

Reli-A-Pak® Bolt, Nut, & Gasket Sets by Reliable Fasteners, Inc.

SEMI-METALLIC

Style CGI

PRODUCT PROFILE

USAGE: FLAT AND RAISED FACED DIAMETER FLANGES UP TO AND INCLUSIVE OF CLASS 2500.

Materials and Maximum T Limits

Spiral Wound Filler Guide	Filler Type					
	Thermiculite 735	Thermiculite 835	Flexicarb	PTFE	Flexite Super	Ceramic
Maximum Temperature	1000°F 538°C	1800°F 982°C	900°F 482°C	500°F 260°C	480°F 249°C	2300°F 1260°C
Minimum Temperature	-450°F -240°C	-460°F -240°C	-450°F -240°C	-360°F -184°C	-150°F -101°C	-150°F -101°C

Technical Benefits

- Metallic winding suited for cyclic loading
- Outer ring center gasket
- Inner/outer ring provides additional blow-out strength
- Inner/outer ring provides a compression stop
- Prevents flange erosion
- Prevents inward buckling
- Reduces turbulent flow
- Recommended for high pressure/temperature applications

Design Parameters

Gasket Thickness	Maximum Inside Dimension	Recommended Flange Width	Recommended Compressed Thickness
0.125"	up to 20"	1"	0.090" / 0.100"
0.125"	20" to 40"	3/4"	0.090" / 0.100"
0.175"	up to 40"	1"	0.125" / 0.135"
0.175"	40" - 60"	1"	0.125" / 0.135"

Gasket Thickness	Maximum Inside Dimension	Recommended Flange Width	Recommended Compressed Thickness
0.175"	60" to 70"	7/8"	0.125" / 0.135"
0.175"	70" to 75"	3/4"	0.125" / 0.135"
0.250"	90"	1"	0.180" / 0.200"
0.285"	185"	1"	0.200" / 0.220"

Required Surface Finish • 125 - 250 ms

Tolerance Capabilities

Gasket Diameter	Inside Diameter	Outside Diameter
Up to 10"	± 1/64"	± 1/32"
10" to 24"	± 1/32"	± 1/16"
24" to 60"	± 3/64"	± 1/16"

Applicable Standards

- ASME B16.20
- BS3381
- Suited for ASME B16.5 and B16.47 series flanges

Design Factors

ASME (All)	
m	3
y	10,000 psi

PVRC	Flexicarb / SS	Flexite / SS
Gb (psi)	2300	2800
a	0.237	0.230
Gc (psi)	13	15

Flexitallic

Member of The Flexitallic Group

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