



Metric table

Dimensions in: millimeters - inches

Nominal thread Ø	Pitch P	Bolt thread 6g						Nut thread 6H					
		Major Ø d		Pitch Ø d ₂		Minor Ø d ₁		Major Ø D		Pitch Ø D ₂		Minor Ø D ₁	
		max.	min.	max.	min.	max.	min.	min.	max.	min.	max.	min.	max.
M 3	0.5 <i>0.02</i>	2.980 <i>0.117</i>	2.874 <i>0.113</i>	2.655 <i>0.106</i>	2.580 <i>0.102</i>	2.367 <i>0.093</i>	2.273 <i>0.089</i>	3.000 <i>0.118</i>	Not specified	2.675 <i>0.1053</i>	2.775 <i>0.109</i>	2.459 <i>0.097</i>	2.599 <i>0.102</i>
M 4	0.7 <i>0.03</i>	3.978 <i>0.157</i>	3.838 <i>0.151</i>	3.523 <i>0.139</i>	3.433 <i>0.135</i>	3.119 <i>0.123</i>	3.002 <i>0.118</i>	4.000 <i>0.1575</i>		3.545 <i>0.140</i>	3.663 <i>0.144</i>	3.242 <i>0.128</i>	3.422 <i>0.135</i>
M 5	0.8 <i>0.03</i>	4.976 <i>0.196</i>	4.826 <i>0.190</i>	4.456 <i>0.175</i>	4.361 <i>0.172</i>	3.995 <i>0.157</i>	3.869 <i>0.152</i>	5.000 <i>0.197</i>		4.480 <i>0.176</i>	4.605 <i>0.181</i>	4.134 <i>0.163</i>	4.334 <i>0.171</i>
M 6	1 <i>0.04</i>	5.974 <i>0.235</i>	5.794 <i>0.228</i>	5.324 <i>0.210</i>	5.212 <i>0.205</i>	4.747 <i>0.187</i>	4.596 <i>0.181</i>	6.000 <i>0.236</i>		5.350 <i>0.211</i>	5.500 <i>0.217</i>	4.917 <i>0.194</i>	5.153 <i>0.203</i>
M 8	1.25 <i>0.05</i>	7.972 <i>0.314</i>	7.760 <i>0.306</i>	7.160 <i>0.282</i>	7.042 <i>0.277</i>	6.438 <i>0.253</i>	6.272 <i>0.247</i>	8.000 <i>0.315</i>		7.188 <i>0.283</i>	7.348 <i>0.289</i>	6.647 <i>0.262</i>	6.912 <i>0.272</i>
M 10	1.5 <i>0.06</i>	9.968 <i>0.392</i>	9.732 <i>0.383</i>	8.994 <i>0.354</i>	8.862 <i>0.349</i>	8.128 <i>0.320</i>	7.938 <i>0.313</i>	10.000 <i>0.394</i>		9.026 <i>0.355</i>	9.206 <i>0.362</i>	8.376 <i>0.330</i>	8.676 <i>0.342</i>
M 12	1.75 <i>0.07</i>	11.966 <i>0.471</i>	11.701 <i>0.461</i>	10.829 <i>0.426</i>	10.679 <i>0.420</i>	9.819 <i>0.387</i>	9.602 <i>0.378</i>	12.000 <i>0.472</i>		10.863 <i>0.428</i>	11.063 <i>0.436</i>	10.106 <i>0.398</i>	10.441 <i>0.411</i>
M 14	2 <i>0.08</i>	13.962 <i>0.550</i>	13.682 <i>0.539</i>	12.663 <i>0.499</i>	12.503 <i>0.492</i>	11.508 <i>0.453</i>	11.271 <i>0.444</i>	14.000 <i>0.551</i>		12.701 <i>0.500</i>	12.913 <i>0.508</i>	11.835 <i>0.466</i>	12.210 <i>0.481</i>
M 16	2 <i>0.08</i>	15.962 <i>0.628</i>	15.682 <i>0.617</i>	14.663 <i>0.577</i>	14.503 <i>0.571</i>	13.508 <i>0.532</i>	13.274 <i>0.523</i>	16.000 <i>0.630</i>		14.701 <i>0.579</i>	14.913 <i>0.587</i>	13.835 <i>0.545</i>	14.210 <i>0.560</i>
M 20	2.5 <i>0.10</i>	19.958 <i>0.786</i>	19.623 <i>0.773</i>	18.334 <i>0.722</i>	18.164 <i>0.715</i>	16.891 <i>0.665</i>	16.625 <i>0.655</i>	20.000 <i>0.787</i>		18.376 <i>0.724</i>	18.600 <i>0.732</i>	17.294 <i>0.681</i>	17.744 <i>0.699</i>
M 24	3 <i>0.12</i>	23.952 <i>0.943</i>	23.577 <i>0.928</i>	22.003 <i>0.866</i>	21.803 <i>0.8582</i>	20.271 <i>0.798</i>	19.955 <i>0.786</i>	24.000 <i>0.945</i>	22.051 <i>0.868</i>	22.316 <i>0.879</i>	20.752 <i>0.817</i>	21.252 <i>0.837</i>	

Description

The limit dimensions for standard threads given in the table correspond to the

- tolerance field **6g** for bolt threads
- tolerance field **6H** for nut threads.

The metric steel / metal threads specified in this catalog are based on these tolerance fields.

For threads with surface or heat treatment (e.g. sandblasting, powder coating, zinc plating, tempering, etc.), it may not be possible to comply with the listed tolerance fields in individual cases for process-related reasons. However, this does not have any negative impact on the function since the threads will still fit the corresponding screws or nuts.

For threads in plastic standard parts (without steel or metallic thread insert), these tolerances can usually not be maintained for manufacturing reasons.