

Butterfly Valves

Butterfly Valves replace conventional valves like ball, gate and globe valves with its advantage of reduced weight, compact design, bubble tight shut-off and ease of operation and automation.

Design

“Aurum” Butterfly Valves are designed keeping in mind efficient flow of fluid, total assurance against any leakage as well as advantage of light weight, compact design and low torque of operation. The valves are fitted with body liner, which can be provided to suit different applications. This liner gives valve perfect sealing and also prevents any contact of fluid with body material of the valve, thus increasing life of the valve against any corrosion. The smooth surface of the liner eliminates any friction between disc and liner thus further increasing valve life.

No Gasket

“Aurum” Butterfly Valves can be fitted conveniently in horizontal as well as vertical position in a pipeline. The specially designed body liner excludes the need of any gasket or any other kind of other sealing between valve and flanges in the pipeline.

Low Torque

The fitment of the shaft with disc and its interference with body liner ensures bubble tight sealing but operation with minimal torque. The valve is fully open or closed in a quarter turn.

The valve body is one-piece design. The top flange is designed to mount required valve operator such as gearbox and actuators.

System Construction

Beside sealing around the disc and the body liner(seat), valve is also designed for sealing between stem and stem hole in body liner. In addition to this O-rings are provided on the stem to further ensure any leakage. The stem is also provided with bushes at both ends which also decreases torque of operation of the valves and thus help operate it smoothly.

Standard

“Aurum” Butterfly Valves conforms to BS: 5155 and IS 13095.

Range

Wafer type butterfly valves are available from size 1-1/2” (40 mm) to 12” (300 mm). Wafer type butterfly valves decrease cost of installation to almost 50%, as lesser hardware such as flanges and studs is required for the installation.

Temperature Rating

Depending on the material of the body liner, valves can be operated from temperature of –50 deg C to 200 deg C

Pressure Rating

Valves are available in PN 10 & PN 16 (BS:5155, IS:3095)

Operation

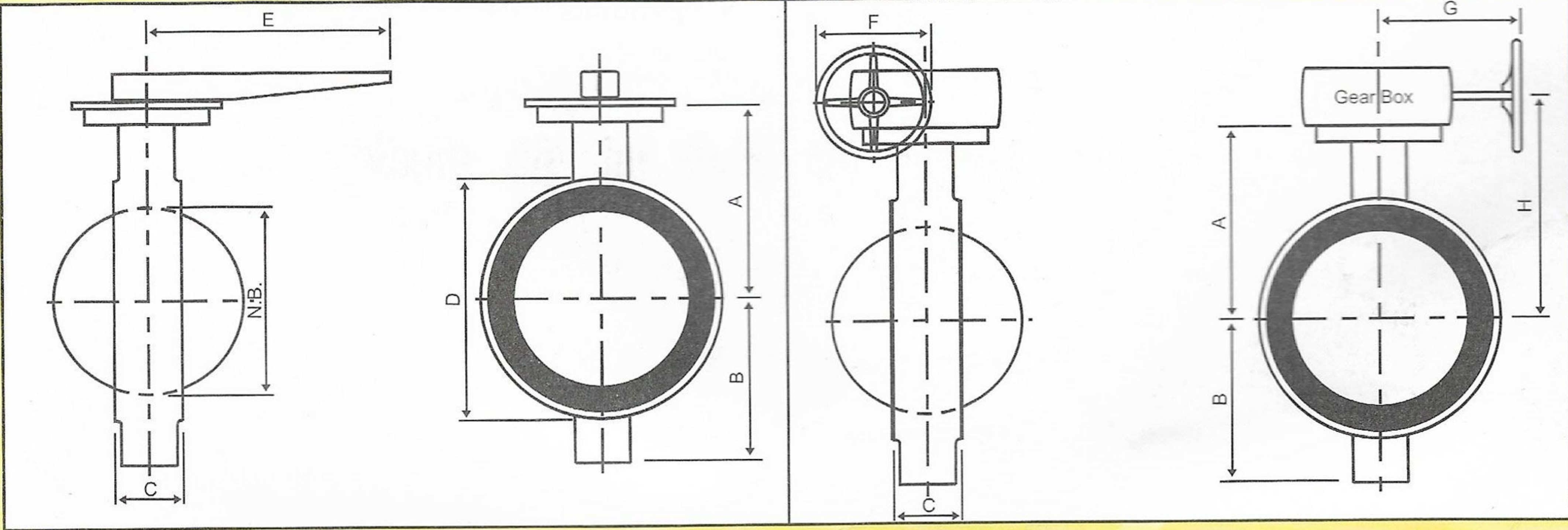
Valves can be operated manually through handle in lower sizes and with gear unit or actuator in sizes above 8” (200 mm)

Utility

Combinations of various materials of construction along with different types of body lining (EPDM, nitrile, silicon, Buna – N etc) makes “Aurum” butterfly valves to meet many requirements within industries, building construction, HVAC, sea water applications, power plants and other general applications handling different fluids like water, oil, air, acids and other solutions.

Material Chart

Sr. No.	Part Name	Material	Specification
1	Body	Cast Iron	IS 210:1978 - FG 200,
2	Disc	Cast Iron, SG Iron, Stainless Steel, Gun Metal	IS 210:1978 - FG 200, IS 1865:1974 - SG 400/12 AISI 304: 1984 - LTB2 IS 318:1984 - LTB2
3	Body Lining (Seat)	EPDM., Nitrile, Silicon, Buna-N	—
4	Spindle / Pin	Stainless Steel	AISI 410
5	Retaining Nut	Stainless Steel	AISI 410
6	Plate	Mild Steel	IS 226
7	Bearing	PTFE, Nitrile Rubber	—
8	Handle	Mild Steel	IS 226
9	Fasteners	Carbon Steel	—



Dimension Chart

Valve Size	Nominal Bore (NB)	A	B	C	D	E	F	G	H
1½"	40	95	57	33	80	180	—	—	—
2"	50	105	65	43	98	260	—	—	—
2½"	65	115	70	46	110	260	—	—	—
3"	80	125	81	46	125	260	—	—	—
4"	100	146	101	52	149	260	—	—	—
5"	125	164	118	56	180	260	—	—	—
6"	150	179	129	56	215	260	—	—	—
8"	200	215	155	60	267	450	—	—	—
10"	250	250	200	68	320	450	250	165	283
12"	300	275	215	78	370	500	250	165	310