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Offshore - Spiral Wound Gaskets

## Recommendations for Fitting

### General Information

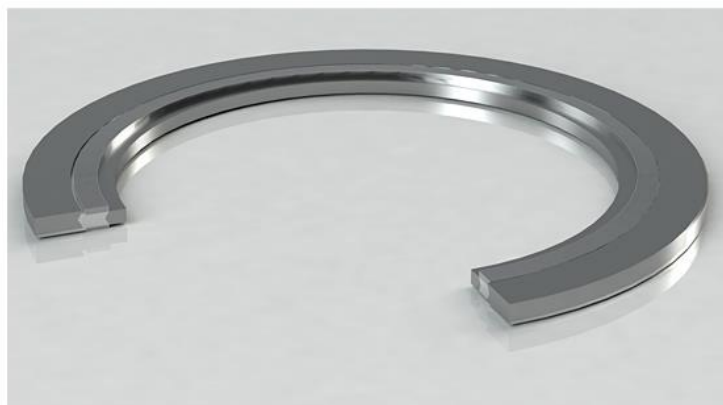
Spiral Wound Gaskets are manufactured from V-shaped metal strips, spirally wound with a soft filler material. At the start and conclusion of the spiral form, several continuous turns of the metallic windings are securely welded together.

The construction is capable of infinite variety as the number of metal plies in relation to filler plies can be increased or decreased. The metal and filler material can be varied to suit practically any service conditions.

The use of steel supporting rings on the inside or outside of the spiral wound portion (or both) permits the application of these gaskets to be extended to flat or raised face flanges under high pressure.

### Features

- Fire-safe certified versions available
- Available in materials capable of withstanding temperatures from the cryogenic range to at least 1000°C.
- Can, in standard form, seal pressures up to 35MPa/350bar. Higher pressures (e.g. class 2500) can be considered
- on request
- Maintain a seal under conditions of thermal cycling or vibration
- Resist corrosion and leave flange faces clean
- Do not require ground or lapped flange faces
- Are quick to fit and remove
- Can often be used on bowed or pitted flanges
- Offer good performance on difficult dry gas or high vacuum applications





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### Fitting Pipe Flange & Valve Bonnet - Types 'SG', 'SG/IR', 'C' & 'C/IR'

Fit gasket ensuring it is central. Centralisation on pipe flange is assured with gaskets having an outer guide ring for fitting inside the bolt circle (Types 'SG' & 'SG/IR')

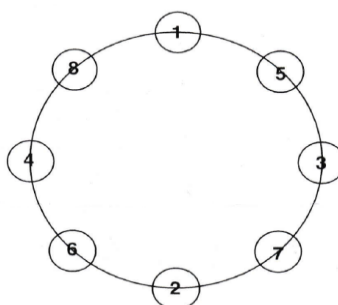
Gaskets must be compressed by a specific degree if maximum service potential is to be realised.

| Nominal Thickness | Compressed Thickness           |
|-------------------|--------------------------------|
| 2.5mm (0.098")    | 1.9 - 2.1mm (0.075 - 0.85")    |
| 3.2mm (0.125")    | 2.4 - 2.6mm (0.095 - 0.105")   |
| 4.5mm (0.175")    | 3.2 - 3.45mm (0.125 - 0.135")  |
| 7.3mm (0.285")    | 5.00 - 5.25mm (0.197 - 0.207") |

Compression down to the guide ring is to be preferred for types 'SG' and 'SG/IR' gaskets on all high pressure, high temperature applications.

### Important Notes

- Prior to fitting, remove any adhesive tape, etc. that may have been applied to the gasket during transit
- Graphite or jointing compounds must **NOT** be used with these gaskets
- Flanges should be clean and in good condition
- When tightening bolts -
  - Ensure that bolts are clean and well lubricated
  - Washers should always be used
  - Bolts must be progressively and uniformly tightened in an **OPPOSED** sequence (see Fig. below)



Example of correct tightening sequence