



PennEngineering

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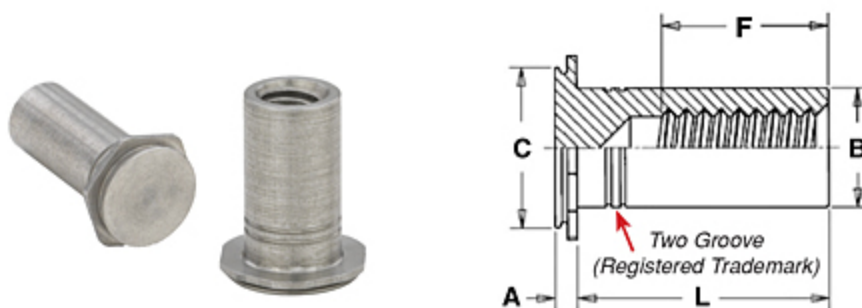
Part # CSOS-032-12, Stainless Steel Standoffs - Types CSS, CSOS - Unified

These standoffs ensure permanent mounting in metal sheets as thin as .062 in.

The fastener head is locked securely in a blind, milled hole and is able to handle substantial loads. The concealed-head feature allows the side of the sheet opposite installation to remain smooth.

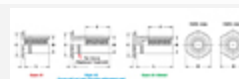
Sheet preparation only requires a milled blind hole to the recommended minimum depth. Center-cutting end mills for hole preparation are available from PennEngineering. Installation of the concealed-head studs and standoffs is

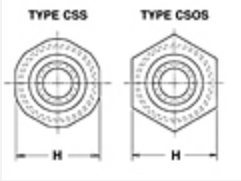
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Specifications

Thread Size	.190-32 (#10-32)
Thread Code	032
Length Code	12
Material Code	S
Style	#3
Shank	Long
Min. Sheet Thickness	.093 in
Blind Mounting Hole Diameter + .003 - .000	.344 in
Min. Depth of Blind Hole¹	.075 in
L - Length + .002 -.005	.750 in
A Max.	.072 in



B Max.²	.290 in	
C Max.	.343 in	
	.375 in	
H Nom.		
Min. Dist. Hole C/L to Edge	.281 in	
For Use in Sheet Hardness	HRB 70 / HB 125 or Less	
Thread Specification	Internal, ANSI B1.1, 2B	
Fastener Material	300 Series Stainless Steel	
Standard Finish	Passivated and/or tested per ASTM A380	
CAD Supplier	PennEngineering® (PEM®)	
Min. Depth Full Thread F	.375 in	

¹ Blind mounting holes may be deeper than minimums except where sheet material is at or near minimum thickness. Fasteners should always be installed so the flange is flush with the surface of the sheet.

² If standoff is used as a bushing, the hole in attached part must not exceed "B" plus .020" / 0.51 mm.