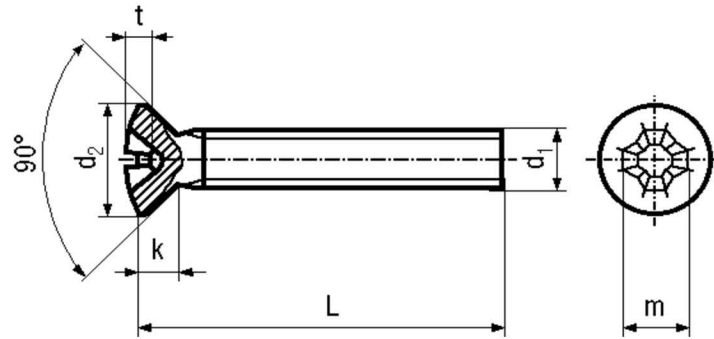




Head Diameter (d2)	Size d1	M1.6		M2		M2.5		M3		(M3.5)		M4		M5		M6		M8		M10	
Standard		min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
DIN 966 (1990)		2.86	3.00	3.50	3.80	4.40	4.70	5.30	5.60	6.14	6.50	7.14	7.50	8.84	9.20	10.57	11.00	14.07	14.50	17.57	18.00
ISO 7047 (1994)		2.70	3.00	3.50	3.80	4.40	4.70	5.20	5.50	6.94	7.30	8.04	8.40	8.94	9.30	10.87	11.30	15.37	15.80	17.78	18.30
JIS B 1111 (1977)		2.80	3.20	3.60	4.00	4.60	5.00	5.50	6.00	6.50	7.00	7.50	8.00	9.40	10.00	11.30	12.00	15.20	16.00		
ANSI B 18.16.7 M (1985)				3.50		4.40		5.20		6.90		8.00		8.90		10.90		15.40		17.80	

Head Height (k)	Size d1	M1.6		M2		M2.5		M3		(M3.5)		M4		M5		M6		M8		M10	
Standard		min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
DIN 966 (1990)			0.96		1.20		1.50		1.65		1.93		2.20		2.50		3.00		4.00		5.00
ISO 7047 (1994)			1.00		1.20		1.50		1.65		2.35		2.70		2.70		3.30		4.65		5.00
JIS B 1111 (1977)		0.85	0.95	1.00	1.20	1.25	1.45	1.45	1.75	1.70	2.00	2.00	2.30	2.50	2.80	3.00	3.40	4.00	4.40		
ANSI B 18.16.7 M (1985)					1.20		1.50		1.70		2.30		2.70		2.70		3.30		4.60		5.00

Cross Recess Size (m)	Size d1	M1.6		M2		M2.5		M3		(M3.5)		M4		M5		M6		M8		M10	
Standard																					
DIN 966 (1990)		0				1						2				3			4		
ISO 7047 (1994)			0				1					2				3			4		
JIS B 1111 (1977)					1						2						3				
ANSI B 18.16.7 M (1985)				0			1				2					3			4		

Cross Recess Penetration (t)	Size d1	M1.6		M2		M2.5		M3		(M3.5)		M4		M5		M6		M8		M10	
Standard		min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
DIN 966 (1990)		0.74	1.10	1.10	1.40	1.30	1.60	1.70	2.00	1.74	2.24	2.04	2.54	2.77	3.27	3.03	3.53	4.18	4.68	5.38	5.88
ISO 7047 (1994)		0.90	1.20	1.20	1.50	1.50	1.85	1.80	2.20	2.25	2.75	2.70	3.20	2.90	3.40	3.50	4.00	4.75	5.25	5.50	6.00
JIS B 1111 (1977)				0.85	1.21	1.34	1.72	1.11	1.63	1.60	2.13	1.99	2.53	2.58	3.13	2.90	3.46	4.66	5.16		
ANSI B 18.16.7 M (1985)				1.40	1.70	1.56	1.96	2.03	2.43	1.93	2.43	2.48	2.98	3.19	3.69	3.55	4.05	4.93	5.53	6.27	6.87

Length Tolerance	DIN966/ISO7047	
Nominal Length	min.	max.
2		
2.5		
3	2.80	3.20
4	3.76	4.24
5	4.76	5.24
6	5.76	6.24
8	7.71	8.29
10	9.71	10.29
12	11.65	12.35
(14)	13.65	14.35
16	15.65	16.35
(18)	17.65	18.35
20	19.58	20.42
(22)	21.58	22.42
25	24.58	25.42
(28)	27.58	28.42
30	29.58	30.42
35	34.50	35.50
40	39.50	40.50
45	44.50	45.50
50	49.50	50.50
(55)	54.05	55.95
60	59.05	60.95
(65)	64.05	65.95
70	69.05	70.95
(75)	74.05	75.95
80	79.05	80.95
90	88.90	91.10

JIS B 1111					
min.	max.	min.	max.	min.	max.
1.7	2.0				
2.7	3.0				
3.7	4.0				
4.6	5.0	4.4	5.0	4.2	5.0
5.6	6.0	5.4	6.0	5.2	6.0
7.6	8.0	7.4	8.0	7.2	8.0
9.6	10.0	9.4	10.0	9.2	10.0
11.4	12.0	11.4	12.0	11.0	12.0
15.4	16.0	15.4	16.0	15.0	16.0
19.4	20.0	19.4	20.0	19.0	20.0
24.2	25.0	24.2	25.0	24.0	25.0
29.2	30.0	29.2	30.0	29.0	30.0
34.2	35.0	34.2	35.0	34.0	35.0
39.2	40.0	39.2	40.0	39.0	40.0
		44.0	45.0	44.0	45.0
		49.0	50.0	49.0	50.0
		54.0	55.0	54.0	55.0
				59.0	60.0
				69.0	70.0
				79.0	80.0
				89.0	90.0

ANSI B 18.16.7 M	
min.	max.
2.3	2.7
2.8	3.2
3.7	4.3
4.7	5.3
5.7	6.3
7.7	8.3
9.7	10.3
11.7	12.3
15.7	16.3
19.5	20.5
24.5	25.5
29.5	30.5
34.5	35.5
39.5	40.5
44.5	45.5
49.5	50.5
54.0	56.0
59.0	61.0
64.0	66.0
69.0	71.0
79.0	81.0
89.0	91.0

Diameters & Lengths With () are not recommended for new design.

Thread Pitch		Thread Tolerance Plain 6g	
Dia.	Pitch	Thread Tolerance Plated 6h	
M1.6	0.35	Thread Tolerance Stainless 6g	
M2	0.4		
M2.5	0.45	Material	4.8 A2 - A4
(M2.6)	0.45	Tensile Strength	60900 72500-101500
M3	0.5		
(M3.5)	0.6	Yield Strength	49300 30450-65250
M4	0.7		
M5	0.8	Hardness	HRB NA
M6	1		
(M8)	1.25		
(M10)	1.5	Steel	Stainless Steel
Property Class		4.8	A2 - A4
Finish		Plain / Plated	Plain

DIN 966 (1990)	Do Not Specify A Minimum Head Height
ISO 7047 (1994)	
ANSI B 18.16.7 M (1985)	

ANSI B 18.16.7 M (1985)	Does Not Specify A Maximum Head Diameter
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For Machine Screws, The Letter A After The DIN Number Indicates Full Thread. Unless Requested, All Machine Screws Are Supplied As Full Thread, Therefore We Omit The A.

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

DIN 966 (1990) / ISO 7047 (1994) / JIS B1111 (1977) / ANSI B 18.16.7 M (1985) - LFG 10/01/2016 REVISED