

SPIRAL-MAX Boiler Gaskets

Maximize Sealing With The Spiral Effect

Spiral-Max boiler gaskets can be made from a wide variety of profiled alloy containment strips combined with specified sealing composites. Following ASME B16.20 code, the strips are wound around a mandrel specific to the finished gaskets internal dimensions. The gasket's inside diameter contains, at a minimum, three plies of preformed metal strip without the sealing composite and is spot-welded at least three times at a distance no greater than 3" apart around the inner circumference. The sealing material, also in strip form, is introduced and wound together with the profiled alloy to achieve the total width of the gasket. The external layers, up to three plies, are spot-welded circumferentially with a minimum of three welds.

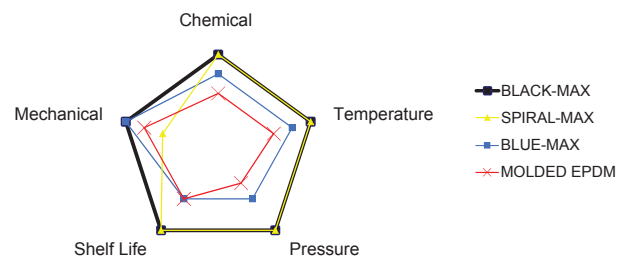
Designed to achieve an effective seal under the most demanding operating conditions, the Spiral-Max profile is engineered to provide recovery in applications where the load on the gasket may vary due to major temperature fluctuations. While there is not a published standard for the construction of hand-hole and man-hole spiral wound gaskets, the industry often categorizes them into pressure ratings 0-999 PSI and greater than 1,000 PSI. The difference between these two designations is the thickness of the sealing composite. A thicker sealing composite results in a lower content of containment strip. Inversely, a thinner sealing composite allows for an increased content of containment strip. The

higher the alloy content, the more pressure the gasket can withstand.

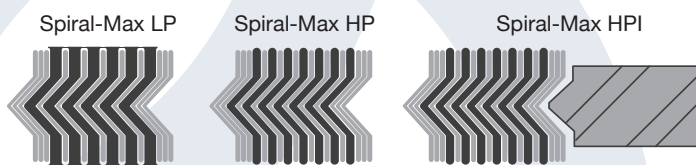
The Spiral-Max designation codes for gaskets manufactured utilizing these techniques are LP (low pressure) and HP (high pressure). At pressures exceeding 1,000 psi the use of an internal solid ring is recommended to provide a mechanical stop and prevent over compression which could lead to inward buckling of the gasket. The designation code for this type of ring construction is HPI (High Pressure-Internal Ring).

Ideal Applications for SPIRAL-MAX Gaskets

- Steam pressure vessels
- Hot water heaters
- De-mineralizers
- Steam humidifiers
- Water purifiers
- Refrigeration units
- Filtering units
- Liquid treatment vessels
- Compressed air tanks
- Dryer cans in paper mills
- Water towers
- Water softeners
- De-aerators
- Make-up tanks



All information and recommendations given in this brochure are correct to the best of our knowledge. Since conditions of use are beyond our control, the information provided only serves as a guideline. Users must satisfy themselves that products are suitable for the intended process and uses. We reserve the right to change product design and properties without notice.



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SPIRAL-MAX Boiler Gaskets

SPECIFICATIONS	SPIRAL-MAX LP	SPIRAL-MAX HP	SPIRAL-MAX HPI
Temperature	-400°F (-240°C) to 850°F (+454°C) in atmosphere, +1200°F (+650°C) in steam		
Pressure	0-999 PSI	1000+ PSI	1000+ PSI
pH Range	0-14		
Compressibility %	18-30		
Recovery	≥17		
Leak Rate cm³/s	≤1.0 x 10 ⁻³		

As a standard, the Spiral-Max products are offered in 3/16" thickness utilizing 304 stainless steel profiled containment strips combined with a high purity graphite sealing composite. Other thicknesses and combinations are available upon request. The Spiral-Max LP incorporates a proprietary design in which the sealing faces are softer, in order to compensate for the low initial seating stress often seen at the startup due to inadequate bolt load.

Shapes Include Hand-Hole: Round, Pear, Elliptical/Oval, Obround, Square/Rectangle and Diamond
 Man-Hole: Round, Elliptical/Oval and Obround

How to Order

When ordering OVAL, OBROUND and RECTANGULAR gaskets, specify inside dimensions of width (W) and length (L). flange width (FW) and shape. When ordering ROUND and SQUARE gaskets, specify inside dimension, flange width and shape. Standard thickness is 3/16" nominal unless otherwise specified.

How to Measure

