

TECHNICAL DEPARTMENT COMMUNICATION

Bulletin No.: FLANGE – 002E1 (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 150 Raised-Face Flanges

			Class 150 Raised Face Flanges	
			3000	5000
Flange Size	Number of Bolt	Bolt Diameter	TORQUE VALUE	
(inch)		(inch)	(ft-lbf)	
1/2	4	1/2	5	8.6
3/4	4	1/2	7	12
1	4	1/2	10	16
1-1/2	4	1/2	20	33
2	4	5/8	40	67
2-1/2	4	5/8	47	78
3	4	5/8	68	114
4	8	5/8	48	81
6	8	3/4	92	153
8	8	3/4	124	206
10	12	7/8	106	176
12	12	7/8	140	234
14	12	1	195	325
16	16	1	185	309
18	16	1-1/8	283	471
20	20	1-1/8	249	416
24	20	1-1/4	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.

PREPARED BY: Inertech, Inc.

DATE: July 1, 2019