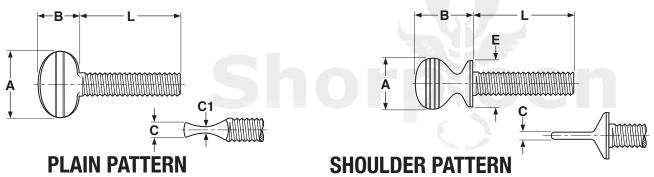
## **THUMB SCREWS**



|   |  |   | Α  | В   | С   | C1   | ı   | _   |
|---|--|---|--|---|---|--|---|---|
| Nominal Size or<br>Basic Screw Diameter         |  | Threads per Inch  | Head Width   | Head Height   | Head<br>Thickness   | Head<br>Thickness<br>(mid-setion)  | Practical Screw Lengths   |   |
|   |  |   | Ref  | Ref   | Ref   | Ref  | Max   | Min   |
| 6   | 0.138  | 32  | 0.41   | 0.29  | 0.08  | 0.03   | 1.00  | 0.25  |
| 8   | 0.164  | 32  | 0.44   | 0.30  | 0.10  | 0.05   | 1.00  | 0.38  |
| 10  | 0.190  | 24 & 32   | 0.55   | 0.43  | 0.12  | 0.06   | 2.00  | 0.38  |
| 12  | 0.216  | 24  | 0.47   | 0.53  | 0.13  | 0.06   | 2.00  | 0.38  |
| 1/4   | 0.250  | 20  | 0.81   | 0.55  | 0.16  | 0.07   | 2.50  | 0.50  |
| 5/16  | 0.312  | 18  | 0.87   | 0.67  | 0.19  | 0.09   | 3.00  | 0.50  |
| 3/8   | 0.375  | 16  | 1.02   | 0.75  | 0.24  | 0.11   | 3.00  | 0.75  |
| 1/2   | 0.500  | 13  | 1.75   | 1.22  | 0.39  | 0.13   | 3.00  | 1.00  |
|   |  |   | THUMB SC   | REWS WITH   | SHOULDER<br>C   | E  |   | <u>.</u>  |
|   | al Size or<br>ew Diameter  | Threads per Inch  |  | 1   |   | E<br>Shoulder<br>Diameter  | Practical Sc  |   |
|   |  |   | Α  | В   | C<br>Head   | Shoulder   | 1   |   |
|   |  |   | A<br>Head Width  | B<br>Head Height  | C<br>Head<br>Thickness  | Shoulder<br>Diameter   | Practical Sc  | rew Length  |
| Basic Scr                                       | ew Diameter  | Inch  | A<br>Head Width<br>Ref   | B<br>Head Height<br>Ref                                   | C<br>Head<br>Thickness<br>Ref   | Shoulder<br>Diameter<br>Ref  | Practical Sc<br>Max   | rew Length  |
| Basic Scr                                       | ew Diameter  0.138   | Inch 32   | A Head Width Ref 0.28  | B<br>Head Height<br>Ref<br>0.30                           | C<br>Head<br>Thickness<br>Ref<br>0.05   | Shoulder<br>Diameter<br>Ref<br>0.24  | Practical Sc<br>Max<br>0.75   | rew Length  |
| Basic Scr                                       | 0.138<br>0.164   | 32<br>32  | A Head Width Ref 0.28 0.33   | B Head Height Ref 0.30 0.39                               | C Head Thickness Ref 0.05 0.05  | Shoulder<br>Diameter<br>Ref<br>0.24<br>0.27  | Practical Sc<br>Max<br>0.75<br>0.75   | Min<br>0.25<br>0.38   |
| 6<br>8<br>10                                    | 0.138<br>0.164<br>0.190  | 32<br>32<br>24 & 32   | A<br>Head Width<br>Ref<br>0.28<br>0.33<br>0.39                               | B Head Height Ref 0.30 0.39 0.49                          | C Head Thickness Ref 0.05 0.05 0.07   | Shoulder<br>Diameter<br>Ref<br>0.24<br>0.27<br>0.33                                | Practical Sc<br>Max<br>0.75<br>0.75<br>1.00   | Min<br>0.25<br>0.38   |
| 6<br>8<br>10<br>12                              | 0.138<br>0.164<br>0.190<br>0.216                                     | 32<br>32<br>24 & 32<br>24   | A<br>Head Width<br>Ref<br>0.28<br>0.33<br>0.39<br>0.47                       | B<br>Head Height<br>Ref<br>0.30<br>0.39<br>0.49<br>0.53   | C Head Thickness Ref 0.05 0.05 0.07 0.13  | Shoulder<br>Diameter<br>Ref<br>0.24<br>0.27<br>0.33<br>0.39                        | Practical Sc<br>Max<br>0.75<br>0.75<br>1.00<br>2.00                                       | Min<br>0.25<br>0.38<br>0.38<br>0.38                             |
| 6<br>8<br>10<br>12<br>1/4                       | 0.138<br>0.164<br>0.190<br>0.216<br>0.250                            | 32<br>32<br>32<br>24 & 32<br>24 & 20 & 28                                   | A<br>Head Width<br>Ref<br>0.28<br>0.33<br>0.39<br>0.47<br>0.48               | B Head Height Ref 0.30 0.39 0.49 0.53 0.57                | C Head Thickness Ref 0.05 0.05 0.07 0.13 0.10                                   | Shoulder<br>Diameter<br>Ref<br>0.24<br>0.27<br>0.33<br>0.39<br>0.43                | Practical Sc<br>Max<br>0.75<br>0.75<br>1.00<br>2.00<br>1.50                               | Min<br>0.25<br>0.38<br>0.38<br>0.38<br>0.50                     |
| 6<br>8<br>10<br>12<br>1/4<br>5/16               | 0.138<br>0.164<br>0.190<br>0.216<br>0.250<br>0.312                   | 32<br>32<br>24 & 32<br>24 & 20<br>24<br>20 & 28                             | A Head Width  Ref 0.28 0.33 0.39 0.47 0.48 0.57                              | B Head Height Ref 0.30 0.39 0.49 0.53 0.57 0.73           | C Head Thickness Ref 0.05 0.05 0.07 0.13 0.10 0.13                              | Shoulder Diameter  Ref 0.24 0.27 0.33 0.39 0.43 0.57                               | Practical Sc<br>Max<br>0.75<br>0.75<br>1.00<br>2.00<br>1.50                               | min 0.25 0.38 0.38 0.50 0.50                                    |
| 6<br>8<br>10<br>12<br>1/4<br>5/16<br>3/8<br>1/2 | 0.138<br>0.164<br>0.190<br>0.216<br>0.250<br>0.312<br>0.375<br>0.500 | 32<br>32<br>24 & 32<br>24 = 20 & 28<br>18<br>16                             | A Head Width  Ref 0.28 0.33 0.39 0.47 0.48 0.57 0.71 0.90                    | B Head Height Ref 0.30 0.39 0.49 0.53 0.57 0.73 0.88 1.18 | C Head Thickness Ref 0.05 0.05 0.07 0.13 0.10 0.13 0.21 0.13                    | Shoulder Diameter  Ref 0.24 0.27 0.33 0.39 0.43 0.57 0.71 0.84                     | Practical Sc<br>Max<br>0.75<br>0.75<br>1.00<br>2.00<br>1.50<br>1.50<br>2.00<br>2.00       | Min 0.25 0.38 0.38 0.38 0.50 0.50 0.75 1.00                     |
| 6<br>8<br>10<br>12<br>1/4<br>5/16<br>3/8<br>1/2 | 0.138<br>0.164<br>0.190<br>0.216<br>0.250<br>0.312<br>0.375<br>0.500 | 32<br>32<br>24 & 32<br>24 & 28<br>28<br>18<br>16                            | A Head Width  Ref 0.28 0.33 0.39 0.47 0.48 0.57 0.71 0.90                    | B Head Height Ref 0.30 0.39 0.49 0.53 0.57 0.73 0.88 1.18 | C Head Thickness Ref 0.05 0.05 0.07 0.13 0.10 0.13 0.21 0.13 ecrews may not all | Shoulder Diameter  Ref 0.24 0.27 0.33 0.39 0.43 0.57 0.71 0.84                     | Practical Sc<br>Max<br>0.75<br>0.75<br>1.00<br>2.00<br>1.50<br>1.50<br>2.00<br>2.00       | rew Length  Min  0.25  0.38  0.38  0.38  0.50  0.50  0.75  1.00 |
| 6 8 10 12 1/4 5/16 3/8 1/2                      | 0.138<br>0.164<br>0.190<br>0.216<br>0.250<br>0.312<br>0.375<br>0.500 | 32<br>32<br>24 & 32<br>24 & 20 & 28<br>18<br>16<br>13<br>in head dimensions | A Head Width  Ref 0.28 0.33 0.39 0.47 0.48 0.57 0.71 0.90 from different mar | B Head Height Ref 0.30 0.39 0.49 0.53 0.57 0.73 0.88 1.18 | C Head Thickness Ref 0.05 0.05 0.07 0.13 0.10 0.13 0.21 0.13 ecrews may not all | Shoulder Diameter  Ref 0.24 0.27 0.33 0.39 0.43 0.57 0.71 0.84 ways conform to the | Practical Sc  Max  0.75  0.75  1.00  2.00  1.50  2.00  2.00  2.00  2.00  2.00  2.00  2.00 | rew Length  Min  0.25  0.38  0.38  0.38  0.50  0.50  0.75  1.00 |

| Description                 | A cold headed, one-piece screw with rolled threads and a flattened head designed for manual turning without a dr available in two varieties—with and without a shoulder under the head. The shoulder flares to a circular shape of a di head diameter of the screw.  |   |  |  |  |
|-----------------------------|--|---|--|--|--|
| Applications/<br>Advantages | For use in applications where the fastener is frequently adjusted and where tightening torque greater than that achieved with finger pressure is not required. A shoulder-pattern allows the head of the screw to seat flush against the mating surface and helps avoid over-tightening of the fastener which could result in stripped mating threads. |   |  |  |  |
| Billion de la               | Steel  | Stainless   |  |  |  |
| Material                    | Commercial quality carbon steel.   | 18-8 Stainless  |  |  |  |
| Tensile Strength            | 48,000 psi. minimum  | -   |  |  |  |
| Plating                     | See Appendix-A for plating information.  | Stainless thumb screws are typically supplied without secondary finishes. |  |  |  |