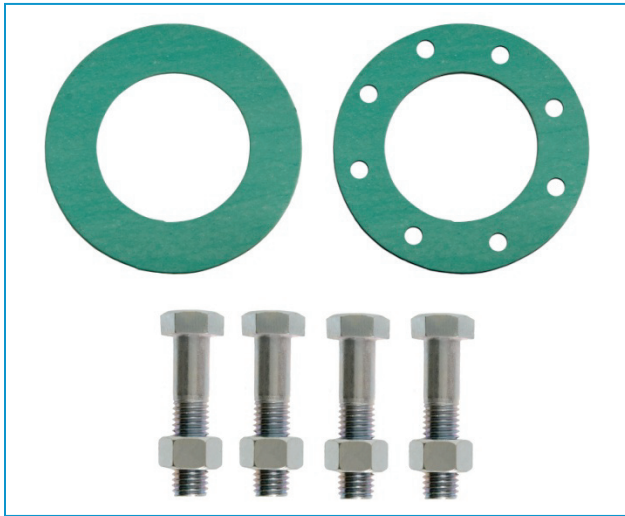


# Bolt & Gasket Sets • Spec Sheet

## Non-Asbestos



## Red Rubber



### Gasket: APG style CNA-750

- Constructed of aramid and other synthetic fibers and bonded with nitrile rubber (NBR).
- Max temperature rating: 750 degrees F
- (Continuous temp max: 460 degrees F)
- Max pressure limit: 1595 PSI
- (Continuous pressure max: 725 PSI)
- Suitable for: Water, air, and a variety of industrial gases and fluids; suitable for steam depending on operating conditions
- Meets ASTM F152
- Comparable products: Klinger C-4401, Garlock 3000

### Bolts: ASTM A307 Grade A zinc plated carbon steel

- Minimum tensile strength: 60,000 PSI

### Nuts: ASTM A563 zinc plated carbon steel finished hex nut

- (There is another class of nut designated as “heavy hex” which is also used in industry. Our kits contain “finished hex” which is consistent with many other bolt & gasket set producers.)

### Packaging:

- Box: Folding tab white mottled boxes
- Bolts are packaged in sealed poly bags
- Nuts are packaged in sealed poly bags

### Gasket: APG style 0700

- Constructed of SBR (Styrene Butadiene Rubber)
- “Smooth” red rubber finish as opposed to rough “cloth” finish
- Max temperature rating: -20 to 170 degrees F, 210 degrees F intermittent
- Tensile Strength: 500 PSI
- Suitable for: hot & cold water, air, and neutral fluids
- Meets ASTM D-1330

### Bolts: ASTM A307 Grade A zinc plated carbon steel

- Minimum tensile strength: 60,000 PSI

### Nuts: ASTM A563 zinc plated carbon steel finished hex nut

- (There is another class of nut designated as “heavy hex” which is also used in industry. Our kits contain “finished hex” which is consistent with many other bolt & gasket set producers.)

### Packaging:

- Box: Folding tab white mottled boxes
- Bolts are packaged in sealed poly bags
- Nuts are packaged in sealed poly bags

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# Flange Compatibility Chart • Spec Sheet

**A.S.A Flanged Fittings**  
**Class 125 Cast Iron Flanges and Fittings**  
**Dimensions of Cast Iron Flanges, Bolts, and Ring Gaskets**

Nominal Pipe Size	Diam. of Flange	Thickness <sup>1</sup> of Flanges (Min.)	Diam. of Bolt Circle	Number <sup>2</sup> of Bolts	Diam. of Bolts	Diam. <sup>2</sup> of Bolt Holes	Length <sup>3,4</sup> of Bolts	Size of Flat Ring Gasket	Size of Full Face Ring Gasket
1/2				4	1/2				27/32 x 3-1/2
3/4				4	1/2				1-1/6 x 3-7/8
1	4 1/4	7/16	3 1/8	4	1/2	5/8	1 3/4	1 x 2-5/8	1-5/16 x 4-1/4
1 1/4	4 5/8	1/2	3 1/2	4	1/2	5/8	2	1-1/4 x 3	
1 1/2	5	9/16	3 7/8	4	1/2	5/8	2	1-1/2 x 3-3/8	1-29/32 x 5
2	6	5/8	4 3/4	4	5/8	3/4	2 1/4	2 x 4-1/8	2-3/8 x 6
2 1/2	7	11/16	5 1/2	4	5/8	3/4	3	2-1/2 x 4-7/8	2-7/8 x 7
3	7 1/2	3/4	6	4	5/8	3/4	3	3 x 5-3/8	3-1/2 x 7-1/2
3 1/2	8 1/2	13/16	7	8	5/8	3/4	3	3-1/2 x 6-3/8	
4	9	15/16	7 1/2	8	5/8	3/4	3	4 x 6-7/8	4-1/2 x 9
5	10	15/16	8 1/2	8	3/4	7/8	3	5 x 7-3/4	5-9/16 x 10
6	11	1	9 1/2	8	3/4	7/8	3 1/2	6 x 8-3/4	6-5/8 x 11
8	13 1/2	1 1/3	11 3/4	8	3/4	7/8	3 1/2	8 x 11	5-5/8 x 13-1/2
10	16	1 3/16	14 1/4	12	7/8	1	4	10 x 13-3/8	10-3/4 x 16
12	19	1 1/4	17	12	7/8	1	4	12 x 16-1/8	12-3/4 x 19
14 OD	21	1 3/8	18 3/4	12	1	1 1/8	4 1/2	14 x 17-3/4	14 x 21
16 OD	23 1/2	1 7/16	21 1/4	16	1	1 1/8	4 1/2	16 x 20-1/4	16 x 23-1/2
18 OD	25	1 9/16	22 3/4	16	1 1/8	1 1/4	5	18 x 21-5/8	18 x 25
20 OD	27 1/2	1 11/16	25	20	1 1/8	1 1/4	5	20 x 23-7/8	20 x 27-1/2
24 OD	32	1 7/8	29 1/2	20	1 1/4	1 3/8	5 1/2	24 x 28-1/4	24 x 32

All dimensions given in inches.



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# Flange Compatibility Chart • Spec Sheet

**A.S.A Flanged Fittings**  
**Class 300 Cast Iron Flanges**  
**Dimensions of Cast Iron Flanges, and Bolts**

Nominal Pipe Size	Diam. of Flange	Thickness of Flanges (Min.)	Diam. of Bolt Circle	Number of Bolts	Diam. of Bolts	Diam. of Bolt Holes	Length of Bolts
1/2	3 3/4	-	2.62	4	0.50	0.62	-
3/4	4 5/8	-	3.25	4	0.62	0.75	-
1	4 7/8	-	3.50	4	0.62	0.75	-
1 1/4	-	-	3.88	4	0.62	0.75	-
1 1/2	6 1/8	-	4.50	4	0.75	0.88	-
2	6 1/2	5/8	5.00	8	0.62	0.75	3
2 1/2	7 1/2	3/4	5.88	8	0.75	0.88	3 1/4
3	8 1/4	3/4	6.62	8	0.75	0.88	3 1/2
3 1/2	-	-	7.25	8	0.75	0.88	-
4	10	3/4	7.88	8	0.75	0.88	3 3/4
5	11	3/4	9.25	8	0.75	0.88	4
6	12 1/2	3/4	10.62	12	0.75	0.88	4 1/4
8	15	7/8	13.00	12	0.88	1.00	4 3/4
10	17 1/2	-	15.25	16	1.00	1.12	-
12	20 1/2	-	17.75	16	1.12	1.25	-
14	23	-	20.25	20	1.12	1.25	-
16	25 1/2	-	22.50	20	1.25	1.38	-
18	28	-	24.75	24	1.25	1.38	-
20	30 1/2	-	27.00	24	1.25	1.38	-
24	36	-	32.00	24	1.50	1.62	-

All dimensions given in inches.

### Tightening Torque Values

Nominal Dia (in)	Threads per inch	Clamp Load (Lbs)	ASTM A307 Grade A		
			Tightening Torque		
			K = 0.15 (Lubricated)	K = 0.17 (Plated)	K = 0.20 (Plain)
1/2"	13	3831	24	27	32
5/8"	11	6102	48	54	64
3/4"	10	9030	85	96	113
7/8"	9	12467	136	155	182



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