

Torque Values for DXSeal Sheet Gasket Materials

Listed below are the suggested Torque Values for use with DXSeal compressed synthetic fiber gasket sheet, Alltra PTFE, and DXFG Flexible Graphite in Standard ASME B16.5 raised face pipe flanges and bolted connections, using ASTM A193 B7 bolts or bolts with an equal yield strength.

When installing the gasket, use new, accurately sized bolts or studs, washers and nuts. Lubricate the bolt threads and nut faces with a compatible grease or antiseize. When using PTFE coated bolts, and use a compatible lubricant on the threads and nut face, and multiply the torque value by 0.70.

After hand tightening, use a cross torquing sequence, applying the proper torque in three passes, (30%, 60% and 100% on final pass).

150 lb Class

Nominal Pipe Size	Torque Ft. Lb.
1/2	30
3/4	40
1	50
1 1/4	60
1 1/2	60
2	120
2 1/2	120
3	120
3 1/2	120
4	115
5	200
6	200
8	200
10	320
12	320
14	500
16	405
18	650
20	595
24	835

300 lb Class

Nominal Pipe Size	Torque Ft. Lb.
1/2	30
3/4	50
1	70
1 1/4	100
1 1/2	150
2	90
2 1/2	130
3	160
3 1/2	200
4	200
5	200
6	200
8	320
10	500
12	710
14	535
16	835
18	835
20	835
24	1200

Flange stress limitations were determined by Warren Brown and David Reeves in a study titled An Update on Selecting the Optimum Bolt Assembly Stress for Piping Flanges, (Draft presented at the 2007 ASME PVP Conference), Table 2.

Not suitable for flange materials with elongation at failure less than 20%

Properties and application parameters shown throughout this sheet are typical. Your specific application should not be undertaken without additional evaluation for suitability. Failure to select the proper sealing materials could result in property damage and/or personal injury. Specifications are subject to change without notice.