



## Torque Values - DURLON 8500 Compressed Gasketing

### ANSI B16.5 Class 150 RF Flanges

#### With ANSI B16.21 Ring Gaskets

Bolting: A193 Gr. 7 & SAE Gr. 5, Lubricated with never-seize

Pipe Size (in)	1/16" Durlon 8500 Torque (ft-lbs)						1/8" Durlon 8500 Torque (ft-lbs)						# Bolts & Diameter
	Min. Torque* @ Pressure, psig				Max Torque		Min. Torque* @ Pressure, psig				MAX Torque		
	100	150	200	285	A193-B7	SAE Gr 5	100	150	200	285	A193-B7	SAE Gr 5	
1/2	5	6	7	8	15	15	4	4	5	5	15	15	4 @ 1/2"
3/4	8	9	10	11	22	22	5	6	7	8	22	22	4 @ 1/2"
1	10	12	13	15	29	29	7	8	9	10	29	29	4 @ 1/2"
1-1/4	16	18	20	22	44	44	11	12	14	16	44	44	4 @ 1/2"
1-1/2	21	24	26	30	56	49	14	16	18	21	56	49	4 @ 1/2"
2	42	48	53	60	113	99	29	33	37	42	113	99	4 @ 5/8"
2-1/2	49	56	62	70	113	99	34	39	43	49	113	99	4 @ 5/8"
3	72	82	90	102	113	107*	49	57	63	71	113	99	4 @ 5/8"
3-1/2	40	46	51	58	111	99	27	32	35	40	111	99	8 @ 5/8"
4	51	58	64	73	113	99	35	40	44	50	113	99	8 @ 5/8"
5	76	87	96	111	202	177	52	60	66	75	202	177	8 @ 3/4"
6	96	110	122	142	202	177	66	76	84	95	202	177	8 @ 3/4"
8	130	150	169	197	202	207*	89	103	113	133	202	177	8 @ 3/4"
10	124	145	165	193	327	287	85	97	109	132	327	287	12 @ 7/8"
12	164	195	220	259	327	287	112	129	147	177	327	287	12 @ 7/8"
14	206	245	278	327	492	431	140	161	186	226	492	431	12 @ 1"
16	197	234	266	313	492	431	133	153	178	216	492	431	16 @ 1"
18	298	354	402	473	731	564	203	234	269	326	731	564	16@1-1/8"
20	266	317	360	425	727	564	179	208	243	295	727	564	20@1-1/8"
24	386	461	525	622	1036	800	257	305	357	435	1036	800	20@1-1/4"

**Note:** It is assumed that new studs, nuts and hardened steel washers are used and studs, nuts and nut facings are lubricated with a never-seize paste using proper installation and bolt tightening practices. The maximum torque is based on the higher of the maximum allowable material stress or a bolt yield of 60% unless indicated otherwise. The above was calculated using the proposed ASME Gasket Constants (ROTT Testing, TTRL (Ecole Polytechnique), University of Montreal).

\* Bolt yield > 60%

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## Torque Values - DURLON 8500 Compressed Gasketing

### ANSI B16.5 Class 300 RF Flanges

#### With ANSI B16.21 Ring Gaskets

Bolting: A193 Gr. 7 & SAE Gr. 5, Lubricated with never-seize

Pipe Size (in)	1/16" Durlon 8500 Torque (ft-lbs)						1/8" Durlon 8500 Torque (ft-lbs)						# Bolts & Diameter
	Min. Torque* @ Pressure, psig				Max Torque		Min. Torque* @ Pressure, psig				MAX Torque		
	200	300	500	740	A193-B7	SAE Gr 5	200	300	500	740	A193-B7	SAE Gr 5	
1/2	7	8	9	11	15	15	5	5	6	7	15	15	4 @ 1/2"
3/4	12	14	17	20	27	27	8	10	12	13	27	27	4 @ 5/8"
1	16	18	22	26	36	36	11	13	15	18	36	36	4 @ 5/8"
1-1/4	25	28	35	41	55	55	17	20	24	28	55	55	4 @ 5/8"
1-1/2	39	45	55	65	87	87	27	31	38	44	87	87	4 @ 3/4"
2	27	30	37	44	59	59	18	21	25	30	59	59	8 @ 5/8"
2-1/2	37	43	53	63	82	82	26	30	36	43	82	82	8 @ 3/4"
3	54	63	77	92	113	120	38	43	52	64	120	120	8 @ 3/4"
3-1/2	61	71	88	104	134	134	42	48	60	73	134	134	8 @ 3/4"
4	77	90	111	132	169	169	53	61	76	93	169	169	8 @ 3/4"
5	96	114	142	170	202	202	66	77	98	121	202	202	8 @ 3/4"
6	81	97	121	145	177	177	56	64	84	104	177	177	12 @ 3/4"
8	132	157	198	240	281	281	88	106	139	174	281	281	12 @ 7/8"
10	141	169	216	264	294	294	94	116	154	195	294	294	16 @ 1"
12	213	255	327	400	440	440	141	176	235	298	440	440	16 @ 1-1/8"
14	188	226	291	358	383	383	126	157	211	268	383	383	20 @ 1-1/8"
16	266	321	413	508	540	540	178	223	300	382	540	540	20 @ 1-1/4"
18	298	359	461	566	610	610	199	248	333	424	610	610	24 @ 1-1/4"
20	333	403	520	642	673	673	225	281	380	486	673	673	24 @ 1-1/4"
24	525	637	828	1027	1042	1042	357	449	610	784	1042	1042	24 @ 1-1/2"

**Note:** It is assumed that new studs, nuts and hardened steel washers are used and studs, nuts and nut facings are lubricated with a never-seize paste using proper installation and bolt tightening practices. The maximum torque is based on the higher of the maximum allowable material stress or a bolt yield of 60% unless indicated otherwise. The above was calculated using the proposed ASME Gasket Constants (ROTT Testing, TTRL (Ecole Polytechnique), University of Montreal).

\* Bolt yield > 60%

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