

# 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		Pitch diameter		Minor diameter <sup>2)</sup>	
			d		d <sub>2</sub>		d <sub>3</sub>	
	from	to	maximum	minimum	maximum	minimum	maximum	minimum
M 8 x 1	3	9	7,974	7,794	7,324	7,212	6,747	6,596
M 10 x 1	3	9	9,974	9,794	9,324	9,212	8,747	8,596
M 10 x 1,25	4	12	9,972	9,760	9,160	9,042	8,438	8,272
M 12 x 1,25	4,5	13	11,972	11,760	11,160	11,028	10,438	10,258
M 12 x 1,5	5,6	16	11,968	11,732	10,994	10,854	10,128	9,930
M 14 x 1,5	5,6	16	13,968	13,732	12,994	12,854	12,128	11,930
M 16 x 1,5	5,6	16	15,968	15,732	14,994	14,854	14,128	13,930
M 18 x 1,5	5,6	16	17,968	17,732	16,994	16,854	16,128	15,930
M 18 x 2	8	24	17,962	17,682	16,663	16,503	15,508	15,271
M 20 x 1,5	5,6	16	19,968	19,732	18,994	18,854	18,128	17,930
M 20 x 2	8	24	19,962	19,682	18,663	18,503	17,508	17,271
M 22 x 1,5	5,6	16	21,968	21,732	20,994	20,854	20,128	19,930
M 22 x 2	8	24	21,962	21,682	20,663	20,503	19,508	19,271
M 24 x 2	8,5	25	23,962	23,682	22,663	22,493	21,508	21,261
M 27 x 2	8,5	25	26,962	26,682	25,663	25,483	24,508	24,261
M 30 x 2	8,5	25	29,962	29,682	28,663	28,493	27,508	27,261
M 33 x 2	8,5	25	32,962	32,682	31,663	31,493	30,508	30,261
M 36 x 3	12	36	35,952	35,577	34,003	33,803	32,271	31,955
M 39 x 3	12	36	38,952	38,577	37,003	36,803	35,271	34,955

### Bolt thread with tolerance class 8g (tolerance quality: coarse)

### Limits of sizes for coarse threads

Thread size	Length of normal thread engagement		Major diameter		Pitch diameter		Minor diameter <sup>2)</sup>	
			d		d <sub>2</sub>		d <sub>3</sub>	
	from	to	maximum	minimum	maximum	minimum	maximum	minimum
M 5	2,5	7,5	4,976	4,740	4,456	4,306	3,995	3,814
M 6	3	9	5,974	5,694	5,324	5,144	4,747	4,528
M 7	3	9	6,974	6,694	6,324	6,144	5,747	5,528
M 8	4	12	7,972	7,637	7,160	6,970	6,438	6,200
M 10	5	15	9,968	9,593	8,994	8,782	8,128	7,858
M 12	6	18	11,966	11,541	10,829	10,593	9,819	9,516
M 14	8	24	13,962	13,512	12,663	12,413	11,508	11,181
M 16	8	24	15,962	15,512	14,663	14,413	13,508	13,181
M 18	10	30	17,958	17,428	16,334	16,069	14,891	14,530
M 20	10	30	19,958	19,428	18,334	18,069	16,891	16,530
M 22	10	30	21,958	21,428	20,334	20,069	18,891	18,530
M 24	12	36	23,952	23,352	22,003	21,688	20,271	19,840
M 27	12	36	26,952	26,352	25,003	24,688	23,271	22,840
M 30	15	45	29,947	29,277	27,674	27,339	25,653	25,183
M 33	15	45	32,947	32,277	30,674	30,339	28,653	28,183
M 36	18	53	35,940	35,190	33,342	32,987	31,033	30,524
M 39	18	53	38,940	38,190	36,342	35,987	34,033	33,524
M 42	21	63	41,937	41,137	39,014	38,639	36,416	35,868
M 45	21	63	44,937	44,137	42,014	41,639	39,416	38,868
M 48	24	71	47,929	47,079	44,681	44,281	41,795	41,202
M 52	24	71	51,929	51,079	48,681	48,281	45,795	45,202