

The spiral wound gasket for male & female and/or tongue & groove flanged connections.

The **raiflex® S** spiral wound gasket is designed for male-and-female and/or tongue-and-groove joints, fitting inside the flange recess, which controls the gasket's compression.

The dimensions of **raiflex® S** gaskets are directly related to the standard groove dimensions according to the American standard ASME B16.5.

Adequate clearance is provided in each gasket design to prevent overlapping within the grooves during installation.

raiflex® S has a nominal thickness of 0.125" to facilitate alignment during gasket placement. Compression values are calculated based on a thickness reduction of 0.025".

It can be supplied with a thickness of 0.175" upon special order.

Technical data:

Properties:	Value
Temperature, Maximum:	+650°C (steam), +450°C
Temperature, Minimum:	-195°C
Pressure, Maximum:	434 bar
Flange types:	male and female tongue and groove
Flange Surface finish, (Ra):	3.2-6.3µ (125-250 µ")

How to order:

Sealing material: Graphite
Gasket type: raiflex® 340 S1 / S3 / S4
Inner ring material: 304 / 316L*
Winding material: 304 / 316L*
Outer ring material: ----
Diameter: 2"
Class: 150#, 300#, 400#, 600#, 900#, 1500#, 2500#

**other alloys under request.



raiflex® 340 S

Dimensions for tongue and groove, male and female (ASME B16.5 & EN-1560)

NPS	S1 big male-female flanges		S3 – for big tongue and groove flanges		S4 - for small tongue and groove flanges			
	Class 150-1500#		Class 2500#		Class 150-2500#		Class 150-2500#	
	ID	OD	ID	OD	ID	OD	ID	OD
1/4	12.7	25.4	-	-	12.7	25.4	-	-
1/2	25.4	34.9	20.6	34.9	25.4	34.9	25.4	35.1
3/4	33.3	42.9	27.0	42.9	33.3	42.9	33.3	42.9
1	38.1	50.8	31.8	50.8	38.1	50.8	38.1	47.8
1 1/4	47.6	63.5	41.3	63.5	47.6	63.5	47.6	57.2
1 1/2	54.0	73.0	47.6	73	54	73	54	63.5
2	73.0	92.1	60.3	92.1	73	92.1	73	82.6
2 1/2	85.7	104.8	76.2	104.8	85.7	104.8	85.7	95.2
3	108.0	127.0	95.3	127	108	127	108	117.5
3 1/2	120.6	139.7	-	-	120.6	139.7	120.6	130.2
4	131.8	157.2	120.7	157.2	131.8	157.2	131.8	144.5
4 1/2	144.5	171.5	-	-	144.5	171.5	-	-
5	160.3	185.7	146.1	185.7	160.3	185.7	160.3	173
6	190.5	215.9	171.5	215.9	190.5	215.9	190.5	203.2
8	238.1	269.9	222.3	269.9	238.1	269.9	238.1	254
10	285.8	323.9	273.1	323.9	285.8	323.9	285.8	304.8
12	342.9	381.0	330.2	381.0	342.9	381	342.9	362
14	374.6	412.8	-	-	374.6	412.8	374.6	393.7
16	425.4	469.9	-	-	425.4	469.9	425.4	447.5
18	489.0	533.4	-	-	489	533.4	489	511.2
20	533.4	584.2	-	-	533.4	584.2	533.4	558.8
24	641.4	692.2	-	-	641.4	692.2	641.4	666.8

**Dimensiones en milímetros (mm)

It is of utmost importance that S gaskets be installed with compression limiters to prevent premature failures. Note: NPS 1/4" S3 gaskets are for classes 150 to 600 only, S3 gaskets for NPS 4-1/2" are for classes 150 to 1500 only.

Important Notes:

Spiral wound gaskets are delicate materials, especially in larger diameters.
Never carry the gaskets by the inner rings or the spiral.

Recommendations:

- 1-. Never reuse any type of sealing gaskets; this is for your safety.
- 2-. You must only use standard-compliant gaskets and never use non-standard gaskets.
- 3-. Large dimension spiral wound gaskets are prone to unraveling due to the flexibility of the metal at such diameters.
- 4-. Spiral wound gaskets must have perfectly flat rings for proper operation.
- 5-. Ensure that the spiral wound gaskets to be used comply with the thicknesses of the applicable standard or specification.
- 6-. For proper operation, the flange surfaces must be in perfect condition, complying with a concentric surface finish between 3.2-6.3µ. Likewise, the flanges must be perfectly aligned and parallel.

Storage:

- 1-. Store the gaskets in a dry place at room temperature.
- 2-. If the gaskets are exposed to greases, oils, or solvents, clean them before use.
- 3-. Protect the sealing faces to prevent damage.
- 4-. Store the gaskets horizontally to avoid tension in spiral wound gaskets.

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LOW CARBON
FOOTPRINT
GASKET.

Gaskets that do not use
furnaces, paints, or solvents
in the manufacturing
process.



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