

GENERAL DATA

1. Scope

1.1 This standard covers the complete general and dimensional data for metric series round head ribbed neck bolts in sizes M5 thru M14, intended for general engineering applications.

1.2 The inclusion of dimensional data in this standard is not intended to imply that all sizes described are production stock items. Consumers should consult with manufacturers concerning lists of stock production items.

2. Comparison With ISO Standards

There is no ISO product standard for metric round head ribbed neck bolts at this time.

3. Dimensions

3.1 All dimensions in this standard are in millimeters, unless stated otherwise.

3.2 Symbols specifying geometric characteristics are in accord with American National Standard, Dimensioning and Tolerancing, ASME Y14.5M.

4. Terminology

For definitions of terms relating to fasteners or component features thereof used in this standard, refer to American National Standard, Glossary of Terms for Mechanical Fasteners, ASME B18.12.

5. Top of Head

The spherical top surface of the head may be underfilled within a circle equal to the nominal bolt diameter D , concentric to the bolt axis, providing the head height K is maintained.

6. Head Height

The head height is the distance, measured parallel to the axis of the bolt, from the top of the head to the underhead bearing surface.

7. Head Periphery

The head periphery shall be round within the specified maximum head diameter D_c and the minimum bearing surface diameter D_w , and may be somewhat irregular. The edge may be rounded or flat, providing the limits for head diameter D_c , bearing surface diameter D_w , and head edge thickness C (measured at the minimum bearing surface diameter) are maintained.

8. Bearing Surface

The bearing surface shall be reasonably flat and perpendicular to the axis of the bolt. However, a 0.5 mm maximum height die seam fin across the bearing surface shall be permissible.

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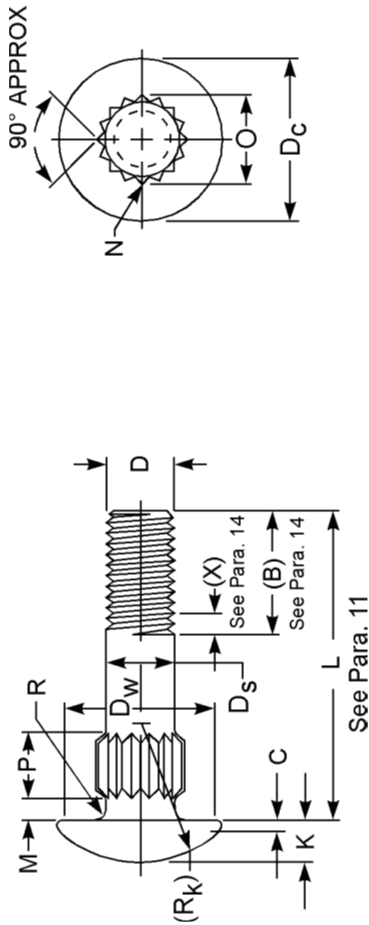


Table 1 Dimensions of Round Head Ribbed Neck Bolts

D	Nom Bolt Size and Thread Pitch	Ds		Rk	K		C		Dw	M		N	O	P			R
		Max	Min		Max	Min	Max	Min		22.23 & Shorter	25.40 & Longer			22.23 & Shorter	25.40 - 28.58	31.75 & Longer	
M5 x 0.8		5.48	4.52	8.8	3.1	2.5	1.8	1.0	9.8	0.80	1.60	9	5.5	6.40	10.4	15.1	0.80
M6 x 1.0		6.48	5.52	10.7	3.6	3.0	1.9	1.1	12.2	0.80	1.60	10	6.7	6.40	10.4	15.1	0.80
M8 x 1.25		8.58	7.42	12.5	4.8	4.0	2.2	1.2	15.8	0.80	1.60	12	8.7	6.40	10.4	15.1	0.80
M10 x 1.5		10.58	9.42	15.5	5.8	5.0	2.5	1.5	19.6	0.80	1.60	12	10.8	6.40	10.4	15.1	0.80
M12 x 1.75		12.70	11.30	19.0	6.8	6.0	2.8	1.8	23.8	0.80	1.60	14	12.8	6.40	10.4	15.1	0.80
M14 x 2		14.20	13.30	21.9	7.9	7.0	3.3	2.1	27.6	0.80	1.60	16	14.9	6.40	10.4	15.1	0.80
See Para.		10		5	6, 18		7		7, 8								

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Page 2 of 5

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Revised:

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