DATA SHEET

Style LS/LSI

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

	Material	Max T	Max P
Fillers	PTFE	500°F (260°C)	The same as pressure limits of corresponding ASME flanges
	Flexicarb	1000°F (537°C)	
	Others	2000°F (1092°C)	
Metals	Carbon Steel	1000°F (537°C)	
	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
Up to 10"	± 1/64"	± 1/32"	± 0.005"
10" to 24"	± 1/32"	± 1/16"	± 0.005"

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

Design Information

ASME Constants	m	3.0	
	Y	5,000 psi (34.50 MPa)	
PVRC Constants		SS/Flexicarb	SS/PTFE (LSI)
	G_b	598 psi (4.1 MPa)	698 psi (4.8 MPa)
	a	0.385	0.249
	G_s	0.030 psi	1.28 x 10 psi (0.009 MPa)

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