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## Part # S-0428-3ZI, Self-Clinching Nuts - Types S, SS, CLS, CLSS, SP - Unified

Type S, SS, CLS, and CLSS nuts provide load-bearing threads in thin sheets with high pushout and torque-out resistance.

Type SP, PEM 300® nuts provide strong load-bearing threads in stainless steel sheets as thin as .030".

Types S / SS are recommended for use in steel or aluminum sheets HRB (Rockwell "B" scale) 80 or less and HB (Hardness Brinell) 150 or less.

Type SP is recommended for use in stainless steel sheets HRB (Rockwell "B" scale) 90 or less and HB (Hardness Brinell) 185 or less.



### Specifications

**Thread Size** .250-28 (1/4-28)

**Thread Code** 0428

**Shank Code** 3

**A (Shank) Max.** .120 in



<b>Rec. Min. Sheet Thickness<sup>(1)</sup></b>	.125 in
<b>Hole Size in Sheet + .003 - .000</b>	.344 in
<b>C Max.</b>	.343 in
<b>E ± .010</b>	.440 in
<b>T ± .010</b>	.170 in
<b>Min. Dist. Hole C/L to Edge<sup>(2)</sup></b>	.34 in
<b>For Use in Sheet Hardness<sup>(3)</sup></b>	HRB 80 / HB 150 or less
<b>Thread Specification</b>	Internal, ASME B1.1, 2B
<b>Fastener Material</b>	Heat-Treated Carbon Steel
<b>Standard Finish</b>	Zinc plated per ASTM B633, SC1 (5µm), Type III, colorless
<b>CAD Supplier</b>	PennEngineering® (PEM®)

<sup>1</sup> For maximum performance, we recommend that you use the maximum shank length for your sheet thickness.

<sup>2</sup> To minimize sheet distortion and maximize product performance, use a centerline-to-edge value greater or equal to the value specified.

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