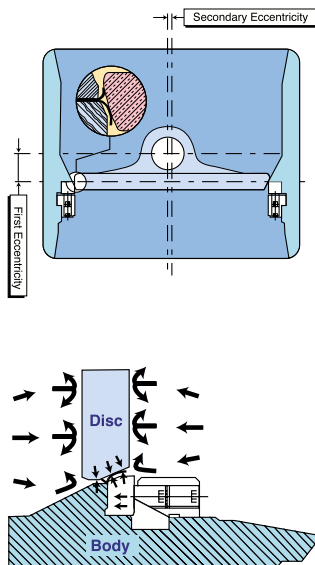


# BWD

*BWD series has (2) metal seats, providing inherent firesafe characteristics, primarily used in District heating systems and Thermal plants where a "Maintenance free" valve is required.*

*The Butt weld design of the BWD is made of the highest grade of selected materials designed for a lengthy Life Cycle of reliable performance.*

*The BWD is available in both Flanged and Butt weld end connections suited to applications from Vacuum to High Pressure and both Low to High Temperature service conditions.*



**Flange Rating:**  
ANSI CL. 150/CL. 300

**Nominal Diameter:**  
DN200 (8") to DN1500 (60")

**Temperature Range:**  
Up to 650°C (1200°F)

**Working Pressure:**  
Full Pressure Rating

**Features:**

- Butt weld Ends
- Double Metal seat design
- Bi-directional Tight Shut Off
- Low Operating Torque
- Excellent Control characteristics
- Anti blowout Shaft design
- Maintenance Free design

**Applications:**

- District Heating Systems
- Oil and gas Industry
- Combined / Nuclear Power Plant

**Operators:**

- Manual Lever/ Worm Gear
- Pneumatic or Electric actuation

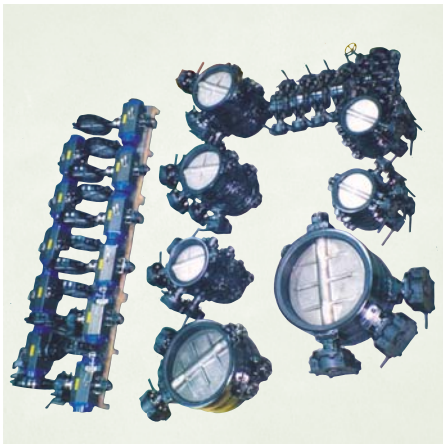
**Options:**

- Stellite on Disc c/w Inconel seat
- ENP coated Disc
- Manual operator Locking Device
- Bonnet / Stem Extension

## GRS



*GRS design is an Elastomer seated Butterfly valve used for demanding process conditions requiring positive shut-off and effective flow control.*



### Flange Rating:

ANSI CL. 150/ PN 10

### Nominal Diameter:

DN40 (1.5") to DN1500 (60")

### Temperature Range:

-20°C (-4°F) Up to 120°C (250°F)

### Working Pressure:

Max. 10 Bar

### Features:

- Elastomer Lined Body Seat design
- Bi-directional bubble-tight sealing.
- Low Operating Torque
- Excellent Control characteristics
- Anti blowout Shaft design
- Easy Maintenance design

### Applications:

- General / Petro-chemical
- Oil Refinery / Production
- Steel & Iron Mills
- Shipbuilding
- Water Treatment
- Seawater

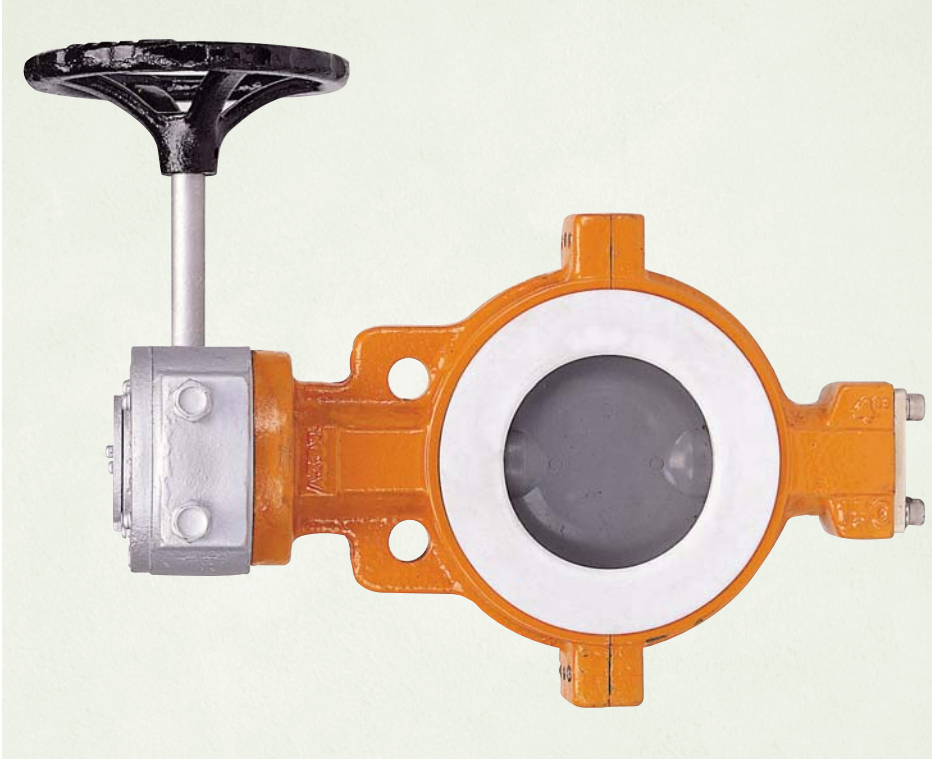
### Operators:

- Manual Lever/ Worm Gear
- Pneumatic or Electric actuation

### Options:

- Teflon V-Packing
- Anti-static device
- Stem Extension
- Monel / Al-Bronze Body & Disc

## GTS



*GTS is designed for sustainable anti-corrosive chemical applications consisting of a two-piece split body and one-piece disc-stem that are completely Teflon lined.*



**Flange Rating:**  
ANSI CL. 150/ PN 10

**Nominal Diameter:**  
DN50 (2") to DN300 (12")

Temperature Range:  
-40°C (-40°F) to 175°C (350°F)

**Working Pressure:**  
Max. 6 Bar

**Features:**

- Virgin TFE Liner
- One piece PFA encapsulated Disc-Stem
- Silicon Backup Ring
- Low Operating Torque
- Bi-directional Seating
- Double Structured Stem packing

**Applications:**

- General / Petrochemical
- Pulp & Paper
- Food & Beverage
- Steel & Iron Mills
- Sugar Refining
- Sewage

**Operators:**

- Manual Lever/ Worm Gear
- Pneumatic or Electric actuation

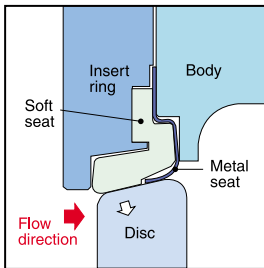
**Options:**

- Anti-static device
- Plain non-coated Disc
- Manual operator Locking Device
- Mirror Polished Disc

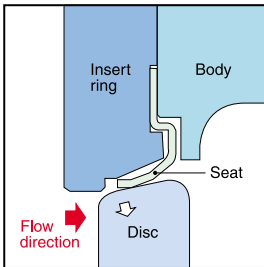
## GFB

**GFB, double flanged Butterfly valve, has an eccentric structure enabling smooth operation and tight shut-off at many conditions.**

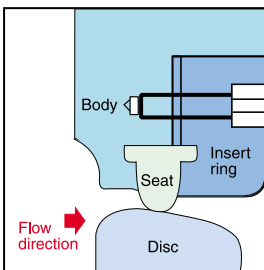
**Rubber lining is applicable to the inner body for anti-corrosion duty to prevent rust and corrosion of the body. The inner body lining is available in a Teflon or metal seated design.**



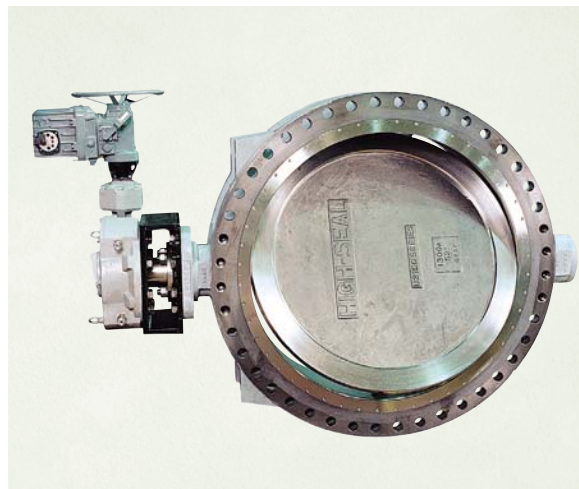
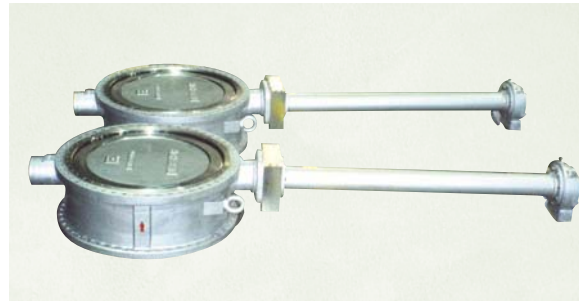
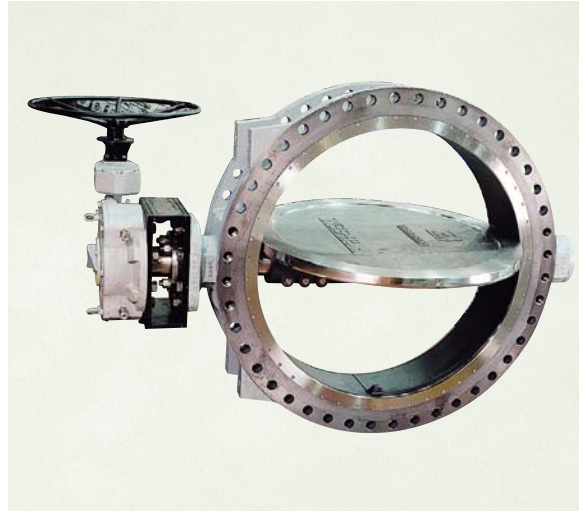
**Teflon Seat**



**Metal Seat**



**Rubber Seat**



**Flange Rating:**

ANSI CL. 150/CL. 300  
AWWA C504

**Nominal Diameter:**

DN150 (6") to DN2250 (90")

**Temperature Range:**

- Rubber Seat: Up to 120°C (250°F)
- Teflon Seat: Up to 250°C (480°F)
- Metal Seat: Up to 650°C (1200°F)

**Working Pressure:**

Full Pressure Rating

**Features:**

- Flanged Ends design
- Three Individual Seat Designs
- Anti-blowout Shaft design
- Low Operating Torque
- Facile Maintenance

**Applications:**

- General & Petrochemical
- Refinery Production
- Steel & Iron Mills
- Oil Production (On/Off Shore)
- Waterworks / Sewage
- Shipbuilding
- Power Plant
- Seawater

**Operators:**

- Manual Lever/ Worm Gear
- Pneumatic or Electric actuation

**Options:**

- Anti-static Device
- Internal rubber Liner
- Manual operator Locking Device
- Stem Extension
- Special Materials as per applications