KINGER Wafer Rubber-lined Butterfly Valves are a general-purpose design for water and industrial applications. The liner is bonded to a rigid backing to eliminate seat distortion and reduce sealing torque. This feature also allows the valve to be repaired in the field.

KINGER delivers high-integrity construction materials matched to each application requirement. Each valve is manufactured from ductile cast iron with fusion-bonded epoxy (FBE) coating.

The KINGER Wafer Rubber-lined Butterfly Valve is available in standard sizes from DN50 to DN600 for pressure ratings PN10 and PN16.

Higher-pressure ratings and larger nominal sizes are available upon request.

Every KINGER product is supported by excellent technical support, sales assistance and after-sales service.



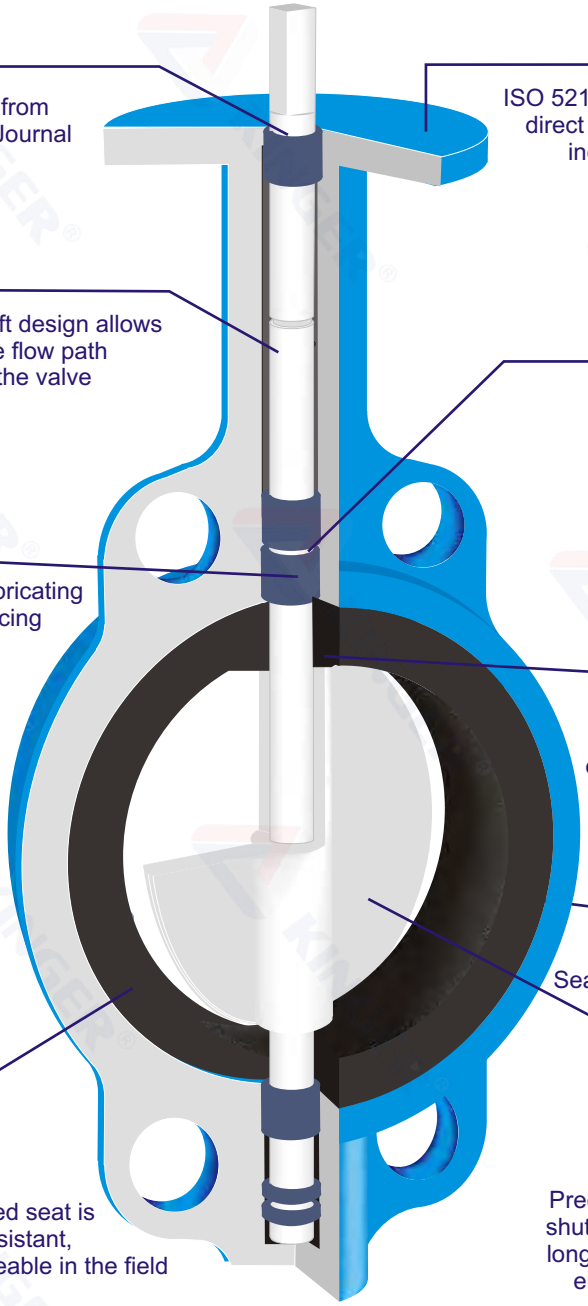



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# MATERIALS OF CONSTRUCTION

KINGER Wafer Rubber-lined Butterfly Valves are a general-purpose design for water and industrial applications. The liner is bonded to a rigid backing to eliminate seat distortion and reduce sealing torque. This feature also allows for the valve to be repaired in the field.

Benefits of the KINGER design are:



**Dust Seal**
Keeps dust and moisture from entering the upper Shaft Journal

**Mounting Flange**
ISO 5211 mounting flange accommodates direct mounting of all types of actuators, including levers, gear operators and electric or pneumatic actuators

**Shaft**
Either one or two stub shaft design allows the disc to "float" within the flow path increase the Life Cycle of the valve

**O-Ring Seals**
Provides further assurance against possible stem leakage

**Shaft Bushing**
Shaft Bearings are self lubricating and chemically inert, reducing operating torque

**Hub Seal**
Smooth finished discs flats mate with seat flats to give a highly efficient primary seal that prevents leakage into the shaft area

**Seat Face**
Seat to flange seal obviates the need flange gaskets

**Seat**
Phenolic/ Aluminum backed seat is non collapsible, stretch resistant, blow out proof and replaceable in the field

**Disc**
Precision profile provides bubble tight shut-off, assures minimum torque and longer seat life. Specific shape of disc ensures the least resistance to flow

Information subject to change without prior notice

# GENERAL SPECIFICATIONS

**DESIGN TYPE**
Wafer Pattern Rubber Lined Design

**ACCEPTABLE APPLICATIONS**
Water and Industrial Applications

**OPERATING PRESSURE RANGE**
PN 10/16

**OPERATING TEMPERATURE RANGE**
0° to 120°C

**SIZE RANGE**
DN50 to DN600

**APPLICABLE STANDARDS**
BS5155

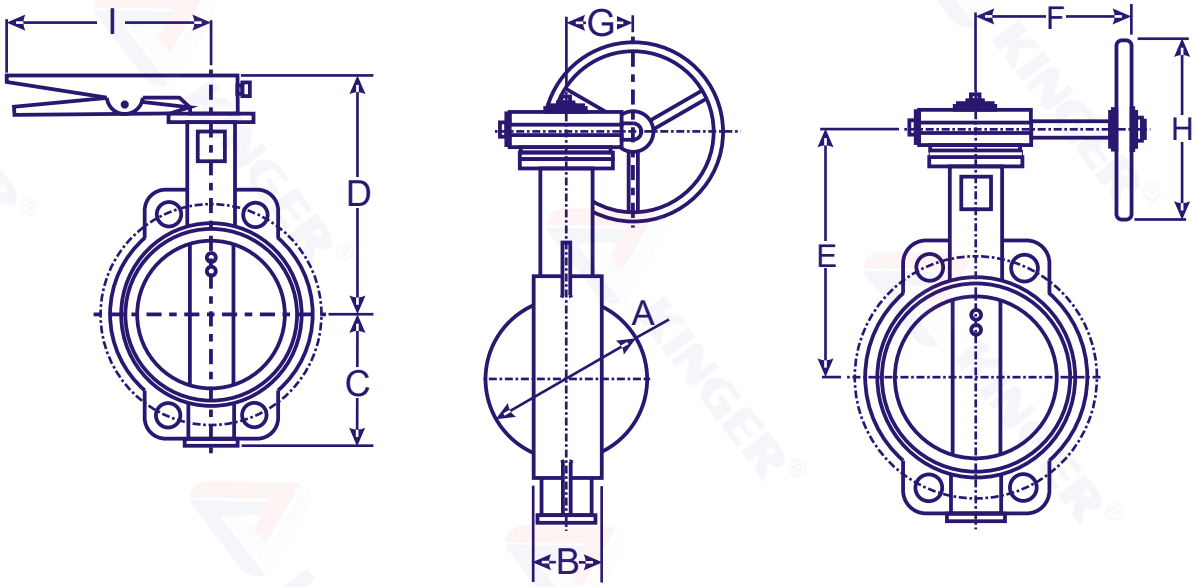
**MATERIALS OF CONSTRUCTION**
Body - Ductile Cast Iron - FBE Coated
Disc - Stainless Steel 316
Linings - EPDM

**STANDARD FACTORY TESTS**
Body 1.5 times PN

**END CONNECTIONS**
SABS 1123 Table 16, BS4504 PN16

**DESIGN OPTIONS**
Nickel Plated Ductile Iron Discs
Nitrile Liners
2 Stub Shafts
Pinned Shafts
Pinless Shafts

# OVERALL DIMENSIONS




| DN | A | B | C | D | E | F | G | H | I | Weight kg | | BS4504/ SABS 1123 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | With Lever | With Gearbox | |
| 50 | 53 | 42 | 80 | 193 | 198 | 121 | 48 | 150 | 267 | 3 | 8.5 | 10/16 |
| 65 | 65 | 45 | 89 | 207 | 212 | 121 | 48 | 150 | 267 | 3.7 | 9.2 | 10/16 |
| 80 | 79 | 45 | 95 | 213 | 218 | 121 | 48 | 150 | 267 | 4.1 | 9.6 | 10/16 |
| 100 | 104 | 52 | 114 | 232 | 237 | 121 | 48 | 150 | 267 | 5.4 | 11 | 10/16 |
| 125 | 124 | 54 | 127 | 245 | 250 | 121 | 48 | 150 | 345 | 7.8 | 13 | 10/16 |
| 150 | 156 | 56 | 139 | 258 | 263 | 121 | 48 | 150 | 345 | 8.6 | 14 | 10/16 |
| 200 | 203 | 61 | 175 | 305 | 305 | 163 | 70 | 300 | 353 | 14 | 22 | 10/16 |
| 250 | 251 | 65 | 203 | 337 | 337 | 163 | 70 | 300 | 353 | 20 | 28 | 10/16 |
| 300 | 302 | 77 | 242 | 382 | 387 | 193 | 95 | 300 | 353 | 34 | 51 | 10/16 |
| 350 | 334 | 77 | 267 | - | 418 | 193 | 95 | 300 | - | - | 61 | 10/16 |
| 400 | 390 | 87 | 297 | - | 525 | 284 | 178 | 300 | - | - | 82 | 10/16 |
| 450 | 441 | 106 | 315 | - | 547 | 284 | 178 | 300 | - | - | 117 | 10/16 |
| 500 | 492 | 132 | 348 | - | 625 | 311 | 221 | 300 | - | - | 170 | 10/16 |
| 600 | 593 | 152 | 444 | - | 707 | 311 | 221 | 300 | - | - | 205 | 10/16 |

Note: DN450 to DN600 supplied with a 2 stage Worm Gear
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