

Metric Hex. Head Screws.

Date: September 2016 Hex.Head Screws Iss.C

Product Data Sheet

Metric Hexagon Head Screws

KEY TO PART NUMBERS

933 DIN STANDARD

3 = HOT DIP GALVANISED 3/4/5 **FINISH**

4 = STAINLESS STEEL 316 5 = ELECTRO ZINC PLATED

THREAD M6, M8, M10, M12, M16

X Length in mm. LENGTH

933 х Code will be 93336X12 12

EXAMPLE PART CODE AND DESCRIPTION STAINLESS 316

DIN STAINLESS THREAD LENGTH (mm)

933 4 6 х 12 Code will be 93346X12

EXAMPLE PART CODE AND DESCRIPTION ELECTRO ZINC PLATED

ZINC PLATED THREAD LENGTH (mm)

933 5 6 12 Code will be 93356X12

Selection of diameters - tightening torques & loads

Guideline values for screws in steel groups A2-70 and A4-70 with standard metric threads to DIN 13.

Diameter	Load	Initial stressing force	Tightening torque	Force in service N		
	Force at 0.2% yield point N	N	Nm	Axial static	Axial dynamic	Radial static or dynamic
M6	9040	5700	7.3	2440	1470	490
M8	16470	10380	17.7	4450	2670	890
M10	26100	16440	35.5	7050	4230	1410
M12	37930	23900	61.3	10240	6150	2050

When selecting the correct screw diameter it should be ensured that the total load on the screw does not exceed 90% of the standardised

0.2% yield stress. Care should be taken to ensure correct initial tensioning, wiith a torque wrench wherever possible.

Experience has shown that a utilisation of 70% of the total load is reasonable average for the initial stressing force to allow

additional forces in service to be taken up.

The table above is only intended as an aid for quick comparison

STEEL GRADE 8.8 HIGH TENSILE STRENGTH AND TORQUE FIGURES

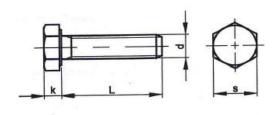
M6	M8	M10	M12
1.00	1.25	1.50	1.75
20.10	36.60	58.00	84.30
5.35	7.19	9.03	10.86
1642	2978	4731	6873
16.1	29.2	46.4	67.4
1183	2162	3436	5088
11.6	21.2	33.7	49.9
985	1787	2839	4120
9.66	17.52	27.84	40.4
1.19	2.9	5.74	10
11.7	28	56	98
0.63	21	42	72
0.03	21	42	/2
	1.00 20.10 5.35 1642 16.1 1183 11.6 985 9.66 1.19	1.00 1.25 20.10 36.60 5.35 7.19 1642 2978 16.1 29.2 1183 2162 11.6 21.2 985 1787 9.66 17.52 1.19 2.9 11.7 28	1.00 1.25 1.50 20.10 36.60 58.00 5.35 7.19 9.03 1642 2978 4731 16.1 29.2 46.4 1183 2162 3436 11.6 21.2 33.7 985 1787 2839 9.66 17.52 27.84 1.19 2.9 5.74 11.7 28 56

Specification: Steel parts Manufactured to BS EN 4017 Grade 8.8

Finishes: Galvanized - Processed in accordance with BS EN ISO 10684

Zinc Plated to BS EN ISO 4042

No. Per Box: 100



k	S	
4mm	10mm	
5.3mm	13mm	
6.4mm	17mm	
7.5mm	19mm	
	4mm 5.3mm 6.4mm	

<u>UNISTRUT HEALTH & SAFETY DATA SHEET REF'S :</u>
No. 001 - PLAIN STEEL, PRE-GALVANIZED, GALVANIZED AND STAINLESS STEEL COMPONENTS No. 099 - HOT DIP GALVANIZING (CHANNEL & COMPONENTS) No. 102 - STEEL