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Torquing Specification Inch & Metric Fastener Chart

Socket Head Cap Screws

Inch Metric

Nominal Size	Tightening Torque (In-Pounds)		Nominal Size	Tightening Torque (N•m)
	UNRF	UNRF		
0	-	2.6	M1.6	0.34
1	4.5	4.8	M2	0.69
2	7.5	8.0	M2.5	1.43
3	11.0	12.0	M3	2.48
4	16.0	18.0	M4	5.85
5	24.0	24.0	M5	12.0
6	30.0	34.0	M6	20.3
8	55.0	58.0	M8	48.8
10	79.0	90.0	M10	97.5
1/4	200.0	230.0	M12	165.0
5/16	415.0	460.0	M14	265.0
3/8	740.0	845.0	M16	413.0
7/16	1,190.0	1,305.0	M20	825.0
1/2	1,800.0	2,065.0	M24	1,425.0
5/8	3,400.0	3,800.0	M30	2,775.0
3/4	6,000.0	6,750.0	M36	4,875.0
7/8	8,250.0	9,200.0		
1	12,500.0	13,000.0		
1-1/4	25,000.0	27,750.0		
1-1/2	43,500.0	49,000.0		

Button Head Cap Screws

Inch-Button Head Metric-Button Head

Nominal Size	Tightening Torque (In-Pounds)		Nominal Size	Tightening Torque (N•m)
4	8		M3 x 0.5	1.25
5	-		M4 x 0.7	2.9
6	15		M5 x 0.8	5.9
8	30		M6 x 1	10.0
10	65		M8 x 1.25	24.0
1/4	125		M10 x 1.5	48.0
5/16	200		M12 x 1.75	84.0
3/8	360		M16 x 2	207.0
1/2	1000		M20 x 2.5	-
5/8	1750			

Flat Head Cap Screws

Inch-Flat Head Metric-Flat Head

Nominal Size	Tightening Torque (In-Pounds)		Nominal Size	Tightening Torque (N•m)
4	9.5		M3 x 0.5	1.85
5	14.0		M4 x 0.7	3.4
6	18.0		M5 x 0.8	6.9
8	32.0		M6 x 1	12.0
10	75.0		M8 x 1.25	28.0
1/4	140.0		M10 x 1.5	56.0
5/16	245.0		M12 x 1.75	99.0
3/8	400.0		M16 x 2	246.0
7/16	600.0		M20 x 2.5	400.0
1/2	1,200.0			
5/8	2,000.0			
3/4	4,000.0			
7/8	6,000.0			
1	8,500.0			

Shoulder Screws

Nominal Size	Tightening Torque (In-Pounds)		Nominal Size	Tightening Torque (N•m)
1/4	50		M5 x 0.8	6.9
5/16	125		M6 x 1	12.0
3/8	265		M8 x 1.25	28.0
1/2	470		M10 x 1.5	56.0
5/8	1,150		M12 x 1.75	99.0
3/4	2,000		M16 x 2	250.0
1	4,000		M20 x 2.5	400.0

Cup Point Set Screws

1 Inch-Cup Pt Set Screw Metric-Cup Pt Set Screw

Nominal Size	Tightening Torque (In-Pounds)		Nominal Size	Tightening Torque (N•m)
0	1.1		1.6	0.1
1	2.1		2.0	0.2
2	2.1		2.5	0.6
3	6.0		3.0	1.0
4	6.0		4.0	2.1
5	11.0		5.0	4.7
6	11.0		6.0	7.7
8	23.0		8.0	17.8
10	40.0		10.0	35.0
1/4	94.0		12.0	55.0
5/16	183.0		16.0	125.0
3/8	317.0		20.0	250.0
7/16	502.0		24.0	425.0
1/2	750.0			
5/8	1,460.0			
3/4	2,520.0			
7/8	5,750.0			
1	8,000.0			

Low Head Cap Screws - Inch

Nominal Size	Tightening Torque (In-Pounds)		Nominal Size	Tightening Torque (In-Pounds)
4	5.0		5/16	150.0
5	9.5		3/8	275.0
6	9.5		7/16	425.0
8	19.0		1/2	600.0
10	30.0		5/8	1,300.0
1/4	75.0			

NOTE: This specification is for Holo-Krome® alloy steel fasteners with thermal black finish and light oil.