## Figure WBB PIPING PRODUCTS



# WAFER BUTTERFLY VALVE NUT & BOLT PACKS

### Features

- For 150# Flanges
- Lengths for Two Flanges & One Wafer Butterfly Valve (per API 609 dimensions)
- Material: Carbon Steel
- Finish: Zinc Plated
- Sizes: 2" to 12"

#### **Standards**

- Bolts:
  - o Material ASTM A307A Grade A
  - Dimensions ASME B18.2.1
  - $\circ~$  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



#### Figure Number Matrix

FNW WBB Z 1 Size					
<u>FINISH</u> Zinc = Z	<u>FLANGE</u> 150# = 1	$\begin{array}{cccc} 1 & 2 = K & 6 = U \\ 2 - 1/2 = L & 8 = X \end{array}$			
		3 = M 4 = P 5 = S	10 = 10 12 = 12		

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

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

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