

Ductile Iron Lug Butterfly Valve

PN16

Size 2½" to 24"

Specifications:

IVAL® Butterfly Valve, Lug Type with Ductile Iron Body and Ductile Iron Disc. Design to BS EN593.

Coating: Fusion Bonded Epoxy (FBE) complies with ANSI/AWWA C550 (DFT 250 to 350 µm).

End Connection: Compatible with BS EN1092-2.

Top Flange Standard: ISO 5211

Operator: Trigger Lever or Gear.

WRAS Approved.

Features:

- Valves are suitable for use with flanges conforming to BS EN 1092-2 PN16.
- Ductile Iron Disc.
- EPDM Seat Vulcanized on Valve Body.
- 420 Stainless Steel Shafts for superior strength.
- Design BS EN593, generally conforms to MSS SP-67.
- Lengths to BS EN 558-20.

Pressure/Temperature Ratings:

Temperature (°C)	-10 to +100
Pressure (Bar)	16

Test Pressures:

Each valve is individually hydrostatically tested at the following test:

(HYDRAULIC) Shell: 24 bar - **Seat:** 17.6 bar

Suitable for: water, -10°C to +100°C, below 0°C only for water with added antifreeze fluids.

Not suitable for: gases group 1 & 2, liquids group 1 (Dir. 2014/68/EU)

Materials:

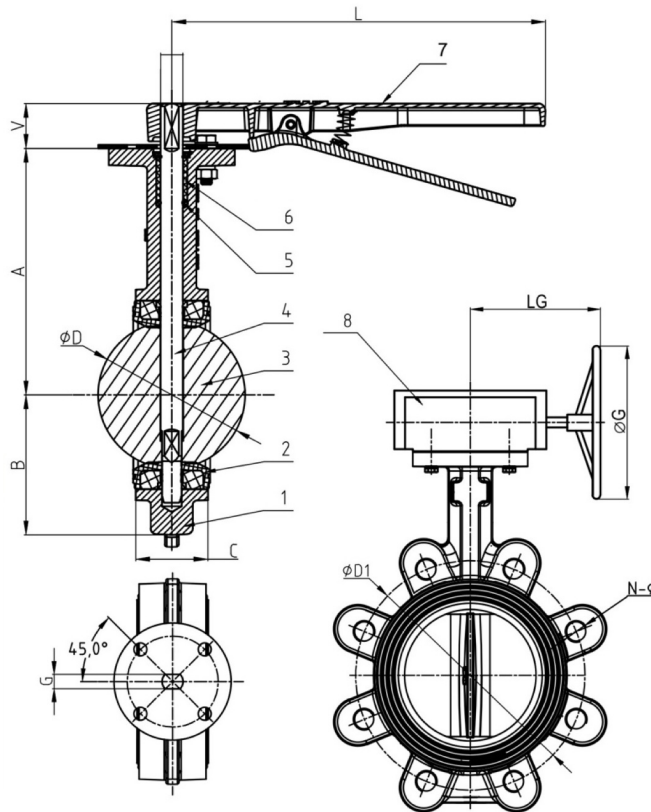
No.	Description	Material	Specification
1	Valve Body	Ductile Iron	EN-GJS-450-10
2	Seat	EPDM	-
3	Disc	Ductile Iron	EN-GJS-450-10
4	Stem	Stainless Steel	AISI 420
5	O-Ring	NBR	-
6	Bushing	PTFE	-
7	Lever	Ductile Iron	EN-GJS-450-10
8	Gear Device	Ductile Iron	EN-GJS-450-10

Dimensions¹:

DN		Dimensions (mm)										Weight* (Kg)
Inch	mm	A	B	C	G	ØD	ØD1	N-Ø	L	LG	ØG	
2.5"	65	153	72	46	9.45	65.2	145	4-Ø16	267	158	150	4.9 / 6.3
3"	80	157.5	86	46	9.45	79.7	160	8-Ø16	267	158	150	6.3 / 8.1
4"	100	176	100	52	11.14	105	180	8-Ø16	267	158	150	8.0 / 10.3
5"	125	191	112	56	11.14	129.8	210	8-Ø16	267	158	150	10.4 / 13.3
6"	150	202.5	128	56	12.7	155.8	240	8-Ø20	267	158	150	11.4 / 14.7

*Weight for version with lever / Weight for version with gear

TECHNICAL DATASHEET



Dimensions²:

DN		Dimensions (mm)										Weight* (Kg)
Inch	mm	A	B	C	G	ØD	ØD1	N-Ø	L	LG	ØG	
8"	200	243.5	162	60	20.6	206.7	295	12-Ø20	356	239	300	21.0 / 26.9
10"	250	273	194	68	20.6	253.3	355	12-Ø24	356	239	300	29.7 / 35.6
12"	300	311	223	78	22.1	301.9	410	12-Ø24	490	229	300	47.0 / 52.6
14"	350	340	267	78	22.1	333.9	470	16-Ø24	-	229	300	- / 69.6
16"	400	400	319.5	102	27	389.6	525	16-Ø27	-	288	380	- / 130.5
18"	450	422	345.2	114	27	441	585	20-Ø27	-	288	380	- / 153.4
20"	500	480	380	127	-	492.4	650	20-Ø30	-	325	380	- / 220.6
24"	600	562	441	154	-	592.8	770	20-Ø33	-	340	380	- / 312.9

*Weight for version with lever / Weight for version with gear

Flow Characteristics:

Formula linking flow **Q (in l/s)** and theoretical valve head loss **ΔP (in kPa)**: $\Delta P = \left(\frac{36 \cdot Q}{K_v} \right)^2$

