

**Description**

The Style LS spiral wound gasket was developed as a high integrity, low seating stress alternative to traditional sheet gaskets used in Class 150 and 300 service, where there may be concern about exceeding allowable design bolt stresses or overstressing the flanges. The LS gasket has the inherent strength, resiliency, and blowout resistance of standard spiral wound gaskets, but requires a bolt stress of only 25,000 psi on standard ASME B16.5 flanges.

The Flexitallic Style LS spiral wound gasket is covered under U.S. Patents 5161807 and 5275423; worldwide patents pending.

**Maximum P/T Limits**

	<i>Material</i>	<i>Max T</i>	<i>Max P</i>
<b>Fillers</b>	PTFE	500°F (260°C)	
	Flexicarb	1000°F (537°C)	
	Others	2000°F (1092°C)	
<b>Metals</b>	Carbon Steel	1000°F (537°C)	The same as pressure limits of corresponding ASME flanges
	304 SS	1000°F (537°C)	
	304L SS	1000°F (537°C)	
	316L SS	1500°F (815°C)	
	321 SS	1600°F (870°C)	
	347 SS	1600°F (870°C)	
	410 SS	1560°F (848°C)	
	Alloy 20	1400°F (760°C)	
	Monel	1500°F (815°C)	
	Titanium	1000°F (537°C)	
	Nickel	1400°F (760°C)	
	Inconel 600	2000°F (1092°C)	
	Inconel 625	2000°F (1092°C)	
	Inconel X-750	2000°F (1092°C)	
	Hastelloy B2	2000°F (1092°C)	
	Hastelloy C276	2000°F (1092°C)	
Incoloy 800	2000°F (1092°C)		
Incoloy 825	2000°F (1092°C)		

**Required Surface Finish** 125 - 250 µin rms

**Size Range**

- ▶ Final gasket thickness must be .125".
- ▶ Available with full range of standard sizes up to 24" for Class 150 & 300 ASME Flanges. For larger sizes and odd shapes consult Flexitallic Technical Department.

**Sealing Element Tolerances**

Gasket Size	Inside Diameter	Outside Diameter	Thickness	Gasket Size	Inside Diameter	Outside Diameter	Thickness
Up to 10"	± 1/64"	± 1/32"	± 0.005"	24" to 60"	± 3/64"	± 1/16"	± 0.005"
10" to 24"	± 1/32"	± 1/16"	± 0.005"	60" & Above	± 1/16"	± 1/16"	± 0.005"

**Design Information**

<b>ASME Constants</b>	m	3.0	
	Y	5,000 psi (34.50 MPa)	
<b>PVRC Constants</b>		<u>SS/Flexicarb</u>	<u>SS/PTFE (LSI)</u>
	G <sub>b</sub>	598 psi (4.1 MPa)	698 psi (4.8 MPa)
	a	0.385	0.249
	G <sub>s</sub>	0.030 psi	1.28 x 10 <sup>3</sup> psi (0.009 MPa)

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