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to content piping flange stud bolt and spanner size PDF chart A4 150# Class to 600# Class Download Link 900# Class to 2500# Class Download Link Flange classes > 150# 300# 600# 900# 1500# 2500# (1) > Bolt DIA = Stud OD

inch Size (2) > Bolt DIA = Stud OD MM Size (3) > Bolt L = Bolt length MM Size (4) > Sp..r Size = Bolt spanner size in MM error: Content is protected !! Hardware threading standard This article may be too technical for most readers to understand. Please help improve it to make it understandable to non-experts, without removing the technical details. (December 2020) (Learn how and when to remove this template message) The ISO metric screw thread is the most commonly used type of general-purpose screw thread worldwide.[1] They were one of the first international standards agreed when the International Organization for Standardization (ISO) was set up in 1947.[citation needed]

The "M" designation for metric screws indicates the nominal outer diameter of the screw thread, in millimetres. This is also referred to as the "major" diameter in the information below. It indicates the diameter of smooth-walled hole that a male thread (e.g. on a bolt) will pass through easily to connect to an internally threaded component (e.g. a nut) on the other side. That is, an M6 screw has a nominal outer diameter of 6 millimetres and will therefore be a well-located, co-axial fit in a hole drilled to 6 mm diameter. Basic profile Basic profile of all ISO metric screw threads, where the male part has the external thread The design principles of ISO general-purpose metric screw threads ("M" series threads) are defined in international standard ISO 68-1.[2] Each thread is characterized by its major diameter, D (Dmaj in the diagram), and its pitch, P. ISO metric threads consist of a symmetric V-shaped thread. In the plane of the thread axis, the flanks of the V have an angle of 60° to each other. The thread depth is 0.54125 × pitch.

Bolts strength grade						
The minimum break strength						
Bolt	Tensile force		Socket	Recommend Torque		
	mm	mm		Nm	Nm	Nm
M14	22	12	69	88	137	165
M16	24	14	107	137	206	250
M18	27	14	137	205	284	341
M20	30	17	175	239	362	459
M22	32	17	226	333	539	675
M24	36	19	314	467	750	937
M27	41	19	441	637	1029	1472
M30	46	22	588	882	1275	1962
M32	55	24	784	1176	1764	2652
M36	55	27	990	1470	2166	2453
M39	60	27/30	1176	1764	2156	2943
M42	66	32	1519	2352	2744	3596
M45	70	36	1764	2744	3136	4144
M48	75	36	2254	3340	3920	5250
M50	80	36	2744	4116	4704	6573
M52	86	39/42	3160	4740	5528	7676
M56	90	42	3618	5427	7742	10751

The outermost 1/8 and the innermost 1/4 of the height H of the V-shape are cut off from the thread. The relationship between the height H and the pitch P is found using the following equation where θ is half the included angle of the thread, in this case 30°: $\frac{H}{P} = 1.2 \tan \theta - P = 3.2 - P \approx 0.866025$. $P = \left\lceil \sqrt{\frac{3}{4}} \right\rceil \cdot D \approx \text{Pappros } 0.866025 \cdot D$ or $P = 2 \tan \theta - H = 2.3 - H \approx 1.154701 \cdot H$. $H = \left\lfloor \frac{D}{2} \cdot (\sqrt{3}) \right\rfloor \cdot \cos \theta$ or $H = \left\lfloor \frac{D}{2} \cdot (\sqrt{3}) \right\rfloor \cdot \cos \theta \cdot \text{Pappros } 1.154701$. In an external (male) thread (e.g., on a bolt), the major diameter Dmaj and the minor diameter Dmin define maximum dimensions of the thread. This means that the external thread must end flat at Dmaj, but can be rounded out below the minor diameter Dmin. Conversely, in an internal (female) thread (e.g., in a nut), the major and minor diameters are minimum dimensions; therefore the thread profile must end flat at Dmin but may be rounded out beyond Dmaj. In practice this means that one can measure the diameter over the threads of a bolt to find the nominal diameter Dmaj, and the inner diameter of a nut is Dmin. The minor diameter Dmin and effective pitch diameter Dp are derived from the major diameter and pitch as $D_{\min} = D_{\text{major}} - 2 \cdot 5.8 \cdot H = D_{\text{major}} - 5.8 \cdot P = D_{\text{major}} - 1.082532 \cdot P$ and $D_p = D_{\text{major}} - 2 \cdot 3.8 \cdot H = D_{\text{major}} - 3.9 \cdot P \approx D_{\text{major}} - 0.649519 \cdot P$. $\left\lfloor \frac{D_{\text{major}}}{2} \cdot (\sqrt{3}) \right\rfloor \cdot \sin(\alpha) + D_{\text{major}} \cdot \left(\frac{\pi}{2} \cdot \cos(\alpha) \right) = D_{\text{major}} \cdot \left(\frac{\pi}{2} \cdot \cos(\alpha) \right) + D_{\text{major}} \cdot \left(\frac{\pi}{2} \cdot \cos(\alpha) \right)$. $\left\lfloor \frac{D_{\text{major}}}{2} \cdot (\sqrt{3}) \right\rfloor \cdot \sin(\alpha) + D_{\text{major}} \cdot \left(\frac{\pi}{2} \cdot \cos(\alpha) \right) = D_{\text{major}} \cdot \left(\frac{\pi}{2} \cdot \cos(\alpha) \right) + D_{\text{major}} \cdot \left(\frac{\pi}{2} \cdot \cos(\alpha) \right)$. Tables of the derived dimensions for screw diameters and pitches defined in ISO 261 are given in ISO 724.

The designation Metric ISO screw thread is designated by the letter M followed by the value of the nominal diameter D (the maximum thread diameter) and the pitch P, both expressed in millimetres and separated by the multiplication sign, × (e.g. M8×1.25). If the pitch is the normally used "coarse" pitch listed in ISO 261 or ISO 262, it can be omitted (e.g. M8). [14] The length of a machine screw or bolt is indicated by an additional x and the length expressed in millimetres (e.g. M8x1.25x30 or M8x30). [15] Tolerance classes defined in ISO 965-1 can be appended to these designations, if required (e.g. M500-6g in external threads). External threads are designated by lowercase letters (e.g. m8), while internal threads are designated by uppercase letters (e.g. M8).

Subsets of ISO 261/ISO 262 selected series for screws, bolts and nuts

Nominal Diameter, D (mm)	Coarse Pitch Series, P (mm)
M2	0.4
M2.5	0.4
M3	0.5
M4	0.7
M5	0.8
M6	1.0
M8	1.25
M10	1.5
M12	1.75
M16	2.0
M20	2.5
M24	3.0
M30	3.5
M36	4.0
M42	4.5
M48	5.0
M56	6.0
M64	7.0

The thread values are derived from rounded Renard series. They are defined in ISO 3, with "1st choice" sizes being from the R"10 series and "2nd choice" and "3rd choice" sizes being the remaining values from the R"20 series.[5] The coarse pitch is the commonly used default pitch for a given diameter. In addition, one or two smaller fine pitches are defined, for use in applications where the height of the normal coarse pitch would be unsuitable (e.g. threads in thin-walled parts). The terms coarse and fine have (in this context) no relation to the manufacturing quality of the thread. In addition to coarses and fine threads, there is another division of extra fine, or superfine threads, with a pitch half that of the corresponding coarse or fine thread.

Coarse, medium and fine threads are also occasionally found in the form of conical points, such as Serrano bits. These are more resistant to wear than standard double-flute drill bits and have a greater minor diameter than the shank of the bit. Coarse, medium and fine threads are also available in the form of conical spanners (wrenches) for the same nominal diameters. Spanner (wrench) sizes below:

Screw Thread	Spanner (Wrench) Size
M2	1.5
M2.5	2.0
M3	2.5
M4	3.0
M5	4.0
M6	5.0
M8	6.5
M10	8.0
M12	10.0
M16	13.0
M20	17.0
M24	22.0
M30	28.0
M36	36.0
M42	45.0
M48	55.0
M56	65.0
M64	80.0

Standard hex nut and hex head bolts. Other (usually smaller) sizes may occur to reduce weight or cost, including the small series flange bolts defined in ISO 4162 which typically have hexagonal head sizes corresponding to the smaller 1st choice thread size (e.g. M6 small series flange bolts have 8mm hexagonal heads, as would normally be expected for M6 bolts). [16]

Thread Spanner (wrench) size

Thread Spanner (Wrench) Size	Hex Nut	Bolt Socket-head cap screw Button-head cap screw Counter-sunk flat-head cap screw Set, or grub, screw ISO DIN M1 - 2.5 -	
M2	1.5	-	-
M2.5	2.0	-	-
M3	2.5	-	-
M4	3.0	-	-
M5	4.0	-	-
M6	5.0	-	-
M8	6.5	-	-
M10	8.0	-	-
M12	10.0	-	-
M16	13.0	-	-
M20	17.0	-	-
M24	22.0	-	-
M30	28.0	-	-
M36	36.0	-	-
M42	45.0	-	-
M48	55.0	-	-
M56	65.0	-	-
M64	80.0	-	-

^aISO 965-1 ISO general purpose metric screw threads – Basic profile – Part 1: Metric screw threads. International Organization for Standardization.
^bISO 965-2 ISO general purpose metric screw threads – General plan. ISO 965-2: Limits of sizes for general purpose external and internal screw threads. ISO 965-3 Deviations for conformational screw threads ISO 965-4: Limits of sizes for hot-dip galvanized external screw threads to mate with internal screw threads tapped with tolerance position H or G after galvanizing ISO 965-5: Limits of sizes for internal screw threads with maximum size of tolerance position h before galvanizing National BS 3643: ISO metric screw threads ANSI/ASME B1.13M: Metric Screw Threads: M Profile ANSI/ASME B4.2-1978 (R2009): Preferred Metric Limits and Fits DIN13: page 519 Derived standards Japan has a JIS metric screw thread standard that largely follows the ISO, but with some differences in pitch and head sizes. See also ASTM A325M ASTM F568M British Association screw threads (BA) British Standard Cyclic (BSC) British standard pipe thread (BSPT) British standard pipe thread (BSP) British Standard Whitworth (BSW) - A British thread standard with 55° profile. Buttress thread Engineering literature Garden hose thread List of drill and tap sizes National pipe thread (NPT) National thread Nominal size Panzergewinde Photographic Filter thread Preferred metric sizes Screw thread Square three flange Thread angle Trapezoidal thread forms United States Standard thread Unified Thread Standard (UTS, UNC, UNF, UNEF and UNS) - a US/Canadian/British thread standard that uses the same 60° profile as metric threads, but an inch-based set of diameter/pitch combinations. References ~ ISO/TC1 Business Plan, 2007-03-05, Version 1.3. Table 3: The market share of each screw thread, p. 7. ^ ISO 68-1:1998 ISO general purpose screw threads - Basic profile - Part 1: Metric screw threads. International Organization for Standardization. ^ Oberg et al. 2000, p. 1706 ^ a b c ISO 965-1:2013 ISO general purpose metric screw threads — Tolerances — Part 1: Principles and basic data.

International Organization for Standardization. 17 December 1998. ^ ISO & DIN13 ^ ISO 262:1998 ISO general purpose metric screw threads - Selected sizes for screws, bolts and nuts. International Organization for Standardization. 17 December 1998. ^ "Final report" (PDF). ntrs.nasa.gov. Archived from the original (PDF) on 14 March 2017. Retrieved 7 July 2017. ^ "ISO 4162:2012".

SIZE	THREAD PITCH	SPANNER SIZE
M5 (5mm)	0.80mm	8mm
M6 (6mm)	1.00mm	10mm
M8 (8mm)	1.25mm	13mm
M10 (10mm)	1.50mm	17mm
M12 (12mm)	1.75mm	19mm
M14 (14mm)	2.00mm	22mm
M16 (16mm)	2.00mm	24mm
M18 (18mm)	2.50mm	27mm
M20 (20mm)	2.50mm	30mm
M22 (22mm)	2.50mm	32mm
M24 (24mm)	3.00mm	36mm

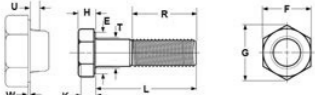
Imperial conversion to nearest metric equivalent

1/8"	3.0mm	5/8"	16.0mm
5/32"	4.0mm	3/4"	20.0mm
3/16"	5.0mm	7/8"	22.0mm
1/4"	6.0mm	1"	25.0mm
5/16"	8.0mm	1 1/4"	30.0mm
3/8"	10.0mm	1 1/2"	40.0mm
7/16"	11.0mm	1 3/4"	45.0mm
1/2"	12.0mm	2"	50.0mm
9/16"	14.0mm		

Screw Gauge conversion to nearest metric equivalent

No. 4	2.9mm
No. 6	3.5mm
No. 8	4.2mm
No. 10	4.8mm
No. 12	5.5mm
No. 14	6.3mm

International Standards Organisation. Retrieved 23 December 2022. Bibliography Oberg, Erik; Jones, Franklin D.; Horton, Holbrook L.; Ryffel, Henry H. (2000), *Machinery's Handbook* (26th ed.), New York: Industrial Press Inc., ISBN 0-8311-2635-3. External links Diagrams and tables of many screwthread series.



METRIC - HEX HEAD BOLTS, PRODUCT GRADE A															INCH	
Size	Thread Length	Threaded Length		Hex Head		Hex Head		Hex Head		Hex Head		Hex Head		Hex Head		
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
1/4"	0.30	0	0.20	0.21	0.2	0.27	0.25	0.045	0.32	0.32	0.41	0.41	0.41	0.41	0.41	
5/16"	0.38	0	0.28	0.29	0.28	0.35	0.33	0.055	0.40	0.40	0.49	0.49	0.49	0.49	0.49	
3/8"	0.50	0	0.35	0.36	0.35	0.43	0.41	0.065	0.50	0.50	0.60	0.60	0.60	0.60	0.60	
1/2"	0.62	0	0.45	0.46	0.45	0.53	0.51	0.08	0.62	0.62	0.75	0.75	0.75	0.75	0.75	
5/8"	0.75	0	0.55	0.56	0.55	0.63	0.61	0.09	0.75	0.75	0.90	0.90	0.90	0.90	0.90	
3/4"	0.87	0	0.65	0.66	0.65	0.73	0.71	0.10	0.87	0.87	1.05	1.05	1.05	1.05	1.05	
7/8"	1.00	0	0.75	0.76	0.75	0.83	0.81	0.11	1.00	1.00	1.20	1.20	1.20	1.20	1.20	
1"	1.12	0	0.85	0.86	0.85	0.93	0.91	0.12	1.12	1.12	1.35	1.35	1.35	1.35	1.35	
1 1/8"	1.25	0	0.95	0.96	0.95	1.03	1.01	0.13	1.25	1.25	1.50	1.50	1.50	1.50	1.50	
1 1/4"	1.37	0	1.05	1.06	1.05	1.13	1.11	0.14	1.37	1.37	1.65	1.65	1.65	1.65	1.65	
1 1/2"	1.50	0	1.15	1.16	1.15	1.23	1.21	0.15	1.50	1.50	1.80	1.80	1.80	1.80	1.80	
1 3/4"	1.62	0	1.25	1.26	1.25	1.33	1.31	0.16	1.62	1.62	1.95	1.95	1.95	1.95	1.95	
2"	1.75	0	1.35	1.36	1.35	1.43	1.41	0.17	1.75	1.75	2.10	2.10	2.10	2.10	2.10	
2 1/8"	1.87	0	1.45	1.46	1.45	1.53	1.51	0.18	1.87	1.87	2.25	2.25	2.25	2.25	2.25	
2 1/4"	2.00	0	1.55	1.56	1.55	1.63	1.61	0.19	2.00	2.00	2.40	2.40	2.40	2.40	2.40	
2 1/2"	2.12	0	1.65	1.66	1.65	1.73	1.71	0.20	2.12	2.12	2.55	2.55	2.55	2.55	2.55	
2 3/4"	2.25	0	1.75	1.76	1.75	1.83	1.81	0.21	2.25	2.25	2.70	2.70	2.70	2.70	2.70	
3"	2.37	0	1.85	1.86	1.85	1.93	1.91	0.22	2.37	2.37	2.85	2.85	2.85	2.85	2.85	
3 1/8"	2.50	0	1.95	1.96	1.95	2.03	2.01	0.23	2.50	2.50	3.00	3.00	3.00	3.00	3.00	
3 1/4"	2.62	0	2.05	2.06	2.05	2.13	2.11	0.24	2.62	2.62	3.15	3.15	3.15	3.15	3.15	
3 1/2"	2.75	0	2.15	2.16	2.15	2.23	2.21	0.25	2.75	2.75	3.30	3.30	3.30	3.30	3.30	
3 3/4"	2.87	0	2.25	2.26	2.25	2.33	2.31	0.26	2.87	2.87	3.45	3.45	3.45	3.45	3.45	
Tolerance on Length: 0.0015 in./in. (0.038 mm/mm)																

METRIC • HEX HEAD BOLTS, PRODUCT GRADE B												mm (in.)	
Nominal Size	Thread Length	K		M		T		G		F		X	
		Threaded Length	Max. Force	Max. Force	Max. Force	Max. Force	Max. Force	Max. Force	Max. Force	Max. Force	Max. Force		
M10	2	1.6	6.8	2.2	17.7	2	20	15.8	9.9	2.0	20.6	26.0	5.8
M10	2.5	1.6	6.8	2.2	17.7	4	27.7	12.9	12.9	3.0	21.0	26.0	6.3
M10	3	1.6	6.8	2.2	17.7	6	34.7	12.9	12.9	4.0	21.0	26.0	6.3
M10	3.5	1.6	6.8	2.2	17.7	8	41.7	12.9	12.9	5.0	21.0	26.0	6.3
M10	4	1.6	6.8	2.2	17.7	10	48.7	12.9	12.9	6.0	21.0	26.0	6.3
M10	5	1.6	6.8	2.2	17.7	12	55.7	12.9	12.9	7.0	21.0	26.0	6.3
M10	6	1.6	6.8	2.2	17.7	14	62.7	12.9	12.9	8.0	21.0	26.0	6.3
M10	7	1.6	6.8	2.2	17.7	16	69.7	12.9	12.9	9.0	21.0	26.0	6.3
M10	8	1.6	6.8	2.2	17.7	18	76.7	12.9	12.9	10.0	21.0	26.0	6.3
M10	9	1.6	6.8	2.2	17.7	20	83.7	12.9	12.9	11.0	21.0	26.0	6.3
M10	10	1.6	6.8	2.2	17.7	22	90.7	12.9	12.9	12.0	21.0	26.0	6.3
M10	12	1.6	6.8	2.2	17.7	26	104.7	12.9	12.9	14.0	21.0	26.0	6.3
M10	15	1.6	6.8	2.2	17.7	32	128.7	12.9	12.9	17.0	21.0	26.0	6.3
M10	18	1.6	6.8	2.2	17.7	38	152.7	12.9	12.9	20.0	21.0	26.0	6.3
M10	20	1.6	6.8	2.2	17.7	44	176.7	12.9	12.9	23.0	21.0	26.0	6.3
M10	25	1.6	6.8	2.2	17.7	55	220.7	12.9	12.9	28.0	21.0	26.0	6.3
M10	30	1.6	6.8	2.2	17.7	66	264.7	12.9	12.9	33.0	21.0	26.0	6.3
M10	35	1.6	6.8	2.2	17.7	77	308.7	12.9	12.9	38.0	21.0	26.0	6.3
M10	40	1.6	6.8	2.2	17.7	88	352.7	12.9	12.9	43.0	21.0	26.0	6.3
M10	45	1.6	6.8	2.2	17.7	99	396.7	12.9	12.9	48.0	21.0	26.0	6.3
M10	50	1.6	6.8	2.2	17.7	110	440.7	12.9	12.9	53.0	21.0	26.0	6.3
M10	55	1.6	6.8	2.2	17.7	121	484.7	12.9	12.9	58.0	21.0	26.0	6.3
M10	60	1.6	6.8	2.2	17.7	132	528.7	12.9	12.9	63.0	21.0	26.0	6.3
M10	65	1.6	6.8	2.2	17.7	143	572.7	12.9	12.9	68.0	21.0	26.0	6.3
M10	70	1.6	6.8	2.2	17.7	154	616.7	12.9	12.9	73.0	21.0	26.0	6.3
M10	75	1.6	6.8	2.2	17.7	165	660.7	12.9	12.9	78.0	21.0	26.0	6.3
M10	80	1.6	6.8	2.2	17.7	176	704.7	12.9	12.9	83.0	21.0	26.0	6.3
M10	85	1.6	6.8	2.2	17.7	187	748.7	12.9	12.9	88.0	21.0	26.0	6.3
M10	90	1.6	6.8	2.2	17.7	198	792.7	12.9	12.9	93.0	21.0	26.0	6.3
M10	95	1.6	6.8	2.2	17.7	209	836.7	12.9	12.9	98.0	21.0	26.0	6.3
M10	100	1.6	6.8	2.2	17.7	220	880.7	12.9	12.9	103.0	21.0	26.0	6.3
M10	110	1.6	6.8	2.2	17.7	242	970.7	12.9	12.9	113.0	21.0	26.0	6.3
M10	120	1.6	6.8	2.2	17.7	264	1060.7	12.9	12.9	123.0	21.0	26.0	6.3
M10	130	1.6	6.8	2.2	17.7	286	1150.7	12.9	12.9	133.0	21.0	26.0	6.3
M10	140	1.6	6.8	2.2	17.7	308	1240.7	12.9	12.9	143.0	21.0	26.0	6.3
M10	150	1.6	6.8	2.2	17.7	330	1330.7	12.9	12.9	153.0	21.0	26.0	6.3
M10	160	1.6	6.8	2.2	17.7	352	1420.7	12.9	12.9	163.0	21.0	26.0	6.3
M10	170	1.6	6.8	2.2	17.7	374	1510.7	12.9	12.9	173.0	21.0	26.0	6.3
M10	180	1.6	6.8	2.2	17.7	396	1600.7	12.9	12.9	183.0	21.0	26.0	6.3
M10	190	1.6	6.8	2.2	17.7	418	1690.7	12.9	12.9	193.0	21.0	26.0	6.3
M10	200	1.6	6.8	2.2	17.7	440	1780.7	12.9	12.9	203.0	21.0	26.0	6.3
M10	210	1.6	6.8	2.2	17.7	462	1870.7	12.9	12.9	213.0	21.0	26.0	6.3
M10	220	1.6	6.8	2.2	17.7	484	1960.7	12.9	12.9	223.0	21.0	26.0	6.3
M10	230	1.6	6.8	2.2	17.7	506	2050.7	12.9	12.9	233.0	21.0	26.0	6.3
M10	240	1.6	6.8	2.2	17.7	528	2140.7	12.9	12.9	243.0	21.0	26.0	6.3
M10	250	1.6	6.8	2.2	17.7	550	2230.7	12.9	12.9	253.0	21.0	26.0	6.3
M10	260	1.6	6.8	2.2	17.7	572	2320.7	12.9	12.9	263.0	21.0	26.0	6.3
M10	270	1.6	6.8	2.2	17.7	594	2410.7	12.9	12.9	273.0	21.0	26.0	6.3
M10	280	1.6	6.8	2.2	17.7	616	2500.7	12.9	12.9	283.0	21.0	26.0	6.3
M10	290	1.6	6.8	2.2	17.7	638	2590.7	12.9	12.9	293.0	21.0	26.0	6.3
M10	300	1.6	6.8	2.2	17.7	660	2680.7	12.9	12.9	303.0	21.0	26.0	6.3
M10	310	1.6	6.8	2.2	17.7	682	2770.7	12.9	12.9	313.0	21.0	26.0	6.3
M10	320	1.6	6.8	2.2	17.7	704	2860.7	12.9	12.9	323.0	21.0	26.0	6.3
M10	330	1.6	6.8	2.2	17.7	726	2950.7	12.9	12.9	333.0	21.0	26.0	6.3
M10	340	1.6	6.8	2.2	17.7	748	3040.7	12.9	12.9	343.0	21.0	26.0	6.3
M10	350	1.6	6.8	2.2	17.7	770	3130.7	12.9	12.9	353.0	21.0	26.0	6.3
M10	360	1.6	6.8	2.2	17.7	792	3220.7	12.9	12.9	363.0	21.0	26.0	6.3
M10	370	1.6	6.8	2.2	17.7	814	3310.7	12.9	12.9	373.0	21.0	26.0	6.3
M10	380	1.6	6.8	2.2	17.7	836	3400.7	12.9	12.9	383.0	21.0	26.0	6.3
M10	390	1.6	6.8	2.2	17.7	858	3490.7	12.9	12.9	393.0	21.0	26.0	6.3
M10	400	1.6	6.8	2.2	17.7	880	3580.7	12.9	12.9	403.0	21.0	26.0	6.3
M10	410	1.6	6.8	2.2	17.7	902	3670.7	12.9	12.9	413.0	21.0	26.0	6.3
M10	420	1.6	6.8	2.2	17.7	924	3760.7	12.9	12.9	423.0	21.0	26.0	6.3
M10	430	1.6	6.8	2.2	17.7	946	3850.7	12.9	12.9	433.0	21.0	26.0	6.3
M10	440	1.6	6.8	2.2	17.7	968	3940.7	12.9	12.9	443.0	21.0	26.0	6.3
M10	450	1.6	6.8	2.2	17.7	990	4030.7	12.9	12.9	453.0	21.0	26.0	6.3
M10	460	1.6	6.8	2.2	17.7	1012	4120.7	12.9	12.9	463.0	21.0	26.0	6.3
M10	470	1.6	6.8	2.2	17.7	1034	4210.7	12.9	12.9	473.0	21.0	26.0	6.3
M10	480	1.6	6.8	2.2	17.7	1056	4300.7	12.9	12.9	483.0	21.0	26.0	6.3
M10	490	1.6	6.8	2.2	17.7	1078	4390.7	12.9	12.9	493.0	21.0	26.0	6.3
M10	500	1.6	6.8	2.2	17.7	1100	4480.7	12.9	12.9	503.0	21.0	26.0	6.3
M10	510	1.6	6.8	2.2	17.7	1122	4570.7	12.9	12.9	513.0	21.0	26.0	6.3
M10	520	1.6	6.8	2.2	17.7	1144	4660.7	12.9	12.9	523.0	21.0	26.0	6.3
M10	530	1.6	6.8	2.2	17.7	1166	4750.7	12.9	12.9	533.0	21.0	26.0	6.3
M10	540	1.6	6.8	2.2	17.7	1188	4840.7	12.9	12.9	543.0	21.0	26.0	6.3
M10	550	1.6	6.8	2.2	17.7	1210	4930.7	12.9	12.9	553.0	21.0	26.0	6.3
M10	560	1.6	6.8	2.2	17.7	1232	5020.7	12.9	12.9	563.0	21.0	26.0	6.3
M10	570	1.6	6.8	2.2	17.7	1254	5110.7	12.9	12.9	573.0	21.0	26.0	6.3
M10	580	1.6	6.8	2.2	17.7	1276	5200.7	12.9	12.9	583.0	21.0	26.0	6.3
M10	590	1.6	6.8	2.2	17.7	1298	5290.7	12.9	12.9	593.0	21.0	26.0	6.3
M10	600	1.6	6.8	2.2	17.7	1320	5380.7	12.9	12.9	603.0	21.0	26.0	6.3
M10	610	1.6	6.8	2.2	17.7	1342	5470.7	12.9	12.9	613.0	21.0	26.0	6.3
M10	620	1.6	6.8	2.2	17.7	1364	5560.7	12.9	12.9	623.0	21.0	26.0	6.3
M10	630	1.6	6.8	2.2	17.7	1386	5650.7	12.9	12.9	633.0	21.0	26.0	6.3
M10	640	1.6	6.8	2.2	17.7	1408	5740.7	12.9	12.9	643.0	21.0	26.0	6.3
M10	650	1.6	6.8	2.2	17.7	1430	5830.7	12.9	12.9	653.0	21.0	26.0	6.3
M10	660	1.6	6.8	2.2	17.7	1452	5920.7	12.9	12.9	663.0	21.0	26.0	6.3
M10	670	1.6	6.8	2.2	17.7	1474	6010.7	12.9	12.9	673.0	21.0	26.0	6.3
M10	680	1.6	6.8	2.2	17.7	1496	6100.7	12.9	12.9	683.0	21.0	26.0	6.3
M10	690	1.6	6.8	2.2	17.7	1518	6190.7	12.9	12.9	693.0	21.0	26.0	6.3
M10	700	1.6	6.8	2.2	17.7	1540	6280.7	12.9	12.9	703.0	21.0	26.0	6.3
M10	710	1.6	6.8	2.2	17.7	1562	6370.7	12.9	12.9	713.0	21.0	26.0	6.3
M10	720	1.6	6.8	2.2	17.7	1584	6460.7	12.9	12.9	723.0	21.0	26.0	6.3
M10	730	1.6	6.8	2.2	17.7	1606	6550.7	12.9	12.9	733.0	21.0	26.0	6.3
M10	740	1.6	6.8	2.2	17.7	1628	6640.7	12.9	12.9	743.0	21.0	26.0	6.3
M10	750	1.6	6.8	2.2	17.7	1650	6730.7	12.9	12.9	753.0	21.0	26.0	6.3
M10	760	1.6	6.8	2.2	17.7	1672	6820.7	12.9	12.9	763.0	21.0	26.0	6.3
M10	770	1.6	6.8	2.2	17.7	1694	6910.7	12.9	12.9	773.0	21.0	26.0	6.3
M10	780	1.6	6.8	2.2	1								

In German DIN 931: M1,6 to M39 Hexagon head bolts (Product grades A and B)(1987) IS 9519: Fasteners - Hexagon products - Width across flats, Indian standard (2013) Metric screw thread profile, dimensions and tolerances Retrieved from "You're Reading a Free Preview Page 2 is not shown in this preview