

Flexitallic®

3" 15

“LSI”™

*Flexitallic*®  
HIGH PERFORMANCE SEALING

# “LSI” IS IN A CLASS BY ITSELF FOR CLASS 150 & 300 FLANGES



## A WIDE RANGE OF APPLICATIONS

Unlike traditional spiral wound gaskets, the “LSI” (Low-Stress with Inner-ring) gasket is designed to seat at only 25,000 psi bolt stress, which means you can use this revolutionary product for a wide range of lightly loaded applications - including Class 150 service.

The new “LSI” gasket allows designers to strictly adhere to ASME B & PV and ASME B31.1 codes requiring that bolt stresses do not exceed 25,000 psi. The PTFE filler permits secure sealing at extremes of the pH scale and greatly increases sealing performance while decreasing fugitive emissions.

Our patented “LSI” gasket construction eliminates gasket creep, slashes maintenance costs, greatly increases blowout protection and provides high-temperature and chemical resistance unmatched by any sheet gasket.

The “LSI” Spiral wound gasket represents another major advancement in sealing technology, available only from Flexitallic, the leader in “Stress Management”.

## RUNNING RINGS AROUND THE COMPETITION

The new Flexitallic “LSI” spiral wound gasket reflects over 80 years experience in high-performance static sealing technology. This dynamic leadership is backed up by ISO certification, comprehensive engineering support and knowledgeable customer service, in short, Total Quality Management.

No other company knows more about spiral wound gaskets, in fact, Flexitallic invented the spiral wound gasket. Now we’ve taken this technology to a higher level.

### LOWER BOLT STRESS-REDUCED FUGITIVE EMISSIONS

Flexitallic recommended minimum bolt torque figures for use with the “LSI” gasket on ASME/B16.5 flanges.\*

NPS (IN.)	TORQUE FT.LBS.	NPS (IN.)	TORQUE FT.LBS.
1/2	25	5	83
3/4	25	6	83
1	25	8	83
1 1/4	25	10	133
1 1/2	25	12	133
2	50	14	204
2 1/2	50	16	204
3	50	18	295
3 1/2	50	20	296
4	50	24	417

*NOTE: MINIMUM REQUIRED TORQUES MAY BE EVEN LOWER DEPENDING ON GASKET SIZE AND BOLT MATERIALS. PLEASE CONTACT FLEXITALLIC'S TECHNICAL DEPARTMENT FOR MORE INFORMATION.*

TORQUE VALUES FOR 300# AVAILABLE ON REQUEST.

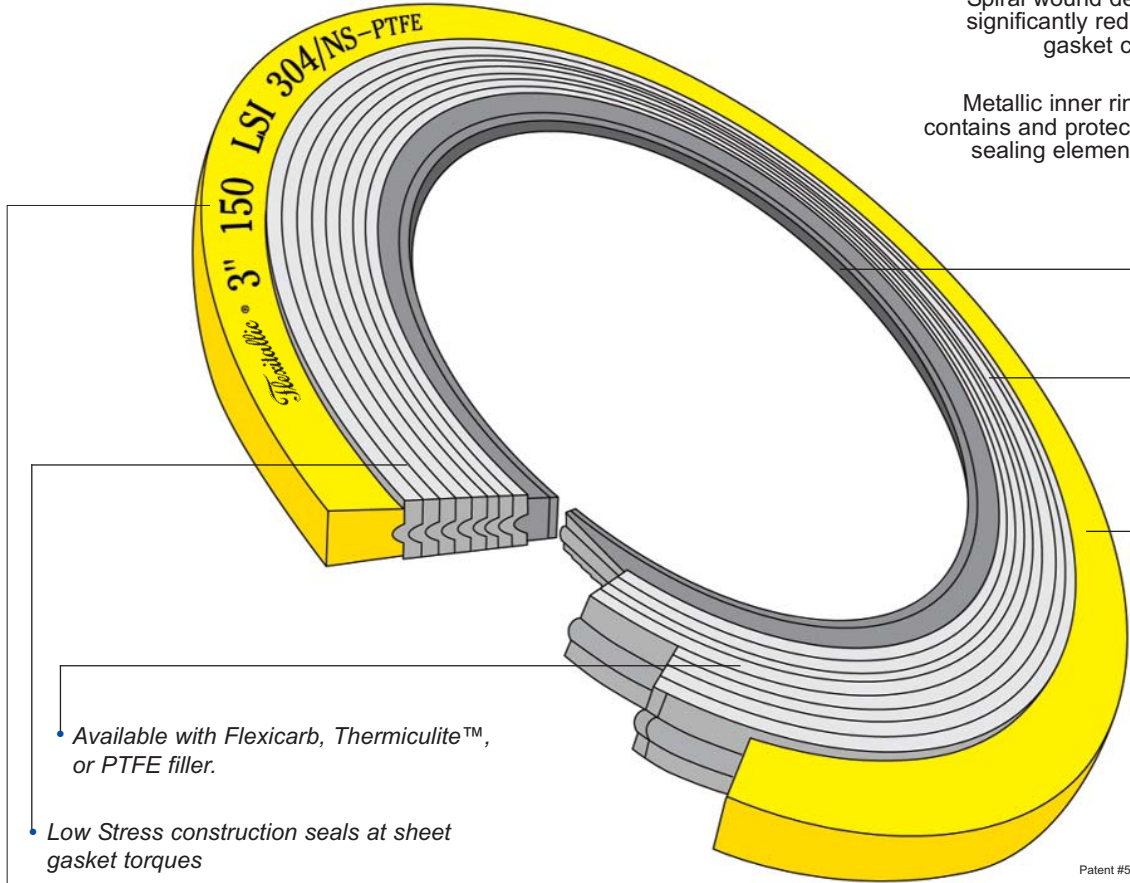
\*Above torque values are for class 150 ASME flanges.

# "LSI" DESIGN FEATURES

Color coded and stamped centering ring for easy product identification

Spiral wound design significantly reduces gasket creep

Metallic inner ring contains and protects sealing elements



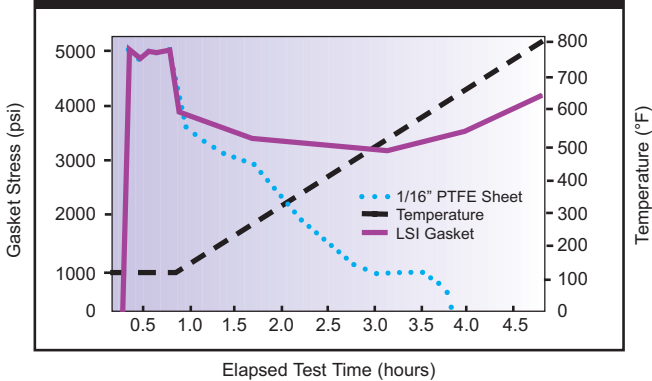
• Available with Flexicarb, Thermiculite™, or PTFE filler.

• Low Stress construction seals at sheet gasket torques

• Metallic centering ring provides blowout resistance and compression stop

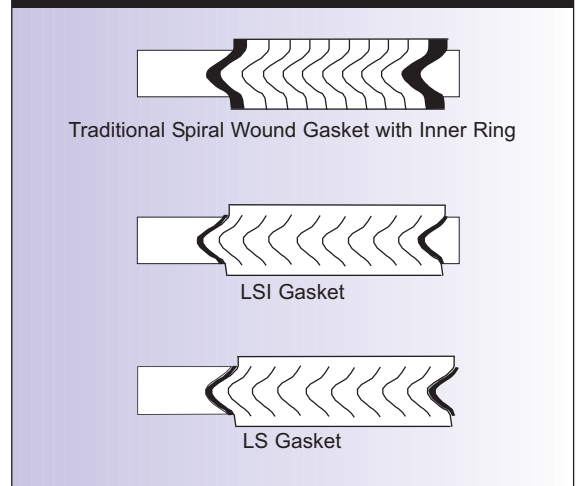
Patent #5161807/5275423

**Flexitallic LSI vs. PTFE Sheet**



The "LSI" gasket retains more of its initial stress or tightness, even when subjected to high temperatures, unlike PTFE sheet gaskets.

**Traditional vs. "LSI" and "LS"**



Extruded filler allows "LSI" to be used with lightly loaded flanges. "LS" style is also available.

**AVAILABLE IN A VARIETY OF METALS, ENGINEERED TO SUIT SPECIFIC APPLICATIONS.**



---

## **THE NEW GENERATION IN SEALING TECHNOLOGY**

### U.S. PLANT

Flexitallic US, LLC  
6915 Highway 225  
Deer Park, TX 77536 USA  
Tel: 281 604 2400

### EUROPEAN PLANT

Flexitallic UK, Ltd.  
Scandinavia Mills  
Hunsworth Lane  
Cleckheaton BD19 4LN, England  
Tel: 44 1274 851273

### CHINA PLANT

Flexitallic Sealing Technology (Suzhou) Co., Ltd.  
Building 3 South  
Wujiang Export Processing Zone  
688 Pangjin Road  
Wujiang, Jiangsu, P.R. China 215200  
Tel: 86 512 6303 2839

[www.flexitallic.com](http://www.flexitallic.com)

OTHER AFFILIATED COMPANIES IN AUSTRALIA, CANADA, CZECH REPUBLIC,  
GERMANY, HOLLAND, INDIA, MALAYSIA, MEXICO, NEW ZEALAND, NORWAY,  
SAUDI ARABIA, SCOTLAND, SINGAPORE, THAILAND, AND VENEZUELA