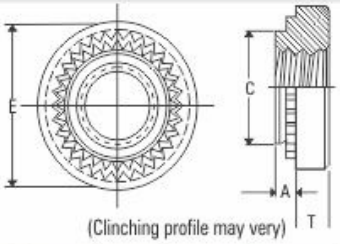
STATE ENTERPRISES

Weld Less Fastening Systems

SELF CLINCHING FASTENERS

NUTS (Metric)- TYPES SE- S, SE- SS, SE- CLS, And SE- CLSS:

STEEL AND STAINLESS STEEL



(Clinching profile may very)

Thread Size X Pitch	Type Fastener Material		Thread Code	Sheet Code	A (Shank) Max.	Min. Sheet Thickness	Hole Size in Sheet + 0.08	C Max.	E +0.25	T+0.25	Min. Dis. Hole C/L to Edge
	Carbon Steel	Stainless Steel									
M2 x 0.4	SE-S	SE-CLS	M2	0	0.77	0.8-1	4.22	4.22	6.3	1.5	4.8
				1	0.97	1					
				2	1.38	1.4					
M2.5 x 0.45	SE-S	SE-CLS	M2.5	0	0.77	0.8-1	4.22	4.22	6.3	1.5	4.8
				1	0.97	1					
				2	1.38	1.4					
M3 x 0.5	SE-S	SE-CLS	M3	0	0.77	0.8-1	4.22	4.22	6.3	1.5	4.8
				1	0.97	1					
				2	1.38	1.4					
M3.5 x 0.6	SE-S	SE-CLS	M3.5	0	0.77	0.8-1	4.75	4.73	7.1	1.5	5.6
				1	0.97	1					
				2	1.38	1.4					
M4 x 0.7	SE-S	SE-CLS	M4	0	0.77	0.8-1	5.41	5.38	7.9	2	6.9
				1	0.97	1					
				2	1.38	1.4					
M5 x 0.8	SE-SS	SE-CLSS	M5	0	0.77	0.8-1	6.35	6.36	8.7	2	7.1
				1	0.97	1					
				2	1.38	1.4					
M6 x1	SE-S	SE-CLS	M6	0	1.15	1.2	8.75	8.72	11.05	4.08	8.6
				1	1.38	1.4					
				2	2.21	2.3					
M8 x 1.25	SE-S	SE-CLS	M8	1	1.38	1.4	10.5	10.47	12.65	5.47	9.7
				2	2.21	2.3					
M10 x 1.5	SE-S	SE-CLS	M10	1	2.21	2.31	14	13.97	17.35	7.48	13.5
				2	3.05	3.18					

SELF-CLINCHING NUTS FOR STAINLESS STEEL:

(TYPE SE-SP)

Thread size x pitch	Type	Thread Code	Shank Code	A Shank Code	Min. Sheet Thickness	Hole size in sheet +0.08	C Max.	E+0.25	T +0.25	Min. Dist hole C/L to edge
M3 x 0.5	SE-SP	M 3	0	0.77	0.8.1	4.22	4.22	6.3	1.5	4.8
			1	0.97	1.01-1.39					
			2	1.38	1.4 Min					
M4 x 0.7	SE-SP	M4	0	0.77	0.8.1	5.41	5.38	7.9	02	6.9
			1	0.97	1.01-1.39					
			2	1.38	1.4 Min					
M5 x 0.8	SE-SP	M5	0	0.77	0.8.1	6.35	6.38	8.7	02	7.1
			1	0.97	1.01-1.39					
			2	1.38	1.4 Min					
M6 x 1	SE-SP	M6	1	1.38	1.4 Min	8.75	8.72	11.1	4.1	8.6
			2	2.21	2.3					

ALUMINUM SELF-CLINGHING NUTS (METRIC):

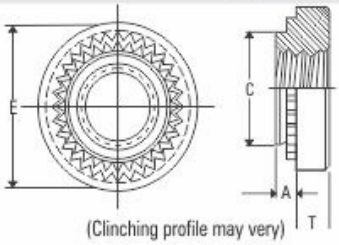
(TYPE SE- CLA)

Thread size x pitch	Type Fastener Material Alumunium	Thread Code	Shank Code	A Shank Code	Min. Sheet Thickness	Hole Size in Sheet +0.08	C Max.	E +0.25	T +0.25	Min Dist. Hole C/L to Edge
M2 x0.4	SE-CLA	M2	1	0.98	1	4.25	4.22	6.3	1.5	4.8
			2	1.38	1.4					
M3 x0.5	SE-CLA	M3	1	0.98	1	4.75	4.73	6.3	2	5.6
			2	1.38	1.4					
M3.5x 0.6	SE-CLA	M3.5	1	0.98	1	5.4	5.38	7.1	2	6.9
			2	1.38	1.4					
M4 x 0.7	SE-CLA	M4	1	0.98	1	6	5.97	7.9	3	7.1
			2	1.38	1.4					
M5 x 0.8	SE-CLA	M5	1	0.98	1	7.5	7.47	9.5	3.8	7.9
			2	1.38	1.4					
M6 x 1	SE-CLA	M6	1	1.38	1.4	8.75	8.72	11.05	4.08	8.6
			2	2.21	2.3					

INSTALLATION

Types SE- S, SE- SS, SE- CLS, SE- CLSS,

- Punch or drill properly sized mounting hole in sheet. Do not perform any secondary operations such as deburring.
- Place fastener into the anvil hole and place the mounting hole over the shank of the fastener as shown in diagram to the right
- With punch and anvil surfaces parallel, apply squeezing force until the head of the nut comes into contact with the sheet material.



(Clinching profile may very)

TYPE SE- SP

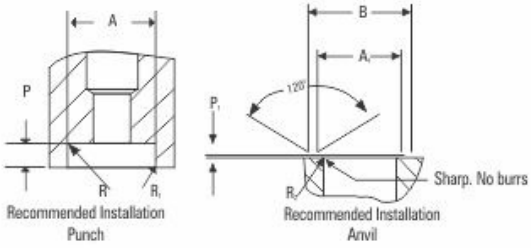
Type SE- SP nuts are installed by placing them in punched or drilled holes in the sheet material and squeezing them into place with any standard press.A special punch with a pilot pin to align the nut and a special anvil with a pilot pin to align the sheet and a raised ring is required to create a proper installation. The raised ring acts as a second dispalacer of the stainless sheet material there by ensuring that the annular groove of the nut is filled.

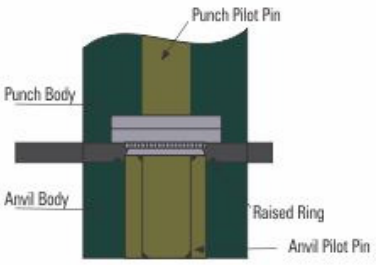
Thread Code	Punch Dimensions (mm) A +0.05	P +0.03	R Max.	R_1 +0.13	Punch Part No
M3	6.48	1.42	0.25	0.13	8002695
M3.5	7.26	1.42	0.25	0.13	8002696
M4	8.05	1.93	0.25	0.13	8002697
M5	8.84	1.93	0.25	0.13	8002698

Thread Code	Anvil Dimensions (mm) A_1 +0.05	B Nom	P +0.3	R_2 Max	Punch Part No
M3	5.05	6.63	.23	.08	8002687
M3.5	5.54	7.11	.23	.08	8002688
M4	6.17	7.75	.23	.08	8002689
M5	7.34	8.89	.23	.08	8002690

INSTALLATION REQUIREMENTS

- Sheet hardness must be less than 90 on the Rockwell "B" scale.
- Hole punch should be kept sharp to minimize work hardening around hole.
- Nuts should be installed in punch side of hole
- Nuts should not be installed near bends or other highly cold worked areas where sheet hardness may be greater than 90 on the Rockwell "B" scale.





PERFORMANCE DATA

TYPE SE-S, SE- SS, SE-CLS, and SE- CLSS

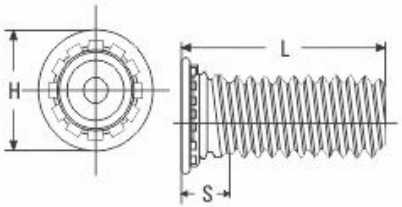
Type	Thread Code	Shank Code	Test Sheet Material	Installation (KN)	Pushout (N)	Torque out (N.M)
SE-S SE-CLS	M2 M2.5 M3	0	5052-H34 Aluminium	6.7-8.9	280	0.9
		1			400	1.13
		2			750	1.47
		0	Cold-rolled Steel	11.2-15.6	470	1.47
		1			550	1.7
		2			1010	2.03
SE-S SE-CLS	M3.5	0	5052-H34 Aluminium	11.2-13.5	280	1.8
		1			400	1.92
		2			840	2.5
		0	Cold-rolled Steel	13.4-26.7	480	1.8
		1			570	2.3
		2			1210	2.3
SE-S SE-CLS	M4	0	5052-H34 Aluminium	11.2-13.4	300	2.37
		1			470	2.6
		2			970	4
		0	Cold-rolled Steel	18-27	490	2.95
		1			645	4
		2			1250	5.1
SE-SS SE-CLSS	M5	0	5052-H34 Aluminium	11.2-15.6	300	3
		1			480	3.6
		2			845	5.7
		0	Cold-rolled Steel	18-38	530	3.6
		1			800	4.5
		2			1112	6.8
SE-S SE-CLS	M6	0	5052-H34 Aluminium	18-32	970	7.9
		1			1580	10.2
		2			1580	14.1
		0	Cold-rolled Steel	27-36	1380	13
		1			1760	17
		2			1760	17
SE-S SE-CLS	M8	1	5052-H34 Aluminium	18-32	1570	13.6
		2			1570	18.1
		1	Cold-rolled Steel	27-36	1870	18.7
		2		18-32	1870	20.3
SE-S SE-CLS	M10	1	5052-H34 Aluminium	22-36	1760	32.7
		2			1760	32.7
		1	Cold-rolled Steel	32-50	2020	36.2
		2			2020	36.2

TYPE SE-SP

Type	Thread Code	Shank Code	Test Sheet Material	Installation (KN)	Pushout (N)	Torque-out (N.M)
SE-SP	M3	0	304 Stainless Steel	35.6	575	1.58
		1		40	725	1.92
		2		44.5	1290	2.03
SE-SP	M4	0	304 Stainless Steel	40	645	3.38
		1		44.5	800	4.18
		2		49	1600	5.08
SE-SP	M5	0	304 Stainless Steel	42.3	800	3.95
		1		46.7	1025	5.08
		2		51.2	1775	6.77
SE-SP	M6	1	304 Stainless	60	2000	17

Flush-Head For Sheet Thickness of .040" /1mm & Greater

TYPE SE-FH/ SE-FHS/ SE-FHA



Thread Size x Pitch	Type Fastener Material			Thread Code	Length code "L" + 0.4 (In M.M.)										Min. sheet Thickness	Hole size Sheet in +0.08	Max Hole in attach Parts	H +0.4	S Max.	Min Dis. Hole C/L to Edge
	Steel	Stainless Steel	Aluminium																	
M2.5x0.45	SE-FH	SE-FHS	SE-FHA	M2.05	6	8	10	12	15	18	NA	NA	NA	NA	1	2.5	3.1	4.1	1.95	5.4
M3x0.5	SE-FH	SE-FHS	SE-FHA	M3	6	8	10	12	15	18	20	25	NA	NA	1	3	3.6	4.6	2.1	5.6
M3.5x0.6	SE-FH	SE-FHS	SE-FHA	M3.5	6	8	10	12	15	18	20	25	30	35	1	3.5	4.1	5.3	2.25	6.4
M4x0.7	SE-FH	SE-FHS	SE-FHA	M4	6	8	10	12	15	18	20	25	30	NA	1	4	4.6	5.9	2.4	7.2
M5x0.8	SE-FH	SE-FHS	SE-FHA	M5	NA	8	10	12	15	18	20	25	30	35	1	5	5.6	6.5	2.7	7.2
M6x1	SE-FH	SE-FHS	SE-FHA	M6	NA	NA	10	12	15	18	20	25	30	35	1.6	6	6.6	8.2	03	7.9
M8x1.25	SE-FH	SE-FHS	SE-FHA	M8	NA	NA	NA	12	15	18	20	25	30	35	2.4	08	8.6	9.6	3.7	9.6

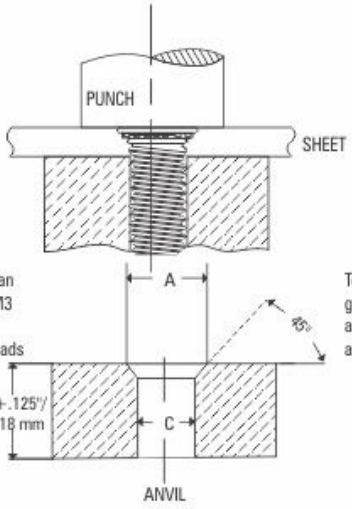
INSTALLATION

For Types SE- FH, SE- FHS, SE- FHA

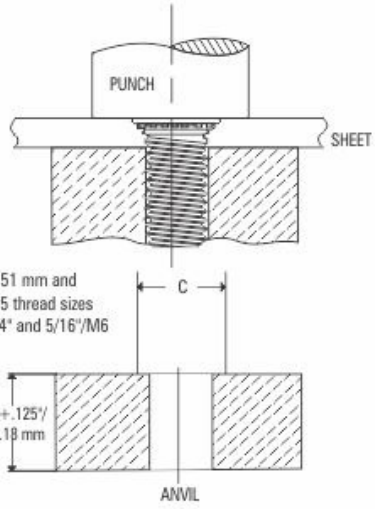
Self Clinching studs are installed by placing them in punched or drilled hole in the steel material and squeezing them into place with any standard press All that is required is a flat or recessed punch and a plain anvil having a hole to clear the thread diameter so that force is applied between the top of the stud head and underside of the steel material. The squeezing action forces the ribs of the stud into the sheet displacing sheet material causing it to fill the annular groove under the lead of the stud.

The Illustrations below indicate suggested tooling for applying installation force. Note that for sheet .060"/1.51 mm and thicker the anvil requires only a straight thru hole to accommodate the stud. For sheets less than .060"/1.51 mm the hole requires a countersink with dimension A at the top to provide for metal flow around the shank of the stud.

	Anvil Dimensions	
Thread code	A+0.1	C+0.08
M2.5	3.1	2.53
M3	3.6	3.03
M3.5	4.1	3.53
M4	4.6	4.03
M5	5.6	5.03
M6	6.6	6.03
M8	8.6	8.03
M10	-	10.03



Tooling for sheet thicknesses less than .060"/ 1.51 mmwith #2 thru #10/ M3 thru M5 thread sizes and less than .093" /2.4 mm for 1/4" /M6 threads



Tooling for sheet thicknesses .060" / 1.51 mm and greater with #2 thru #10 / M3 thru M5 thread sizes and .093" / 2.41 mm and greater for 1/4" and 5/16"/M6 and M8 threads

TYPE SE-FH 4

- Permanent installation into stainless steel sheets as thin as .040" /1 mm.
- For use in sheet hardness of 92 or less on the Rockwell "B" scale.

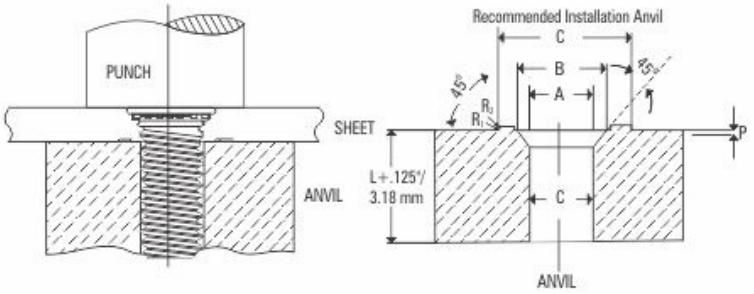
Thread Size x Pitch	Type	Thread Code	Length Code "L" +0.4 (Length Code in millimeters)									Sheet Thick-ness	Hole Size in Sheet +0.08	Max. Hole in Attach Parts	H +0.4	S Max.	Min. Dist. Hole C/L to Edge
M3 x 0.5	SE-FH4	M3	6	8	10	12	15	18	20	NA	NA	1-2.4	3	3.6	4.6	2.1	5.6
M4 x0.7	SE-FH4	M4	6	8	10	12	15	18	20	25	30	1-2.4	4	4.6	5.9	2.4	7.2
M5 x0.8	SE-FH4	M5	NA	8	10	12	15	18	20	25	30	1-2.4	5	5.6	6.5	2.7	7.2
M6 x1	SE-FH4	M6	NA	NA	10	12	15	18	20	25	30	1-2.4	6	6.6	8.2	3	7.9

INSTALLATION

Type SE-FH 4 Self-Clinching Studs for Stainless steel

For Type SE-FH 4 studs, a special anvil with a raised ring is required to create a proper installation. The raised ring acts as a second displcer of the stainless sheet material, thread by ensuring that the annular groove is filled. We do not recommend the use of SE-FH 4 studs in sheet thicknesses greater than .095" / 2.41 mm.
A hardness of Rc55 minimum is required to provide long anvil life.
We recommend measuring the "P" dimension every 5000 installation to ensure that the anvil remains within specification.

Thread Code	Anvil Dimensions						Part No.
	A +0.08	B +0.05	C +0.05	P +.025	R_1 Max	R_2 Max	
M3	3.05	3.81	4.57	0.25	0.08	0.13	8001678
M4	4.04	4.95	5.82	0.25	0.08	0.13	8001677
M5	5.08	6.15	7.16	0.25	0.08	0.13	8001676
M6	6.05	7.87	8.79	0.51	0.08	0.13	8002536



PERFORMANCE DATA

Type SE-FH & SE-FHS Flush-Head Studs

The pushout torque-out, and pull thru values reported here pertain only to the holding power of the stud to the sheet into which it is installed. These values in no way pertain to the axial strength of the threads, allowable fightening forque or design loading of an assembly. The values reported are anticipated destructive averages when all installation specifications and procedures are followed.

Thread code	Max. Net Tightening	Type	Test Sheet Thickness & Material	Sheet Hardness (HRB)	Installation (KN)	Pushout (N)	Torque Nut (N.M.)	Pullthru (N)
M2.5	0.41	SE-FH	1.6mm Aluminium	29	8.9	465	1.0	2600
		SE-FHS	1.6mm Aluminium	29	11.6	465	0.8	1820
		SE-FH	1.5mm Steel	59	11.1	740	1.0	2800
		SE-FHS	1.5mm Steel	59	13.8	740	0.8	1820
M3	0.74	SE-FH	1.6mm Aluminium	29	12.9	600	1.7	3150
		SE-FHS	1.6mm Aluminium	29	12.9	600	1.3	2570
		SE-FH	1.5mm Steel	59	14.7	820	1.7	3840
		SE-FHS	1.5mm Steel	59	14.7	820	1.3	2440
M3.5	1.15	SE-FH	1.6mm Aluminium	29	15.6	800	1.7	3780
		SE-FHS	1.6mm Aluminium	29	15.6	800	1.7	3445
		SE-FH	1.5mm Steel	59	22.3	1335	2.8	3780
		SE-FHS	1.5mm Steel	59	22.3	1335	2.0	3445
M4	1.7	SE-FH	1.6mm Aluminium	29	20	975	2.9	4448
		SE-FHS	1.6mm Aluminium	29	22.3	975	2.9	4180
		SE-FH	1.5mm Steel	59	28.9	1780	4.2	5650
		SE-FHS	1.5mm Steel	59	26.7	1780	2.9	4775
M5	3.5	SE-FH	1.6mm Aluminium	29	24.5	1070	3.5	5170
		SE-FHS	1.6mm Aluminium	29	24.5	1070	3.5	4760
		SE-FH	1.5mm Steel	59	33.4	2000	6.5	6270
		SE-FHS	1.5mm Steel	59	32.5	2000	6.3	6000
M6	5.9	SE-FH	2.4mm Aluminium	28	28.9	1660	7.3	10200
		SE-FHS	2.4mm Aluminium	28	28.9	1660	7.3	9090
		SE-FH	2.2mm Steel	46	44.5	2560	11.3	11300
		SE-FHS	2.2mm Steel	46	44.5	2560	10.1	10600
M8	14.2	SE-FH	2.4mm Aluminium	28	29.8	1910	11.3	10500
		SE-FHS	2.4mm Aluminium	28	29.8	1910	11.3	9540
		SE-FH	2.4mm Steel	46	44.5	2890	19.2	15450
		SE-FHS	2.4mm Steel	46	49.8	2890	17.5	13630

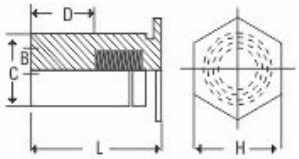
Type SE-FH 4 Self-Clinching Studs

Thread Code	Max. Nut. Tightening Torque (N.M)	Test SheetThickness & Material	Sheet Hardness HRB Max.	Installation (KN)	Pushout (N)	Torqueout (NM)	Pull Thru (N)
M3	.9	1.5 mm Stainless Steel	92	40	2220	1.8	3500
M4	2.1	1.5 mm Stainless Steel	92	50	3210	6.5	8000
M5	4.3	1.5 mm Stainless Steel	92	53	3575	10.7	10000
M6	7.2	1.5 mm Stainless Steel	92	71	4200	15.9	14900

Performance values shown are typical for fasteners properly installed using raised ring tooling in good condition. We recommend replacing installation tooling when the height of the dimension is reduced to 005/0.13 mm due to wear. Reductions in performance may occur as the height of the protrusion wears. Variations in hole preparation, installation force and sheet material type thickness and hardness will affect both performance and tooling life.

SELF CLINCHING STANDOFFS

TYPES SE-SO, SE-SOA, SE-SOS THRU-HOLE THREADED STANDOFFS

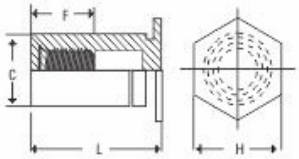


Thread Code	Min. Sheet Thickness	Hole Size in Sheet ±0.08	B Counter Bore Dia. ±0.13	C ±0.13	H Nom.	Min. Dist. Hole C/L to Edge
M3	1.02	4.22	3.2	4.2	4.8	6
3.5M3	1.02	5.41	3.2	5.39	6.4	6.8
M3.5	1.02	5.41	3.9	5.39	6.4	6.8
M4	1.27	7.14	4.8	7.12	7.9	8
M5	1.27	7.14	5.35	7.12	7.9	8

Thread Size x Pitch	Type			Thread Code	Length "L' +0.05-0.13 (Length Code in millimeters)											
	Steel	Stainless Steel	Aluminium													
M3 x 0.5	SE-SO	SE-SOS	SE-SOA	M3	3	4	6	8	10	12	14	16	18	N/A	N/A	N/A
				3.5M 3												
M3.5 x 0.6 M4 x 0.7 M5 x 0.8	SE-SO	SE-SOS	SE-SOA	M3.5 M4 M5	3	4	6	8	10	12	14	16	18	20	22	25
Dimension +0.25						NONE				4			8			11

SELF CLINCHING STANDOFFS

TYPES SE- BSO, SE-BSOA, SE-BSOS BLIND THREADED STANDOFFS

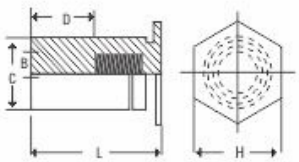


Thread Code	Min Sheet Thickness	Hole Size In Sheet+0.08	C -0.13	H Nom	Min. Dist. Hole C/L To Edge
M3	1.02	4.22	4.2	4.8	6
3.5M3	1.02	5.41	5.39	6.4	6.8
M3.5	1.02	5.41	5.39	6.4	6.8
M4	1.27	7.14	7.12	7.9	8
M5	1.27	7.14	7.12	7.9	8

Thread Size x Pitch	Type			Thread Code	Length "L' +0.05-0.13 (Length Code in millimeters)										
	Steel	Stainless Steel	Aluminium												
M3 x 0.5	SE-BSO	SE-BSOS	SE-BSOA	M3	6	8	10	12	14	16	18	20	22	25	
				3.5M3											
M3.5 x 0.6 M4 x 0.7 M5 x 0.8	SE-BSO	SE-BSOS	SE-BSOA	M3.5 M4 M5	6	8	10	12	14	16	18	20	22	25	
F Dimension Min.					3.2		4	5	6.5			9.5			

SELF CLINCHING STANDOFFS

TYPES SE-SO4 THRU-HOLE THREADED STANDOFFS
(for installation into stainless steel)

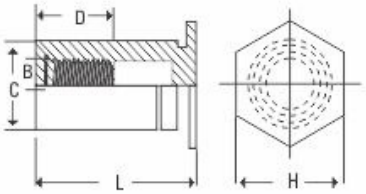


Thread Code	Min. Sheet Thickness	Hole Size in Sheet +0.08	B Counter Bore Dia. +0.13	C +0.13	H Nom.	Min. Dist. Hole C/L to Edge
M3	1.02	4.22	3.25	4.2	4.8	6
3.5M3	1.02	5.41	3.25	5.39	6.4	7.1
M3.5	1.02	5.41	3.9	5.39	6.4	7.1
M4	1.27	7.14	4.8	7.12	7.9	8.4
M5	1.27	7.14	5.35	7.12	7.9	8.4

Thread Size x Pitch	Type	Thread Code	Length "L' +0.05-0.13 (Length Code in millimeters)											
M3 x 0.5	SE-SO4	M3	3	4	6	8	10	12	14	16	18	N/A	N/A	N/A
		3.5M3												
M3.5 x 0.6 M4 x 0.7 M5 x 0.8	SE-SO4	M3.5 M4 M5	3	4	6	8	10	12	14	16	18	20	22	25
D Dimension +0.25					None			4		8			11	

TYPE SE-BS04 BLIND THREADED STANDOFFS

FOR INSTALLATION INTO STAINLESS STEEL



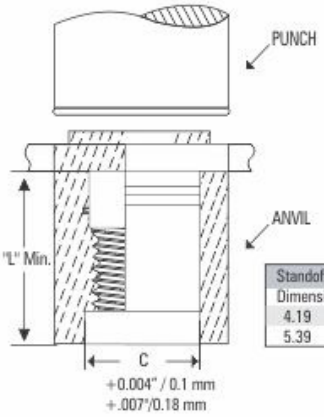
Thread Code	Min. Sheet Thickness	Hole Size in Sheet +0.08	C +0.13	H Nom.	Min. Dist. Hole C/L to Edge
M3	1.02	4.22	4.2	4.8	6
3.5M3	1.02	5.41	5.39	6.4	7.1
M3.5	1.02	5.41	5.39	6.4	7.1
M4	1.27	7.14	7.12	7.9	8.4
M5	1.27	7.14	7.12	7.9	8.4

Thread Size x Pitch	Type	Thread Code	Length "L" +0.05-0.13 (Length Code in millimeters)									
M3 x 0.5	SE-BS04	M3	6	8	10	12	14	16	18	20	22	25
		3.5M3										
M3.5 x 0.6	SE-BS04	M3.5	6	8	10	12	14	16	18	20	22	25
M4 x 0.7		M4										
M5 x 0.8		M5										
F Dimension Min			3.2	4		5	6.5		9.5			

INSTALLATION

Type SE-S0, SE-S0S, SE-S0A, SE-S04 SE-BS0, SE-BS0S SE-BS0A, and SE-BS04

- Punch or drill properly size mounting hole in sheet. Do not perform any secondary operation such as deburring
- Insert standoff through mounting hole of sheet and into anvil as shown in drawing.
- With punch and anvil surfaces parallel, apply only enough squeezing force to embed the standoff's head flush in the sheet. Drawing at right shows suggested tooling for applying these forces.



Standoff "C" Dimensions	Anvil Dimensions A	Anvil Dimensions B
4.19	4.24-4.32	4.75-4.93
5.39	5.41-5.49	6.35-6.53

PERFORMANCE DATA

Type SE-S0, SE-S0S, SE-S0A, SE-BS0, SE-BS0S, and SE-BS0A

Thread code	Standoff Material	Max.Rec. Tightening Torque for Mating screw(N.M)	Test sheet Material: 1.5 mm 5052-H34 Aluminium — Installation (K N)	Pushout (N)	Torque out (N.M)	Pull thru[2] (N)	1.5 mm Cold Rollud Sheet — Installation (K N)	Purshout (N)	Torque out (N.M)	Pull thru[2] (N)
M3	Steel	0.55	4.9	710	1.24	1245	9.8	1000	2.15	1465
	Stainless steel	0.44	4.9	710	1.24	996	9.8	1000	2.15	1172
	Aluminium	0.33	4.9	710	1.24	747	-	-	-	-
3.5M3	Steel	0.55	7.6	1330	1.24	1245	14.7	1860	2.15	1465
	Stainless steel	0.44	7.6	1330	1.24	996	14.7	1860	2.15	1172
	Aluminium	0.33	7.6	1330	1.24	747	-	-	-	-
M3.5	Steel	0.91	7.6	1330	2.82	1375	14.7	1860	3.95	1690
	Stainless steel	0.73	7.6	1330	2.82	1100	14.7	1860	3.95	1352
	Aluminium	0.55	7.6	1330	2.82	825	-	-	-	-
M4 M5	Steel	2, 3.6	10.7	1780	5.08	2575	17.8	2490	8.47	3110
	Stainless steel	1.6, 2.88	10.7	1780	5.08	2060	17.8	2490	8.47	2488
	Aluminim	1.2, 2.16	10.7	1780	5.08	1545	-	-	-	-

Type SE-S04 and SE-BS04

Thread code	Max. Rec. Tightening Torque for Mating Screw (N.M)	Test Sheet Material: 1.3 mm 300 Series Stainless Steel — Installation (K N)	Pushout (N)	Torque-Nut (N.M)	Pull-Thru (N)
M3	0.55	24.5	1493	2.36	2650
3.5M3	0.55	42.3	2877	2.36	3025
M3.5	0.91	42.3	2877	3.06	3025
M4	2	46.7	4003	6.34	6458
M5	3.6	46.7	4003	8.89	6226

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