

## SPECIFICATIONS

# FIGURE NBG (R & S)

## NUT, BOLT AND GASKET KIT



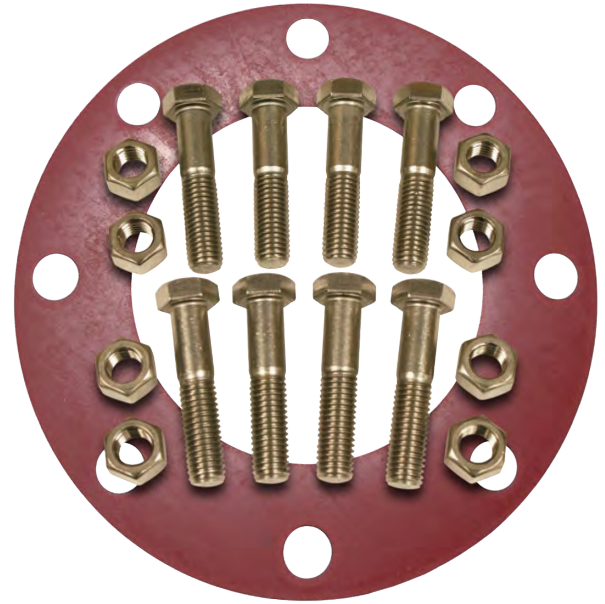
## RED RUBBER & STAINLESS STEEL

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# Flanges
- Lengths for joining two flanges\*
- Red rubber (styrene-butadiene or SBR) gasket
- 304 & 316 Stainless steel hardware
- Hardware Finish: Material finish
- Sizes: 3" to 16"



## PRODUCT SPECIFICATIONS

### Standards

#### Gaskets:

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

#### Cap Screws

- Material: ASTM F593 Grp 1 (304) or 2 (316)
- Heat Treatment: Condition CW
- Dimensions: ASME B18.2.1
- Thread: Class 2A

#### Nuts

- Material: ASTM F594 Grp 1 (304) or 2 (316)
- Dimensions: ASME B18.2.2
- Thread: Class 2B

### Properties

#### Gaskets:

- Max Temperature: 170°F (77°C)
- Min. Temperature: -20°F (-29°C)
- Max Pressure: 150 psig (13.8 Bar)
- Max Pressure x Temperature (PxT): 20,000 (°F x psig)
- Durometer Hardness: 75 Shore A±5
- Tensile: 400 psi

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#### Properties

##### Gaskets:

- 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: 100 to 150 KSI (5/8"), 85 to 140 KSI (3/4" to 1")
- Hardness: B95 to C32 (5/8"), B80 to C32 (3/4" to 1")
- Yield: 65 KSI (5/8"), 45 KSI (3/4" to 1")

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

\*\* 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	Part Number		Nut/Screw Qty	Diameter (in.)	Bolt Length (in.)
	304 Stainless	316 Stainless			
3	FNWNBGS41RF8M	FNWNBGS61RF8M	4	5/8-11	3
4	FNWNBGS41RF8P	FNWNBGS61RF8P	8	5/8-11	3
6	FNWNBGS41RF8U	FNWNBGS61RF8U	8	3/4-10	3-1/4
8	FNWNBGS41RF8X	FNWNBGS61RF8X	8	3/4-10	3-1/2
10	FNWNBGS41RF810	FNWNBGS61RF810	12	7/8-9	4
12	FNWNBGS41RF812	FNWNBGS61RF812	12	7/8-9	4
14	FNWNBGS41RF814	FNWNBGS61RF814	12	1-8	4-1/2
16	FNWNBGS41RF816	FNWNBGS61RF816	16	1-8	4-1/2