

BUTTERFLY VALVE

Concentric Butterfly Valve

REF EFC-524

SPECIFICATIONS

Size	DN50 to DN4000
Pressure	PN10, PN16
End connection	Wafer (EN 1092 / ASME B16.1 / ASME B16.5 / AWWA C207) / Lug (EN 1092 / ASME B16.1 / ASME B16.5 / AWWA C207) / Flanged (EN 1092 / ASME B16.1 / ASME B16.5 / AWWA C207)
Face-to-face	EN 558-1 Series 20
Temperature	0°C to 200°C
Media	Water, TSE water / treated waste water, Sea water

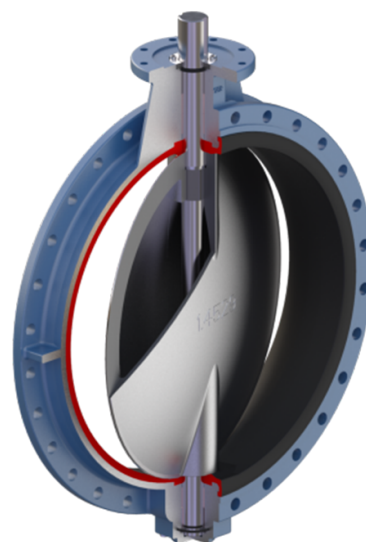


ACTUATION

- Manual lever, ISO 5211 top flange mounting
- Manual gearbox, ISO 5211 top flange mounting
- Electric actuator, ISO 5211 top flange mounting
- Pneumatic actuator, ISO 5211 top flange mounting

STANDARDS

Design & manufacture	EN 593, API 609 Category A, API 609
Inspection & test	EN 12266-1, API 598
Flange & end dimension	EN 1092, ASME B16.1, ASME B16.5, AWWA C207
Mounting	ISO 5211



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

COATINGS & LINING

- Epoxy coating, total average thickness 300 micron
- Rylsan coating, total average thickness 300 micron

APPLICATIONS

- Line isolation (shut-off)
- Throttling
- Water service
- TSE / treated waste water service
- Sea water service

MATERIALS

Valve Shaft	SS410, SS431, 17-4PH, 1.4462, 1.4507	Packing Cap	Q235, SS304
O-Ring	EPDM, NBR, FPM, AU	Shaft Bush	Bronze, PTFE, SS304/316 + PTFE
Valve Body	GJS400-15 (GGG40), GJS500-7 (GGG50), 65-45-12, WCB, CF8, CF8M, CF3M	Valve Disc	GJS400-15 (GGG40), GJS500-7 (GGG50), 65-45-12, CF8, CF8M, CF3M, 2205, 2207, 4A, 5A, C954, C955, C958
Valve Seat	EPDM, NBR, FPM, AU, SILICONE, PTFE, IIR	Circlip	S235, SS304
End Cover	Same as valve body		

FEATURES

- 90° quarter-turn operation to open/close
- Replaceable valve seat with bidirectional sealing performance
- Flow characteristics tend to be linear, providing good adjustment (throttling) performance
- Self-lubricating bearings in PTFE, aluminium-bronze, or stainless steel lined PTFE
- ISO 5211 top flange compatible with manual, electric, and pneumatic actuators
- Multiple shaft-seal design ensures shaft has no contact with service medium (dry shaft)
- Stepped shaft retained by circlip for blow-out proof design
- Pinless two-piece shaft design (one-piece available on request) isolates shaft from medium
- Disc edge machined with spherical surface and polished to reduce operating torque
- Streamlined disc profile minimises pressure drop
- Valve seat and body positioned with single or double grooves to prevent displacement during operation
- Valve seat outer surface has circular arc profile for accurate positioning and easy replacement
- No flange gasket required during valve installation
- Leakage rate Class A (zero leakage) in both directions per EN 12266-1 / API 598
- 100% pressure testing before delivery

SUPPLIER REMARKS

- One-piece shaft available on request
- Material will be designed and selected according to actual working conditions or client's special requirements

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SECTION Dimensions per size REF EFC-524

SIZE	A	B	L	H	E ISO 5211 TOP FLANGE		E
DN50	61	141	43	13	11	F07	-
DN65	72	153	46	23	11	F07	-
DN80	87	161	46	17	14	F07	-
DN100	106	179	52	17	14	F07	-
DN125	123	193	56	17	14	F07	-
DN150	137	204	56	20	17	F07	-
DN200	174	247	60	20	17	F10	-
DN250	209	280	68	26	22	F10	-
DN300	253	324	78	26	22	F10	-
DN350	267	338	78	32	22	F12	-
DN400	315	400	102	32	27	F14	-
DN450 (Wafer/Lug)	315	425	114	32	27	F14	-
DN500 (Wafer/Lug)	363	485	127	43	36	F14	-
DN600 (Wafer/Lug)	459	565	154	43	36	F16	-
DN450 (Flanged)	359	400	114	70	-	F14/F16	38
DN500 (Flanged)	397	440	127	70	-	F14/F16	44
DN600 (Flanged)	467	525	154	70	-	F16	45
DN700	507	629	165	90	-	F25	65
DN800	556	666	190	90	-	F25	65
DN900	612	720	203	100	-	F25	75

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Dimensions per size (continued) · EFC-524

SIZE	A	B	L	H	E ISO 5211 TOP FLANGE		F
DN1000	670	750	216	120	-	F30	85
DN1100	778	865	254	120	-	F30	85
DN1200	805	876	254	130	-	F30	105
DN1300	940	930	279	150	-	F35	120
DN1400	965	1000	279	150	-	F35	120
DN1500	1000	1050	300	200	-	F40	140

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