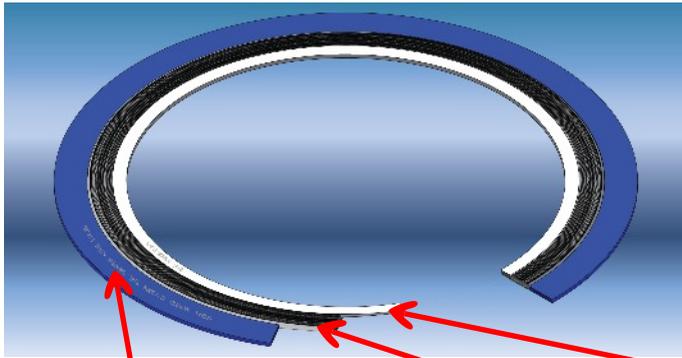




# Advanced Sealing

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## Spiral Wound Gaskets from Advanced Sealing

A preformed metal strip and soft, compressible filler material are wound into a tight coil, forming a sealing element that combines the best of both materials. Spiral wound gaskets have been the gasket of choice for industrial services for over 100 years.

### Guide Ring

Also called the "Outer Ring" or "Centering Ring", this ring fits within the bolts of a standard flange, centering the winding on the flange face. It also serves as a compression stop to prevent over compression of the winding.

The standard, stocked material for the guide ring is Carbon Steel. Other materials can be substituted to meet the thermal or chemical requirements of your application.

### Winding

This tightly wound spiral element deforms when compressed by the flanges. The soft filler material fills the flange irregularities, while the metal strip provides rigidity and recovery.

The standard, stocked winding materials are:

- 316L SS with Flexible Graphite
- 304 SS with Flexible Graphite

Other materials can be specified to meet the application requirements.

### Inner Ring (1)

Inner rings provide additional rigidity to the winding, allowing better load retention without the risk of buckling. By filling the ID flange gap, they also reduce turbulence in the flow, reducing erosion or corrosion.

The inner ring is usually made from the same metal as the winding, but other materials can be used. PTFE can be used to provide chemical protection to the gasket or flange, but it will not prevent inward buckling of the winding.

### Material Options and Corresponding Color Codes

| Metallurgical Options - Guide Ring Color |        |
|--|--------|
| 304 SS                                   | Yellow |
| 316L SS                                  | Green  |
| Alloy 20                                 | Black  |
| Nickel                                   | Red    |
| Hastelloy B                              | Brown  |
| Inconel                                  | Gold   |

|              |           |
|--------------|-----------|
| 321 SS       | Turquoise |
| 347 SS       | Blue      |
| Hastelloy C  | Beige     |
| Carbon Steel | Silver    |
| Monel        | Orange    |
| Titanium     | Purple    |

| Filler Options - Stripe Color |             |
|-------------------------------|-------------|
| Mica Graphite                 | Pink        |
| Flexible Graphite             | Gray        |
| PTFE                          | White       |
| Ceramic                       | Light Green |

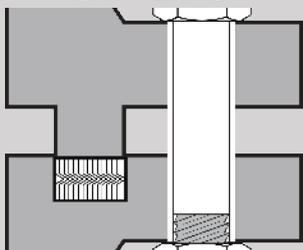
### To Order, Please Specify:

- Quantity
- Pipe Size
- Pressure Class
- Style (S, SW, or SWI)
- Materials of Construction

NOTE 1: ASME B16.20 requires the use of inner rings for all spiral wound gaskets with PTFE-filled windings, and for some large sizes with all other fillers. It also requires inner rings for all spiral wound gaskets with flexible graphite-filled windings "unless the purchaser specifies otherwise." Advanced Sealing strongly recommends inner rings on all graphite-filled spiral wound gaskets.

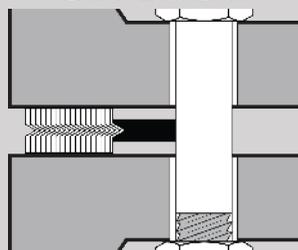
Note 2: A chart with recommended bolt-up torques is available from Advanced Sealing at your request. It can also be found at <http://advseal.com/information/torque-values/>

### *STYLE S*



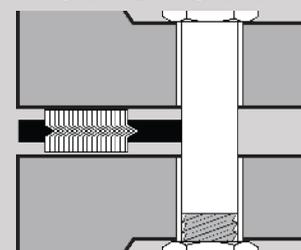
For Male and Female tongue and groove flanges, and pumps and valve bonnets.

### *STYLE SW*



For standard ASME B16.5 pipe flanges, where an inner ring is not required.

### *STYLE SWI*



For standard ASME B16.5 pipe flanges, where an inner ring is required.

DVBE Certified

[www.advseal.com](http://www.advseal.com)

ISO 9001:2008 Certified

The properties and application parameters shown throughout this data sheet are typical. Your specific application should not be undertaken without independent study and evaluation for suitability. For specific application recommendations consult Advanced Sealing. Failure to select proper sealing products could result in property damage and/or serious personal injury.