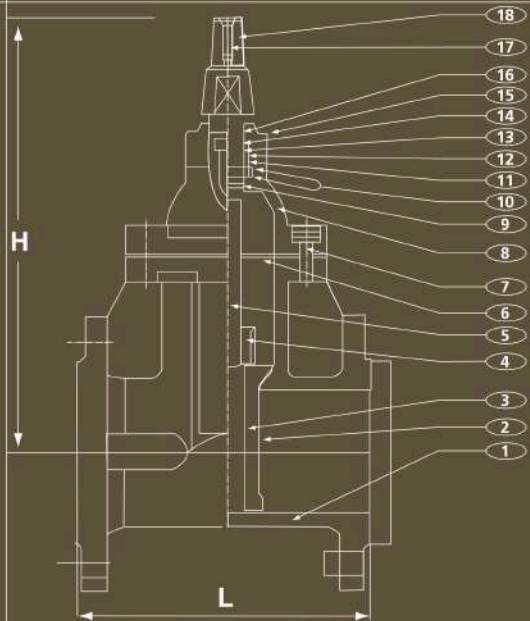
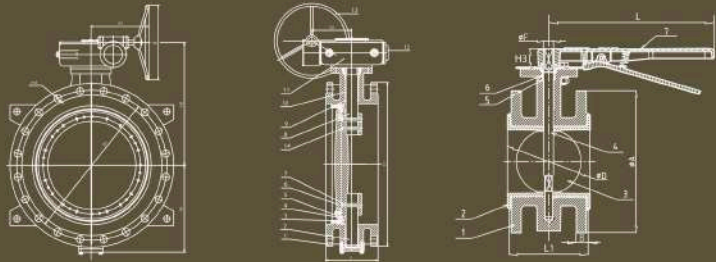


ISOLATING VALVES



ISOLATING VALVES SLUICE VALVE RESILIENT-SEATED & METAL-SEATED

RESILIENT SEAT
MODEL NO. : LYE 555 D.I. | BS5163 PN16
NON-RISING STEM GATE VALVE | TYPE B



METAL SEAT
MODEL NO. : LYE 555 D.I. | BS5163 PN16
NON-RISING STEM GATE VALVE | TYPE B



- LYE Resilient / Metal Seated Ductile Iron Gate Valve or commonly known as Sluice Valve is designed to comply with BS 5163 Type B.
- ADVANTAGES OF LYE RESILIENT GATE VALVE**
- (1) Straight through bore :
 - (a) Full Flow - The clear bore in the open position ensures optimum flow characteristics through the valve thereby reducing head loss.
 - (b) Full Close - No accumulation of debris under the wedge enabling the valve to be fully closed.
 - (2) Lower operating torque :
 - (a) Savings on automatic operators.
 - (b) Less efforts required.
 - (3) Dust seal prevent ingress of foreign object.
 - (4) Rubber covered gate.
 - (a) Drop tight closure.
 - (b) Would not be easily damaged by any foreign object.
 - (c) Gate chatter eliminated.
 - (5) Internal and external body is coated with polymeric coating - fusion bonded epoxy coating, it gives excellent resistance to corrosion, abrasion, wear and tear.
 - (6) Allow inspection and stem seal renewal under full operating pressure when gate is in open position.
 - (7) Protects stem housing, especially in buried service conditions.
 - (8) Bolts sealed with wax to prevent corrosion.



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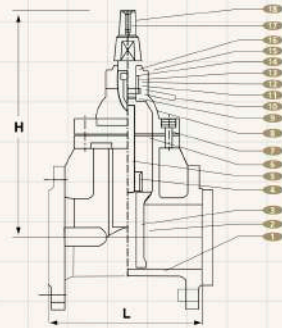


ISOLATING VALVES

SLUICE VALVE | RESILIENT-SEATED



RESILIENT SEAT
DN 50mm - DN600mm



MATERIAL FOR MAIN PARTS

No.	Component	Material	Standard Ref.	Grade
1	Body	Ductile Iron	BS EN 1563	EN-GJS-500-7
2	Rubber Coating	Rubber	MS 672, BS EN 681	EPDM (66-75-IRHD Hardness)
3	Wedge	Ductile Iron	BS EN 1563	EN-GJS-500-7
4	Stem Nut	Brass	BS EN 12165	CuZn39Pb2
5	Stem	Stainless Steel	BS EN 10088-3	431S29
6	Gasket	Rubber	MS 672, BS EN 681	EPDM (66-75-IRHD Hardness)
7	Allen Cap Screw	Stainless Steel	BS EN 10088-3	304S31
8	Bonnet	Ductile Iron	BS EN 1563	EN-GJS-500-7
9	O-Ring	Rubber	MS 672, BS EN 681	EPDM (66-75-IRHD Hardness)
10	Trust Collar	Brass	BS EN 12165	CuZn39Pb2
11	O-Ring	Rubber	MS 672, BS EN 681	EPDM (66-75-IRHD Hardness)
12	O-Ring	Rubber	MS 672, BS EN 681	EPDM (66-75-IRHD Hardness)
13	Sleeve	Nylon	-	POLYIMIDE NYLON 6
14	O-Ring	Rubber	MS 672, BS EN 681	EPDM (66-75-IRHD Hardness)
15	Gland	Ductile Iron	BS EN 1563	EN-GJS-500-7
16	Dust-Proof Cover	Rubber	MS 672, BS EN 681	EPDM(66-75-IRHD Hardness)
17	Allen Cap Screw	Stainless Steel	BS EN 10088-3	304S31
18	Cap	Ductile Iron	BS EN 1563	EN-GJS-500-7
19	Wedge Slot	Nylon	-	POLYIMIDE NYLON 6

Please Note: Technical data provided is indicative only and may be subject to change without notice

DIMENSION: MM

Size	L	H	L
50	178	344	With By-Pass Valve
65	190	350	
80	203	399	
100	229	421	
150	267	512	
200	292	598	
250	330	701	
300	356	784	
350	381	940	
400	406	1040	
450	432	1144	650
500	457	1240	700
600	508	1436	800

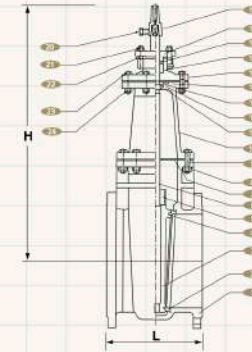
Flanges designed and drilled according to BS EN 1092-2 Table 9

ISOLATING VALVES

SLUICE VALVE | METAL-SEATED



METAL SEAT
DN 50mm - DN600mm



DIMENSION: MM

Size	L	H	L
50	178	344	With By-Pass Valve
80	203	399	
100	229	421	
150	267	512	
200	292	598	
250	330	701	
300	356	784	
350	381	1118	
400	406	1194	
450	432	1297	
500	457	1382	700
600	508	1580	800

Flanges designed and drilled according to BS EN 1092-2 Table 9

MATERIAL FOR MAIN PARTS

No.	Component	Material	Standard Ref.	Grade
1	Body	Ductile Iron	BS EN 1563	EN-GJS-500-7
2	Seat Sealing	Gunmetal	BS EN 1982	CuSnZn5Pb5-C
3	Wedge	Ductile Iron	BS EN 1563	EN-GJS-500-7
4	Seat Sealing	Gunmetal	BS EN 1982	CuSnZn5Pb5-C
5	Stem Nut	Gunmetal	BS EN 1982	CuSnZn5Pb5-C
6	Stem	Stainless Steel	BS EN 10088-3	431S29
7	Gasket	Rubber	MS 672, BS EN 681	EPDM (66-75-IRHD Hardness)
8	Nut	Carbon Steel	BS 4190	-
9	Bolt	Carbon Steel	BS 4190	-
10	Bonnet	Ductile Iron	BS EN 1563	EN-GJS-500-7
11	Back Seat	Rubber	MS 672, BS EN 681	EPDM (66-75-IRHD Hardness)
12	Washer	Stainless Steel	BS EN 10088-3	SS304
13	Bearing	Gunmetal	BS EN 1982	CuSnZn5Pb5-C
14	O-Ring	Rubber	MS 672, BS EN 681	EPDM (66-75-IRHD Hardness)
15	Packing Box	Ductile Iron	BS EN 1563	EN-GJS-500-7
16	O-Ring	Rubber	MS 672, BS EN 681	EPDM (66-75-IRHD Hardness)
17	Collar	Gunmetal	BS EN 1982	CuSnZn5Pb5-C
18	Gland	Ductile Iron	BS EN 1563	EN-GJS-500-7
19	Cap	Ductile Iron	BS EN 1563	EN-GJS-500-7
20	Bolt	Carbon Steel	BS 4190	-
21	Nut	Carbon Steel	BS 4190	-
22	T-Bolt	Carbon Steel	BS 4190	-
23	Bolt	Carbon Steel	BS 4190	-
24	Nut	Carbon Steel	BS 4190	-

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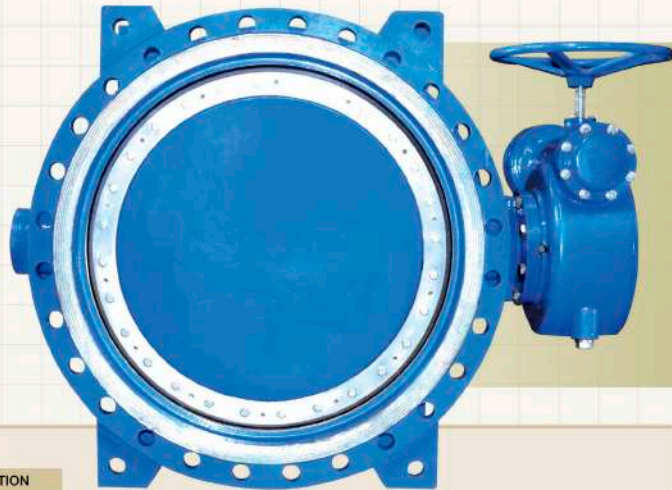
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DOUBLE ECCENTRIC FLANGED BUTTERFLY VALVE



INTRODUCTION

Butterfly valve is design for waterworks in accordance with BS EN593 standard. Casted parts are made of selected materials with inherent strength and rigidity to withstand the pressure of fluids. The shaft and gears are also made of selected materials and machined to close tolerances. The disc is of a stream line shape and so loss of water head at the full opening of valve is minimized. A one-piece rubber seat-in-disc gives a reliable seal under period of services.

SPECIFICATIONS

Nominal diameter	50 to 2,400mm
Type of Fluid	Water
Max. Working Pressure	16 bar
Flange Dimension*	BS EN 1092-2
Hydro-static Test	Body Pressure : 24 bar
	Disc Strength : 24 bar
	Seat Leakage : 17.6 bar

DOUBLE ECCENTRIC FLANGED BUTTERFLY VALVE

FEATURES

- Low Head Loss Characteristic**
 This butterfly valve is designed with large and effective passage by separation of shaft into upper and lower sections. The disc is of a streamline design of smooth surface with little resistance to flow.
- Sufficient Strength**
 Casted parts such as the valve body and disc are made of selected materials that meet the optimum requirement of the product. In addition, because of sufficient wall thickness, these components possess satisfactory strength and rigidity to withstand the pressure of fluids.

- Cost Saving**
 Extensive research and field test have resulted in enhance simplicity of design and dependability at low cost.

- Simplified Seat Construction**

Resin for positioning rubber seat is injected and cured after fully closing of valve, thus unnecessary compression force is not imposed on rubber seat, minimising the amount of fatigue and attains high seal ability for long period and with little torque required. Durability has been confirmed by various performance tests. This seat is replaceable in the event that it is damaged unexpectedly.

OPERATION INSTRUCTIONS

In order to achieve full benefit from the optimum properties of LYE butterfly valves the following instructions must be followed.

1. Storage

During storage the disc should remain in its slightly opened position as supplied, to protect the sealing edge and the seat. The valve must be kept in clean environment and direct sunlight must be avoided. Sealing surface must be strictly protected from external effects and damage. Use silicone grease on rubber seal to prevent it from sticking to metal surface.

2. Installation and Dismantling

- Valve must be cleaned before installation.
- Pipeline flanges must be checked for parallel alignment.
- Use of dismantling joint is recommended for easy installation and removal.
- Valves can be installed independent of the direction of flow, but the preferred installation position is with the seat in the upstream position.
- Note the arrow on the valve body.
- Valve can be installed in any angular position (vertical or horizontal) taking the preferred position of the actuator into consideration.
- Fully closed position of the disc must be ensured before installation.
- Valve must never be removed while the pipeline is under pressure

COATING

Standard coating is epoxy painting in blue color complying to BS6920.

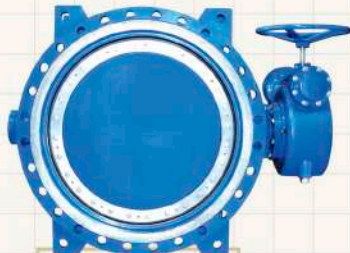
BASIC MATERIALS

No.	Component	Material	Standard Ref.	Grade or Designation
1	Body	Ductile Iron	BS EN 1563	EN-GJS-500-7
2	Lower Shaft	Stainless Steel	BS EN 10088-3	431S29
3	Seat	Stainless Steel	BS EN 10088-3	321S31
4	Seat Retainer	Stainless Steel	BS EN 10088-3	420S29
5	Seal-Ring	Synthetic Rubber	MS 672, BS EN 681	EPDM (66-75-IRHD Hardness)
6	Disc	Ductile Iron	BS EN 1563	EN-GJS-500-7
7	Pin	Stainless Steel	BS EN 10088-3	420S29
8	Upper Shaft	Stainless Steel	BS EN 10088-3	431S29
9	O-Ring	Synthetic Rubber	MS 672, BS EN 681	EPDM (66-75-IRHD Hardness)
10	Bush	Bronze	BS 1400	CA106
11	Actuator	Ductile Iron	BS EN 1563	EN-GJS-500-7
12	Gear Case	Ductile Iron	BS EN 1563	EN-GJS-500-7
13	Handwheel	Ductile Iron	BS EN 1563	EN-GJS-500-7
14	Reamer Bolt & Nut	Stainless Steel	BS EN 10088-3	321S31

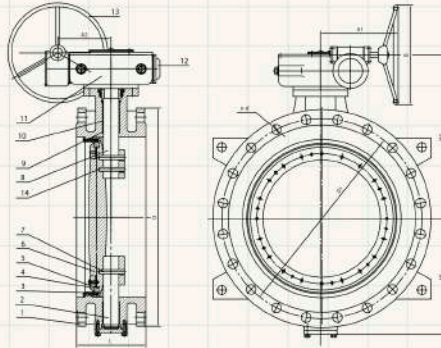


ISOLATING VALVES

DOUBLE ECCENTRIC FLANGED BUTTERFLY VALVE



BUTTERFLY VALVE
TO BS EN 593



FLANGES DESIGNED AND DRILLED ACCORDING TO BS EN 1092-2 TABLE 9

unit: mm

DN	Face-to-face Dimension		Outside Dia. D	Raise Face Dia. G	Bolt Holes			Bolt Designation M	Thickness		Height	
	L	±			D1	No.	d		t	f	H1	H2
50	108	1	165	99	125	4	19	M16	19	3	83	140
80	114	1	200	132	160	8	19	M16	19	3	100	160
100	127	1	220	156	180	8	19	M16	19	3	120	175
150	140	1	285	211	240	8	23	M20	19	3	160	240
200	152	1	340	266	295	12	23	M20	20	3	185	265
250	165	1	405	319	340	12	28	M24	22	3	215	295
300	178	1	455	370	410	12	28	M24	24.5	4	240	325
350	190	1	520	429	470	16	28	M24	26.5	4	270	360
400	216	2	580	480	525	16	31	M27	28.0	4	300	405
450	222	2	640	548	585	20	31	M27	30.0	4	340	465
500	229	2	715	609	650	20	34	M30	31.5	4	380	505
600	267	2	840	720	770	20	37	M33	36.0	5	450	590
700	292	2	910	794	840	24	37	M33	39.5	5	510	710
800	318	2	1025	901	950	24	41	M36	43.0	5	570	790
900	330	2	1125	1001	1050	28	41	M36	46.5	5	620	830
1000	410	3	1255	1112	1170	28	44	M39	50.0	5	710	910
1200	470	3	1485	1328	1390	32	50	M45	57.0	5	840	1095
1400	530	3	1685	1530	1590	36	50	M45	60.0	5	970	1155
1600	600	3	1930	1750	1820	40	57	M52	65	5	1075	1400
1800	670	4	2130	1950	2020	44	57	M52	70	5	1260	1700
2000	760	4	2345	2150	2230	48	62	M56	75	5	1410	1850
2200	800	4	2555	2370	2440	52	62	M56	80	6	1530	1980
2400	850	5	2765	2570	2650	56	62	M56	85	6	1670	2100

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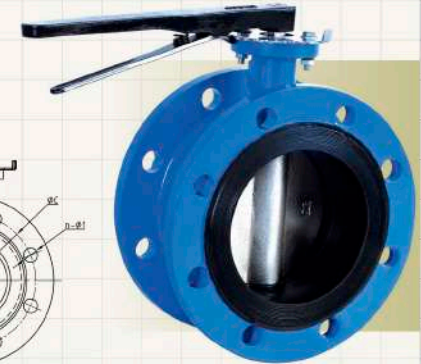
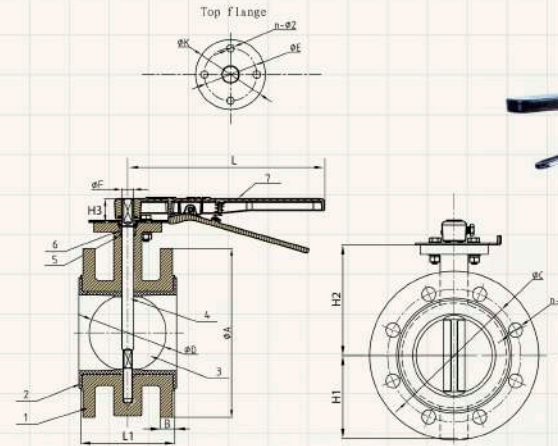


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ISOLATING VALVES

CONCENTRIC FLANGED BUTTERFLY VALVE



Material Specification		
Part No.	Part	Standard Specification
1	Valve Body	Ductile Iron 500-7
2	Seat	EPDM
3	Disc	Ductile Iron 500-7
4	Stem	SS420
5	O-Ring	EPDM
6	Bushing	Nylon 1010
7	Lever	Ductile Iron 500-7

- Design Standard: BS EN 593
- Face to Face: BS EN 558 Series 13
- Connection Ends: BS EN 1092 PN16
- Top Flange standard: ISO 5211. Stem drive by keys, parallel or diagonal square or flat head
- Working Pressure: PN16
- Temperature Range: 0°C - 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550

DN		Dimensions (mm)															
Inch	mm	L1	H1	H2	H3	QA	B	QC	N-O1	OD	OE	OK	N-OD2	ISO 5211	OF	G	L
2"	50	108	80	110	32	165	19	125	4-Ø19	53.9	70	90	4-Ø10	F07	14	9.53	267
2.5"	65	112	80	131	32	185	19	145	4-Ø19	65.2	70	90	4-Ø10	F07	14	9.53	267
3"	80	114	95	134	32	200	19	160	8-Ø19	79.7	70	90	4-Ø10	F07	14	9.53	267
4"	100	127	113	150	32	220	19	180	8-Ø19	105	70	90	4-Ø10	F07	16	11.14	267
5"	125	140	114	170	32	250	19	210	8-Ø19	130	70	90	4-Ø10	F07	16	11.14	267
6"	150	140	139	180	32	285	19	240	8-Ø23	156	70	90	4-Ø10	F07	20	12.7	267
8"	200	152	175	210	45	340	20	295	12-Ø23	206.7	102	125	4-Ø12	F10	26	20.6	356
10"	250	165	203	245	45	405	22	355	12-Ø28	253.3	102	125	4-Ø12	F10	26	20.6	356
12"	300	178	242	276	45	460	24.5	410	12-Ø28	301.9	102	125	4-Ø12	F10	28	22.1	490

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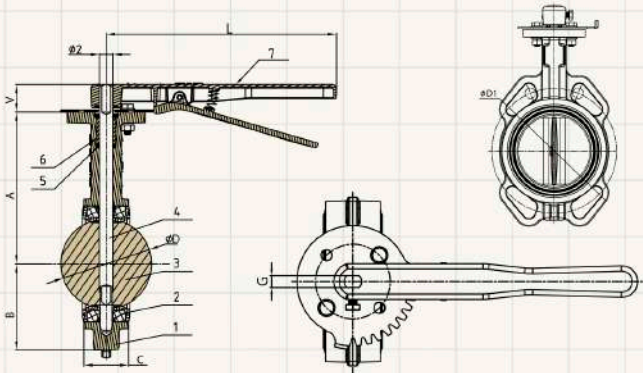


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ISOLATING VALVES

WAFER TYPE BUTTERFLY VALVE



- Design Standard: BS EN 593
- Connection Ends: BS EN 1092 PN16, AS 2129 TABLE E, JIS B2212 10K, BS 10 TABLE D/E
- Top Flange Standard: ISO 5211
Stem drive by keys, parallel or diagonal square or flat head
- Working Pressure: PN16
- Temperature Range: 0°C - 80°C
- Coating: Fusion Bonded Epoxy Coating

FEATURES:

(1) Material:

Body and lever are all produced in ductile iron material (EN-GJS-500-7) which provides guarantee for high strength and good corrosion resistance.

(2) Design:

Universal flange connection to BS EN 1092 PN6/10/16, ASME B16.1 CL 125, ASME B16.5 CL 150, GB9113, JIS B2112 10K, AS 2129 Table E, BS 10 Table D/E.

(3) Coating

Fusion bonded epoxy coating of valve body and lever provides reliable corrosion resistance.

- Ductile Iron Lever and Body
- Stainless Steel Stem
- Fusion Bonded Epoxy Coating
- Disc: DI
- Seat: EPDM

STATEMENT:

Resilient centerline butterfly valves usually serve to cut off medium flow in the piping system, widely applied in the field of potable water, water supply and drainage, sewage disposal, irrigation, air conditioning, fire protection as well as chemical and energy industry. The design of the butterfly valves, however, makes it also suitable to serve as adjusting valve.

Material Specification		
Part No.	Part	Standard Specification
1	Valve Body	Ductile Iron 500-7
2	Seat	EPDM
3	Disc	Ductile Iron 500-7
4	Stem	SS420, One-Piece Stem Design
5	O-Ring	EPDM
6	Bushing	Nylon
7	Lever	Ductile Iron 500-7

DN		Dimensions (mm)										
Inch	mm	A	B	V	C	ØD	Ø2	G	L	ØD1	ISO 5211	
1.5"	40	138	64.5	32	33	43.9	14	9.45	267	110	F07	
2"	50	140.5	64.5	32	43	53.9	14	9.53	267	125	F07	
2.5"	65	153	72	32	46	65.2	14	9.53	267	145	F07	
3"	80	157.5	86	32	46	79.7	14	9.53	267	160	F07	
4"	100	176	100	32	52	105	16	11.14	267	180	F07	
5"	125	191	112	32	56	130	16	11.14	267	210	F07	
6"	150	202.5	128	32	56	156	20	12.7	267	240	F07	
8"	200	243.5	162	45	60	206.7	26	20.6	356	295	F10	
10"	250	273	194	45	68	253.3	26	20.6	490	355	F10	
12"	300	311	223	45	78	301.9	28	22.1	490	410	F10	

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