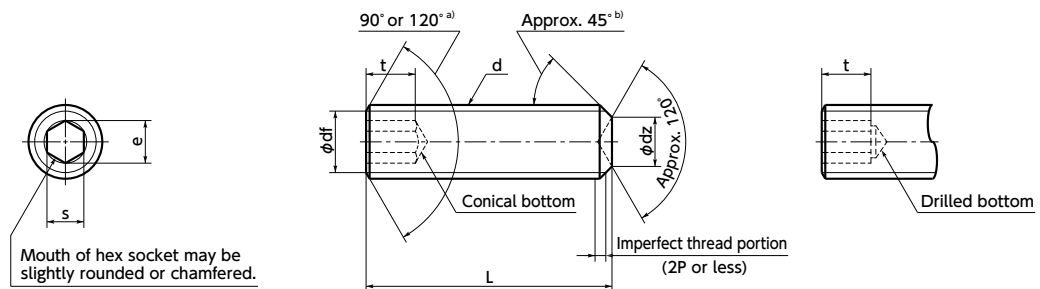


Hexagon Socket Set Screws

Excerpts from JIS B 1177:2007

Hexagon socket set screws - cup point shape and dimensions



Unit: mm

Nominal diameter of thread (d)			M1.6	M2	M2.5	M3	M4	M5	M6	M8	M10	M12	M16	M20	M24
p ^{c)}			0.35	0.4	0.45	0.5	0.7	0.8	1	1.25	1.5	1.75	2	2.5	3
dz	Max.		0.8	1	1.2	1.4	2	2.5	3	5	6	8	10	14	16
	Min.		0.55	0.75	0.95	1.15	1.75	2.25	2.75	4.7	5.7	7.64	9.64	13.57	15.57
df			Root diameter of almost male screw												
e ^{d),e)}		Min.	0.809	1.011	1.454	1.733	2.303	2.873	3.443	4.583	5.723	6.863	9.149	11.42	13.71
s	Nominal Diameter		0.7	0.9	1.3	1.5	2	2.5	3	4	5	6	8	10	12
	Max.		0.724	0.913	1.300	1.58	2.08	2.58	3.08	4.095	5.14	6.14	8.175	10.17	12.21
	Min.		0.71	0.887	1.275	1.52	2.02	2.52	3.02	4.02	5.02	6.02	8.025	10.02	12.03
t	Min.	^{f)}	0.7	0.8	1.2	1.2	1.5	2	2	3	4	4.8	6.4	8	10
		^{g)}	1.5	1.7	2	2	2.5	3	3.5	5	6	8	10	12	15
L															
Nominal length	Min.	Max.	(Reference) Rough mass per 1000 pieces / unit kg (Density: 7.85kg/dm ³)												
2	1.8	2.2	0.019	0.029											
2.5	2.3	2.7	0.025	0.037	0.063										
3	2.8	3.2	0.029	0.044	0.075	0.1									
4	3.76	4.24	0.037	0.059	0.1	0.14	0.23								
5	4.76	5.24	0.046	0.074	0.125	0.18	0.305	0.42							
6	5.76	6.24	0.054	0.089	0.15	0.22	0.38	0.54	0.74						
8	7.71	8.29	0.07	0.119	0.199	0.3	0.53	0.78	1.09	1.88					
10	9.71	10.2		0.148	0.249	0.38	0.68	1.02	1.44	2.51	3.72				
12	11.6	12.3			0.299	0.46	0.83	1.26	1.79	3.14	4.73	6.7			
16	15.6	16.3				0.62	1.13	1.74	2.49	4.4	6.73	9.5	15.7		
20	19.5	20.4					1.4	2.22	3.19	5.66	8.72	12.3	20.9	31.1	
25	24.5	25.4						2.82	4.07	7.24	11.2	15.8	27.4	41.4	55.2
30	29.5	30.4							4.94	8.81	13.7	19.3	33.9	51.7	70.3
35	34.5	35.5								10.4	16.2	22.7	40.4	62	85.3
40	39.5	40.5								12	18.7	26.2	46.9	72.3	100
45	44.5	45.5									21.2	29.7	53.3	82.6	115
50	49.5	50.5									23.6	33.2	59.8	92.6	130
55	54.4	55.6										36.6	66.3	103	145
60	59.4	60.6										40.1	72.8	114	160

Note Recommended nominal length shall be the length in the thick line frame.

a) Nominal length L shown in the stepwise shaded fields of the above table shall be chamfered at 120° .

b) Approx. 45° angle shall be applied to the slope below the root diameter of male screws.

c) P shows pitch of threads.

d) $e_{\min} = 1.14s_{\min}$

e) See JIS B 1016 for gauge inspection of e and s.

f) Shall be applied to threads with shaded nominal length.

g) Shall be applied to threads with non-shaded nominal length.