

SPIRAL WOUND GASKET



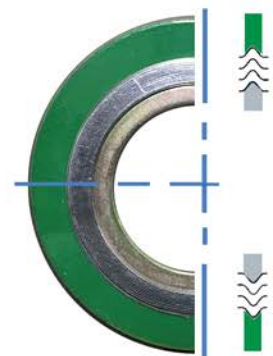
SPIRAL WOUND GASKETS (SPW)

The Spiral Wound Gasket come in a number of different styles which offer outstanding sealing capabilities with in flanges. SPW is in accordance with gasket standard to suit the flange destinations. The ASME B16.20 gaskets were designed for use in ASME B16.50 flange or ASME 16.47

TYPE OF SPIRAL WOUND GASKETS

SPW with Outer and Inner ring

Consisting of sealing element and solid outer ring (Centering ring) and inner ring, both giving additional rigidity to the gasket sealing element, preventing buckling and blowout as well as a pressure limit to avoid over compression on application.

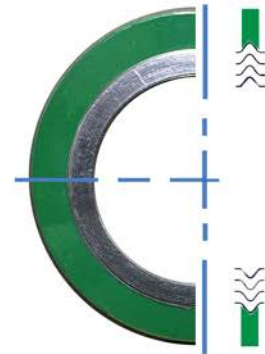


SPW OR+IR

SPIRAL WOUND GASKET

SPW with Outer ring

Consisting of sealing element and solid outer ring (Centering ring) which provide a radial support to prevent blowout as well as a pressure stop to avoid over compression of the gaskets.



SPW with OR

SPW with Inner ring

Consist of sealing element and solid metal inner ring. The solid ring provides an inner radial support to prevent buckling as well as limit to avoid over compression of the gasket.



SPW with IR

SPW winding only

Produced from a formed Spiral wound metallic strip, with a layer of filler material without outer ring and inner ring. (known as the winding)



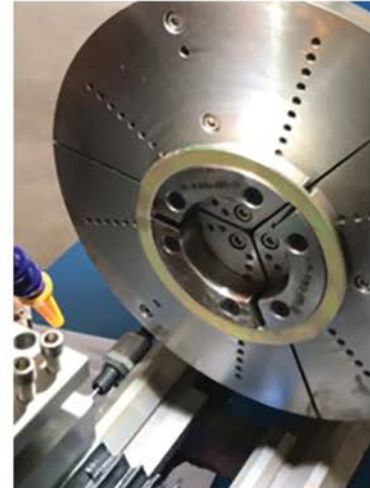
Winding Only

SPIRAL WOUND GASKET

CENTERING RING

It does not touch directly with contained fluid, therefore it can be of several material but the normally standard is carbon steel zinc plate.

In extremely aggressive services, it can be made of the same material as the metal strip such as stainless steel sus304, sus316L etc.






INNER RING

As mentioned before, it is used to avoid an over compression. It is also used to reduce turbulence in the flange area and avoid corrosion or erosion of winding.

Usually, the ring thickness is less than the gasket thickness.

Gasket thickness = 4.5 mm >> Ring thickness = 3.2 mm

Gasket thickness = 3.2 mm >> Ring thickness = 2.7 mm




	Metal Material	Temp (C) min.	Temp (C) max.
	Silver Carbon Steel (CS)	- 40	540
	Yellow SS 304	-195	760
	Green SS 316L	-100	760

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GASKETS SEAL

The Metallic Strip has a standardized thickness of 0.008 in (0.2 mm). The width according to the thickness of gasket seal (t= 4.5 mm, t=3.2 mm etc.)

The filler material provides the sealability of the gasket. It recommended that the edge of the filler be flush with or above the metal strip. It should never be below it.

	Filler Material	Temp (C) min.	Temp (C) max.
	Grey Flexible Graphite	-200	550
	White PTFE	-200	260
	Pink Non-Asbestos	-100	250

PROCESS



Our machines can make the gasket under properly construction (winding and welding process).

The standard thickness for gaskets 3.2mm, 4.5mm both are available.

Manufacture Gasket (mm)	Thickness after Seating (mm)
3.2	2.3- 2.5
4.5	3.2- 3.4

SPIRAL WOUND GASKET

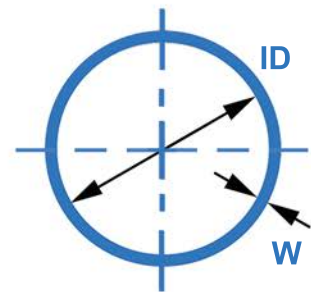
GASKETS FOR BOILER

This gaskets are windings in the circular and non-circular shape such as Oval, Oblong, Rectangular, Square with round corners, Diamond or Pear shapes. It normally used in Boiler, Handholes and Manholds and Exhaust system.

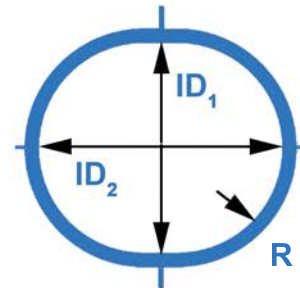
HOW TO ORDER

The dimension of these gaskets are verified by:

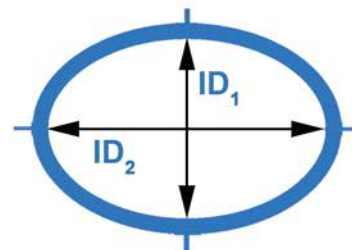
- ID** = Inside Diameter (mm)
- ID₁** = Inside Diameter 1st (mm)
- ID₂** = Inside Diameter 2nd (mm)
- R** = Radius (mm)
- W** = Width (mm)



Round Shape



Oblong Shape



Oval Shape

Even not being standardized some the gaskets are considered standard in the industry such as

	Shape	ID1	ID2	W
S	Oval	220	320	25
M	Oval	300	400	25
L	Oval	320	420	25

Unit in mm.