

Low Torque BUTTERFLY VALVE

BF10R Series

- Wafer body design upto 300mm (12"), Lugged on request
- Valve rating PN10 (150 psi)
- Low operating torque
- Bi-directional flow with bubble tight shut off
- ON/OFF and regulating service
- Primary and secondary sealing
- Site replaceable seat liner
- Anti-static and anti-blow out
- ISO 5211 operator mounting flange



Changing the way you think about valves...

CONSTRUCTION AND TECHNICAL INFORMATION

Introduction:-

Advance valves BF 10R Series is a light weight low torque butterfly valve which because of its compact design provides excellent structural stability, flow efficiency and effective sealing resulting in prolonged service life and ease of operation.

Design Feature:-

1. Replaceable seat to body construction:- A special replaceable seat with tongue and groove design provides complete isolation of flowing media from body. The sandwiched replaceable seat design eliminates the need of additional line gasket.
2. Spherical design of disc and seat:- Spherical design of the replaceable seat near its contact area with stem provides primary stem sealing and reduce seating/unseating torque. This design not only reduces wear and tear of the contacting surface of the seat but also provide tight shut off and excellent regulating characteristics to the valve.
3. A specially designed double "D" connection in the upper stem helps to improve the efficiency of torque transfer from the valve operator to the disc. This helps to optimize the actuator selection.
4. Primary and secondary stem seal design:- The stem seal design incorporates a primary seal inherently ensured by interference fit of soft seat with the disc hub and the secondary sealing is provided by special double o-ring design which ensures prevention of leakage even under worst condition.
5. The valve uses a set of corrosion free heavy duty bushes to avoid shaft deflection and to minimize bearing friction.
6. Integral ISO:5211 operator mounting flange is available for operator assembly like hand lever, gear box, electrical actuator and pneumatic actuator.

Technical Specification:

Size Range	: 50NB to 300NB
Valve Model	: Wafer (Lugged available on request)
Pressure Rating	: PN10
Temperature	: -20°C to 120°C
Design STD	: API 609, EN: BS 593, IS 13095
Face to Face Dimension	: As per API 609 Cat.-A, EN 558 Sr 20
Flange standard	: ASME B16.5 #150, ASME B16.1 #125, AWWA C-504, JIS OK
Testing	: As per API 598 (Body shell 15 bar, Seat Hydro 11 bar & Seat Pneumatic 6 bar)
Operator	: Hand lever, Gear Box / Actuator on request

Standard Material of Construction:

Body : IS:210 FG 260 (CAST IRON) /ASTM A126 GR.B
Disc : ASTM A351 GR.CF8 (SS 304), SG Iron ASTM A395 GR. 60-40-18
Seat : EPDM
Stem : SS 410
Note : Other materials are available on request.

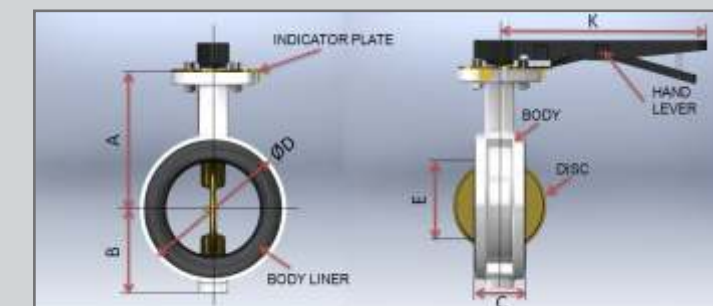


TABLE OF INSTALLATION (mm)

Valve Size	A	B	C (Face to Face)	∅D	E	K	Valve Weight Approx. (kg)
50	112	60	43	97	26	176	2
65	120	69	46	111	46	176	2.5
80	128	75	46	127	65	176	3
100	146	89	52	157	86	260	5
125	161	108	56	189	112	260	7
150	174	120	56	216	139	260	8
200	198	152	60	270	191	400	12
250	244	205	68	324	241	760	21
300	275	249	78	368	290	975	27

