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at Barrington Diesel Club

# Torques for standard metric and imperial bolts

All manufacturers use standard bolt torques for general specifications, and list exceptions to them for bolts requiring special attention or torques, e.g. cylinder head bolts and main bearing cap bolts.

[More about standard bolt torques](#)

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# Standard Bolt torques for imperial and for metric bolts

## Standard Torques for Imperial Bolts

### BDC Imperial High Tensile Bolts - Table of Standard Torques



IMPERIAL Grade 5 bolts, allow a torque variance of  $\pm 5\%$  either way



IMPERIAL Grade 8 bolts, allow a torque variance of  $\pm 5\%$  either way

Bolt size	Thread	lb.ft	Nm	Bolt size	Thread	lb.ft	Nm
1/4 inch	NC	6	8	.1/4 inch	NC	8	11
1/4 inch	NF	7	10	.1/4 inch	NF	11	13
5/16 inch	NC	12	16	.5/16 inch	NC	16	21
5/16 inch	NF	13	17	.5/16 inch	NF	17	24
3/8 inch	NC	25	32	.3/8 inch	NC	33	44
3/8 inch	NF	28	37	.3/8 inch	NF	37	50
7/16 inch	NC	37	48	.7/16 inch	NC	48	65
7/16 inch	NF	45	60	.7/16 inch	NF	59	80
1/2 inch	NC	54	71	.1/2 inch	NC	73	100
1/2 inch	NF	65	90	.1/2 inch	NF	88	120
9/16 inch	NC	70	95	.9/16 inch	NC	95	130
9/16 inch	NF	85	115	.9/16 inch	NF	112	152
5/8 inch	NC	108	145	.5/8 inch	NC	142	193
5/8 inch	NF	130	175	.5/8 inch	NF	173	235
3/4 inch	NC	185	250	.3/4 inch	NC	245	332
3/4 inch	NF	220	300	.3/4 inch	NF	295	400
7/8 inch	NC	310	422	.7/8 inch	NC	415	563
7/8 inch	NF	360	490	.7/8 inch	NF	480	650
1 inch	NC	440	595	.1 inch	NC	585	795
1 inch	NF	518	700	.1 inch	NF	690	930
Bolt size	Thread	lb.ft	Nm	Bolt size	Thread	lb.ft	Nm



IMPERIAL Grade 5 bolts, allow a torque variance of  $\pm 5\%$  either way



IMPERIAL Grade 8 bolts, allow a torque variance of  $\pm 5\%$  either way

## Standard Torques for Metric Bolts

### BDC Metric Bolts - Table of Standard Torques ( $\pm 5\%$ Nm)

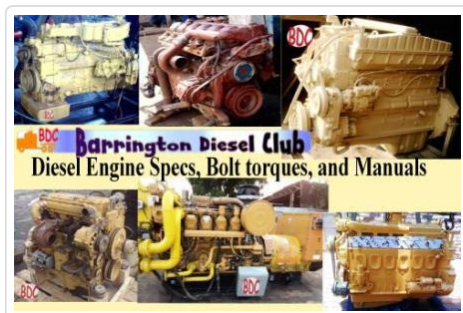
Grade	8.8	10.9	12.9	Grade	8.8	10.9	12.9
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**Diameter Dry Threads - torque .Diameter Oiled Threads - torque**

M5	6	9	10	.M5	4.5	6.5	7.5
M6	10	15	18	.M6	7.5	11	13
M8	25	35	45	.M8	18	25	30
M10	50	75	85	.M10	35	55	65
M12	85	130	150	.M12	65	95	110
M14	140	205	240	.M14	100	150	175
M16	215	315	370	.M16	160	235	275
M20	435	620	725	.M20	320	455	535
M24	750	1070	1255	.M24	555	790	925

**Diameter Dry Threads - torque .Diameter Oiled Threads - torque**

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**Barrington Diesel Club**

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