

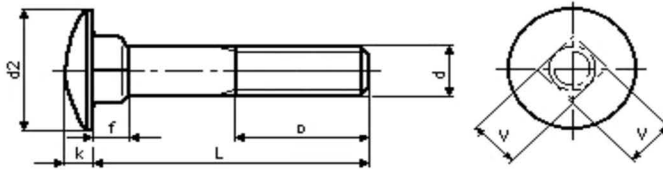
Thread Size d1	DIN 603	M5	M6	M8	M10	M12	M16	M20
Thread Pitch		0.8	1	1.25	1.5	1.75	2	2.5
Thread Length b1	For Lengths ≤125mm	16	18	22	26	30	38	46
	For Lengths >125mm≤200mm	22	24	28	32	36	44	52
	For Lengths >200 mm		37	41	45	49	57	65
Head Dia. d2	min.	12.45	15.45	19.35	23.35	29.35	37.20	45.20
	max.	13.55	16.55	20.65	24.65	30.65	38.80	46.80
Head Height k	min.	2.70	3.12	4.12	4.62	6.05	8.05	9.95
	max.	3.30	3.88	4.88	5.38	6.95	8.95	11.05
Square Depth f	min.	2.90	3.40	4.40	5.40	7.25	11.10	14.10
	max.	4.10	4.60	5.60	6.60	8.75	12.90	15.90
Square AF v	min.	4.52	5.52	7.42	9.42	11.30	15.30	19.16
	max.	5.48	6.48	8.58	10.58	12.70	16.70	20.84

Thread Size d1	ISO 8677 (Large Head)	M5	M6	M8	M10	M12	M16	M20
Thread Pitch		0.8	1	1.25	1.5	1.75	2	2.5
Thread Length b1	For Lengths ≤125mm	16	18	22	26	30	38	46
	For Lengths >125mm≤200mm	22	24	28	32	36	44	52
	For Lengths >200 mm		37	41	45	49	57	65
Head Dia. d2	min.	11.90	14.90	18.70	22.70	28.70	36.40	44.40
	max. = nom.	13.00	16.00	20.00	24.00	30.00	38.00	46.00
Head Height k	min.	2.50	3.00	4.00	5.00	6.00	8.00	10.00
	max.	3.10	3.60	4.80	5.80	6.80	8.90	10.90
Square Depth f	min.	2.90	3.40	4.40	5.40	7.20	11.10	14.10
	max.	4.10	4.60	5.60	6.60	8.80	12.90	15.90
Square AF v	min.	4.52	5.52	7.42	9.42	11.30	15.30	19.16
	max.	5.48	6.48	8.58	10.58	12.70	16.70	20.84

Thread Size d1	ISO 8678 & ASME B18.5.2.1M Small Head/Short Neck	M6	M8	M10	M12	(M14) ASME Only	M16	M20
Thread Pitch		1	1.25	1.5	1.75	2	2	2.5
Thread Length b1	For Lengths ≤125mm	18	22	26	30	34	38	46
	For Lengths >125mm≤200mm	24	28	32	36	40	44	52
	For Lengths >200 mm	37	41	45	49	53	57	65
Head Dia. d2	min.	No Head Diameter minimum specified in ISO 8678 and or ASME B18.5.2.1M						
	max.	14.20	18.00	22.30	26.60	30.50	35.00	43.00
Head Height k	min.	3.00	4.00	5.00	6.00	7.00	8.00	10.00
	max.	3.60	4.80	5.80	6.80	7.90	8.90	10.90
Square Depth f (Short Neck)	min.	2.40	2.40	3.20	3.20	3.20	4.20	4.20
	max.	3.00	3.00	4.00	4.00	4.00	5.00	5.00
Square AF v	min.	5.88	7.85	9.85	11.82	13.82	15.82	19.79
	max.	6.48	8.58	10.58	12.70	14.70	16.70	20.84

FOR MORE DETAILED INFORMATION, PLEASE REFER TO COMPLETE DIN, ISO OR ASME STANDARD, WHICH ARE THE GOVERNING STANDARDS

DIN 603 (1981) / ISO 8677 (1986) / ISO 8678 (1988) / ASME B 18.5.2.4M (1996) - LFG 10/01/10 REVISED



Nominal Length	Length Tolerance By Standard									
	DIN 603		ISO 8677		ISO 8678		ASME B18.5.2.1M			
	min.	max.		min.	max.	min.	max.		min.	max.
12						11.10	12.90		11.10	12.90
(14)						13.10	14.90			
16	15.10	16.90				15.10	16.90		15.10	16.90
20	18.95	21.05		19.0	21.0	18.95	21.05		18.95	21.05
25	23.95	26.05		24.0	26.0	23.95	26.05		23.95	26.05
30	28.95	31.05		29.0	31.0	28.95	31.05		28.95	31.05
35	33.75	36.25		33.7	36.3	33.75	36.25		33.75	36.25
40	38.75	41.25		38.7	41.3	38.75	41.25		38.75	41.25
45	43.75	46.25		43.7	46.3	43.75	46.25		43.75	46.25
50	48.75	51.25		48.7	51.3	48.75	51.25		48.75	51.25
(55)	53.50	56.50		53.5	56.5	53.50	56.50		53.50	56.50
60	58.50	61.50		58.5	61.5	58.50	61.50		58.50	61.50
(65)	63.50	66.50		63.5	66.5	63.50	66.50		63.50	66.50
70	68.50	71.50		68.5	71.5	68.50	71.50		68.50	71.50
(75)	73.50	76.50		73.5	76.5					
80	78.50	81.50		78.5	81.5	78.50	81.50		78.50	81.50
90	88.25	91.75		88.3	91.7	88.25	91.75		88.25	91.75
100	98.25	101.75		98.3	101.7	98.25	101.75		98.25	101.75
110	108.25	111.75		108.3	111.7	108.25	111.75		108.25	111.75
120	118.25	121.75		118.3	121.7	118.25	121.75		118.25	121.75
130	128.00	132.00		128.0	132.0	128.00	132.00		128.00	132.00
140	138.00	142.00		138.0	142.0	138.00	142.00		138.00	142.00
150	148.00	152.00		148.0	152.0	148.00	152.00		148.00	152.00
160	156.00	164.00		156.0	164.0	158.00	162.00		158.00	162.00
180	176.00	184.00		176.0	184.0	177.70	182.30		177.70	182.30
200	195.40	204.60		195.4	204.6	197.70	202.30		197.70	202.30

Mechanical Properties	Diameters & Lengths With () are not recommended for new design.					
Material	3.6	4.6	8.8 ≤ 16mm	8.8 > 16mm	10.9	A2 Stainless
Finish	Plain or Plated					Plain
Tensile Strength	47850 psi	58000 psi	116000 psi	120350 psi	150800 psi	72500-116000 psi
Yield Strength	28710	34800 psi	92800 psi	95700 psi	136300 psi	30450-87000 psi
Hardness	52-99.5 HRB		22-32 HRC	23-34 HRC	32-39 HRC	NA
Thread Tolerance	Plain 6g			Plated 6h		6g

FOR MORE DETAILED INFORMATION, PLEASE REFER TO COMPLETE DIN, ISO OR ASME STANDARD, WHICH ARE THE GOVERNING STANDARDS

DIN 603 (1981) / ISO 8677 (1990) / ISO 8678 / ASME B 18.5.2.1M (1996) - LFG 10/01/10 REVISED