

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION R 887

WASHERS FOR HEXAGON BOLTS AND NUTS

METRIC SERIES

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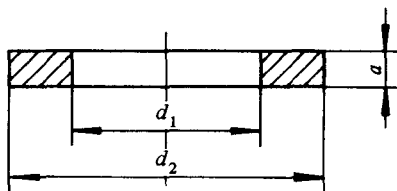


TABLE 1 – Washers for hexagon bolts and nuts
up to and including 39 mm thread diameter

Dimensions in millimetres

Clearance hole* d_1		Diameter of the washer d_2 for widths across flats			Thickness of the washer a	For hexagon bolts and nuts**			
fine series	medium series	normal	small	large		thread diameter	widths across flats		
1.7	—	4	—	—	0.3	1.6	3.2	—	—
2.2	—	5	—	—	0.3	2	4	—	—
2.7	—	6.5	—	—	0.5	2.5	5	—	—
3.2	—	7	—	—	0.5	3	5.5	—	—
4.3	—	9	—	—	0.8	4	7	—	—
5.3	5.5	10	—	—	1	5	8	—	—
6.4	6.6	12.5	—	—	1.6	6	10	—	—
7.4	7.6	14	—	—	1.6	7	11	—	—
8.4	9	17	15.5	21	1.6	8	13	12	17
10.5	11	21	18	24	2	10	17	14	19
13	14	24	21	28	2.5	12	19	17	22
15	16	28	24	30	2.5	14	22	19	24
17	18	30	28	34	3	16	24	22	27
19	20	34	30	37	3	18	27	24	30
21	22	37	34	39	3	20	30	27	32
23	24	39	37	44	3	22	32	30	36
25	26	44	39	50	4	24	36	32	41
28	30	50	44	56	4	27	41	36	46
31	33	56	50	60	4	30	46	41	50
34	36	60	56	66	5	33	50	46	55
37	39	66	60	72	5	36	55	50	60
40	42	72	66	78	6	39	60	55	65

* These clearance holes conform to ISO Recommendation R 273, Part I : *Clearance holes for metric bolts 1.6 up to and including 39 mm thread diameter.*

** The hexagon bolts and nuts conform to ISO Recommendation R 272, *Hexagon bolts and nuts – Widths across flats, heights of heads, thicknesses of nuts* (2nd edition, 1968).