

# Graphite Laminated Seals

Sealing Solution for Critical Butterfly Valve Applications



## Achieving ANSI Class VI Shutoff with Graphite Laminated Seals in Butterfly Valves

Technetics Group laminated seals, consisting of a lamination of graphite and metal, offer a combination of compressible and resilient materials that form a strong seal against rigid valve seats. Through thoughtful design and precise manufacturing, our laminated seals can achieve bidirectional ANSI Class VI shut-off, the most stringent leakage performance standard as tested with liquid nitrogen.

With state of the art engineering and testing, our laminated seals deliver the best results, in terms of leakage rates, cycle frequency and fire safety. They are essential in achieving a low leakage rate in shutoff, particularly in bidirectional flow environments. For applications that require leakage rates in compliance with ANSI VI standards, precision of the seal is of the utmost concern. While the design of a typical laminated seal is well known, Technetics Group has the ability to consistently achieve high performance levels with a thorough understanding of and commitment to sealing technology.

### KEY FEATURES & BENEFITS

- Available in sizes from 1 inch to 96 inches
- Operates in wide range of temperatures between -196 °C cryogenic applications to 500 °C steam applications
- Withstands pressures up to 150 bar

### SERVING CRITICAL INDUSTRIES

- Oil & Gas
- Cryogenic
- Nuclear power
- Industrial

### SEAL MATERIALS

- Metal layers
  - Stainless steel
  - Duplex stainless steel
  - Copper alloy
- Non-metal layers
  - Graphite

### INSTALLATION

- On the disc (conical part on the outside)
- On the body (conical part on the inside)

### ADDITIONAL CAPABILITIES

- Can design with various graphite densities to ensure stability of the gasket-geometry (shape of the conical area) once compressed
- Special designs available with exotic materials according to specified requirements



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