



Spiral Wound Gasket - 913, 913M, 913-RJ, Teadit Metalflex Styles

DESCRIPTION

Teadit Metalflex® 913 Spiral-wound gaskets are made of a preformed metallic strip and a soft filler material (PTFE or graphite), wound together under pressure, and optionally with an inner and/or outer guide ring. The metal strip holds the filler, resulting in excellent mechanical resistance, resilience and recovery.

CONSTRUCTION

Style 913 is constructed with a metallic guide ring, metallic winding and a filler element. The winding is manufactured from metal in a complicated form of a spiral, in assembly with a filler material. The metallic Winding, of special profile, provides excellent resistance, compensating the changes in operational conditions such as: variations of pressure and temperature, vibrations, thermal shocks, etc. The filler materials fill the irregularities of the flanges. Its external guide ring has the function of centering the gasket in the flanges and gives the sealing elements additional resistance to the flow pressure, avoiding also excessive bolt torque.

APPLICATION / SERVICE

For applications with high temperature variations (thermal cycling), and/or pressure variations, and/or flange rotation problems etc., gaskets with adequate residual stress (stress retention), flexibility and recovery are needed. TEADIT spiral-wound gaskets have been designed to meet these demanding requirements.

Teadit Metalflex® 913 for flanges ASME B16.5 follows rigorously the specifications from ASME B16.20.

MATERIAL PROPERTIES

Filler Material	Max. Temperature
Mica Graphite	232°C (450 °F)
Flexible Graphite	450°C (842 °F)
PTFE	260°C (500 °F)

Pressures available from 150 to 2500 class as specified.

Teadit Metalflex® 913-M

DESCRIPTION Teadit Metalflex® 913M is a 913 with an internal solid ring that fills the space between the flanges. Gaskets with PTFE and flexible graphite filler have a tendency to inward buckle thus the use of an inner ring is recommended. ASME B16.20 requires the use of the inner ring with PTFE fillers and some sizes with other fillers. It is recommended for flexible graphite filled. Inner rings also avoid turbulence in the flow of the fluid or help provide protection against corrosion or erosion.

CONSTRUCTION, APPLICATION/SERVICE, MATERIAL PROPERTIES

See **Teadit Metalflex® 913**

The Spiral Wound **Teadit Metalflex® 913-M** for flanges ASME B16.5 follows rigorously the specifications from ASME B16.20. For some special applications, PTFE inner rings or composite grooved metal/expanded PTFE type can be offered.

Teadit Metalflex® 913-RJ/913M-RJ

The 913-RJ is a specially sized spiral wound, designed to be a replacement item in ring joint flanges for maintenance purposes, when ring joint gaskets may no longer be practical. They are not for original designs. The outer ring bridges the ring groove, placing the winding (and inner ring if style 913M-RJ) between the groove ID and the flange bore. Teadit provides "typical" dimensions for these items. However the user must assure that the winding (and inner ring if applicable) does not protrude into the flange bore, which may vary. Proper movement is needed in the piping to compress the spiral wound. Please contact Teadit's Technical Department for assistance.

Properties and application parameters shown throughout this datasheet are typical. Your specific application should not be undertaken without independent study and evaluation for suitability. For specific application recommendations consult TEADIT. Failure to select proper sealing products could result in property damage and/or serious personal injury. Specifications are subject to change without notice. This edition supersedes all previous issues.

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