

Flanges & Fittings - CF Flange Hardware 14, 14 1/2 & 16 1/2 Inch Nominal OD



CF Flange Hardware - 14 Inch Nominal OD

MODEL NUMBER	DESCRIPTION
G-1400	(1) OFHC copper gasket
G-1400V	(1) Viton gasket
B-1400	(30) SS 3/8"-24 x 3" bolts, nuts & washers
B-1400T	(30) SS 3/8"-24 x 2" bolts & washers

CF Flange Hardware - 14 1/2 Inch Nominal OD

MODEL NUMBER	DESCRIPTION
G-1450	(1) OFHC copper gasket
B-1450	(32) SS 3/8"-24 x 3" bolts, nuts & washers
B-1450T	(32) SS 3/8"-24 x 2" bolts & washers

CF Flange Hardware - 16 1/2 Inch Nominal OD

MODEL NUMBER	DESCRIPTION
G-1650	(1) OFHC copper gasket
G-1650V	(1) Viton gasket
B-1650	(36) SS 3/8"-24 x 3" bolts, nuts & washers
B-1650T	(36) SS 3/8"-24 x 2" bolts & washers

SPECIFICATIONS

General: Mounting hardware for flanges with Rotatable and nonrotatable with tapped or clearance bolt holes

Materials

Flanges: 304 stainless steel

(316L available upon request)

Gaskets: Copper, Viton or silver plated

Bolts: 18-8 stainless steel or silver plated

Nut plate: Stainless steel

Torque: Specifications in table below

Vacuum range

Metal seal: $\geq 1 \times 10^{-13}$ Torr - UHV

Elastomer seal: $\geq 1 \times 10^{-8}$ Torr - High vacuum

Temperature Range

Metal seal: -200°C to 450°C

Elastomer seal: -20°C to 150°C



Torque Specifications*

NOMINAL OD	BOLT SIZE	TORQUE IN INCH / LBS
1 1/3	8-32	28
2 1/8	1/4 - 28	110
2 3/4	1/4 - 28	110
3 3/8	5/16 - 24	190
4 1/2	5/16 - 24	190
4 5/8	5/16 - 24	190
6	5/16 - 24	190
6 3/4	5/16 - 24	190
8	5/16 - 24	190
10	5/16 - 24	190
12	5/16 - 24	190
13 1/4	3/8 - 24	345
14	3/8 - 24	345
14 1/2	3/8 - 24	345
16 1/2	3/8 - 24	345

*Specifications for Nor-Cal supplied fasteners only.

REV 6/16

