



**PennEngineering**  
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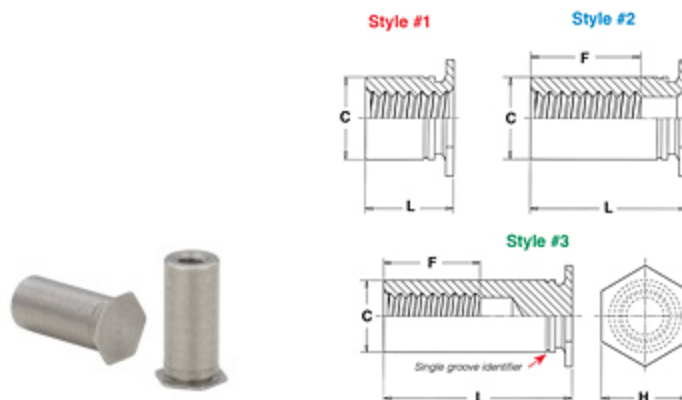
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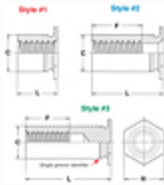
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**Part # TSO4-440-562, Threaded Standoffs for Stainless Sheets as Thin as .025" - Types TSO4 – Unified**



**Specifications**

|                                              |                                                                                     |
|----------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Thread Size</b>                           | .112-40 (#4-40)                                                                     |
| <b>Thread Code</b>                           | 440                                                                                 |
| <b>Length Code</b>                           | 562                                                                                 |
| <b>Style<sup>1</sup></b>                     | #3                                                                                  |
| <b>Min. Sheet Thickness</b>                  | .025 in                                                                             |
| <b>Hole Size in Sheet + .003 - .000</b>      | .166 in                                                                             |
|                                              | .165 in                                                                             |
| <b>C + .000 - .005</b>                       |  |
| <b>F - Min. Thread Depth</b>                 | .220 in                                                                             |
| <b>H - Nom.</b>                              | .187 in                                                                             |
| <b>L - Length ± .003<sup>2</sup></b>         | .562 in                                                                             |
| <b>Min. Dist. Hole C/L to Edge</b>           | .23 in                                                                              |
| <b>For Use in Sheet Hardness<sup>3</sup></b> | HRB 88 / HB 183 or Less                                                             |
| <b>Thread Specification</b>                  | Internal, ANSI B1.1, 2B                                                             |

|                          |                                        |                 |
|--------------------------|----------------------------------------|-----------------|
| <b>Fastener Material</b> | Heat treated<br>400 Series             | Stainless Steel |
| <b>Standard Finish</b>   | Passivated and/or tested per ASTM A380 |                 |

<sup>1</sup> Style #1 - Thru-threaded.  
Style #2 - Screw might not pass through unthreaded end. Tapped to minimum full thread depth shown. Incomplete threads on tap may allow screw to pass through.  
Style #3 - Blind.

<sup>2</sup> Available in other lengths on special order.

<sup>3</sup> HRB - Hardness Rockwell "B" Scale. HB - Hardness Brinell.