

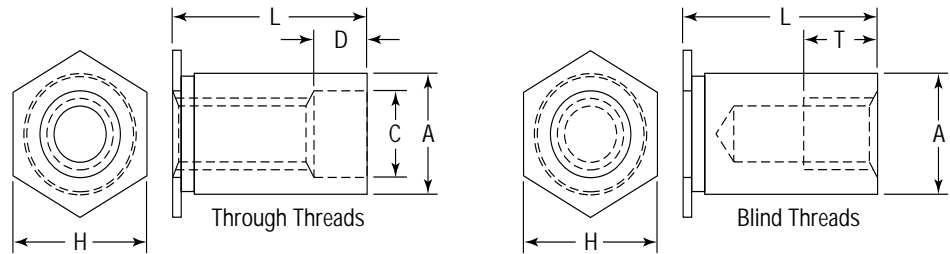


Self-Clinching Standoffs

Series CFSO, CFSOS, CFSOA, CFBSO, CFBSOS & CFBSOA



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All Measurements In Inches

Dimensions & Specifications

Thread Size	Part Number	Lengths L +.002 -.005 in.														A Dim. +003 -000	H Hex Dim. (Nom.)	C Counter- bore Dia.	Min.	Min.			
		.125	.1875	.250	.3125	.375	.4375	.500	.5625	.625	.6875	.750	.8125	.875	.9375						1.00	1.0625	
#6-32	CFSO																	.213	.212	.25	.156	.27	.04
	CFSOS	-4	-6	-8	-10	-12	-14	-16	-18	-20	-22	-24	-26	-28	-30								
	CFSOA																						
	CFBSO																						
	CFBSOS				-10	-12	-14	-16	-18	-20	-22	-24	-26	-28	-30	-32	-34						
#6-32	CFSOA																.281	.280	.3125	.156	.31	.05	
	CFBSO																						
	CFBSOS				-10	-12	-14	-16	-18	-20	-22	-24	-26	-28	-30	-32							-34
	CFBSOA																						
	CFSO																						
#8-32	CFSOS	-4	-6	-8	-10	-12	-14	-16	-18	-20	-22	-24	-26	-28	-30	.281	.280	.3125	.188	.31	.05		
	CFSOA																						
	CFBSO																						
	CFBSOS				-10	-12	-14	-16	-18	-20	-22	-24	-26	-28	-30							-32	-34
	CFBSOA																						
#10-32	CFSO																.281	.280	.3125	.203	.31	.05	
	CFSOS	-4	-6	-8	-10	-12	-14	-16	-18	-20	-22	-24	-26	-28	-30								
	CFSOA																						
	CFBSO																						
	CFBSOS				-10	-12	-14	-16	-18	-20	-22	-24	-26	-28	-30	-32							-34
	CFBSOA																						
	T ±.0156				.1563	.1875	.25				.375												
	D ±.0156			None		.1875				.3125		.4375											

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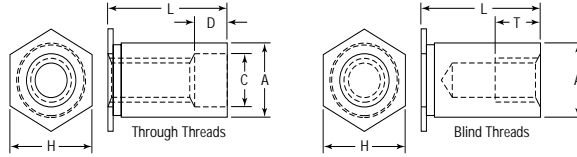


Self-Clinching Standoffs

Series CFSO, CFSOS, CFSOA, CFBSO, CFBSOS & CFBSOA



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All Measurements In Millimeters

Dimensions & Specifications

Thread Size	Part Number	Lengths L +0.05 -0.13 mm												+0.08 -0.00	A Dim. +0.00 -0.13	H Hex Dim. (Nom.)	C Counter- bore Dia.	Min.	Min.		
		3	4	6	8	10	12	14	16	18	20	22	25								
M3	CFSO	M3	-3	-4	-6	-8	-10	-12	-14					4.2	4.19	4.8	3.2	6.0	1.0		
	CFSOS																				
	CFSOA																				
	CFBSO																				
	CFBSOS																				
	CFBSOA																				
M3	CFSO	3.5M3	-3	-4	-6	-8	-10	-12	-14	-16	-18			5.4	5.38	6.4	3.2	7.0	1.0		
	CFSOS																				
	CFSOA																				
	CFBSO																				
	CFBSOS																				
	CFBSOA																				
M3.5	CFSO	M3.5	-3	-4	-6	-8	-10	-12	-14	-16	-18			5.4	5.38	6.4	4.0	7.0	1.0		
	CFSOS																				
	CFSOA																				
	CFBSO																				
	CFBSOS																				
	CFBSOA																				
M4	CFSO	M4	-3	-4	-6	-8	-10	-12	-14	-16	-18	-20	-22	7.2	7.11	7.9	4.8	8.0	1.3		
	CFSOS																				
	CFSOA																				
	CFBSO																				
	CFBSOS																				
	CFBSOA																				
M5	CFSO	M5	-3	-4	-6	-8	-10	-12	-14	-16	-18	-20	-22	7.2	7.11	7.9	5.2	8.0	1.3		
	CFSOS																				
	CFSOA																				
	CFBSO																				
	CFBSOS																				
	CFBSOA																				
T ± 0.4				.3.2	4.0	5.0	6.5	9.5													
D ± 0.4		None			4.0			8.0			11.0										

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Self-Clinching Standoffs

Series CFSO, CFSOS, CFSOA, CFBSO, CFBSOS & CFBSOA



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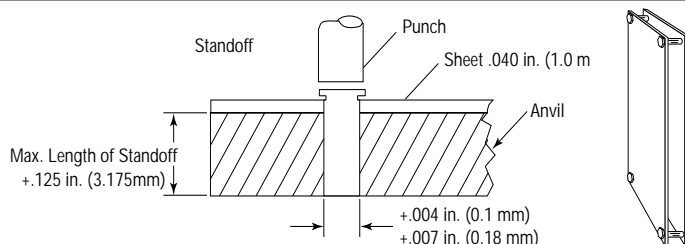
Installation & Performance Data

		Sheet Material: .060" 5052-H34 Aluminum					.060" Cold-rolled Steel				
Thread Size	Standoff Material	Installation	Pushout	Torque-out	Pull	Installation	Pushout	Torque-out	Pull	Rec Tighten Torque Max. (in. lbs.)	
		(lbs.)	(lbs.)	(in.- lbs.)	Through	(lbs.)	(lbs.)	(in.- lbs.)	Through		
INCH (in.)	440	Steel	1075	155	10	270	2100	220	18	225	4.7
		Stainless Steel	1075	155	10	220	2100	220	18	260	3.6
		Aluminum	1075	155	10	160	nr	nr	nr	nr	2.7
	6440, 632	Steel	1680	290	24	300	3200	410	32	375	4.6, 8.6
		Stainless Steel	1680	290	24	235	3200	410	32	300	3.6, 6.8
		Aluminum	1680	290	24	180	nr	nr	nr	nr	2.7, 5.1
	8632, 832, 032	Steel	2350	380	44	560	3900	550	72	690	8.6, 17, 30
		Stainless Steel	2350	380	44	450	3900	550	72	550	6.8, 13, 24
		Aluminum	2350	380	44	340	nr	nr	nr	nr	5.2, 10, 17
		Sheet Material: 1.5mm 5052-H34 Aluminum					1.5mm Cold-rolled Steel				
Thread Size	Standoff Material	Installation	Pushout	Torque-out	Pull	Installation	Pushout	Torque-out	Pull	Rec Tighten Torque Max. (N•m)	
		(kN)	(N)	(N•m)	Through (N)	(kN)	(N)	(N•m)	Through (N)		
METRIC (mm)	M3	Steel	4.7	700	1.2	1230	9.6	990	2.1	1450	0.5
		Stainless Steel	4.7	700	1.2	985	9.6	990	2.1	1150	0.4
		Aluminum	4.7	700	1.2	740	nr	nr	nr	nr	0.3
	3.5M3	Steel	7.4	1310	2.79	1350	14.5	1850	3.9	1670	0.5
		Stainless Steel	7.4	1310	2.79	1100	14.5	1850	3.9	1350	0.4
		Aluminum	7.4	1310	2.79	810	nr	nr	nr	nr	0.3
	M4, M5	Steel	10.5	1750	5.01	2550	17.6	2460	8.45	3100	1.9, 3.4
		Stainless Steel	10.5	1750	5.01	2020	17.6	2460	8.45	2450	0.9, 2.7
		Aluminum	10.5	1750	5.01	1525	nr	nr	nr	nr	1.1, 2.1

nr = Not recommended.

RECOMMENDED INSTALLATION PROCEDURE

1. Insert Standoff through hole in sheet into anvil.
2. Apply only sufficient squeezing force between parallel surfaces of punch and anvil to embed hex head flush in sheet. Avoid excessive pressures.



Above



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