

Spiral Wound Gaskets are special semi-metallic gaskets of great resilience; therefore they are suitable for applications featuring heavy operating conditions. SWG manufactured by spirally winding a V-shaped metal strip and a strip of non-metallic filler material. The metal strip holds the filler, providing the gasket with mechanical resistance and resilience. SWG can be reinforced by an outer centering ring and/or inner retaining ring. The outer centering ring controls the compression and holds the gasket centrally within the bolt circle. The inner retaining ring increases the axial rigidity and resilience of the gasket and acts as a Heat and Corrosion barrier eliminating turbulence between the gasket Inner diameter and the flange bore so avoiding erosion of the flange faces.



ADVANTAGES

- Sealing under heavy operating conditions.
- Strong stress compensation,
- Stable and Reliable sealing performance even under frequent pressure fluctuation conditions.
- Solid construction provides stability
- Seal ability even when the sealing surfaces are slightly corroded or bent.
- Easy installation meters

SWG STANDARD STYLES



DIMENSIONS:

Standard Sizes: Acc. To ASME/ANSI, DIN, BS, JIS & Non-Standard sizes upon request.
 Manufacturing Thicknesses: 3.2 mm; 4.5 mm; 6.5 mm and 7.2 mm

MATERIALS:

Standard Filler: Flexible Graphite, PTFE, Non-Asbestos, Ceramic etc..
 Standard Metals: SS316L, SS316, SS304, SS304L, SS321, SS347, Monel, Inconel, Incoloy, Titanium, Duplex, Super Duplex etc...

SPIRAL WOUND GASKETS

Spiral wound gaskets have proven to be the most reliable sealing element for use in difficult, critical and arduous duties. Spiral wound gaskets are used in refinery, Petrochemical, Chemical, steam lines and process industries, where they have many advantages over older types of gaskets.

These gaskets are manufactured to international specifications such as BS, API, ASME, JIS and DIN standards. We also manufacture to as per customer's specifications.

FLANGE STANDARDS

ASME/ANSIB16.5	MSS SP44 (ASME B16.47 SERIES A) (AWWA)
BS 1560, BS10, BS4504	DIN FLANGES, JIS FLANGES
API 605 (ASME B16.47 SERIES B)	FRENCH NF STANDARD

COMMON FILLERS USED

FILLERS MATERIALS	MAX. WORKING TEMPERATURE
Graphite Mica	350 F (Temperature)
Graphite 99.8 % purity	1200 C
Non asbestos	550 C
PTFE	250 C
Ceramic	1000 C

INNER AND OUTER RINGS

Carbon steel, stainless steel 304,304L,316, 316L, 316Ti,321,347,MONEL 400 ,Inconel 600,625,800,Incoloy 800,825,Nickel 200,Titanium, Hastelloy, Copper, Duplex, Super Duplex etc...

SPIRAL WOUND GASKET SIZES

Size and shape as per prevailing international standards or Customer needs can be produced

GASKET COMPRESSION & CHOICE OF THICKNESS

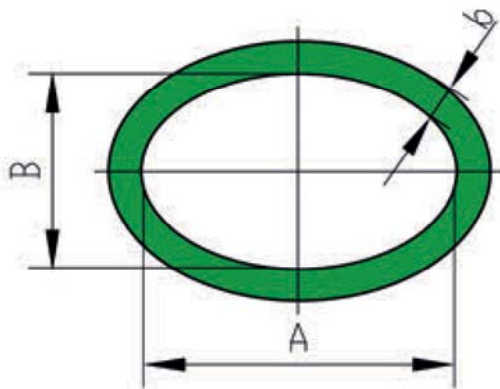
Nom. Thickness	Compressed Thickness
2.5mm(.098 in)	1.9/2.1mm(.075/.085 in)
3.2mm(.125 in)	2.4/2.6mm(.95/.105 in)
4.5 mm(.175 in)	3.2/3.45mm(.125/.135 in)
6.4 mm(.250 in)	4.6/4.8mm (.180/.190 in)
7.3 mm(.285 in)	4.7/4.9mm(.185/.195 in)



GASKETS FOR BOILERS HANDHOLES AND MANHOLES

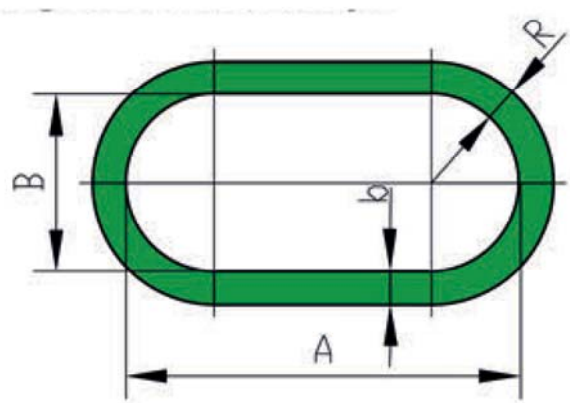
Gaskets Type SWA can be manufactured in other shapes like oval and oblong (stadium). There is no specific standard for this type of gasket. When ordering, complete specifications must be provided inside dimensions (A x B), width (b) and thickness (s) or a drawing

Oval Shape



Dim.: AxBxbxs (mm)

Oblong (stadium) shape



Dim.: AxBxbxs (mm)

GASKET ORDERING EXAMPLE

Spiral Wound Gasket Style: SWA

Size : A x B x b x s

Winding : AISI / SS316

Filler : Graphite 98%

Certification / Approval

TAT- SHELL Approved product

