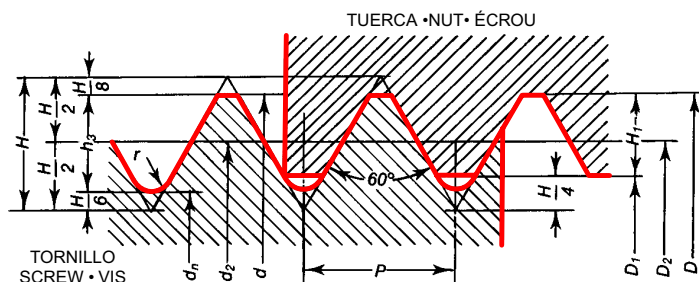


## ROSCA ISO-METRICA ISO-METRIC THREAD FILETAGE MÉTRIQUE ISO

PERFIL TEORICO • THEORETICAL PROFILE • PROFIL THÉORIQUE

DIN 13

# M



$$D_1 = d - 2H_1$$

$$d_2 = D_2 = d - 0,64953 P$$

$$d_3 = d - 1,22687 P$$

$$H = 0,86603 P$$

$$H_1 = 0,54127 P$$

$$h_3 = 0,61343 P$$

$$r = \frac{H}{6} = 0,14434 P$$

Diámetro nominal de la rosca Nominal thread diameter Diamètre nominal du filet		d = D	Paso Pitch Pass	Ø Medio Pitch Ø Ø Moyen	Diámetro del núcleo Core diameter Diamètre du noyau	
Serie 1	Serie 2	Serie 3	P mm.	d = D <sub>2</sub> mm.	d <sub>n</sub> mm.	D <sub>1</sub> mm.
M 1*			0,25	0,838	0,693	0,729
	M 1,1*		0,25	0,938	0,793	0,829
M 1,2*			0,25	1,038	0,893	0,929
	M 1,4		0,3	1,2105	1,032	1,075
M 1,6			0,35	1,373	1,170	1,221
	M 1,8		0,35	1,573	1,370	1,421
M 2			0,4	1,740	1,509	1,567
	M 2,2		0,45	1,908	1,648	1,713
M 2,5			0,45	2,208	1,948	2,013
M 3			0,5	2,675	2,387	2,459
	M 3,5		0,6	3,110	2,764	2,850
M 4			0,7	3,545	3,141	3,242
	M 4,5		0,75	4,013	3,580	3,688
M 5			0,8	4,480	4,019	4,134
M 6			1	5,350	4,773	4,917
		M 7	1	6,350	5,773	5,917
M 8			1,25	7,188	6,466	6,647
		M 9	1,25	8,188	7,466	7,647
M 10			1,5	9,026	8,160	8,376
		M 11	1,5	10,026	9,160	9,376
M 12			1,75	10,863	9,853	10,106
	M 14		2	12,701	11,546	11,835
M 16			2	14,701	13,546	13,835
	M 18		2,5	16,376	14,933	15,294
M 20			2,5	18,376	16,933	17,294
	M 22		2,5	20,376	18,933	19,294
M 24			3	22,051	20,319	20,752
	M 27		3	25,051	23,319	23,752
M 30			3,5	27,727	25,706	26,211
	M 33		3,5	30,727	28,706	29,211
M 36			4	33,402	31,093	31,670
	M 39		4	36,402	34,093	34,670
M 42			4,5	39,077	36,479	37,129
	M 45		4,5	42,077	39,479	40,129
M 48			5	44,752	41,866	42,587
	M 52		5	48,752	45,866	46,587
M 56			5,5	52,428	49,252	50,046
	M 60		5,5	56,428	53,252	54,046
M 64			6	60,103	56,639	57,505
	M 68		6	64,103	60,639	61,505

**ROSCA ISO-METRICA  
ISO-METRIC THREAD  
FILETAGE MÉTRIQUE ISO**

**TUERCA • NUT • ÉCROU**

DIN 13

**M**

Rosca Thread Filet	Paso Pitch Pass	Tolerancia Tolerance Tolérance	Ø Exterior Outside Ø Ø Extérieur	Ø Medio Pitch Ø Ø Moyen		Ø Núcleo Core Ø Ø Noyau		Rosca Thread Filet	Paso Pitch Pass	Tolerancia Tolerance Tolérance	Ø Exterior Outside Ø Ø Extérieur	Ø Medio Pitch Ø Ø Moyen		Ø Núcleo Core Ø Ø Noyau	
				D <sub>2</sub> mín.	D <sub>2</sub> máx.	D <sub>1</sub> mín.	D <sub>1</sub> máx.					D <sub>2</sub> mín.	D <sub>2</sub> máx.	D <sub>1</sub> mín.	D <sub>1</sub> máx.
M 1	0,25	4H	1	0,838	0,883	0,729	0,774	M 14	2	5H	14	12,701	12,871	11,835	12,135
		5H	1	0,838	0,894	0,729	0,785			6H	14	12,701	12,913	11,835	12,210
M 1,1	0,25	4H	1,1	0,938	0,983	0,829	0,874	M 16	2	5H	16	14,701	14,871	13,835	14,135
		5H	1,1	0,938	0,994	0,829	0,885			6H	16	14,701	14,913	13,835	14,210
M 1,2	0,25	4H	1,2	1,038	1,083	0,929	0,974	M 18	2,5	5H	18	16,376	16,556	15,294	15,649
		5H	1,2	1,038	1,094	0,929	0,985			6H	18	16,376	16,600	15,294	15,744
M 1,4	0,3	4H	1,4	1,205	1,253	1,075	1,128	M 20	2,5	5H	20	18,376	18,556	17,294	17,649
		5H	1,4	1,205	1,265	1,075	1,142			6H	20	18,376	18,600	17,294	17,444
M 1,5	0,35	4H	1,6	1,373	1,426	1,221	1,284	M 22	2,5	5H	22	20,376	20,556	19,294	19,649
		5H	1,6	1,373	1,440	1,221	1,301			6H	22	20,376	20,600	19,294	19,744
M 1,8	0,35	4H	1,8	1,573	1,626	1,421	1,484	M 24	3	5H	24	22,051	22,263	20,752	21,152
		5H	1,8	1,573	1,640	1,421	1,501			6H	24	22,051	22,316	20,752	21,252
M 2	0,4	5H	2	1,740	1,811	1,567	1,657	M 27	3	5H	27	25,051	25,263	23,752	24,152
		6H	2	1,740	1,830	1,567	1,679			6H	27	25,051	25,316	23,752	24,252
M 2,2	0,45	5H	2,2	1,908	1,983	1,713	1,813	M 30	3,5	5H	30	27,727	27,951	26,211	26,661
		6H	2,2	1,908	2,003	1,713	1,838			6H	30	27,727	28,007	26,211	26,771
M 2,5	0,45	5H	2,5	2,208	2,283	2,013	2,113	M 33	3,5	5H	33	30,727	30,951	29,211	29,661
		6H	2,5	2,208	2,303	2,013	2,138			6H	33	30,727	31,007	29,211	29,771
M 3	0,5	5H	3	2,675	2,755	2,459	2,571	M 36	4	5H	36	33,402	33,638	31,670	32,145
		6H	3	2,675	2,775	2,459	2,599			6H	36	33,402	33,702	31,670	32,270
M 3,5	0,6	5H	3,5	3,110	3,200	2,850	2,975	M 39	4	5H	39	36,402	36,638	34,670	35,145
		6H	3,5	3,110	3,222	2,850	3,010			6H	39	36,402	36,702	34,670	35,270
M 4	0,7	5H	4	3,545	3,640	3,242	3,382	M 42	4,5	5H	42	39,077	39,327	37,129	37,659
		6H	4	3,545	3,663	3,242	3,422			6H	42	39,077	39,392	37,129	37,799
M 4,5	0,75	5H	4,5	4,013	4,108	3,688	3,838	M 45	4,5	5H	45	42,077	42,327	40,129	40,659
		6H	4,5	4,013	4,131	3,688	3,878			6H	45	42,077	42,392	40,129	40,799
M 5	0,8	5H	5	4,480	4,580	4,134	4,294	M 48	5	5H	48	44,752	45,017	42,587	43,147
		6H	5	4,480	4,605	4,134	4,334			6H	48	44,752	45,087	42,587	43,297
M 6	1	5H	6	5,350	5,468	4,917	5,107	M 52	5	5H	52	48,752	48,017	46,587	47,147
		6H	6	5,350	5,500	4,917	5,153			6H	52	48,752	49,087	46,587	47,297
M 7	1	5H	7	6,350	6,468	5,917	6,107	M 56	5,5	5H	56	52,428	52,708	50,046	50,646
		6H	7	6,350	6,500	5,917	6,153			6H	56	52,428	52,783	50,046	50,796
M 8	1,25	5H	8	7,188	7,313	6,647	6,859	M 60	5,5	6H	60	56,428	56,708	54,046	54,646
		6H	8	7,188	7,348	6,647	6,912			6H	60	56,428	56,783	54,046	54,796
M 9	1,25	5H	9	8,188	8,313	7,647	7,859	M 64	6	5H	64	60,103	60,403	57,505	58,135
		6H	9	8,188	8,348	7,647	7,912			6H	64	60,103	60,478	57,505	58,305
M 10	1,5	5H	10	9,026	9,166	8,376	8,612	M 68	6	5H	68	64,103	64,403	61,505	62,135
		6H	10	9,026	9,206	8,376	8,676			6H	68	64,103	64,478	61,505	62,305
M 11	1,50	5H	11	10,026	10,166	9,376	9,612	M 7H	12	5H	7H	10,026	10,250	9,376	9,751
		6H	11	10,026	10,206	9,376	9,676			6H	7H	10,026	10,250	9,376	9,751
M 12	1,75	5H	12	10,863	11,023	10,106	10,371	M 7H	12	5H	12	10,863	11,063	10,106	10,441
		6H	12	10,863	11,063	10,106	10,531			6H	12	10,863	11,113	10,106	10,531

