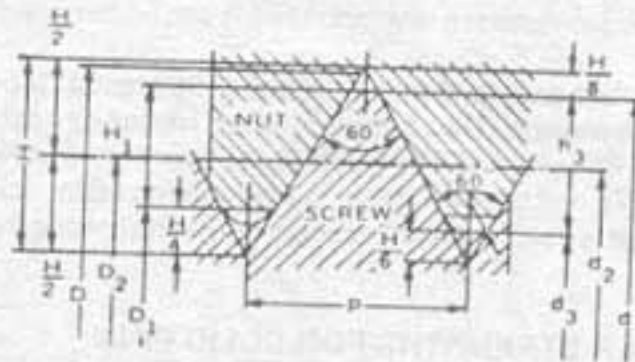




# Standards for Metric Threads



$$H = 0.86603P$$

$$h_2 = 0.61343P$$

$$H_1 = 0.54127P$$

$$r = \frac{H}{6} = 0.14434P$$

$$d_2 = d - 0.64953P \text{ (Effective-Pitch-Diameter)}$$

$$D_1 = d - 2H_1 \text{ (Minor Diameter - Internal)}$$

$$d_3 = d - 2h_2 \text{ (Minor Diameter - External)}$$

$$D = \text{(Major Diameter)}$$

d Basic Thread Designation	Pitch mm	Threads Per Inch	Tap Drill mm	Basic Pitch Diameter $d_2 = D_2$	Minor Diameter Limits			
					$d_3$ - External		$D_1$ - Internal	
					Min.	Max.	Min.	Max.
M1	0.25	101.6	0.75	0.83762	0.622	0.693	0.729	0.785
M1.6	0.35	72.6	1.25	1.37267	1.063	1.151	1.221	1.321
M2	0.4	63.5	1.6	1.74019	1.394	1.430	1.567	1.679
M2.5	0.45	56.5	2.05	2.20772	1.825	1.928	2.013	2.138
M3	0.5	50.8	2.5	2.67524	2.256	2.367	2.453	2.599
M3.5	0.6	42.3	2.9	3.11029	2.615	2.743	2.850	3.010
M4	0.7	36.3	3.3	3.54534	2.979	3.119	3.242	3.422
M5	0.8	31.8	4.2	4.01286	3.842	3.995	4.134	4.334
M6	1	25.4	5	5.35048	4.563	4.747	4.917	5.153
M8	1.25	20.3	6.75	7.18810	6.230	6.438	6.647	6.912
M10	1.5	16.9	8.5	9.02572	7.888	8.128	8.376	8.676

NOTE: Above limits are based on DIN 13 Sheet 13 for medium tolerance class.

For external threads:

For internal threads:

M1 - Tolerance 6h

M1 - Tolerance 5H

M1.6 and up - Tolerance 6g

M1.6 and up - Tolerance 6H