

SPECIFICATIONS

FIGURE NBG (R & Z)

NUT, BOLT AND GASKET KIT



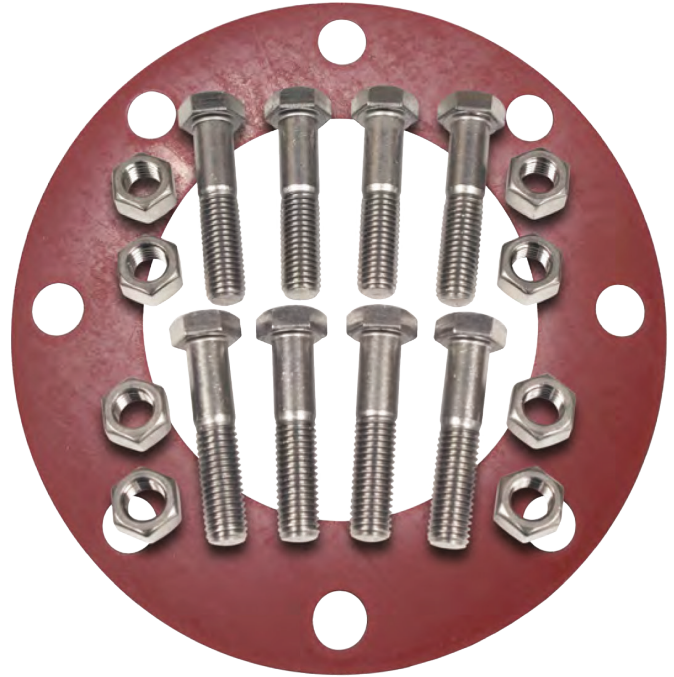
RED RUBBER & ZINC PLATED CARBON STEEL

Red rubber gaskets are manufactured from styrene-butadiene rubber (SBR). This synthetic material was developed as an alternative to natural rubbers. The red rubber gaskets are recommended for service in cold and hot water, air, and some weak acids. They offer little resistance to ozone and to the majority of hydrocarbons. They should not be used with strong acids, oils, grease and chlorates.

Chlorate refers only to chlorine in the +5 oxidation state, or chlorate ion. The chlorate ion is a byproduct of the disinfection process used to treat drinking water. It is formed when sodium hypochlorite or chlorine dioxide are used in the treatment process. SBR is not recommended for environments with elevated levels of chlorates or chlorines. Chlorine chemically attacks SBR very aggressively, which can create a potential leak path.

FEATURES

- For ANSI 150# Pressure Class Flanges
- Full face & ring style
- 1/16" & 1/8" Thickness
- Lengths for joining two flanges*
- Red rubber (styrene-butadiene or SBR) gasket
- Carbon steel hardware
- Hardware Finish: Zinc plated
- Sizes: 1/2" to 18" **



PRODUCT SPECIFICATIONS

Standards

Gaskets:

- Meets ASME B16.21 for 150# Gaskets
- Dimensions: ASME B16.5

Bolts:

- Material: ASTM A307A Grade A
- Dimensions: ASME B18.2.1
- Thread: Class 2A

Nuts:

- Material: SAE J995 Grade 2
- Dimensions: ASME B18.2.2
- Thread: Class 2B

Properties

Gaskets:

- Max Temperature: 170°F (77°C)
- Min. Temperature: -20°F (-29°C)
- Max Working Pressure: 200 psig (13.8 Bar)
- Max Pressure x Temperature (PxT): 20,000 (°F x psig)
- Durometer Hardness: 75 Shore A±5



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Properties

Gaskets:

- Tensile: 400 psi
- Elongation: 150%
- Compression Set (22 Hrs @ 158°F): 35%
- Heat Aging (94 Hrs @ 158°F)
- Change in Hardness: +5 Shore A
- Change in Tensile: -15%
- Change in Elongation: -35%
- Finish: Smooth

Cap Screws:

- Tensile: 60 KSI Minimum
- Elongation: 18% Minimum
- Hardness: 69 - 100 Rb

* Based on 1/16" raised face and 1/8" gasket

** Not all configurations are available in all sizes. Please see the part number list on the back page.

*** Gasket properties and application parameters shown on this data sheet are typical. Failure to select proper sealing products could result in property damage and/or serious personal injury.

REFERENCE CHART

Size	150# Flanges				Nut/ Screw Qty	Diameter (in.)	Bolt Length (in.)
	Full Face		Ring				
	1/16" Thick	1/8" Thick	1/16" Thick	1/8" Thick			
1/2	FNWNBGZ1RF6D	FNWNBGZ1RF8D	FNWNBGZ1RR6D	FNWNBGZ1RR8D	4	1/2-13	2
3/4	FNWNBGZ1RF6F	FNWNBGZ1RF8F	FNWNBGZ1RR6F	FNWNBGZ1RR8F	4	1/2-13	2
1	FNWNBGZ1RF6G	FNWNBGZ1RF8G	FNWNBGZ1RR6G	FNWNBGZ1RR8G	4	1/2-13	2-1/4
1-1/4	FNWNBGZ1RF6H	FNWNBGZ1RF8H	FNWNBGZ1RR6H	FNWNBGZ1RR8H	4	1/2-13	2-1/4
1-1/2	FNWNBGZ1RF6J	FNWNBGZ1RF8J	FNWNBGZ1RR6J	FNWNBGZ1RR8J	4	1/2-13	2-1/2
2	FNWNBGZ1RF6K	FNWNBGZ1RF8K	FNWNBGZ1RR6K	FNWNBGZ1RR8K	4	5/8-11	2-3/4
2-1/2	FNWNBGZ1RF6L	FNWNBGZ1RF8L	FNWNBGZ1RR6L	FNWNBGZ1RR8L	4	5/8-11	3
3	FNWNBGZ1RF6M	FNWNBGZ1RF8M	FNWNBGZ1RR6M	FNWNBGZ1RR8M	4	5/8-11	3
4	FNWNBGZ1RF6P	FNWNBGZ1RF8P	FNWNBGZ1RR6P	FNWNBGZ1RR8P	8	5/8-11	3
5	FNWNBGZ1RF6S	FNWNBGZ1RF8S	FNWNBGZ1RR6S	FNWNBGZ1RR8S	8	3/4-10	3-1/4
6	FNWNBGZ1RF6U	FNWNBGZ1RF8U	FNWNBGZ1RR6U	FNWNBGZ1RR8U	8	3/4-10	3-1/4
8	FNWNBGZ1RF6X	FNWNBGZ1RF8X	FNWNBGZ1RR6X	FNWNBGZ1RR8X	8	3/4-10	3-1/2
10	FNWNBGZ1RF610	FNWNBGZ1RF810	FNWNBGZ1RR610	FNWNBGZ1RR810	12	7/8-9	4
12	FNWNBGZ1RF612	FNWNBGZ1RF812	FNWNBGZ1RR612	FNWNBGZ1RR812	2	7/8-9	4
14		FNWNBGZ1RF814		FNWNBGZ1RR814	2	1-8	4-1/2
16	FNWNBGZ1RF616	FNWNBGZ1RF816		FNWNBGZ1RR816	16	1-8	4-1/2
18				FNWNBGZ1RR818	16	1-1/8-7	5