

Conical spring washers for bolt/nut assemblies

DIN 6796

Spannscheiben für Schraubenverbindungen

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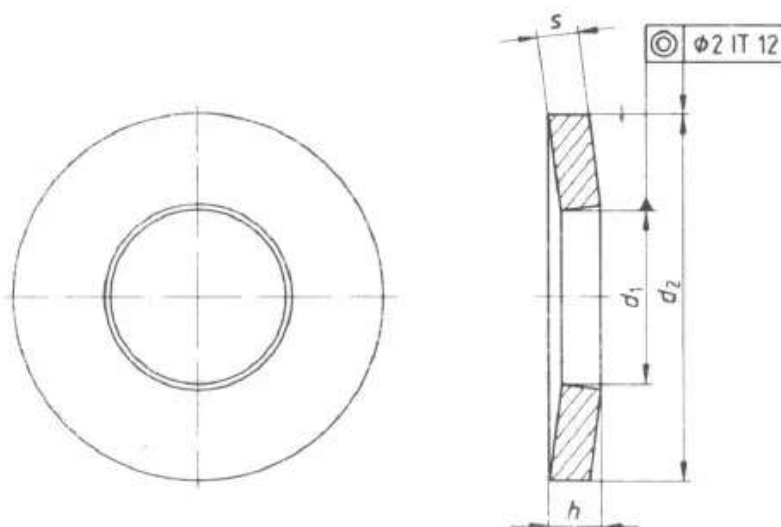
In keeping with current practice in standards published by the International Organization for Standardization (ISO), a comma has been used throughout as the decimal marker.

Dimension in mm

1 Scope and field of application

Conical spring washers covered in this standard are deemed to be spring washers designed for use for bolt/nut assemblies involving bolts of property classes 8.8 to 10.9 as specified in ISO 898 Part 1. They are intended to counteract the effect of setting which results in bolt/nut assemblies working loose (see DIN 267 Part 26). They do not effectively prevent loosening of the assembly under varying radial load and are designed for use with short bolts predominantly subject to thrust.

2 Dimensions



Nominal size	d_1	d_2	s	h		Mass (7,85 kg/dm ³) per 1000 units, in kg, ≈	For thread size
	H14	h14	3)	max. 1)	min. 2)		
2 ⁴⁾	2,2	5	0,4	0,6	0,5	0,05	2
2,5 ⁴⁾	2,7	6	0,5	0,72	0,61	0,09	2,5
3 ⁴⁾	3,2	7	0,6	0,85	0,72	0,14	3
3,5 ⁴⁾	3,7	8	0,8	1,06	0,92	0,25	3,5
4	4,3	9	1	1,3	1,12	0,38	4
5	5,3	11	1,2	1,55	1,35	0,69	5
6	6,4	14	1,5	2	1,7	1,43	6
7	7,4	17	1,75	2,3	2	2,53	7
8	8,4	18	2	2,6	2,24	3,13	8
10	10,5	23	2,5	3,2	2,8	6,45	10
12	13	29	3	3,95	3,43	12,4	12
14	15	35	3,5	4,65	4,04	21,6	14
16	17	39	4	5,25	4,58	30,4	16
18	19	42	4,5	5,8	5,08	38,9	18
20	21	45	5	6,4	5,6	48,8	20
22	23	49	5,5	7,05	6,15	63,5	22
24	25	56	6	7,75	6,77	92,9	24
27	28	60	6,5	8,35	7,3	113	27
30	31	70	7	9,2	8	170	30

1) Maximum size at delivery.

2) Minimum size after test for permanent set as specified in DIN 267 Part 26.

3) See DIN 1544 for limit deviations for s not exceeding 6 mm and DIN 1543 for s exceeding 6 mm.

4) Test values for the spring force test as described in DIN 267 Part 26 have not as yet been specified for this nominal size.

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