

# CARBON STEEL FLANGE NUT & BOLT SET ASTM A307 GRADE A / SAE J995 GRADE 2

## Features

- For 150# & 300# ANSI Flanges
- Lengths for Joining Two Flanges\*
- Material: Carbon Steel
- Finish: Zinc Plated
- Sizes: 1/2" to 24" (150#), 1/2" to 12" (300#)

## Standards

- 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



## Bolt Properties

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

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

### 150# Pack Quantities & Bolt Sizes (inches)

Size	Bolt Qty	Nut Qty	Diameter	Bolt Length
1/2	4	4	1/2-13	2
3/4	4	4	1/2-13	2
1	4	4	1/2-13	2-1/4
1-1/4	4	4	1/2-13	2-1/4
1-1/2	4	4	1/2-13	2-1/2
2	4	4	5/8-11	2-3/4
2-1/2	4	4	5/8-11	3
3	4	4	5/8-11	3
4	8	8	5/8-11	3
5	8	8	3/4-10	3-1/4
6	8	8	3/4-10	3-1/4
8	8	8	3/4-10	3-1/2
10	12	12	7/8-9	4
12	12	12	7/8-9	4
14	12	12	1-8	4-1/2
16	16	16	1-8	4-1/2
18	16	16	1-1/8-7	5
20	20	20	1-1/8-7	5-1/2
24	20	20	1-1/4-7	6

### Figure Number Matrix

FNW NBSZ 1 Size			
FINISH	FLANGE	SIZE CODE	
Zinc = Z	150# = 1	1/2 = D	6 = U
		3/4 = F	8 = X
	300# = 3	1 = G	10 = 10
		1-1/4 = H	12 = 12
		1-1/2 = J	14 = 14
		2 = K	16 = 16
		2-1/2 = L	18 = 18
		3 = M	20 = 20
		4 = P	24 = 24
		5 = S	

Note: 300# sizes are up to 12" only.

### 300# Pack Quantities & Bolt Sizes (inches)

Size	Bolt Qty	Nut Qty	Diameter	Bolt Length
1/2	4	4	1/2-13	2-1/4
3/4	4	4	5/8-11	2-1/2
1	4	4	5/8-11	2-1/2
1-1/4	4	4	5/8-11	2-3/4
1-1/2	4	4	3/4-10	3
2	8	8	5/8-11	3
2-1/2	8	8	3/4-10	3-1/4
3	8	8	3/4-10	3-1/2
4	8	8	3/4-10	3-3/4
5	8	8	3/4-10	4-1/4
6	12	12	3/4-10	4-1/4
8	12	12	7/8-9	4-3/4
10	16	16	1-8	5-1/2
12	16	16	1-1/8-7	5-3/4

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