

MARYLAND METRICS

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TECHNICAL INFORMATION and DATA

Limits of sizes for fine threads

Thread size	Length of normal thread engagement		Major diameter D	Pitch diameter D ₂		Minor diameter D ₁	
	from	to		minimum	maximum	minimum	maximum
	M 8 x 1	3	9	8,000	7,350	7,500	6,917
M 10 x 1	3	9	10,000	9,350	9,500	8,917	9,153
M 10 x 1,25	4	12	10,000	9,188	9,348	8,647	8,912
M 12 x 1,25	4,5	13	12,000	11,188	11,368	10,647	10,912
M 12 x 1,5	5,6	16	12,000	11,026	11,216	10,376	10,676
M 14 x 1,5	5,6	16	14,000	13,026	13,216	12,376	12,676
M 16 x 1,5	5,6	16	16,000	15,026	15,216	14,376	14,676
M 18 x 1,5	5,6	16	18,000	17,026	17,216	16,376	16,676
M 18 x 2	8	24	18,000	16,701	16,913	15,835	16,210
M 20 x 1,5	5,6	16	20,000	19,026	19,216	18,376	18,676
M 20 x 2	8	24	20,000	18,701	18,913	17,835	18,210
M 22 x 1,5	5,6	16	22,000	21,026	21,216	20,376	20,676
M 22 x 2	8	24	22,000	20,701	20,913	19,835	20,210
M 24 x 2	8,5	25	24,000	22,701	22,925	21,835	22,210
M 27 x 2	8,5	25	27,000	25,701	25,925	24,834	25,210
M 30 x 2	8,5	25	30,000	28,701	28,925	27,835	28,210
M 33 x 2	8,5	25	33,000	31,701	31,925	30,835	31,210
M 36 x 3	12	36	36,000	34,051	34,316	32,752	33,252
M 39 x 3	12	36	39,000	37,051	37,316	35,752	36,252

Nut threads with tolerance class 7H (tolerance quality coarse)

Limits of sizes for coarse threads

Thread size	Length of normal thread engagement		Major diameter D	Pitch diameter D ₂		Minor diameter D ₁	
	from	to		minimum	maximum	minimum	maximum
	M 5	2,5	7,5	5,000	4,480	4,640	4,134
M 6	3	9	6,000	5,350	5,540	4,917	5,217
M 7	3	9	7,000	6,350	6,540	5,917	6,217
M 8	4	12	8,000	7,188	7,388	6,647	6,982
M 10	5	15	10,000	9,026	9,250	8,376	8,751
M 12	6	18	12,000	10,863	11,113	10,106	10,531
M 14	8	24	14,000	12,701	12,966	11,835	12,310
M 16	8	24	16,000	14,701	14,966	13,835	14,310
M 18	10	30	18,000	16,376	16,656	15,294	15,854
M 20	10	30	20,000	18,376	18,656	17,294	17,854
M 22	10	30	22,000	20,376	20,656	19,294	19,854
M 24	12	36	24,000	22,051	22,386	20,752	21,382
M 27	12	36	27,000	25,051	25,386	23,752	24,382
M 30	15	45	30,000	27,727	28,082	26,211	26,921
M 33	15	45	33,000	30,727	31,082	29,211	29,921
M 36	18	53	36,000	33,402	33,777	31,670	32,420
M 39	18	53	39,000	36,402	36,777	34,670	35,420
M 42	21	63	42,000	39,077	39,477	37,129	37,979
M 45	21	63	45,000	42,077	42,477	40,129	40,979
M 48	24	71	48,000	44,752	45,177	42,587	43,487
M 52	24	71	52,000	48,752	49,177	46,587	47,487