No guarantee can be given in respect of this translation
In all cases the latest German-language version of the standard shall be taken as authoritative

Hexagon Bolts
without Hexagon Nut – with Hexagon Nut
Type g

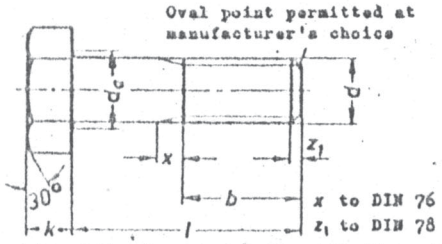
DIN 601

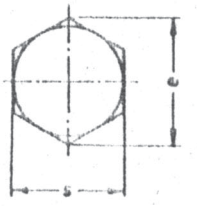
Sechskantschrauben ohne Sechskantmutter – mit Sechskantmutter, Ausführung g

For connection with ISO Recommendations, see Explanations

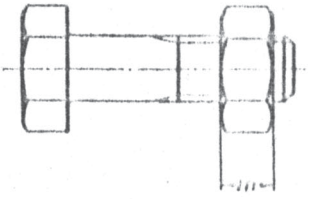
Dimensions in mm

without hexagon nut





with Hexagon nut according to DIN 555 [1])



x to DIN 76
z_1 to DIN 78

Designation of a hexagon bolt with thread d = M 10, length l = 70 mm, without nut:

Hexagon bolt M 10 x 70 DIN 601

Designation of a hexagon bolt with thread d = M 10, length l = 70 mm, with hexagon nut (Mu):

Hexagon bolt M 10 x 70 Mu DIN 601

d	M 5	M 6	M 8	M 10	M 12	M 16	M 20	M 24	(M 27)	M 30	(M 33)	M 36	(M 39)	M 42	(M 45)	M 48	(M 52)
2)	16	18	22	26	30	38	46	54	60	66	72	78	84	90	96	102	–
b 3)	–	–	28	32	36	44	52	60	66	72	78	84	90	96	102	108	116
4)	–	–	–	–	–	57	65	73	79	85	91	97	103	109	115	121	129
d_a max.	6	7,2	10,2	12,2	15,2	19,2	24,4	28,4	32,4	35,4	38,4	42,4	45,4	48,6	52,6	56,6	63
e min.	8,63	10,89	14,20	18,72	20,88	26,17	32,95	39,55	45,20	50,85	55,37	60,79	66,44	72,09	77,74	83,39	89,04
k	3,5	4	5,5	7	8	10	13	15	17	19	21	23	25	26	28	30	33
m	4	5	6,5	8	10	13	16	19	22	24	26	29	31	34	36	38	42
s	8	10	13	17	19	24	30	36	41	46	50	55	60	65	70	75	80
l [4] [5])	Weight with nut (7,85 kg/dm³) kg/1000 pieces ≈																
16	4,48	7,43	15,9	32,1													
20	5,98	8,12	17,1	34,1	48,9												
25	6,60	8,97	18,7	36,6	52,5												
30	7,37	10,1	20,7	39,1	56,1	107	186										
35	8,04	11,2	22,7	42,2	59,7	114	196										
40	8,81	12,3	24,7	45,3	64,1	121	207	347									
45	9,58	13,4	26,7	48,4	68,5	128	217	362									
50	10,3	14,5	28,7	51,5	72,9	136	227	377									
55		15,6	30,7	54,6	77,3	144	238	392									
60		16,7	32,7	57,7	81,7	152	251	407	570								
65		17,8	34,7	60,8	86,1	160	264	422	589								
70		18,9	36,7	63,9	90,5	168	277	440	608								
75		20,0	38,7	67,0	95,0	176	290	458	630								
80		21,1	40,7	70,1	100	182	303	474	653	853	1080						
90			44,7	76,3	109	198	329	511	698	908	1150						
100			48,7	82,5	118	214	355	547	743	963	1220	1520	1870				
110				88,7	127	230	381										
120				94,9	136	246	407	618	833	1070	1350	1680	2060	2450			
130				101	145	262	433										
140				107	154	278	459	689	923	1180	1480	1840	2250	2670	3160		
150				113	163	294	485	725	968	1230	1550	1920	2340	2780	3280	3800	
160				119	172	310	501	760	1010	1290	1620	2000	2430	2890	3400	4000	
170				125	181	326	527										
180				131	190	342	553	831	1100	1400	1750	2160	2620	3110	3650	4230	5130
190				137	199	358	579										
200				143	208	374	605	902	1190	1510	1880	2320	2810	3330	3900	4520	5430
Weight of nut kg/1000 pieces ≈	1,11	2,32	4,82	10,9	15,9	30,8	60,3	103	154	216	271	369	472	610	750	924	1150

Bolts without nuts up to M 24 in lengths above the stepped line are to be ordered according to DIN 558.

Bracketed sizes should be avoided wherever possible.

Normally these bolts are manufactured in the sizes characterized by the specified weights. Sizes where the weights are quoted in bold type are generally kept as normal stock because of their frequency of use.

[1]) to [6]) see page 2

Continued on page 2
Explanations on page 2

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Technical conditions of delivery according to DIN 267

Strength category (material): 3.6 or 4.6 (at manufacturer's choice) according to DIN 267 Sheet 3

Type: 8 according to DIN 267 Sheet 2
If surface protection is required, the designation must be augmented according to DIN 267 Sheet 9.

If, in an exceptional case, one of the types B, S or Sk permitted by DIN 962 is specified, this shall be indicated at the time of ordering. For examples of designation, see DIN 962.

[1]) When the bolts are packaged in counted quantities the nuts are supplied loose.

[2]) For lengths up to 120 mm

[3]) For lengths of 130 to 200 mm

[4]) For lengths above 200 mm

[5]) Lengths above 200 mm should be graduated in steps of 20 mm.

[6]) For lengths above the stepped line b ≈ l - a| a according to DIN 76

Explanations

This Standard agrees essentially with the following ISO Recommendations issued by the International Organization for Standardization (ISO):

ISO/R 272-1968

Hexagon bolts and nuts, widths across flats, heights of heads, thicknesses of nuts, metric series
Boulons et écrous hexagonaux, surplats, hauteurs de tête, hauteurs d'écrous, série métrique

ISO/R 755-1968

Hexagon bolts and nuts, metric series
Tolerances on widths across flats, widths across corners

Boulons à tête hexagonale et écrous hexagonaux, série métrique
Tolérances des surplats, surangles

ISO/R 855-1968

Bolts and screws, radii under the head for general purpose bolts and screws, metric series
Vis et boulons, rayon d'arrondi sous tête de vis et boulons pour application générale, série métrique

ISO/R 888-1968

Nominal lengths for bolts, screws and studs
Thread lengths for general purpose bolts

Longueurs de tige nominales des vis, boulons et goujons
Longueurs filetées des boulons d'application générale