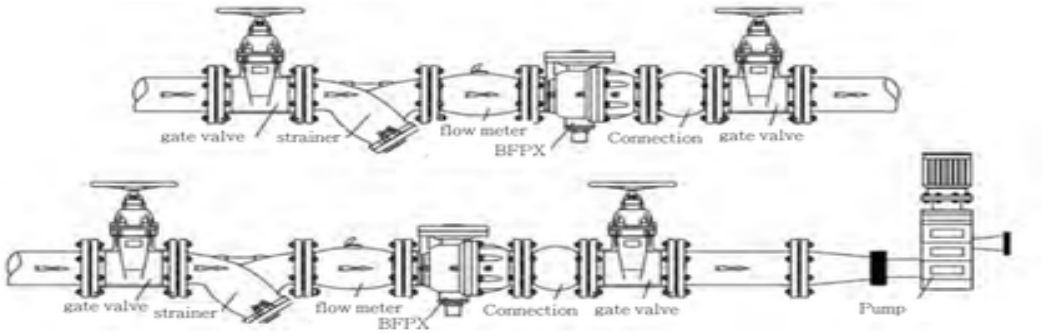
Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BACKFLOW PREVENTER

BFPX - Back Flow Preventer

SECTION **Technical drawing 2 of 2** REF **EFC-389**

Installation Recommendation



1. Before installation, the pipe should be washed out to clean.
2. The horizontal installation is recommended.
3. The gate valve should be installed in both side of the backflow preventer. There should be a strainer in the inlet of back flow preventer.
4. There should be more than 300mm tolerance between the water release nozzle and ground.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

BACKFLOW PREVENTER

BFPX - Back Flow Preventer

SECTION **Dimensions per size** REF **EFC-389**

SIZE	L	OD_PN10	OK_PN10	OD_PN16	OK_PN16
DN50	230	165	125	—	—
DN65	236	185	145	—	—
DN80	276	200	160	—	—
DN100	298	220	180	—	—
DN125	303	250	210	—	—
DN150	364	285	240	—	—
DN200	470	340	295	—	—
DN250	530	395	350	405	355
DN300	580	445	400	460	410
DN350	690	505	460	520	470
DN400	770	565	515	580	525

Dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.

Install, operate and maintain in accordance with the manufacturer's manual supplied with the product.

REFERENCE

Standards, certification & terms

OUR RANGE

This catalogue shows a representative selection of the range. Valves are configurable: size, pressure rating, materials and end connections can be specified to your project. Items not shown can be supplied to specification on request.

STANDARDS & CERTIFICATION

Products are manufactured to the standards listed against each item. Material and test certificates (EN 10204 3.1), and approvals such as PED, ATEX, fire-safe (API 607 / 6FA) or marine classification, are available on request and confirmed per order. Certification is provided to project requirements.

TERMS

Specifications shown are indicative and confirmed at quotation. Dimensions, materials and ratings are subject to confirmation against the supplier datasheet for the configured item, and subject to change without notice. This catalogue does not constitute an offer.

NEXT STEP

How to enquire

Submit your requirement in whichever format is convenient. Each enquiry is reviewed and answered with a quotation.

1 **Submit a specification or parts list**
Email a specification, drawing or line list (PDF, Word or Excel); each line is matched to the range.

2 **Describe your requirement**
Provide the duty, size, pressure and material, together with any supporting documents.

3 **Enquire online**
Submit a request at euroflowcontrol.com.

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We acknowledge every enquiry within one business day.