



Jacketed Gaskets

DESCRIPTION

A Jacketed Gasket is comprised of a soft pliable core inside a metallic jacket.

METALLIC JACKET

Almost any metal or alloy found in sheet form can be used as a jacket; its choice must take into consideration the fluid to be sealed. The metallic jacket is 0.016 in (0.4 mm) to 0.020 in (0.5 mm) thick.

FILLER

The standard filler material is Flexible Graphite. Other fillers like ceramic, PTFE or another metal (corrugated, flat, or serrated) can be used.

STYLES AND APPLICATIONS

STYLE 920 The style 920 is a round single jacket gasket. Used in applications where the seating stress and width are limited. It can be manufactured in circular or oval shape. The maximum gasket width is 1/4 (6.4 mm) and the standard thickness is 3/32 in (2.4 mm).

STYLE 923 The style 923 is a flat double jacket gasket. Its most typical applications are in Heat Exchangers. ASME B 16.20 shows the gasket dimensions for ANSI B 16.5 flanges. The standard thickness is 1/8 in (3.2 mm). This style is also used in large size reactors in chemical plants. Another important use is for flanges in the large, low pressure ducting in Steel Mill Blast Furnaces. To compensate for distortions and irregularities of these flanges gaskets have the thickness from 5/32 in (4 mm) to 1/4 in (6 mm).

STYLE 926 Similar to style 923 but the metallic jacket is corrugated. The corrugations act as a labyrinth.

STYLE 929 Similar to style 926 with a grooved metallic filler. Used in applications where it is necessary to have a gasket without non-metallic materials, temperature limits and chemical resistance depend upon of the metal only.

DESIGN

The following recommendations are based on successful practical applications: Gaskets

confined by the inside and outside diameters: Gasket inside diameter = groove inside diameter plus 1/16 in (1.6 mm).

- Gasket outside diameter = groove outside diameter less 1/16 in (1.6 mm).

Gaskets confined by outside diameter:

- Gasket inside diameter = flange inside diameter plus a minimum of 1/8 in (3.2 mm).
- Gasket outside diameter = groove outside diameter less 1/16 in (1.6 mm).

Non confined gaskets:

- Gasket inside diameter = flange inside diameter plus 1/8 in (3.2 mm).
- Gasket outside diameter = bolt circle diameter less bolt diameter.

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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1465 E. Sam Houston Pkwy South Suite 140 Pasadena TX 77503
TOLL FREE: 800-999-0198 PHONE: 281-476-3900 FAX: 281-476-3999
sales@teadit.com