

Metric Hexagon Precision Bolts & Set Screws

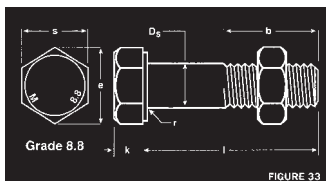


Table 41

Size D	Pitch of Thread	Body Diameter Ds		Width Across Flats s		Head Thickness k		Across Corners e Min.
		Max.	Min.	Max.	Min.	Max.	Min.	
M5	0.8	5.0	4.82	8.0	7.78	3.65	3.35	8.79
M6	1.0	6.0	5.82	10.0	9.78	4.15	3.85	11.06
M8	1.25	8.0	7.78	13.0	12.73	5.45	5.15	14.38
M10	1.5	10.0	9.78	16.0	15.73	6.58	6.22	17.77
M12	1.75	12.0	11.73	18.0	17.73	7.68	7.32	20.03
M16	2.0	16.0	15.73	24.0	23.67	10.18	9.82	26.75
M20	2.5	20.0	19.67	30.0	29.67	12.72	12.28	33.53
M24	3.0	24.0	23.67	36.0	35.38	15.22	14.78	39.98

All dimensions in millimetres.

Table 42 Standard thread lengths for bolts.
Screws are threaded to head.

Nominal Length of Bolt <i>l</i>	Minimum Length of Thread <i>b</i>
Up to and including 125mm	2D + 6mm
Over 125 up to and including 200mm	2D + 12mm
Over 200mm	2D + 25mm

Where *D* = Nominal diameter in millimetres

Note: Property Classes 5.8 and 10.9 are dimensionally the same as Property Class 8.8

Thread ISO Metric Coarse Pitch Series, Thread Class 8g, Property Class 8.8 Dimensions to AS 1111

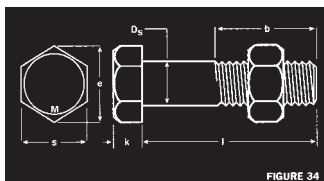


Table 43

Size D	Pitch of Thread	Body Diameter (On Bolts) Ds		Width Across Flats s		Head Thickness k		Across Corners e
		Max.	Min.	Max.	Min.	Max.	Min.	
M6	1.0	6.48	5.52	10.0	9.64	4.38	3.62	10.89
M8	1.25	8.58	7.42	13.0	12.57	5.68	4.92	14.20
M10	1.5	10.58	9.42	16.0	15.57	6.85	5.95	17.59
M12	1.75	12.70	11.30	18.0	17.57	7.95	7.05	19.85
M16	2.0	16.70	15.30	24.0	23.16	10.75	9.25	26.17
M20	2.5	20.84	19.16	30.0	29.16	13.40	11.60	32.95
M24	3.0	24.84	23.16	36.0	35.00	15.90	14.10	39.55
M30	3.5	30.84	29.16	46.0	45.00	19.75	17.65	50.85
M36	4.0	37.00	35.00	55.0	53.80	23.55	21.45	60.79

All dimensions in millimetres.

Table 44 Standard thread lengths for bolts. Screws are threaded to head

Nominal Length of Bolt l	Minimum Length of Thread b
Up to and including 125mm	2D + 6
Over 125mm up to and including 200mm	2D + 12
Over 200mm	2D + 25

Where D = Nominal diameter in millimetres

For nut dimensions refer to page 14