

**Available Torque Values for Full Face 1/8" thick gaskets in ANSI B16.5 150# Flat Face Flanges with B7 Bolts
Tables Applicable for GYLON, GRAPH-LOCK, and CNA Materials**

Nominal Pipe Size (in)	Gasket Contact I.D. (in)	Flange O.D. (in)	Bolt Hole Diameter (in)	Gasket Contact Area (sq.in.)	Number Of Bolts	Size of Bolts (in)	Bolt Torque at 60ksi Stress (ft.lbs.)	Comp Force Per Bolt @ 60ksi (lbs.)	Max. Gasket Stress Avail. (psi)	** See Note at Bottom**		Max. Rec'd/Avail. Gasket Stress (psi)	Max. Torque/Bolt (ft.lbs.)
										Min. Rec'd Gasket Stress (psi)	Min. Rec'd Torque/Bolt (ft.lbs.)		
0.5	0.84	3.50	0.63	7.84	4	0.50	60	7560	3857	4800	75	3857	60
0.75	1.06	3.88	0.63	9.68	4	0.50	60	7560	3123	4800	92	3123	60
1	1.31	4.25	0.63	11.61	4	0.50	60	7560	2604	4800	111	2604	60
1.25	1.66	4.63	0.63	13.41	4	0.50	60	7560	2255	4800	128	2255	60
1.5	1.91	5.00	0.63	15.54	4	0.50	60	7560	1946	4800	148	1946	60
2	2.38	6.00	0.75	22.08	4	0.63	120	12120	2196	4800	262	2196	120
2.5	2.88	7.00	0.75	30.23	4	0.63	120	12120	1604	4800	359	1604	120
3	3.50	7.50	0.75	32.79	4	0.63	120	12120	1478	4800	390	1478	120
3.5	4.00	8.50	0.75	40.64	8	0.63	120	12120	2386	4800	241	2386	120
4	4.50	9.00	0.75	44.18	8	0.63	60	12120	2195	4800	131	2195	60
5	5.56	10.00	0.88	49.45	8	0.75	200	18120	2931	4800	327	2931	200
6	6.62	11.00	0.88	55.80	8	0.75	200	18120	2598	4800	370	2598	200
8	8.62	13.50	0.88	79.97	8	0.75	200	18120	1813	4800	530	1813	200
10	10.75	16.00	1.00	100.87	12	0.88	320	25140	2991	4800	514	2991	320
12	12.75	19.00	1.00	146.43	12	0.88	320	25140	2060	4800	746	2060	320
14	14.00	21.00	1.13	180.49	12	1.00	490	33060	2198	4800	1070	2198	490
16	16.00	23.50	1.13	216.77	16	1.00	490	33060	2440	4800	964	2440	490
18	18.00	25.00	1.25	216.77	16	1.13	710	43680	3224	4800	1057	3224	710
20	20.00	27.50	1.25	255.25	20	1.13	710	43680	3422	4800	996	3422	710
24	24.00	32.00	1.38	322.16	20	1.25	1000	55740	3460	4800	1387	3460	1000

**** See Note at Bottom****

*NOTE: Garlock's minimum recommended gasket stress for a 1/8" compressed non-asbestos (C.N.A.) gasketing material is not achievable with the given bolts and flanges.

NOTE 2: The above-mentioned torque values are based on A193 B7 bolts with A194 2H nuts.

**Available Torque Values for Full Face 1/16" thick gaskets in ANSI B16.5 150# Flat Face Flanges with B7 Bolts
Tables Applicable for GYLON, GRAPH-LOCK, and CNA Materials**

Nominal Pipe Size (in)	Gasket Contact I.D. (in)	Flange O.D. (in)	Bolt Hole Diameter (in)	Gasket Contact Area (sq.in.)	Number Of Bolts	Size of Bolts (in)	Bolt Torque at 60ksi Stress (ft.lbs.)	Comp Force Per Bolt @ 60ksi (lbs.)	Max. Gasket Stress Avail. (psi)	** See Note at Bottom**		Max. Rec'd/Avail. Gasket Stress (psi)	Max. Torque/Bolt (ft.lbs.)
										Min. Rec'd Gasket Stress (psi)	Min. Rec'd Torque/Bolt (ft.lbs.)		
0.5	0.84	3.50	0.63	7.84	4	0.50	60	7560	3857	3600	56	3857	60
0.75	1.06	3.88	0.63	9.68	4	0.50	60	7560	3123	3600	69	3123	60
1	1.31	4.25	0.63	11.61	4	0.50	60	7560	2604	3600	83	2604	60
1.25	1.66	4.63	0.63	13.41	4	0.50	60	7560	2255	3600	96	2255	60
1.5	1.91	5.00	0.63	15.54	4	0.50	60	7560	1946	3600	111	1946	60
2	2.38	6.00	0.75	22.08	4	0.63	120	12120	2196	3600	197	2196	120
2.5	2.88	7.00	0.75	30.23	4	0.63	120	12120	1604	3600	269	1604	120
3	3.50	7.50	0.75	32.79	4	0.63	120	12120	1478	3600	292	1478	120
3.5	4.00	8.50	0.75	40.64	8	0.63	120	12120	2386	3600	181	2386	120
4	4.57	9.00	0.75	43.68	8	0.63	60	12120	2220	3600	97	2220	60
5	5.66	10.00	0.88	48.57	8	0.75	200	18120	2985	3600	241	2985	200
6	6.72	11.00	0.88	54.76	8	0.75	200	18120	2647	3600	272	2647	200
8	8.72	13.50	0.88	78.61	8	0.75	200	18120	1844	3600	390	1844	200
10	10.88	16.00	1.00	98.67	12	0.88	320	25140	3058	3600	377	3058	320
12	12.88	19.00	1.00	143.81	12	0.88	320	25140	2098	3600	549	2098	320
14	14.19	21.00	1.13	176.29	12	1.00	490	33060	2250	3600	784	2250	490
16	16.19	23.50	1.13	211.97	16	1.00	490	33060	2495	3600	707	2495	490
18	18.19	25.00	1.25	211.37	16	1.13	710	43680	3306	3600	773	3306	710
20	20.19	27.50	1.25	249.26	20	1.13	710	43680	3505	3600	729	3505	710
24	24.19	32.00	1.38	314.97	20	1.25	1000	55740	3539	3600	1017	3539	1000

** See Note at Bottom**

*NOTE: Garlock's minimum recommended gasket stress for a 1/16" compressed non-asbestos (C.N.A.) gasketing material is not always achievable with the given flanges.

NOTE 2: The above-mentioned torque values are based on A193 B7 Bolts with A194 2H nuts.