

Spiral Wound Datasheet

Description

Phoenix spiral wound gaskets comprise a pre-formed metal strip and a softer filler material, spirally wound together to form a seal with excellent mechanical resistance and recovery. They are available with or without retaining rings, and in a range of different materials to suit the applications conditions.

Application

Spiral wound gaskets are used in many industrial sectors including refining, chemical, power and pipeline construction. They are particularly suited to arduous operating conditions, and can be used across the full range of pipe pressure classes as well as in vessel flanges and other non-standard applications. Temperature and pressure limits are shown at the bottom of the datasheet.



Styles

PM-R



Sealing Element Only
Ideal for tongue and groove, flat to recess and male to female flanges.

PM-RIR



Sealing Element + Inner Ring
Ideal for male to female flanges

PM-OR



Sealing Element + Outer Ring
Ideal for raised and flat face flanges. The outer ring acts as a location aid and compression stop

PM-ORIR



Sealing Element + Inner and Outer Ring
Ideal for raised and flat face flanges, outer ring acts as a location aid and compression stop

PM-HXR



Sealing Element
Ideal for large diameter heat exchanger gaskets

PM-HXIR



Sealing Element with Inner Ring
As PG-HXR but with inner ring, the inner ring prevents over compression of the sealing element

As the company's products are used in multiple applications and as the company has no control over the method of their use, the company excludes all conditions or warranties, expressed or implied by statute or otherwise. Any technical co-operation is given for customers assistance only and without liability on the part of the company

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Availability

The standard thickness for spiral wound gaskets is 4.5mm. They are also available in the following thicknesses: 7.2mm, 6.4mm, and 3.2mm.

We stock gaskets to the following standards: ASME B16.20, EN1514-2, and BS 10

Other standard gaskets are available as well as non-standard configurations.

Filler Materials

Material	Temperature Min (°C)	Temperature Min (°C)	Pressure Max (Bar)
Graphite	-200	450	400
APX2 Graphite	-200	500	400
P.T.F.E	-200	260	150
PG-Therm + APX2 Graphite	-200	800	100

Alloy Materials

Available in a range of alloys including:

- Carbon Steel
- Stainless Steels 316/316L, 304, 321 and 347
- Duplex S31803 and S32750
- Monel 400
- Inconel 600 and 625
- Incoloy 800 and 825,
- Hastelloy B2 and C276
- Titanium

Flange Surface Finish:

We recommend a flange surface finish of 3.2 to 6.3µm Ra (125 – 200 RMS) to ensure optimum sealing of the gasket.



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