



Torque Table for VCS, VCFS (use max value), VCSID, PGE, LineBacker, and Evolution - ASME B16.47B 26" - 60" NPS

NPS	75#			150#			300#			400#			600#			900#			NPS
	Minimum [ft-lb]	Recommended [ft-lb]	Max [ft-lb]	Minimum [ft-lb]	Recommended [ft-lb]	Max [ft-lb]	Minimum [ft-lb]	Recommended [ft-lb]	Max [ft-lb]	Minimum [ft-lb]	Recommended [ft-lb]	Max [ft-lb]	Minimum [ft-lb]	Recommended [ft-lb]	Max [ft-lb]	Minimum [ft-lb]	Recommended [ft-lb]	Max [ft-lb]	
26	50	55	90	80	95	160	315	470	785	555	640	1065	795	1085	1805	2825	4165	6945	26
28	50	55	90	75	95	160	320	470	785	760	840	1400	990	1370	2280	3685	5595	9325	28
30	50	55	90	75	95	160	420	640	1065	760	840	1400	1225	1700	2830	4765	7320	12200	30
32	50	55	90	75	95	160	565	840	1400	955	1085	1805	1490	2080	3465	4980	7320	12200	32
34	50	55	90	120	155	255	565	840	1400	945	1085	1805	2165	3005	5005	6250	9370	15615	34
36	85	95	160	120	155	255	740	1085	1805	1245	1370	2280	2130	3005	5005	5065	7320	12200	36
38	90	95	160	170	230	380	735	1085	1805	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	38
40	85	95	160	170	230	380	735	1085	1805	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	40
42	85	95	160	165	230	380	940	1370	2280	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	42
44	140	155	255	165	230	380	935	1370	2280	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	44
46	140	155	255	245	335	560	1175	1700	2830	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	46
48	140	155	255	240	335	560	1165	1700	2830	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	48
50	145	155	255	240	335	560	1160	1700	2830	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	50
52	145	155	255	240	335	560	1155	1700	2830	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	52
54	150	155	255	240	335	560	1185	1700	2830	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	54
56	220	230	380	240	335	560	2065	3005	5005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	56
58	220	230	380	340	470	785	2035	3005	5005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	58
60	225	230	380	340	470	785	2085	3005	5005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60

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Notes:

- 1) The max recommended value is not an absolute max value for the products relevant to this table. The absolute max value for these products could exceed the maximum allowable limits of the other components in bolted flange assemblies therefore GPT has chosen not to display this information. (Please contact the factory for additional information)
- 2) All values have been calculated assuming a 0.11 Coefficient of Friction with new nuts and threaded studs. If using non-lubricated, dry threaded studs, increase torque by 15%. If using PTFE or Xylan coated studs, use Recommended values.
- 3) "M" - Maintenance Factor = 0, "Y" - Minimum Design Seating Stress = 7500 [psi]. M&Y values are specific to GPT isolating gasket including: VCS, VCFS, VCSID, PGE, and LineBacker. Y=0 psi for Evolution.
- 4) The above "Max" torque value is based on the use of bolts with a yield strength of 100,000 [psi]
- 5) The minimum values are based on ASME Section VIII Division I flange design codes calling for minimum seating stress (Y value). Sometimes minimum seating stress is inadequate to seat the gasket because the bolting and flange rigidity are insufficient to effect a proper seal. Care should be taken to ensure that flange conditions provide a suitable seating surface.
- 6) All values in the above table are based on standard ASME B16.47 series B flanges and bolts. Contact GPT for Series A flange and bolt values.