

## SPECIFICATIONS

# FIGURE NBG (NA & Z)

## PIPING PRODUCTS



### NUT, BOLT, GASKET KIT, NON-ASBESTOS, & ZINC-PLATED CARBON STEEL

#### FEATURES

- For ANSI 150# and 300# flanges
- Full face and ring style
- 1/16" & 1/8" thickness
- Lengths for joining two flanges\*
- Non-asbestos gasket (aramid and other synthetic fibers bonded with nitrile rubber)
- Carbon steel hardware
- Hardware finish: Zinc plated
- Sizes: 1/2" to 14" \*\*

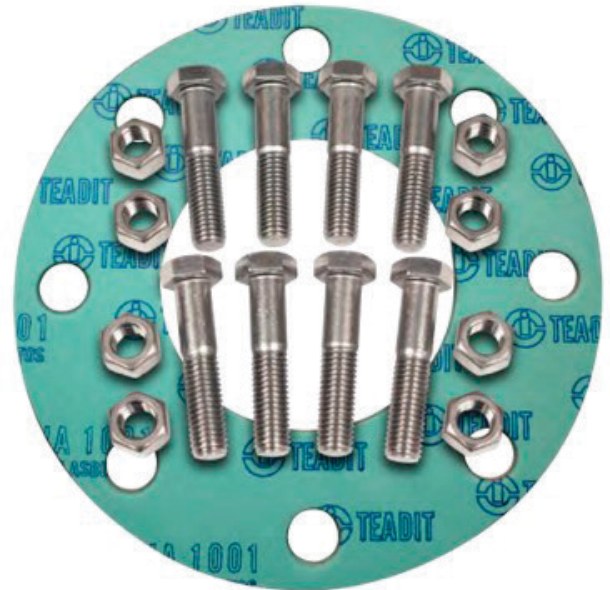
#### PRODUCT SPECIFICATIONS

##### Standards

- Gaskets
  - Meets ASME B16.21 for 150# and 300# 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: 750°F (400°C)
  - Max. continuous temperature: 460°F (240°C)
  - Max. pressure: 1595 PSI (110 bar)
  - Max. continuous pressure: 725 (50 Bar)
  - Max. pressure for saturated steam: 75 PSI
  - ASTM F104 line callout: F712120E22M5
  - Density: 109 lb/ft<sup>3</sup> (1.75 gm/cc)
  - Compressibility: 7-17%
  - Recovery: min 45%
  - Tensile strength across grain: 1670 psi (11.5 N/mm<sup>2</sup>)
  - Ignition loss: Max 34%
  - Creep relaxation: 25%
  - Sealability at 1000 PSI: 0.25 ml/h
  - Finish: Smooth
- Bolts
  - 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.

SPECIFICATIONS

**FIGURE NBG (NA & Z)**  
PIPING PRODUCTS



NUT, BOLT, GASKET KIT, NON-ASBESTOS, & ZINC-PLATED CARBON STEEL

Size (in.)	150# Flanges				Nut/Bolt Qty	Bolt Diameter	Bolt Length
	Full Face		Ring				
	1/16" Thick	1/8" Thick	1/16" Thick	1/8" Thick			
1/2	FNWNBGZ1NAF6D	FNWNBGZ1NAF8D	FNWNBGZ1NAR6D	FNWNBGZ1NAR8D	4	1/2-13	2
3/4	FNWNBGZ1NAF6F	FNWNBGZ1NAF8F	FNWNBGZ1NAR6F	FNWNBGZ1NAR8F	4	1/2-13	2
1	FNWNBGZ1NAF6G	FNWNBGZ1NAF8G	FNWNBGZ1NAR6G	FNWNBGZ1NAR8G	4	1/2-13	2-1/4
1-1/4	FNWNBGZ1NAF6H	FNWNBGZ1NAF8H	FNWNBGZ1NAR6H	FNWNBGZ1NAR8H	4	1/2-13	2-1/4
1-1/2	FNWNBGZ1NAF6J	FNWNBGZ1NAF8J	FNWNBGZ1NAR6J	FNWNBGZ1NAR8J	4	1/2-13	2-1/2
2	FNWNBGZ1NAF6K	FNWNBGZ1NAF8K	FNWNBGZ1NAR6K	FNWNBGZ1NAR8K	4	5/8-11	2-3/4
2-1/2	FNWNBGZ1NAF6L	FNWNBGZ1NAF8L	FNWNBGZ1NAR6L	FNWNBGZ1NAR8L	4	5/8-11	3
3	FNWNBGZ1NAF6M	FNWNBGZ1NAF8M	FNWNBGZ1NAR6M	FNWNBGZ1NAR8M	4	5/8-11	3
4	FNWNBGZ1NAF6P	FNWNBGZ1NAF8P	FNWNBGZ1NAR6P	FNWNBGZ1NAR8P	8	5/8-11	3
5	FNWNBGZ1NAF6S	FNWNBGZ1NAF8S	FNWNBGZ1NAR6S	FNWNBGZ1NAR8S	8	3/4-10	3-1/4
6	FNWNBGZ1NAF6U	FNWNBGZ1NAF8U	FNWNBGZ1NAR6U	FNWNBGZ1NAR8U	8	3/4-10	3-1/4
8	FNWNBGZ1NAF6X	FNWNBGZ1NAF8X	FNWNBGZ1NAR6X	FNWNBGZ1NAR8X	8	3/4-10	3-1/2
10	FNWNBGZ1NAF610	FNWNBGZ1NAF810	FNWNBGZ1NAR610	FNWNBGZ1NAR810	12	7/8-9	4
12	FNWNBGZ1NAF612	FNWNBGZ1NAF812	FNWNBGZ1NAR612	FNWNBGZ1NAR812	12	7/8-9	4
14	-	-	FNWNBGZ1NAR614	-	12	1-8	4-1/2

Size (in.)	300# Flanges				Nut/Bolt Qty	Bolt Diameter	Bolt Length
	Full Face		Ring				
	1/16" Thick	1/8" Thick	1/16" Thick	1/8" Thick			
1/2	FNWNBGZ3NAF6D	FNWNBGZ3NAF8D	FNWNBGZ3NAR6D	FNWNBGZ3NAR8D	4	1/2-13	2-1/4
3/4	FNWNBGZ3NAF6F	FNWNBGZ3NAF8F	FNWNBGZ3NAR6F	FNWNBGZ3NAR8F	4	5/8-11	2-1/2
1	FNWNBGZ3NAF6G	FNWNBGZ3NAF8G	FNWNBGZ3NAR6G	FNWNBGZ3NAR8G	4	5/8-11	2-1/2
1-1/4	FNWNBGZ3NAF6H	FNWNBGZ3NAF8H	FNWNBGZ3NAR6H	FNWNBGZ3NAR8H	4	5/8-11	2-3/4
1-1/2	FNWNBGZ3NAF6J	FNWNBGZ3NAF8J	FNWNBGZ3NAR6J	FNWNBGZ3NAR8J	4	3/4-10	3
2	FNWNBGZ3NAF6K	FNWNBGZ3NAF8K	FNWNBGZ3NAR6K	FNWNBGZ3NAR8K	8	5/8-11	3
2-1/2	FNWNBGZ3NAF6L	FNWNBGZ3NAF8L	FNWNBGZ3NAR6L	FNWNBGZ3NAR8L	8	3/4-10	3-1/4
3	FNWNBGZ3NAF6M	FNWNBGZ3NAF8M	FNWNBGZ3NAR6M	FNWNBGZ3NAR8M	8	3/4-10	3-1/2
4	FNWNBGZ3NAF6P	FNWNBGZ3NAF8P	FNWNBGZ3NAR6P	FNWNBGZ3NAR8P	8	3/4-10	3-3/4
5	FNWNBGZ3NAF6S	FNWNBGZ3NAF8S	FNWNBGZ3NAR6S	FNWNBGZ3NAR8S	8	3/4-10	4-1/4
6	FNWNBGZ3NAF6U	FNWNBGZ3NAF8U	FNWNBGZ3NAR6U	FNWNBGZ3NAR8U	12	3/4-10	4-1/4
8	FNWNBGZ3NAF6X	FNWNBGZ3NAF8X	FNWNBGZ3NAR6X	FNWNBGZ3NAR8X	12	7/8-9	4-3/4
10	FNWNBGZ3NAF610	FNWNBGZ3NAF810	FNWNBGZ3NAR610	FNWNBGZ3NAR810	16	1-8	5-1/2
12	FNWNBGZ3NAF612	FNWNBGZ3NAF812	FNWNBGZ3NAR612	FNWNBGZ3NAR812	16	1-1/8-7	5-3/4