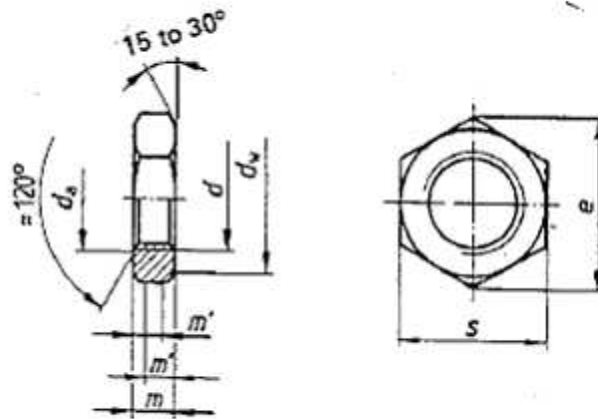

M 8 to M 52 and M 8 × 1 to M 52 × 3
hexagon thin nuts
Product grades A and B

2 Dimensions



m' is the minimum wrenching height.

Thread size <i>d</i>	M 8	M 10	M 12	M 14	M 16*	M 18*	M 20	M 22	M 24	
	M 8 × 1	M 10 × 1	M 12 × 1,25	M 14 × 1,5	M 16 × 1,5	M 18 × 1,5	M 20 × 1,5	M 22 × 1,5	M 24 × 1,5	
	-	M 10 × 1,25	M 12 × 1,5	-	-	M 18 × 2	M 20 × 2	M 22 × 2	M 24 × 2	
<i>P</i> ¹⁾	1,25	1,5	1,75	2	2	2,5	2,5	2,5	3	
<i>d_n</i>	min.	8	10	12	14	16	18	20	22	24
	max.	8,75	10,8	13	15,1	17,3	19,5	21,6	23,7	25,9
<i>d_w</i> min.	11,3	15,3	17,2	20,2	22,2	25,3	28,2	29,5	33,2	
<i>e</i> min.	14,38	18,90	21,1	24,49	26,75	29,56	32,95	35,03	39,55	
<i>m</i>	max. = nominal dimension	5	6	7	8	8	9	9	10	10
	min.	4,7	5,7	6,64	7,42	7,42	8,42	8,1	9,1	9,1
<i>m'</i> min.	3,8	4,6	5,3	5,9	5,9	6,7	6,5	7,3	7,3	
<i>s</i>	max. = nominal dimension	13	17	19	22	24	27	30	32	36
	min.	12,73	16,73	18,67	21,67	23,67	26,16	29,16	31	35
Mass (7,85 kg/dm ³), in kg per 1000 units [≈]	4	8,6	12,1	16,2	20,1	29,6	36,3	43,8	58	

Thread size <i>d</i>	M 27	M 30	M 33	M 36	M 39	M 42	(M 45)	M 48	M 52	
	M 27 × 1,5	M 30 × 1,5	M 33 × 1,5	M 36 × 1,5	M 39 × 1,5	M 42 × 1,5	M 45 × 1,5	M 48 × 1,5	M 52 × 1,5	
	M 27 × 2	M 30 × 2	M 33 × 2	M 36 × 2	M 39 × 2	M 42 × 2	M 45 × 2	M 48 × 2	M 52 × 2	
	-	-	-	M 36 × 3	M 39 × 3	M 42 × 3	M 45 × 3	M 48 × 3	M 45 × 3	
<i>P</i> ¹⁾	3	3,5	3,5	4	4	4,5	4,5	5	5	
<i>d_n</i>	min.	27	30	33	36	39	42	45	48	52
	max.	29,1	32,4	35,6	38,9	42,1	45,4	48,6	51,8	56,2
<i>d_w</i> min.	38	42,7	46,6	51,1	55,9	60,6	64,7	69,4	74,2	
<i>e</i> min.	46,20	50,66	55,37	60,79	66,44	71,3	76,95	82,60	88,25	
<i>m</i>	max. = nominal dimension	12	12	14	14	16	16	18	18	20
	min.	10,9	10,9	12,9	12,9	14,9	14,9	16,9	16,9	18,7
<i>m'</i> min.	8,7	8,7	10,3	10,3	11,9	11,9	13,5	13,5	15	
<i>s</i>	max. = nominal dimension	41	46	50	55	60	65	70	75	80
	min.	40	45	49	53,8	58,8	63,1	68,1	73,1	78,1
Mass (7,85 kg/dm ³), in kg per 1000 units [≈]	90	110	155	190	260	307	400	460	580	
*) These sizes may also be ordered in accordance with DIN 439 Part 2.										
1) <i>P</i> = pitch of coarse thread.										

Material	Steel	Stainless steel	Nonferrous metal	
General requirements	As in DIN 267 Part 1.			
Thread	Tolerance zone	6H		
	Standard	DIN 13 Part 15		
Mechanical properties ²⁾	Property class (material)	\leq M 18: 04, 05; $>$ M 18: 17H, 22H.	\leq M 20: A 2-70; $>$ M 20 \leq M 39: A 2-50; $>$ M 39: subject to agreement.	CuZn = copper-zinc alloy ¹⁾ ;
	Standard	ISO 898 Part 2 DIN 267 Part 24	DIN 267 Part 11	DIN 267 Part 18
Permissible dimensional deviations and deviations of form	Product grade	\leq M 16: A (previously m); $>$ M 16: B (previously mg).		
	Standard	ISO 4759 Part 1		
Surface	<p>As processed.</p> <p>Bright.</p> <p>Bright.</p> <p>DIN 267 Part 2 shall apply with regard to surface roughness. DIN 267 Part 21 shall apply with regard to the widening test. DIN 267 Part 20 shall apply with regard to permissible surface discontinuities. DIN 267 Part 9 shall apply with regard to electroplating. DIN 267 Part 10 shall apply with regard to hot dip galvanizing.</p>			
Acceptance inspection	DIN 267 Part 5 shall apply with regard to the acceptance inspection.			
¹⁾ Preferably CU2 or CU3 (as specified in DIN 267 Part 18), at the manufacturer's discretion. ²⁾ Other property classes or materials or a particular material grade, e.g. CU3, are subject to agreement.				