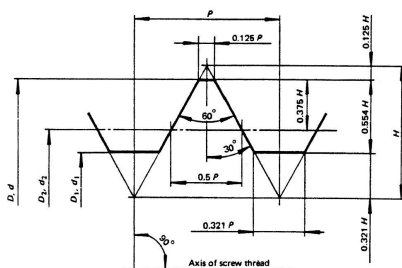


### ISO MINIATURE SCREW THREADS INFORMATION

Ref: ISO R 1501-1970

#### BASIC PROFILE



D = Major diameter of Internal Thread    D1 = Minor Diameter of Internal Thread  
d = Major diameter of External Thread    d1 = Minor Diameter of External Thread  
D2 = Pitch Diameter of Internal Thread    P = Pitch  
d2 = Pitch Diameter of External Thread    H = Height of Fundamental Triangle

#### BASIC PROFILE DIMENSIONS

PITCH P	H 0.866025 P	0.554256 H 0.48 P	0.375 H 0.324760 P	0.320744 H 0.277772 P	0.125 H 0.108253 P
<b>0.08</b>	0.069282	0.038400	0.025981	0.022222	0.008660
<b>0.09</b>	0.077942	0.043200	0.029228	0.024999	0.009743
<b>0.1</b>	0.086603	0.048000	0.032476	0.027778	0.010825
<b>0.125</b>	0.108253	0.060000	0.040595	0.034721	0.013532
<b>0.15</b>	0.129904	0.072000	0.048714	0.041666	0.016238
<b>0.175</b>	0.151551	0.084000	0.056833	0.048610	0.018940
<b>0.2</b>	0.173205	0.096000	0.064952	0.055554	0.021651
<b>0.225</b>	0.194856	0.108000	0.073071	0.062499	0.024357
<b>0.25</b>	0.216506	0.120000	0.081190	0.069443	0.027063
<b>0.3</b>	0.259808	0.144000	0.097428	0.083332	0.032476

#### FUNDAMENTAL DEVIATIONS

PITCH P	NUT THREAD		BOLT THREAD	
	G	H	g	h
	D, D2	D1, D2, D	d1	d, d2
	EI	EI	es	es
	um	um	um	um
<b>0.08</b>	+6	0	-13	0
<b>0.09</b>	+6	0	-14	0
<b>0.1</b>	+6	0	-16	0
<b>0.125</b>	+8	0	-20	0
<b>0.15</b>	+8	0	-24	0
<b>0.175</b>	+10	0	-28	0
<b>0.2</b>	+10	0	-32	0
<b>0.225</b>	+10	0	-36	0
<b>0.25</b>	+12	0	-40	0
<b>0.3</b>	+12	0	-48	0

#### SCREW THREAD - TOLERANCE 5 h3

THREAD SIZE	MAJOR DIA. d		PITCH DIA. d2		MINOR DIA. d1	
	max.	min.	max.	min.	max.	min.
<b>S 0.3</b>	0.300	0.284	0.248	0.228	0.210	0.190
<b>S 0.35</b>	0.350	0.332	0.292	0.270	0.250	0.228
<b>S 0.4</b>	0.400	0.380	0.335	0.311	0.288	0.264
<b>S 0.45</b>	0.450	0.430	0.385	0.361	0.338	0.314
<b>S 0.5</b>	0.500	0.480	0.419	0.393	0.360	0.332
<b>S 0.55</b>	0.550	0.530	0.469	0.443	0.410	0.382
<b>S 0.6</b>	0.600	0.575	0.503	0.475	0.432	0.400
<b>S 0.7</b>	0.700	0.675	0.586	0.554	0.504	0.468
<b>S 0.8</b>	0.800	0.770	0.670	0.634	0.576	0.536
<b>S 0.9</b>	0.900	0.870	0.754	0.714	0.648	0.604
<b>S 1</b>	1.000	0.965	0.838	0.794	0.720	0.672
<b>S 1.1</b>	1.100	1.065	0.938	0.894	0.820	0.772
<b>S 1.2</b>	1.200	1.165	1.038	0.994	0.920	0.872
<b>S 1.4</b>	1.400	1.360	1.205	1.155	1.064	1.008

#### SCREW THREAD SIZES AND BASIC DIMENSIONS

NOM. DIA.	PITCH P	MAJOR DIA. D, d	PITCH DIA. D2, d2	MINOR DIA. D1, d1
<b>0.3</b>	0.08	0.300000	0.248038	0.223200
<b>(0.35)</b>	0.09	0.350000	0.291543	0.263600
<b>0.4</b>	0.1	0.400000	0.335048	0.304000
<b>(0.45)</b>	0.1	0.450000	0.385048	0.354000
<b>0.5</b>	0.125	0.500000	0.418810	0.380000
<b>(0.55)</b>	0.125	0.550000	0.468810	0.430000
<b>0.6</b>	0.15	0.600000	0.502572	0.456000
<b>(0.7)</b>	0.175	0.700000	0.586334	0.532000
<b>0.8</b>	0.2	0.800000	0.670096	0.608000
<b>(0.9)</b>	0.225	0.900000	0.753858	0.684000
<b>1</b>	0.25	1.000000	0.837620	0.760000
<b>(1.1)</b>	0.25	1.100000	0.937620	0.860000
<b>1.2</b>	0.25	1.200000	1.037620	0.960000
<b>(1.4)</b>	0.3	1.400000	1.205144	1.112000

( ) not recommended for new design

#### NUT THREAD - TOLERANCES 4 H5 and 4 H6

THREAD SIZE	MAJOR DIA.	4 H		GRADE 5		GRADE 6	
		PITCH DIA. D2		MINOR DIAMETER D1			
	min.	max.	min.	max.	min.	max.	min.
<b>S 0.3</b>	0.3	0.268	0.248	0.240	0.223	-	-
<b>S 0.35</b>	0.35	0.314	0.292	0.286	0.264	-	-
<b>S 0.4</b>	0.4	0.359	0.335	0.330	0.304	0.342	0.304
<b>S 0.45</b>	0.45	0.409	0.385	0.380	0.354	0.392	0.354
<b>S 0.5</b>	0.5	0.445	0.419	0.415	0.380	0.435	0.380
<b>S 0.55</b>	0.55	0.495	0.469	0.465	0.430	0.485	0.430
<b>S 0.6</b>	0.6	0.531	0.503	0.502	0.456	0.522	0.456
<b>S 0.7</b>	0.7	0.618	0.586	0.585	0.532	0.605	0.532
<b>S 0.8</b>	0.8	0.706	0.670	0.665	0.608	0.685	0.608
<b>S 0.9</b>	0.9	0.794	0.754	0.745	0.684	0.765	0.684
<b>S 1</b>	1	0.882	0.838	0.825	0.760	0.845	0.760
<b>S 1.1</b>	1.1	0.982	0.938	0.925	0.860	0.945	0.860
<b>S 1.2</b>	1.2	1.082	1.038	1.025	0.960	1.045	0.960
<b>S 1.4</b>	1.4	1.255	1.205	1.185	1.112	1.205	1.112

#### PITCH DIAMETER TOLERANCES

PITCH P	TD2		Td2
	Tolerance Grade		Tolerance
	3	4	5
	um	um	um
<b>0.08</b>	14	20	20
<b>0.09</b>	16	22	22
<b>0.1</b>	18	24	24
<b>0.125</b>	18	26	26
<b>0.15</b>	20	28	28
<b>0.175</b>	22	32	32
<b>0.2</b>	26	36	36
<b>0.225</b>	30	40	40
<b>0.25</b>	32	44	44
<b>0.3</b>	38	50	50