



Rua Solidônio Leite, 1.127
Fone 11 2154-2951

Rosca Métrica Fina – ISO DIN 13 60° Tolerância de parafusos em qualidade média

Rosca	Passo	Diâmetro Primitivo		Diâmetro Externo	
		Min./ mm	Max./ mm	Min./ mm	Max./ mm
M 1	0,20	0,840	0,870	1,150	1,200
M 1,1	0,20	0,940	0,970	1,064	1,100
M 1,2	0,20	1,040	1,070	1,150	1,200
M 1,4	0,20	1,240	1,270	1,350	1,400
M 1,6	0,20	1,403	1,453	1,527	1,583
M 1,8	0,20	1,603	1,853	1,727	1,783
M 2	0,25	1,764	1,820	1,933	2,000
M 2,2	0,25	1,964	2,020	2,115	2,182
M 2,5	0,35	2,191	2,254	2,396	2,481
M 3	0,35	2,687	2,754	2,896	2,981
M 3,5	0,35	3,187	3,254	3,396	3,481
M 4	0,50	3,580	3,655	3,880	4,000
M 4,5	0,50	4,080	4,155	4,380	4,500
M 5	0,50	4,580	4,655	4,880	5,000
M 5,5	0,50	5,080	5,155	5,374	5,480
M 6	0,75	5,391	5,491	5,838	5,978
M 7	0,75	6,391	6,491	6,838	6,978
M 8	0,75	7,391	7,491	7,838	7,978
M 9	0,75	8,391	8,491	8,838	8,978
M 10	0,75	9,391	9,491	9,838	9,978
M 11	0,75	10,391	10,491	10,838	10,978
M 8	1,00	7,212	7,324	7,794	7,974
M 9	1,00	8,212	8,324	8,794	8,974
M 10	1,00	9,212	9,324	9,794	9,974
M 11	1,00	10,212	10,324	10,794	10,974



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		Min./ mm	Max./ mm	Min./ mm	Max./ mm
M 12	1,00	11,206	11,324	11,794	11,974
M 14	1,00	13,206	13,324	13,794	13,974
M 15	1,00	14,206	14,324	14,794	14,974
M 16	1,00	15,206	15,324	15,794	15,974
M 17	1,00	16,206	16,324	16,794	19,974
M 18	1,00	17,206	17,324	17,794	17,974
M 20	1,00	19,206	19,324	19,794	19,974
M 22	1,00	21,206	21,324	21,794	21,974
M 24	1,00	23,199	23,324	23,794	23,974
M 25	1,00	24,199	24,324	24,794	24,974
M 27	1,00	26,199	26,324	26,794	26,974
M 28	1,00	27,199	27,324	27,794	27,974
M 30	1,00	29,199	29,324	29,794	29,974
M 10	1,25	9,042	9,160	9,760	9,972
M 12	1,25	11,028	11,160	11,760	11,972
M 14	1,25	13,028	13,160	13,760	13,972
M 12	1,50	10,854	10,994	11,732	11,968
M 14	1,50	12,854	12,994	13,732	13,968
M 15	1,50	13,854	13,994	14,732	14,968
M 16	1,50	14,854	14,994	15,732	15,968
M 17	1,50	15,854	15,994	16,732	16,968
M 18	1,50	16,854	16,994	17,732	17,968
M 20	1,50	18,854	18,994	19,732	19,968
M 22	1,50	20,854	20,994	21,732	21,968



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Rosca	Passo	Diâmetro Primitivo		Diâmetro Externo	
		Min./ mm	Max./ mm	Min./ mm	Max./ mm
M 24	1,50	22,844	22,994	23,732	23,968
M 25	1,50	23,844	23,944	24,732	24,968
M 27	1,50	25,844	25,944	26,732	26,968
M 28	1,50	26,844	26,944	27,732	27,968
M 30	1,50	28,844	28,994	29,732	29,968
M 32	1,50	30,844	30,994	31,732	31,968
M 33	1,50	31,844	31,994	32,732	32,968
M 35	1,50	33,844	33,994	34,732	34,968
M 36	1,50	34,844	34,994	35,732	35,968
M 39	1,50	37,844	37,994	38,732	38,968
M 40	1,50	38,844	38,994	39,732	39,968
M 42	1,50	40,844	40,994	41,732	41,968
M 45	1,50	43,844	43,994	44,732	44,968
M 48	1,50	46,834	46,994	47,732	47,968
M 50	1,50	48,834	48,994	49,732	49,968
M 52	1,50	50,834	50,994	51,732	51,968
M 55	1,50	53,834	53,994	54,732	54,968
M 56	1,50	54,834	54,994	55,732	55,968
M 58	1,50	56,834	56,994	57,732	57,968
M 60	1,50	58,834	58,994	59,732	59,968
M 62	1,50	60,834	60,994	61,732	61,938
M 64	1,50	62,834	62,994	63,732	63,968
M 65	1,50	63,834	63,994	64,732	64,968
M 68	1,50	66,834	66,994	67,732	67,968



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Rosca	Passo	Diâmetro Primitivo		Diâmetro Externo	
		Min./ mm	Max./ mm	Min./ mm	Max./ mm
M 70	1,50	68,834	68,994	69,732	69,968
M 72	1,50	70,834	70,994	71,732	71,968
M 75	1,50	73,834	73,994	74,732	74,968
M 76	1,50	74,834	74,994	75,732	75,968
M 80	1,50	78,834	78,994	79,732	79,968
M 18	2,00	16,503	16,663	17,682	17,962
M 20	2,00	18,503	18,663	19,682	18,503
M 22	2,00	20,503	20,663	21,682	21,962
M 24	2,00	22,493	22,663	23,682	23,962
M 25	2,00	23,493	23,663	24,682	24,962
M 27	2,00	25,493	25,663	26,682	26,962
M 28	2,00	26,493	26,663	27,682	27,962
M 30	2,00	28,493	28,663	29,682	29,962
M 32	2,00	30,493	30,663	31,682	31,962
M 33	2,00	31,493	31,663	32,682	32,962
M 36	2,00	34,493	34,663	35,682	35,962
M 39	2,00	37,493	37,663	38,682	38,962
M 40	2,00	38,493	38,663	39,682	39,962
M 42	2,00	40,493	40,663	41,682	41,962
M 45	2,00	43,493	43,663	44,682	44,962
M 48	2,00	46,483	46,663	47,682	47,962
M 50	2,00	48,483	48,663	49,682	49,962
M 60	2,00	58,483	58,663	59,682	59,962
M 62	2,00	60,483	60,663	61,682	61,962
M 64	2,00	62,483	62,663	63,682	62,962



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Rosca	Passo	Diâmetro Primitivo		Diâmetro Externo	
		Min./ mm	Max./ mm	Min./ mm	Max./ mm
M 65	1,50	63,834	63,994	64,732	64,968
M 68	1,50	66,834	66,994	67,732	67,968
M 70	1,50	68,834	68,994	69,732	69,968
M 72	1,50	70,834	70,994	71,732	71,968
M 75	1,50	73,834	73,994	74,732	74,968
M 76	1,50	74,834	74,994	75,732	75,968
M 80	1,50	78,834	78,994	79,732	79,968
M 18	2,00	16,503	16,663	17,682	17,962
M 20	2,00	18,503	18,663	19,682	18,503
M 22	2,00	20,503	20,663	21,682	21,962
M 24	2,00	22,493	22,663	23,682	23,962
M 25	2,00	23,493	23,663	24,682	24,962
M 27	2,00	25,493	25,663	26,682	26,962
M 28	2,00	26,493	26,663	27,682	27,962
M 30	2,00	28,493	28,663	29,682	29,962
M 32	2,00	30,493	30,663	31,682	31,962
M 33	2,00	31,493	31,663	32,682	32,962
M 36	2,00	34,493	34,663	35,682	35,962
M 39	2,00	37,493	37,663	38,682	38,962
M 40	2,00	38,493	38,663	39,682	39,962
M 42	2,00	40,493	40,663	41,682	41,962
M 45	2,00	43,493	43,663	44,682	44,962
M 48	2,00	46,483	46,663	47,682	47,962
M 50	2,00	48,483	48,663	49,682	49,962



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Rosca	Passo	Diâmetro Primitivo		Diâmetro Externo	
		Min./ mm	Max./ mm	Min./ mm	Max./ mm
M 50	2,00	48,483	48,663	49,682	49,962
M 60	2,00	58,483	58,663	59,682	59,962
M 62	2,00	60,483	60,663	61,682	61,962
M 64	2,00	62,483	62,663	63,682	62,962
M 65	2,00	63,483	63,663	64,682	64,962
M 68	2,00	66,483	66,663	67,682	67,962
M 70	2,00	68,483	68,663	69,682	69,962
M 72	2,00	70,483	70,663	71,682	71,962
M 90	2,00	88,483	88,663	89,682	89,962
M 95	2,00	93,473	93,663	94,682	94,962
M 100	2,00	98,473	98,663	99,682	99,962
M 30	3,00	27,803	28,003	29,577	29,952
M 33	3,00	30,803	31,003	32,577	32,952
M 36	3,00	33,803	34,003	35,577	35,952
M 39	3,00	36,803	37,003	38,577	38,952
M 40	3,00	37,803	38,003	39,577	39,952
M 42	3,00	39,803	40,003	41,577	41,952
M 45	3,00	42,803	43,003	44,577	44,952
M 48	3,00	45,791	46,003	47,577	47,952
M 50	3,00	47,791	48,003	49,577	49,952
M 52	3,00	49,791	50,003	51,577	51,952
M 55	3,00	52,971	53,003	54,577	54,952
M 56	3,00	53,791	54,003	55,577	55,952
M 58	3,00	55,791	56,003	57,577	57,952



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Rosca	Passo	Diâmetro Primitivo		Diâmetro Externo	
		Min./ mm	Max./ mm	Min./ mm	Max./ mm
M 60	3,00	57,791	58,003	59,577	59,952
M 62	3,00	59,791	60,003	61,577	61,952
M 64	3,00	61,791	62,003	63,577	63,952
M 65	3,00	62,791	63,003	64,577	64,952
M 68	3,00	65,791	66,003	67,577	67,952
M 70	3,00	67,791	68,003	69,577	69,952
M 72	3,00	69,791	70,003	71,577	71,952
M 75	3,00	72,791	73,003	74,577	74,952
M 76	3,00	73,791	74,003	75,577	75,952
M 80	3,00	77,791	78,003	79,577	79,952
M 85	3,00	82,791	83,003	84,577	84,952
M 90	3,00	87,791	88,003	89,577	89,952
M 95	3,00	92,791	93,003	94,577	94,952
M 100	3,00	97,791	98,003	99,577	99,952
M 42	4,00	39,118	39,342	41,465	41,940
M 45	4,00	42,118	42,342	44,465	44,940
M 48	4,00	45,106	45,342	47,465	47,940
M 52	4,00	49,106	49,342	51,465	51,940
M 55	4,00	52,106	52,342	54,465	54,940
M 56	4,00	53,106	53,342	55,465	55,940
M 58	4,00	55,106	55,342	57,465	57,940
M 60	4,00	57,106	57,342	59,465	59,940
M 62	4,00	59,106	59,342	61,465	61,940
M 64	4,00	61,106	61,342	63,465	63,940



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Rosca	Passo	Diâmetro Primitivo		Diâmetro Externo	
		Min./ mm	Max./ mm	Min./ mm	Max./ mm
M 65	4,00	62,106	62,342	64,465	64,940
M 68	4,00	65,106	65,342	67,465	67,940
M 70	4,00	67,106	67,342	69,465	69,940
M 72	4,00	69,106	69,342	71,465	71,940
M 75	4,00	72,106	72,342	74,465	74,940
M 76	4,00	73,106	73,342	75,465	75,940
M 80	4,00	77,106	77,342	79,465	79,940
M 85	4,00	82,106	82,342	84,465	84,940
M 90	4,00	87,106	87,342	89,465	89,940
M 95	4,00	92,106	92,342	94,465	94,940
M 100	4,00	97,106	97,342	99,465	99,940
M 70	6,00	65,743	66,023	69,320	69,920
M 72	6,00	67,743	68,023	71,320	71,920
M 75	6,00	70,743	71,023	74,320	74,920
M 76	6,00	71,743	72,023	75,320	75,920
M 80	6,00	75,743	76,023	79,320	79,920
M 85	6,00	80,732	81,023	84,320	84,920
M 90	6,00	85,743	86,023	89,320	89,920
M 95	6,00	90,743	91,023	94,320	94,920
M 100	6,00	95,743	96,023	99,320	99,920