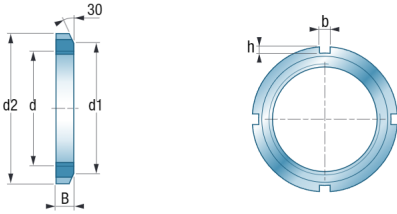



Characteristics

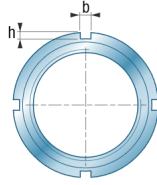
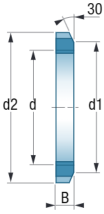
■ Locking nut




d		G	d2	d1	B	b	h		corresponding lock-washer
mm	Reference	mm	mm	mm	mm	mm	mm	kg	Reference
10	KM0	M10 X 0.75	18	13.5	4	3	2.0	0.005	MB 0
12	KM1	M12 X 1	22	17	4	3	2.0	0.007	MB 1
15	KM2	M15 X 1	25	21	5	4	2.0	0.010	MB 2
17	KM3	M17 X 1	28	24	5	4	2.0	0.013	MB 3
20	KM4	M20 X 1	32	26	6	4	2.0	0.019	MB 4
25	KM5	M25 X 1.5	38	32	7	5	2.0	0.025	MB 5
30	KM6	M30 X 1.5	45	38	7	5	2.0	0.043	MB 6
35	KM7	M35 X 1.5	52	44	8	5	2.0	0.053	MB 7
40	KM8	M40 X 1.5	58	50	9	6	2.5	0.085	MB 8
45	KM9	M45 X 1.5	65	56	10	6	2.5	0.120	MB 9
50	KM10	M50 X 1.5	70	61	11	6	2.5	0.150	MB 10
55	KM11	M55 X 2	75	67	11	7	3.0	0.160	MB 11
60	KM12	M60 X 2	80	73	11	7	3.0	0.170	MB 12
65	KM13	M65 X 2	85	79	12	7	3.0	0.200	MB 13
70	KM14	M70 X 2	92	85	12	8	3.5	0.240	MB 14
75	KM15	M75 X 2	98	90	13	8	3.5	0.290	MB 15
80	KM16	M80 X 2	105	95	15	8	3.5	0.400	MB 16
85	KM17	M85 X 2	110	102	16	8	3.5	0.450	MB 17
90	KM18	M90 X 2	120	108	16	10	4.0	0.560	MB 18
95	KM19	M95 X 2	125	113	17	10	4.0	0.660	MB 19
100	KM20	M100 X 2	130	120	18	10	4.0	0.700	MB 20
105	KM21	M105 X 2	140	126	18	12	5.0	0.850	MB 21
110	KM22	M110 X 2	145	133	19	12	5.0	0.970	MB 22
115	KM23	M115 X 2	150	137	19	12	5.0	1.010	MB 23
120	KM24	M120 X 2	155	138	20	12	5.0	1.080	MB 24
125	KM25	M125 X 2	160	148	21	12	5.0	1.190	MB 25
130	KM26	M130 X 2	165	149	21	12	5.0	1.250	MB 26
135	KM27	M135 X 2	175	160	22	14	6.0	1.550	MB 27
140	KM28	M140 X 2	180	160	22	14	6.0	1.560	MB 28
145	KM29	M145 X 2	190	172	24	14	6.0	2.000	MB 29
150	KM30	M150 X 2	195	171	24	14	6.0	2.030	MB 30



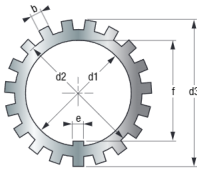
Nuts and washers (continued)




■ Locking nut (continued)

d		G	d2	d1	B	b	H		corresponding lock-washer
mm	mm	mm	mm	mm	mm	mm	mm	kg	Reference
155	KM31	M155 X 3	200	182	25	16	7.0	2.210	MB 31
160	KM32	M160 X 3	210	182	25	16	7.0	2.590	MB 32
165	KM33	M165 X 3	210	193	26	16	7.0	2.700	MB 33
170	KM34	M170 X 3	220	193	26	16	7.0	2.800	MB 34
180	KM36	M180 X 3	230	203	27	18	8.0	3.070	MB 36
190	KM38	M190 X 3	240	214	28	18	8.0	3.390	MB 38
200	KML40	M200 X 3	240	222	29	18	8.0	2.980	MBL 40
200	KM40	M200 X 3	250	226	29	18	8.0	3.690	MB 40
205	HML41T	TR205 X 4	250	232	30	18	8.0	3.430	MB 42
210	HM42T	TR210 X 4	270	238	30	20	10.0	4.750	
215	HML43T	TR215 X 4	260	242	30	20	9.0	3.720	
220	HM3044	TR220 X 4	260	242	30	20	9.0	3.090	MS 3044
220	HM44T	TR220 X 4	280	250	32	20	10.0	5.350	MB 44
230	HM46T	TR230 X 4	290	260	34	20	10.0	5.800	MB 46
240	HM3048	TR240 X 4	290	270	34	20	10.0	5.160	MS 3048
240	HM48T	TR240 X 4	300	270	34	20	10.0	6.200	MB 48
260	HM3052	TR260 X 4	310	290	34	20	10.0	5.670	MS 3052
260	HM52T	TR260 X 4	330	300	35	24	12.0	8.400	MB 52
280	HM3056	TR280 X 4	330	310	38	24	10.0	6.780	MS 3056
280	HM56T	TR280 X 4	350	320	36	24	12.0	9.600	MB 56
300	HM3060	TR300 X 4	360	336	42	24	12.0	9.620	MS 3060
300	HM3160	TR300 X 4	380	340	40	24	12.0	11.700	MS 3160
320	HM3064	TR320 X 5	380	356	42	24	12.0	9.940	MS 3064
320	HM3164	TR320 X 5	400	360	42	24	12.0	13.000	MS 3164
340	HM3068	TR340 X 5	400	376	45	24	12.0	11.700	MS 3068
340	HM3168	TR340 X 5	440	400	55	28	15.0	23.000	MS 3168
360	HM3072	TR360 X 5	420	394	45	28	13.0	12.000	MS 3072
360	HM3172	TR360 X 5	460	420	58	28	15.0	25.000	MS 3172
380	HM3076	TR380 X 5	450	422	48	28	14.0	14.900	MS 3076
380	HM3176	TR380 X 5	490	440	60	32	18.0	30.800	MS 3176
400	HM3080	TR400 X 5	470	442	52	24	14.0	16.900	MS 3080
420	HM3084	TR420 X 5	490	462	52	32	14.0	17.400	MS 3084

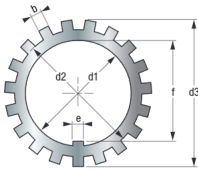
Lock-washer




d1		d3	d2	e	f	b	s		corresponding slotted nut
mm	Reference	mm	mm	mm	mm	mm	mm	kg	Reference
10	MB 0	21	13.5	3	8.50	3	1.00	0.130	KM0
12	MB 1	25	17	3	10.50	3	1.00	0.190	KM1
15	MB 2	28	21	4	13.50	4	1.00	0.250	KM2
17	MB 3	32	24	4	15.50	4	1.00	0.310	KM3
20	MB 4	36	26	4	18.50	4	1.00	0.350	KM4
25	MB 5	42	32	5	23.00	5	1.25	0.640	KM5
30	MB 6	49	38	5	27.50	5	1.25	0.780	KM6
35	MB 7	57	44	6	32.50	5	1.25	1.040	KM7
40	MB 8	62	50	6	37.50	6	1.25	1.230	KM8
45	MB 9	69	56	6	42.50	6	1.25	1.520	KM9
50	MB 10	74	61	6	47.50	6	1.25	1.600	KM10
55	MB 11	81	67	8	52.50	7	1.25	1.960	KM11
60	MB 12	86	73	8	57.50	7	1.50	2.530	KM12
65	MB 13	92	79	8	62.50	7	1.50	2.900	KM13
70	MB 14	98	85	8	66.50	8	1.50	3.340	KM14
75	MB 15	104	90	8	71.50	8	1.50	3.560	KM15
80	MB 16	112	95	10	76.50	8	1.75	4.640	KM16
85	MB 17	119	102	10	81.50	8	1.75	5.240	KM17
90	MB 18	126	108	10	86.50	10	1.75	6.230	KM18
95	MB 19	133	113	10	91.50	10	1.75	6.700	KM19
100	MB 20	142	120	12	96.50	10	1.75	7.650	KM20
105	MB 21	145	126	12	100.50	12	1.75	8.260	KM21
110	MB 22	154	133	12	105.50	12	1.75	9.400	KM22
115	MB 23	159	137	12	110.50	12	2.00	10.800	KM23
120	MB 24	164	138	14	115.00	12	2.00	10.500	KM24
125	MB 25	170	148	14	120.00	12	2.00	11.800	KM25
130	MB 26	175	149	14	125.00	12	2.00	11.300	KM26
135	MB 27	185	160	14	130.00	14	2.00	14.400	KM27
140	MB 28	192	160	16	135.00	14	2.00	14.200	KM28
145	MB 29	202	172	16	140.00	14	2.00	16.800	KM29



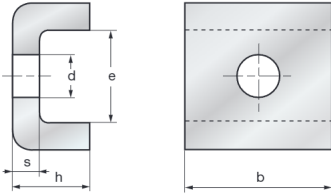
Nuts and washers (continued)



■ Lock-washer (continued)

d1		d3	d2	e	f	b	s		corresponding slotted nut
mm	Reference	mm	mm	mm	mm	mm	mm	kg	Reference
150	MB 30	205	171	16	145.00	14	2.00	15.50	KM30
155	MB 31	212	182	16	147.50	16	2.50	20.90	KM31
160	MB 32	217	182	18	154.00	16	2.50	22.20	KM32
165	MB 33	222	193	18	157.50	16	2.50	24.10	KM33
170	MB 34	232	193	18	164.00	16	2.50	24.70	KM34
180	MB 36	242	203	20	174.00	18	2.50	26.80	KM36
190	MB 38	252	214	20	184.00	18	2.50	27.80	KM38
200	MBL 40	245	222	20	194.00	18	2.50	21.40	KLM40
200	MB 40	262	226	20	194.00	18	2.50	29.30	KM40
220	MB 44	292	250	24	213.00	20	3.00	35.00	HM44T
240	MB 48	312	270	24	233.00	20	3.00	45.00	HM48T
260	MB 52	342	300	28	253.00	24	3.00	65.00	HM52T
280	MB 56	362	320	28	273.00	24	3.00	105.00	HM56T

■ Stirrup



	s	b	h	d	e	screw	corresponding nut
Reference	mm	mm	mm	mm	mm	Ref.	Ref.
MS 3044	4	20	12	7	13.5	M6X16	HM3044
MS 3048	4	20	12	9	17.5	M8X20	HM3048
MS 3052	4	20	12	9	17.5	M8X20	HM3052
MS 3056	4	24	12	9	17.5	M8X20	HM3056
MS 3060	4	24	12	9	20.5	M8X20	HM3060
MS 3064	5	24	15	9	21.0	M8X20	HM3064
MS 3068	5	24	15	9	21.0	M8X20	HM3068
MS 3072	5	28	15	9	20.0	M8X20	HM3072
MS 3076	5	28	15	12	24.0	M10X25	HM3076
MS 3080	5	28	15	12	24.0	M10X25	HM3080
MS 3160	4	24	12	12	30.5	M10X25	HM3160
MS 3164	5	24	15	12	31.0	M10X25	HM3164
MS 3168	5	28	15	14	38.0	M12X30	HM3168
MS 3172	5	28	15	14	38.0	M12X30	HM3172

