

TECHNICAL DEPARTMENT COMMUNICATION

Bulletin No.: FLANGE – 002E2 (Document Circulation: General; Distributor; Internal & confidential)

PRODUCT: INERTEX® 1/8” SQ-S Gasket Sheet, ASME B16.21 (Ring) Dimensions
SUBJECT : Torque Values for 3000 psi & 5000 psi Gasket Stress

ASME Class 300 Raised-Face Flanges

			Class 300 Raised Face Flanges	
			3000	5000
Flange Diameter	Number of Bolts	Bolt Diameter	TORQUE VALUE	
(inch)		(inch)	(ft-lbf)	
1/2	4	1/2	5	9
3/4	4	5/8	9	16
1	4	5/8	12	20
1-1/2	4	3/4	30	50
2	8	5/8	20	33
2-1/2	8	3/4	28	47
3	8	3/4	41	68
4	8	3/4	58	97
6	12	3/4	61	102
8	12	7/8	96	160
10	16	1	101	168
12	16	1-1/8	151	251
14	20	1-1/8	132	219
16	20	1-1/4	185	309
18	24	1-1/4	209	349
20	24	1-1/4	231	385
24	24	1-1/2	358	596

Note:

1. Torque value based on a nut factor of 0.175
2. These values provided as general guidance for achievable gasket stress at stated torque value. The 3000 psi values cover a wide range of normal service conditions. The 5,000 psi values are recommended for more aggressive service conditions. Gasket sealing is always dependent on service conditions and fluid characteristics.

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