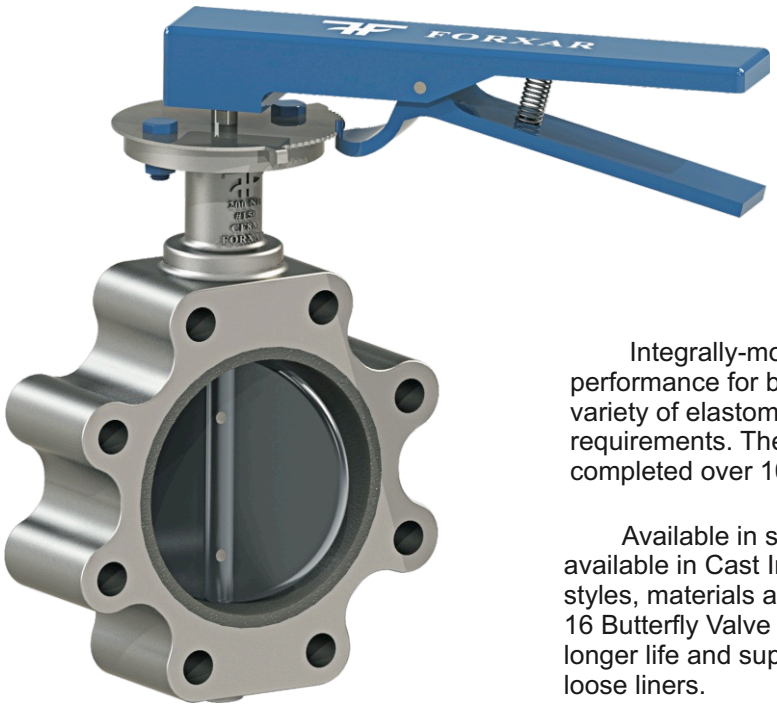


Butterfly Valve

Integrally-molded Butterfly Valve sets a new benchmark in performance for butterfly valves. The versatile valve is offered in a variety of elastomer-disc combinations to address myriad process requirements. The highly reliable butterfly valve has successfully completed over 10,000 cycles at its rated pressure.

Available in sizes from 50 mm (2") to 600 mm (24"), the valve is available in Cast Iron, SG Iron and carbon steel, in a variety of body styles, materials and actuation options. The body seat of Aquaseal 16 Butterfly Valve is vulcanised insitu onto the body, which provides longer life and superior performance when compared to valves with loose liners.

Feature & Benefits

Longer Life

The strength of the vulcanised liner as well as its strong bonding with the body ensure that it doesn't get deformed and torn by the disc during valve operations. Further, friction during operations is minimized owing to the smooth liner surface. The strong seat and reduced friction greatly enhance service life of the valve.

Tight Sealing and Consistent Low Torque

Bubble-tight sealing is obtained by the tight interference fit between liner and disc. The insitu moulded seat does not deform with age, and hence the operating torque stays low and consistent during the entire life cycle of the valve. High reliability and consistent torque make Aquaseal the ideal valve for actuated systems.

Assured Shaft Sealing

The flat profiles on the top and bottom of Aquaseal Plus disc engage with matching profiles on the body liner, and the large area of contact prevents leakage to atmosphere. Integrally molded O-Ring that compresses around the blowout-proof shaft provide a secondary seal.

Actuator Mounting Platform

The integral ISO 5211 platform facilitates direct mounting of actuators and gear units, thereby improving system reliability and efficiency.

Enhanced Reliability

The rugged body is designed to withstand pipeline stresses and vibrations. Further, enhanced liner thickness assures reliable performance over an extended service. Reinforcements are provided on Aquaseal disc also.

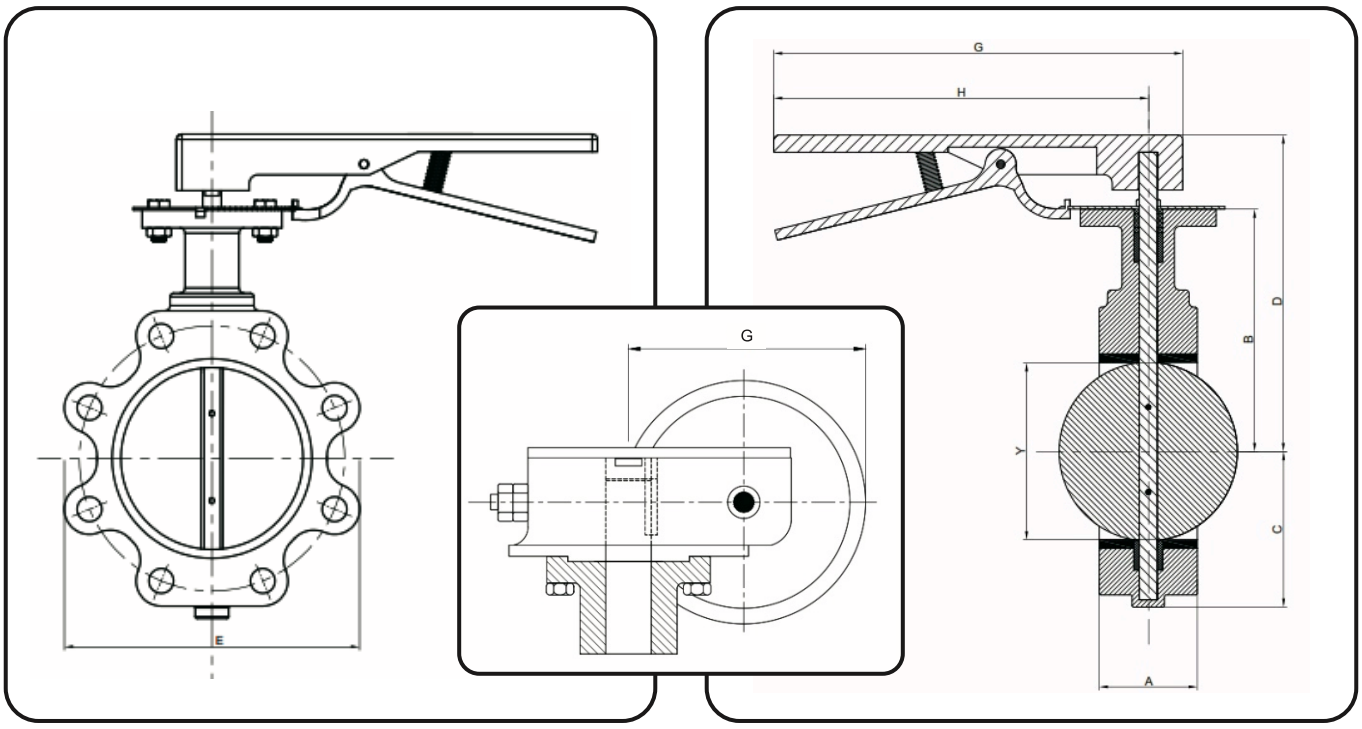
Lower Torque, Longer Life

The Aquaseal disc is profiled for smoother flow. Further the coating/ encapsulation of Nylon and EPDM on the disc helps to reduce torque and prevent disc damage.

Reliable Drive

In Aquaseal a two-piece shaft is employed for closer control and smooth operation. The shaft is Xylan-coated to reduce friction and improve wear resistance. While the square shaft provides positive drive, the bottom shaft acts as a pivot for operational ease.

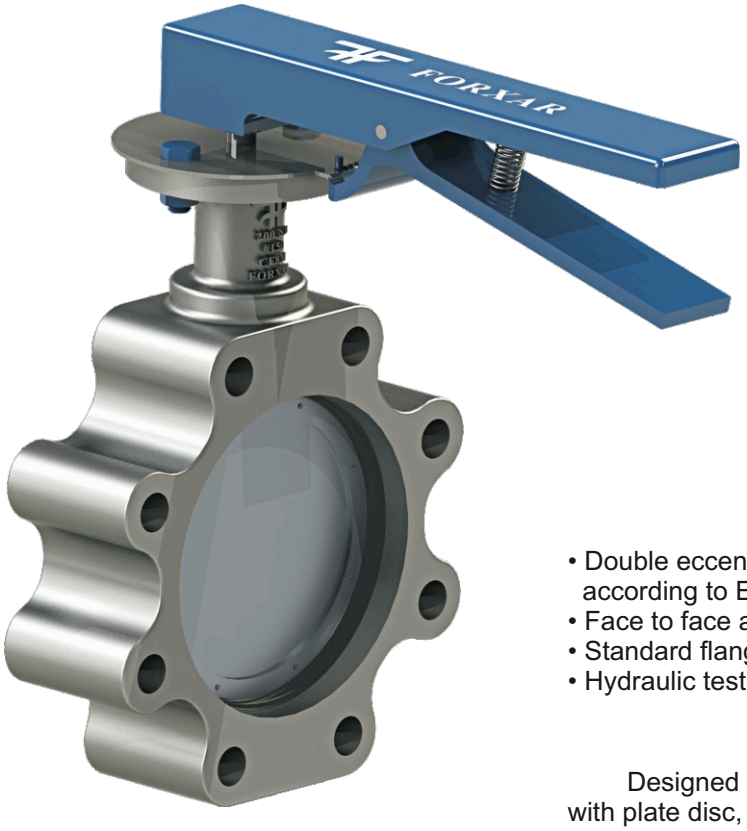
Butterfly Valve Dimensions



Valve Size		A	B	D			C	E		H			G			Y
NPS	DN			Flow Control Lever	Standard Gear Unit	Heavy Duty Gear Unit		Wafer Flangeless	Wafer Lugged	Flow Control Lever	Standard Gear Unit	Heavy Duty Gear Unit	Flow Control Lever	Standard Gear Unit	Heavy Duty Gear Unit	
2	50	43	99	129	277	-	65	96	158	176	181	-	216	242	-	24
2½	65	46	110	140	288	-	78	105	180	176	181	-	216	242	-	46
3	80	46	116	146	294	-	85	123	190	176	181	-	216	242	-	62
4	100	52	134	164	312	-	105	157	216	268	181	-	308	242	-	82
5	125	56	164	194	342	-	118	180	255	268	181	-	308	242	-	107
6	150	56	177	207	355	-	144	212	280	268	181	-	308	242	-	135
8	200	60	235	300	428	450	169	262	345	405	217	255	470	290	375	184
10	250	68	259	332	452	476	214	322	405	513	217	255	610	290	375	234
12	300	78	284	357	477	501	249	373	485	516	217	255	612	290	375	279
14	350	92	318	-	510	535	304	430	530	-	217	255	-	290	375	324
16	400	102	370	-	-	587	340	481	600	-	-	255	-	-	375	374
18	450	114	409	-	-	790	408	524	650	-	-	437	-	-	552	423
20	500	127	441	-	-	828	430	583	710	-	-	437	-	-	552	475
24	600	154	501	-	-	889	500	685	820	-	-	437	-	-	552	573

All dimensions in mm and weights in kg

Double Eccentric Butterfly Valve



Accessories:
- Extension spindle
- Street covers
- Handwheel
- Stem cap for rod
- Adaptor gearside
- Post indicator
- Dismantling joint
- Combi-flange
- Adaptors

different types of gearboxes and electric actuators

- Double eccentric butterfly valve, for water to max. 70° C, designed according to EN 593,
- Face to face according to EN 558 table 2 basic series 14.
- Standard flange drilling to EN1092-2 (ISO 7005-2)
- Hydraulic test according to EN 1074-1 and 2 / EN 12266.

Designed according to EN 593. Double flanged butterfly valve with plate disc, integral seat and IP 67 gearbox with handwheel. Soft seated with NF approved EPDM sealing.Seal retaining ring of stainless steel AISI 420. Body and disc of ductile iron GJS-450-10 with epoxy coating to DIN 30677-2. Shaft of stainless steel AISI 431 with double O-rings and alu bronze bearings and bushings, and stainless steel screws for fixing the keys.

Features & Benefits

Double eccentric design

The double eccentric design gives minimal wear of the disc seal, as the disc swings open/close like a door relieving the stress on the seal just after a few degrees of opening. The seal is fully compressed in closed position which gives 100% drip-tight closure. The disc and seat are designed to give the lowest possible operating torque in opening and closing direction at full differential pressure.

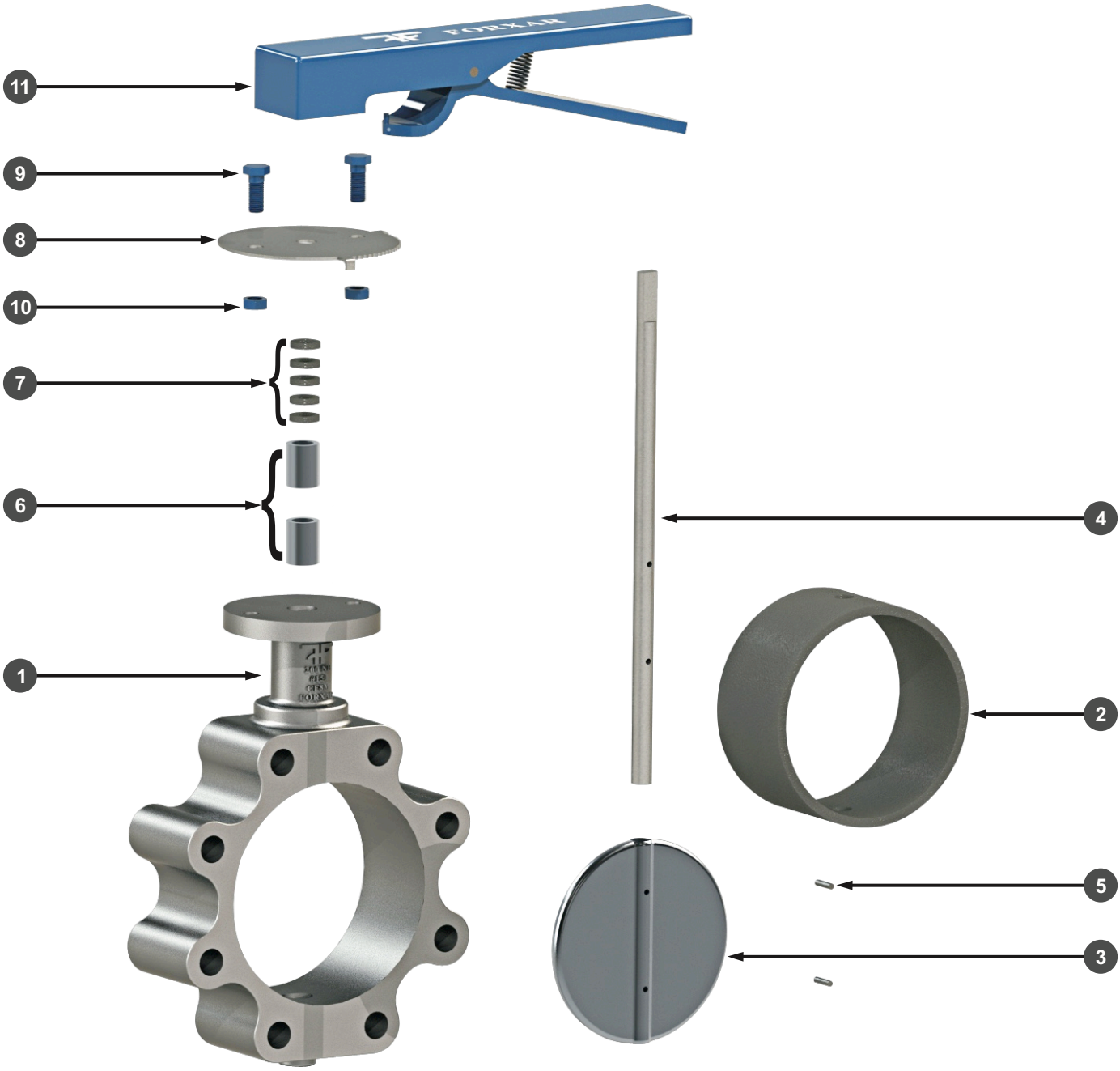
Shaft sealing

Encapsulated O-rings, self-lubricating bearings and bronze bushings protect against galvanic corrosion.

Disc and seat design

The slim and streamlined disc design ensures low pressure loss across the valve, and the disc enables bi-directional flow. The seat is casted in the valve body, which is epoxy coated to avoid corrosion. The disc seals are mounted in a stainless steel retainer ring, and are exchangeable independent of flow direction. The disc is fixed by means of a keyway and set screws protecting against flutter between shaft and disc.

Butterfly Valve Exploded View

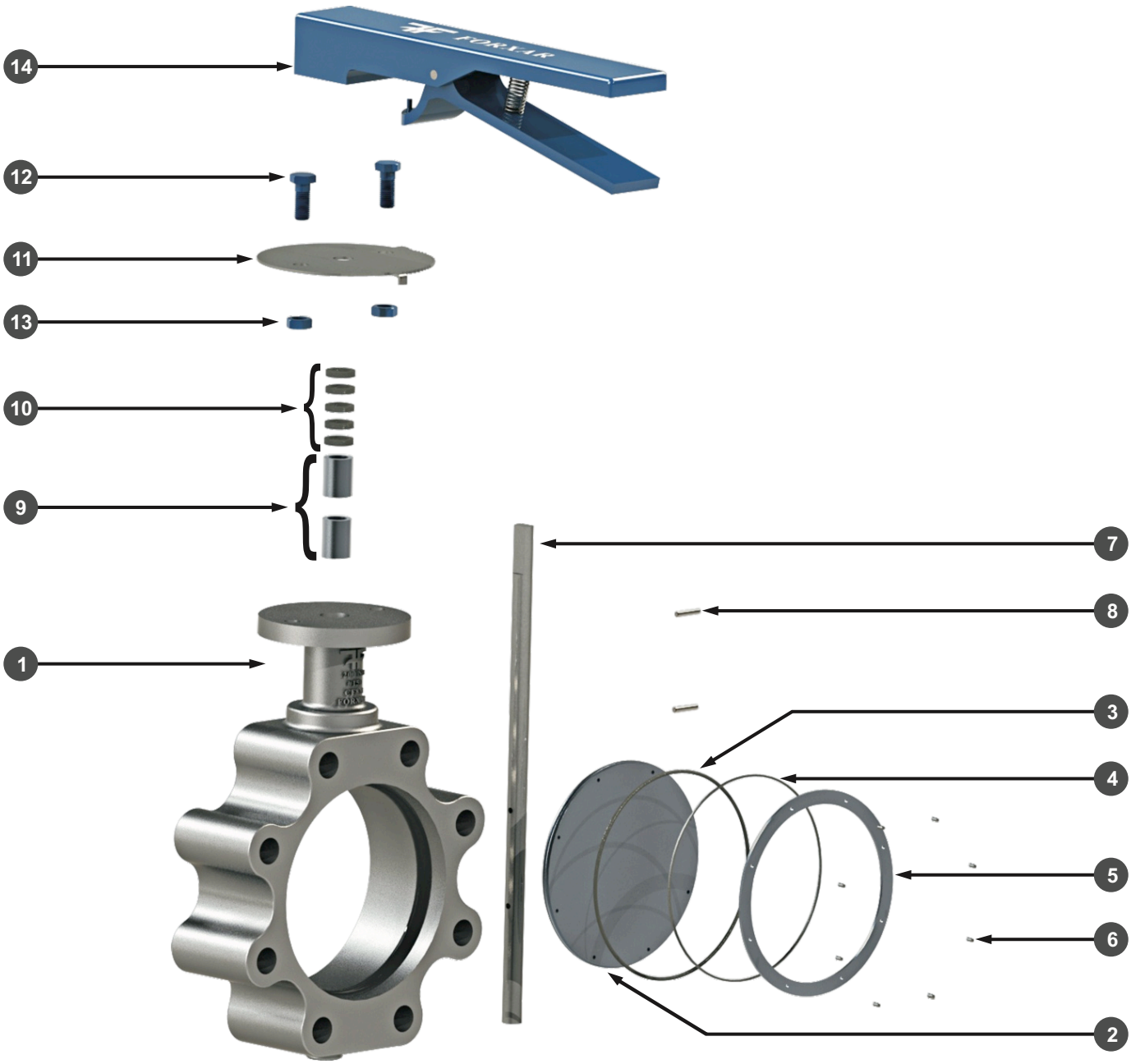


Component Name & Quantity

No.	Component Name	Qty.
1	Body	1
2	Body Liner	1
3	Disc	1
4	Stem	1
5	Dowel Pin	2
6	Bearing	2

No.	Component Name	Qty.
7	Packing	5
8	Lever Stopper	1
9	Bolt	2
10	Nut	2
11	Lever	1
12		

Double Eccentric Butterfly Valve Exploded View

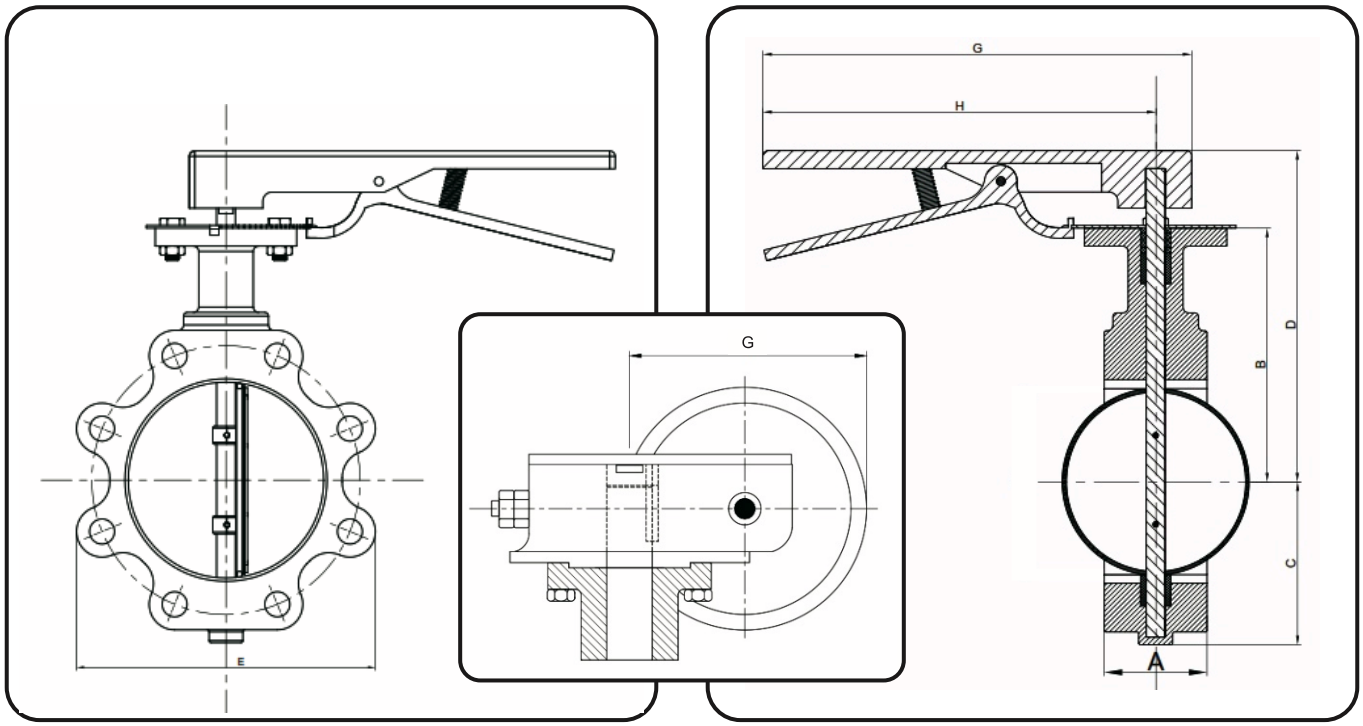


Component Name & Quantity

No.	Component Name	Qty.
1	Body	1
2	Disc	1
3	Disc O Ring	1
4	Disc Seal	1
5	Retainer Ring	1
6	Retainer Dowel Pin	8
7	Stem	1

No.	Component Name	Qty.
8	Stem Dowel Pin	2
9	Bearing	2
10	Gland Packing	5
11	Lever Stopper	1
12	Bolt	2
13	Nut	2
14	Lever	1

Double Eccentric Butterfly Valve Dimensions



Valve Size		A	B	D			C	E		H			G		
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4	100	52	134	164	312	-	105	157	216	268	181	-	308	242	-
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20	500	127	441	-	-	828	430	583	710	-	-	437	-	-	552
24	600	154	501	-	-	889	500	685	820	-	-	437	-	-	552

All dimensions in mm and weights in kg