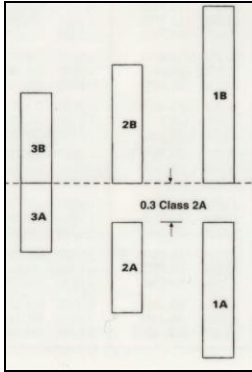


## ISO INCH THREAD WITH A STANDARD UNEF-2B TOLERANCE

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**

**1B = 1,950 x 2A**

**2A = 1,000**

**2B = 1,300 x 2A**

**3A = 0,750 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

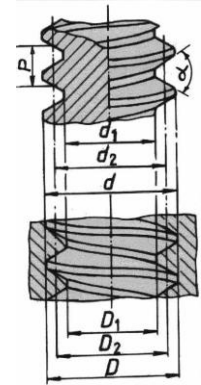
**1A** is  $0,127 \times 1,5 = \mathbf{0,1905}$

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



Denomination	or	d mm (nom.)	d <sub>2</sub> nom	d <sub>2</sub> max	d <sub>2</sub> min
12-32 UNEF	0,216-32 UNEF	5,486	4,971	5,075	4,971
1/4-32 UNEF	0,250-32 UNEF	6,350	5,834	5,941	5,834
5/16-32 UNEF	0,3125-32 UNEF	7,937	7,422	7,528	7,422
3/8-32 UNEF	0,375-32 UNEF	9,525	9,010	9,121	9,010
7/16-28 UNEF	0,4375-28 UNEF	11,112	10,523	10,640	10,523
1/2-28 UNEF	0,500-28 UNEF	12,700	12,111	12,233	12,111
9/16-24 UNEF	0,5625-24 UNEF	14,288	13,599	13,729	13,599
5/8-24 UNEF	0,625-24 UNEF	15,875	15,187	15,319	15,187
11/16-24 UNEF	0,6875-24 UNEF	17,462	16,774	16,906	16,774
3/4-20 UNEF	0,750-20 UNEF	19,050	18,224	18,369	18,224
13/16-20 UNEF	0,8125-20 UNEF	20,637	19,812	19,957	19,812
7/8-20 UNEF	0,875-20 UNEF	22,225	21,399	21,544	21,399
15/16-20 UNEF	0,9375-20 UNEF	23,812	22,987	23,724	22,987
1-20 UNEF	1,000-20 UNEF	25,400	24,574	26,228	24,574
1 1/16-18 UNEF	1,0625-18 UNEF	26,987	26,070	26,228	26,071
1 1/8-18 UNEF	1,125-18 UNEF	28,575	27,658	27,815	27,658
1 3/16-18 UNEF	1,1875-18 UNEF	30,162	29,245	29,405	29,245
1 1/4-18 UNEF	1,250-18 UNEF	31,750	30,833	30,993	30,833
1 5/16-18 UNEF	1,3125-18 UNEF	33,337	32,421	32,580	32,421
1 3/8-18 UNEF	1,375-18 UNEF	34,925	34,008	34,168	34,008
1 7/16-18 UNEF	1,4375-18 UNEF	36,512	35,595	35,761	35,595
1 1/2-18 UNEF	1,500-18 UNEF	38,100	37,183	37,348	37,183
1 9/16-18 UNEF	1,5625-18 UNEF	39,687	38,771	38,935	38,771
1 5/8-18 UNEF	1,625-18 UNEF	41,275	40,358	40,523	40,358
1 11/16-18 UNEF	1,6875-18 UNEF	42,862	41,945	41,113	41,945