

Dimensions for washers and rings



Sealing washers (plain)

DIN	Dimensions	4 x 8	5 x 7.5	5 x 9*	5.5 x 8	6 x 10 *	6.5 x 9.5	6.5 x 11 *	8 x 11.5
7603 A **	d ₁	4.2	5.2	5.2	5.7	6.2	6.7	6.7	8.2
	d ₂	7.9	7.4	8.9	7.9	9.9	9.4	10.9	11.4
	h	1	1	1	1	1	1	1	1
	Dimensions	8 x 12 *	8 x 14	10 x 13.5	10 x 14 *	10 x 15 *	10 x 16	10 x 18	12 x 15.5
	d ₁	8.2	8.2	10.2	10.2	10.2	10.2	10.2	12.2
	d ₂	11.9	13.9	13.4	13.9	14.9	15.9	17.9	15.4
	h	1/1.5	1	1	1/1.5	1	1	1.5	1.5
	Dimensions	12 x 16	12 x 17 *	12 x 18 *	13 x 18 *	14 x 18	14 x 20	15 x 19	16 x 20
	d ₁	12.2	12.2	12.2	13.2	14.2	14.2	15.2	16.2
	d ₂	15.9	16.9	17.9	17.9	17.9	19.9	18.9	19.9
	h	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	Dimensions	16 x 22 *	17 x 21	17 x 23 *	18 x 22	20 x 24	21 x 26	22 x 27	22 x 29 *
	d ₁	16.2	17.2	17.2	18.2	20.2	21.2	22.2	22.2
	d ₂	21.9	20.9	22.9	21.9	23.9	25.9	26.9	28.9
	h	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	Dimensions	23 x 28	24 x 29	24 x 32	26 x 31	26 x 34 *	27 x 32	28 x 33	30 x 36
	d ₁	23.3	24.3	24.3	26.3	26.3	27.3	28.3	30.3
	d ₂	27.9	28.9	31.9	30.9	33.9	31.9	32.9	35.9
h	2	2	2	2	2	2	2	2	
Dimensions	32 x 38	33 x 38	33 x 41 *	36 x 42	38 x 44	42 x 49	45 x 52	60 x 74	
d ₁	32.3	33.3	33.3	36.3	38.3	42.3	45.3	60.3	
d ₂	37.9	37.9	40.9	41.9	43.9	48.9	51.9	73.9	
h	2	2	2	2	2	2	2	2	

*) intermediate sizes not included in the standard
 **) material: Al operating temperature: 200 °C
 material: Cu operating temperature: 300 °C

Retaining/lock washers and rings

DIN	Dimensions	3.2	3.7	4.3	5.3	6.4	8.4	10.5	13
93	d ₂	12	12	14	17	19	22	26	30
	b	4	4	5	6	7	8	10	12
	l	13	13	14	16	18	20	22	28
	s	0.38	0.38	0.38	0.5	0.5	0.75	0.75	1
	for thread Ø	3	3.5	4	5	6	8	10	12
	Dimensions	15	17	19	21	23	25	28	31
	d ₂	33	36	40	42	50	50	58	63
	b	12	15	18	18	20	20	23	26
	l	28	32	36	36	42	42	48	52
	s	1	1	1	1	1	1	1.6	1.6
	for thread Ø	14	16	18	20	22	24	27	30
	Dimensions	34	37	40	43	46	50	54	
	d ₂	68	75	82	88	95	100	105	
	b	28	30	32	35	38	40	44	
	l	56	60	64	70	75	80	85	
	s	1.6	1.6	1.6	1.6	1.6	1.6	1.6	
	for thread Ø	33	36	39	42	45	48	52	

d₁ = nominal size