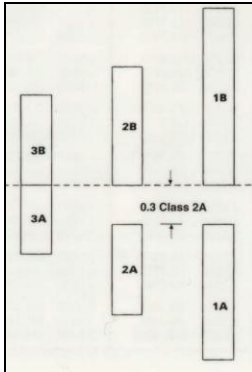


## ISO INCH THREAD WITH A STANDARD UNC-2B TOLERANCE

Ref. ASME B1.1 1989 Unified Inch Screw Threads

### Relationship between the tolerances

mm to ins. / 25,4  
ins. to mm x 25,4



Tolerance class **2A** is the foundation

**1A = 1,500 x 2A**  
**2A = 1,000**  
**3A = 0,750 x 2A**

**1B = 1,950 x 2A**  
**2B = 1,300 x 2A**  
**3B = 0,975 x 2A**

Example :

On a  $\frac{1}{2}$ -13 **UNC-2A** screw the pitch diameter tolerance is **0,127 mm**

Allowance from the nominal pitch diameter for **2A** and **1A**  
is  $0,127 \times 0,3 = \mathbf{0,038}$  i.e.  $0.3 \times 2A$  pitch diameter tolerance

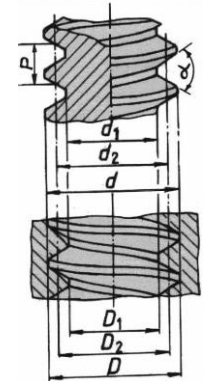
**1A** is  $0,127 \times 1,5 = \mathbf{0,1905}$

**1B** is  $0,127 \times 1,950 = \mathbf{0,248}$

**2B** is  $0,127 \times 1,300 = \mathbf{0,165}$

**3A** is  $0,127 \times 0,75 = \mathbf{0,095}$

**3B** is  $0,127 \times 0,975 = \mathbf{0,124}$



Betegnelse	eller	D mm (nom.)	D <sub>2</sub> nom	D <sub>2</sub> min	D <sub>2</sub> max
3-48 UNC	0,099-48 UNC	2,515	2,172	2,172	2,248
4-40 UNC	0,112-40 UNC	2,845	2,433	2,433	2,517
5-40 UNC	0,125-40 UNC	3,175	2,764	2,764	2,847
6-32 UNC	0,138-32 UNC	3,505	2,990	2,990	3,084
8-32 UNC	0,164-32 UNC	4,166	3,650	3,650	3,746
10-24 UNC	0,190-24 UNC	4,826	4,138	4,138	4,247
12-24 UNC	0,216-24 UNC	5,486	4,798	4,798	4,910
1/4-20 UNC	0,250-20 UNC	6,350	5,525	5,525	5,649
5/16-18 UNC	0,3125-18 UNC	7,937	7,021	7,021	7,155
3/8-16 UNC	0,375-16 UNC	9,525	8,494	8,494	8,639
7/16-14 UNC	0,4375-14 UNC	11,112	9,934	9,934	10,089
1/2-13 UNC	0,500-13 UNC	12,700	11,430	11,430	11,595
9/16-12 UNC	0,5625-12 UNC	14,288	12,913	12,913	13,086
5/8-11 UNC	0,625-11 UNC	15,875	14,376	14,376	14,559
3/4-10 UNC	0,750-10 UNC	19,050	17,399	17,399	17,595
7/8-9 UNC	0,875-9 UNC	22,225	20,391	20,391	20,599
1-8 UNC	1,000-8 UNC	25,400	23,338	23,338	23,561
1 1/8-7 UNC	1,125-7 UNC	28,575	26,218	26,218	26,457
1 1/4-7 UNC	1,250-7 UNC	31,750	29,393	29,393	29,637
1 3/8-6 UNC	1,375-6 UNC	34,925	32,174	32,174	32,438
1 1/2-6 UNC	1,500-6 UNC	38,100	35,349	35,349	35,616
1 3/4-5 UNC	1,750-5 UNC	44,450	41,151	41,151	41,445
2-4 1/2 UNC	2,000-4 1/2 UNC	50,800	47,135	47,135	47,450
2 1/4-4 1/2 UNC	2,250-4 1/2 UNC	57,150	53,485	53,485	53,805
2 1/2-4 UNC	2,500-4 UNC	63,500	59,375	59,375	59,718
2 3/4-4 UNC	2,750-4 UNC	69,850	65,725	65,725	66,073
3-4 UNC	3,000-4 UNC	76,200	74,615	74,615	72,428
3 1/4-4 UNC	3,250-4 UNC	82,550	78,425	78,425	78,783
3 1/2-4 UNC	3,500-4 UNC	88,900	87,775	87,775	85,138
3 3/4-4 UNC	3,750-4 UNC	92,250	91,125	91,125	91,493
4-4 UNC	4,000-4 UNC	101,600	97,475	97,475	97,848