



SELF CLINCHING FASTENERS

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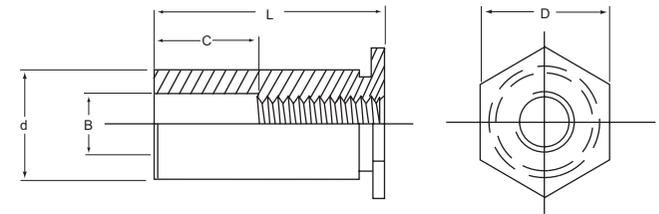
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THSO

SELF CLINCHING STANDOFF SERIES

THROUGH HOLE THREADED STANDOFF [THSO]



DESIGNATION OF PART NUMBER

PRODUCT TYPE	MATERIAL TYPE	THREAD CODE	LENGTH CODE	FINISH CODE
THSO	ST	M4	6	ZN

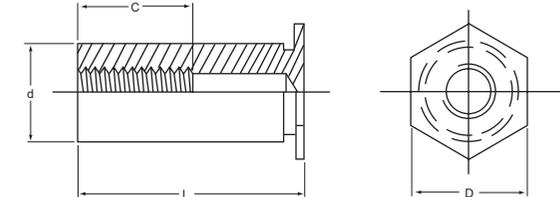
THREAD CODE	THREAD SIZE X PITCH	LENGTH (L) + 0.05 / -0.13																				DIMENSION COUNTER BORE DIA (B) ± 0.13	DIMENSION "d" - 0.13	DIMENSION "D" NOM				
M3	M3 X 0.5	3	-	4	-	6	-	-	8	-	10	-	12	-	14	-	-	16	-	18	-	-	-	-	-	3.2	4.19	4.8
BM3	M3 X 0.5	3	-	4	-	6	-	-	8	-	10	-	12	-	14	-	-	16	-	18	-	-	-	-	-	3.2	5.38	6.4
M3.5	M3.5 X 0.6	3	-	4	-	6	-	-	8	-	10	-	12	-	14	-	-	16	-	18	-	20	22	25	-	3.9	5.38	6.4
M4	M4 X 0.7	3	-	4	-	6	-	-	8	-	10	-	12	-	14	-	-	16	-	18	-	20	22	25	-	4.8	7.11	7.9
M5	M5 X 0.8	3	-	4	-	6	-	-	8	-	10	-	12	-	14	-	-	16	-	18	-	20	22	25	-	5.35	7.11	7.9
440	440	-	3.17	-	4.75	-	6.35	7.92	-	9.53	-	11.09	-	12.7	-	14.27	15.87	-	17.45	-	19.05	-	-	-	-	3.17	4.19	4.76
B440	6440	-	3.17	-	4.75	-	6.35	7.92	-	9.53	-	11.09	-	12.7	-	14.27	15.87	-	17.45	-	19.05	-	-	-	-	3.17	5.38	6.35
632	632	-	3.17	-	4.75	-	6.35	7.92	-	9.53	-	11.09	-	12.7	-	14.27	15.87	-	17.45	-	19.05	20.62	22.23	23.8	25.4	3.96	5.38	6.35
B632	8632	-	3.17	-	4.75	-	6.35	7.92	-	9.53	-	11.09	-	12.7	-	14.27	15.87	-	17.45	-	19.05	20.62	22.23	23.8	25.4	3.96	7.11	7.94
832	832	-	3.17	-	4.75	-	6.35	7.92	-	9.53	-	11.09	-	12.7	-	14.27	15.87	-	17.45	-	19.05	20.62	22.23	23.8	25.4	4.77	7.11	7.94
032	1032	-	3.17	-	4.75	-	6.35	7.92	-	9.53	-	11.09	-	12.7	-	14.27	15.87	-	17.45	-	19.05	20.62	22.23	23.8	25.4	5.15	7.11	7.94
DIMENSION "C" ± 0.25		- NONE					4.75 (Applicable for A)					8 (Applicable for B)					11.09 (Applicable for A&B)											
							4.0 (Applicable for B)					7.92 (Applicable for A)																

BTSO

SELF CLINCHING STANDOFF SERIES

BLIND HOLE THREADED STANDOFF [BTSO]

A	UNIFIED THREAD
B	METRIC THREAD



DESIGNATION OF PART NUMBER

PRODUCT TYPE	MATERIAL TYPE	THREAD CODE	LENGTH CODE	FINISH CODE
BTSO	ST	M4	6	ZN

THREAD CODE	THREAD SIZE X PITCH	LENGTH (L) + 0.05 / -0.13																				DIMENSION "d" - 0.13	DIMENSION "D" NOM			
M3	M3 X 0.5	6	-	8	-	10	-	12	-	14	-	16	-	18	-	20	-	22	-	25	-	-	-	-	4.19	4.8
BM3	M3 X 0.5	6	-	8	-	10	-	12	-	14	-	16	-	18	-	20	-	22	-	25	-	-	-	-	5.38	6.4
M3.5	M3.5 X 0.6	6	-	8	-	10	-	12	-	14	-	16	-	18	-	20	-	22	-	25	-	-	-	-	5.38	6.4
M4	M4 X 0.7	6	-	8	-	10	-	12	-	14	-	16	-	18	-	20	-	22	-	25	-	-	-	-	7.11	7.9
M5	M5 X 0.8	6	-	8	-	10	-	12	-	14	-	16	-	18	-	20	-	22	-	25	-	-	-	-	7.11	7.9
440	440	-	7.92	-	9.53	-	11.09	-	12.7	-	14.27	15.87	-	17.45	-	19.05	-	20.62	-	22.23	23.8	-	25.4	-	4.19	4.76
B440	440	-	7.92	-	9.53	-	11.09	-	12.7	-	14.27	15.87	-	17.45	-	19.05	-	20.62	-	22.23	23.8	-	25.4	-	5.38	6.35
632	632	-	7.92	-	9.53	-	11.09	-	12.7	-	14.27	15.87	-	17.45	-	19.05	-	20.62	-	22.23	23.8	-	25.4	-	5.38	6.35
B632	632	-	7.92	-	9.53	-	11.09	-	12.7	-	14.27	15.87	-	17.45	-	19.05	-	20.62	-	22.23	23.8	-	25.4	-	7.11	7.94
832	832	-	7.92	-	9.53	-	11.09	-	12.7	-	14.27	15.87	-	17.45	-	19.05	-	20.62	-	22.23	23.8	-	25.4	-	7.11	7.94
032	032	-	7.92	-	9.53	-	11.09	-	12.7	-	14.27	15.87	-	17.45	-	19.05	-	20.62	-	22.23	23.8	-	25.4	-	7.11	7.94
DIMENSION "C" MIN. ± 0.25		3.2	4					5	6.5					9.54												

MATERIAL TYPE

ST	STEEL
SS	STAINLESS STEEL
AL	ALUMINIUM

FINISH CODE

ZN	ZINC PLATING
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ADDITIONAL GENERAL DIMENSIONAL DATA

THREAD CODE	MIN OF SHEET THICKNESS (RECOMMENDATION)	SHEET THICKNESS FOR THE HOLE SIZE (TOL +0.08 / -0.00)
M3	1	4.2
BM3	1	5.4
M3.5	1	5.4
M4	1.3	7.2
M5	1.3	7.2
440	1	4.2
B440	1	5.4
632	1	5.4
B632	1.3	7.14
832	1.3	7.14
032	1.3	7.14

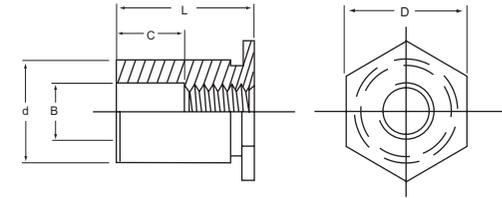
** IMPORTANT NOTES

- 1) ALL THE DIMENSIONS STATED ARE IN MILLIMETERS
- 2) THE THREAD CODES BM3, B440 AND B632 OFFER GREATER WALL THICKNESS
- 3) SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

THSOH

SELF CLINCHING STANDOFF SERIES

THROUGH HOLE THREADED STANDOFF FOR STAINLESS STEEL [THSOH]



DESIGNATION OF PART NUMBER

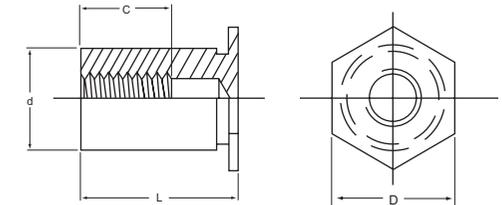
PRODUCT TYPE	MATERIAL TYPE	THREAD CODE	LENGTH CODE
THSOH	SS	M4	6

THREAD CODE	THREAD SIZE X PITCH	LENGTH (L) + 0.05 / -0.13																				DIMENSION COUNTER BORE DIA (B) ± 0.13	DIMENSION "d" -0.13	DIMENSION "D" NOM				
		3	4	6	8	10	12	14	16	18	20	22	25	3.2	4.19	4.8												
M3	M3 X 0.5	3	-	4	-	6	-	8	-	10	-	12	-	14	-	16	-	18	-	-	-	-	-	3.2	4.19	4.8		
BM3	M3 X 0.5	3	-	4	-	6	-	8	-	10	-	12	-	14	-	16	-	18	-	-	-	-	-	3.2	5.38	6.4		
M3.5	M3.5 X 0.6	3	-	4	-	6	-	8	-	10	-	12	-	14	-	16	-	18	-	20	22	25	-	3.9	5.38	6.4		
M4	M4 X 0.7	3	-	4	-	6	-	8	-	10	-	12	-	14	-	16	-	18	-	20	22	25	-	4.8	7.11	7.9		
M5	M5 X 0.8	3	-	4	-	6	-	8	-	10	-	12	-	14	-	16	-	18	-	20	22	25	-	5.35	7.11	7.9		
440	440	-	3.17	-	4.75	-	6.35	7.92	-	9.53	-	11.09	-	12.7	-	14.27	15.87	-	17.45	-	19.05	-	-	-	3.175	4.19	4.76	
B440	6440	-	3.17	-	4.75	-	6.35	7.92	-	9.53	-	11.09	-	12.7	-	14.27	15.87	-	17.45	-	19.05	-	-	-	3.175	5.385	6.35	
632	632	-	3.17	-	4.75	-	6.35	7.92	-	9.53	-	11.09	-	12.7	-	14.27	15.87	-	17.45	-	19.05	20.62	22.23	23.8	25.4	3.962	5.385	6.35
B632	8632	-	3.17	-	4.75	-	6.35	7.92	-	9.53	-	11.09	-	12.7	-	14.27	15.87	-	17.45	-	19.05	20.62	22.23	23.8	25.4	3.962	7.112	7.94
832	832	-	3.17	-	4.75	-	6.35	7.92	-	9.53	-	11.09	-	12.7	-	14.27	15.87	-	17.45	-	19.05	20.62	22.23	23.8	25.4	4.775	7.112	7.94
032	1032	-	3.17	-	4.75	-	6.35	7.92	-	9.53	-	11.09	-	12.7	-	14.27	15.87	-	17.45	-	19.05	20.62	22.23	23.8	25.4	5.156	7.112	7.94
DIMENSION "C" ± 0.25		NONE					4.75					8					11											

BTSOH

SELF CLINCHING STANDOFF SERIES

BLIND THREADED STANDOFF FOR STAINLESS STEEL [BTSOH]



DESIGNATION OF PART NUMBER

PRODUCT TYPE	MATERIAL TYPE	THREAD CODE	LENGTH CODE
BTSOH	SS	M4	6

THREAD CODE	THREAD SIZE X PITCH	LENGTH (L) + 0.05 / -0.13																				DIMENSION "d" -0.13	DIMENSION "D" NOM		
		6	8	10	12	14	16	18	20	22	25	4.19	4.8												
M3	M3 X 0.5	6	-	8	-	10	-	12	-	14	-	16	-	18	-	20	-	22	-	-	25	-	4.19	4.8	
BM3	M3 X 0.5	6	-	8	-	10	-	12	-	14	-	16	-	18	-	20	-	22	-	-	25	-	5.38	6.4	
M3.5	M3.5 X 0.6	6	-	8	-	10	-	12	-	14	-	16	-	18	-	20	-	22	-	-	25	-	5.38	6.4	
M4	M4 X 0.7	6	-	8	-	10	-	12	-	14	-	16	-	18	-	20	-	22	-	-	25	-	7.11	7.9	
M5	M5 X 0.8	6	-	8	-	10	-	12	-	14	-	16	-	18	-	20	-	22	-	-	25	-	7.11	7.9	
440	440	-	7.92	-	9.52	-	11.09	-	12.7	-	14.27	15.87	-	17.45	-	19.05	-	20.62	-	22.23	23.8	-	25.4	4.19	4.76
B440	440	-	7.92	-	9.52	-	11.09	-	12.7	-	14.27	15.87	-	17.45	-	19.05	-	20.62	-	22.23	23.8	-	25.4	5.385	6.35
632	632	-	7.92	-	9.52	-	11.09	-	12.7	-	14.27	15.87	-	17.45	-	19.05	-	20.62	-	22.23	23.8	-	25.4	5.385	6.35
B632	632	-	7.92	-	9.52	-	11.09	-	12.7	-	14.27	15.87	-	17.45	-	19.05	-	20.62	-	22.23	23.8	-	25.4	7.112	7.94
832	832	-	7.92	-	9.52	-	11.09	-	12.7	-	14.27	15.87	-	17.45	-	19.05	-	20.62	-	22.23	23.8	-	25.4	7.112	7.94
032	032	-	7.92	-	9.52	-	11.09	-	12.7	-	14.27	15.87	-	17.45	-	19.05	-	20.62	-	22.23	23.8	-	25.4	7.112	7.94
DIMENSION "C" ± 0.25		3.2	4					5	6.5					9.54											

MATERIAL TYPE

SS 400 SERIES STAINLESS STEEL

ADDITIONAL GENERAL DIMENSIONAL DATA

THREAD CODE	MIN OF SHEET THICKNESS (RECOMMENDATION)	SHEET THICKNESS FOR THE HOLE SIZE (TOL +0.08 / -0.00)
M3	1	4.2
BM3	1	5.4
M3.5	1	5.4
M4	1.3	7.2
M5	1.3	7.2
440	1	4.2
B440	1	5.4
632	1	5.4
B632	1.3	7.14
832	1.3	7.14
032	1.3	7.14

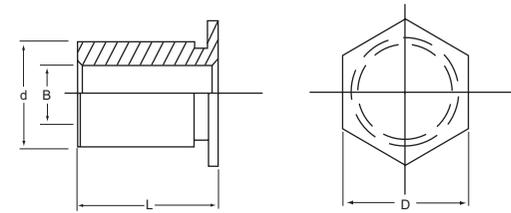
** IMPORTANT NOTES

- 1) ALL THE DIMENSIONS STATED ARE IN MILLIMETERS
- 2) THE THREAD CODES BM3, B440 AND B632 OFFER GREATER WALL THICKNESS
- 3) SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

TUSO

SELF CLINCHING STANDOFF SERIES

THROUGH HOLE UNTHREADED STANDOFF [TUSO]



DESIGNATION OF PART NUMBER

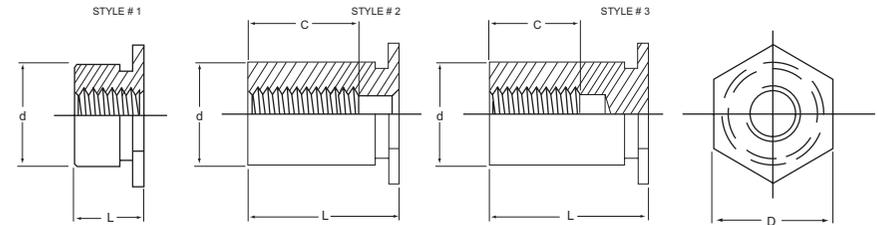
PRODUCT TYPE	MATERIAL TYPE	THREAD CODE	LENGTH CODE	FINISH CODE
TUSO	ST	M143	6.35	ZN

THRU HOLE CODE	THRU HOLE SIZE "B" (DIA. +0.1 / -0.07)	LENGTH (L) + 0.05 / -0.13																		DIMENSION "d" -0.13	DIMENSION ON "D" NOM			
S3.1	3.1	3	-	4	-	6	-	-	8	-	10	-	12	-	14	-	-	16	-	18	-	20	4.19	4.8
M3.1	3.1	3	-	4	-	6	-	-	8	-	10	-	12	-	14	-	-	16	-	18	-	20	5.38	6.4
M3.6	3.6	3	-	4	-	6	-	-	8	-	10	-	12	-	14	-	-	16	-	18	-	20	5.38	6.4
B3.6	3.6	3	-	4	-	6	-	-	8	-	10	-	12	-	14	-	-	16	-	18	-	20	7.11	7.9
B4.1	4.1	3	-	4	-	6	-	-	8	-	10	-	12	-	14	-	-	16	-	18	-	20	7.11	7.9
B5.1	5.1	3	-	4	-	6	-	-	8	-	10	-	12	-	14	-	-	16	-	18	-	20	7.11	7.9
S116	5	-	3.17	-	4.75	-	6.35	7.92	-	9.53	-	11.09	-	12.7	-	14.27	15.87	-	17.45	-	19.05	-	4.19	4.76
M116	5	-	3.17	-	4.75	-	6.35	7.92	-	9.53	-	11.09	-	12.7	-	14.27	15.87	-	17.45	-	19.05	-	5.385	6.35
M143	3.63	-	3.17	-	4.75	-	6.35	7.92	-	9.53	-	11.09	-	12.7	-	14.27	15.87	-	17.45	-	19.05	-	5.385	6.35
B143	3.63	-	3.17	-	4.75	-	6.35	7.92	-	9.53	-	11.09	-	12.7	-	14.27	15.87	-	17.45	-	19.05	-	7.112	7.94
B169	4.29	-	3.17	-	4.75	-	6.35	7.92	-	9.53	-	11.09	-	12.7	-	14.27	15.87	-	17.45	-	19.05	-	7.112	7.94
B194	4.93	-	3.17	-	4.75	-	6.35	7.92	-	9.53	-	11.09	-	12.7	-	14.27	15.87	-	17.45	-	19.05	-	7.112	7.94

TTSO

SELF CLINCHING STANDOFF SERIES

THREADED STANDOFF FOR THIN SHEET [TTSO]



DESIGNATION OF PART NUMBER

PRODUCT TYPE	MATERIAL TYPE	THREAD CODE	LENGTH CODE	FINISH CODE
TTSO	ST	M3	6	ZN

THREAD CODE	THREAD SIZE X PITCH	LENGTH (L) ±0.08																		DIMENSION "d" -0.13	MINIMUM DIMENSION "C"	DIMENSION "D" NOM					
M2.5	M2.5 X 0.45	2.00 ⁽¹⁾	-	3.00 ⁽¹⁾	-	4.00 ⁽¹⁾	-	6.00 ⁽¹⁾	-	8.00 ⁽²⁾	-	10.00 ⁽³⁾	-	12.00 ⁽³⁾	-	14.00 ⁽³⁾	-	16.00 ⁽³⁾	-	18.00 ⁽³⁾	19.00 ⁽³⁾	-	4.19	5.2	4.8		
BM2.5	M2.5 X 0.45	2.00 ⁽¹⁾	-	3.00 ⁽¹⁾	-	4.00 ⁽¹⁾	-	6.00 ⁽¹⁾	-	8.00 ⁽²⁾	-	10.00 ⁽³⁾	-	12.00 ⁽³⁾	-	14.00 ⁽³⁾	-	16.00 ⁽³⁾	-	18.00 ⁽³⁾	19.00 ⁽³⁾	-	5.38	5.2	6.4		
M3	M3 X 0.5	2.00 ⁽¹⁾	-	3.00 ⁽¹⁾	-	4.00 ⁽¹⁾	-	6.00 ⁽¹⁾	-	8.00 ⁽²⁾	-	10.00 ⁽²⁾	-	12.00 ⁽³⁾	-	14.00 ⁽³⁾	-	16.00 ⁽³⁾	-	18.00 ⁽³⁾	19.00 ⁽³⁾	-	4.19	6.2	4.8		
BM3	M3 X 0.5	2.00 ⁽¹⁾	-	3.00 ⁽¹⁾	-	4.00 ⁽¹⁾	-	6.00 ⁽¹⁾	-	8.00 ⁽²⁾	-	10.00 ⁽²⁾	-	12.00 ⁽³⁾	-	14.00 ⁽³⁾	-	16.00 ⁽³⁾	-	18.00 ⁽³⁾	19.00 ⁽³⁾	-	5.38	6.2	6.4		
M3.5	M3.5 X 0.6	N/A	-	3.00 ⁽¹⁾	-	4.00 ⁽¹⁾	-	6.00 ⁽¹⁾	-	8.00 ⁽¹⁾	-	10.00 ⁽²⁾	-	12.00 ⁽²⁾	-	14.00 ⁽³⁾	-	16.00 ⁽³⁾	-	18.00 ⁽³⁾	19.00 ⁽³⁾	-	5.38	7	6.4		
256	256	-	2.286 ⁽¹⁾	-	3.175 ⁽¹⁾	-	4.750 ⁽¹⁾	-	6.350 ⁽¹⁾	7.925 ⁽²⁾	-	9.525 ⁽²⁾	-	11.10 ⁽³⁾	-	12.70 ⁽³⁾	-	14.275 ⁽³⁾	15.875 ⁽³⁾	-	17.45 ⁽³⁾	-	-	19.05 ⁽³⁾	4.19	5.08	4.75
B256	256	-	2.286 ⁽¹⁾	-	3.175 ⁽¹⁾	-	4.750 ⁽¹⁾	-	6.350 ⁽¹⁾	7.925 ⁽²⁾	-	9.525 ⁽²⁾	-	11.10 ⁽³⁾	-	12.70 ⁽³⁾	-	14.275 ⁽³⁾	15.875 ⁽³⁾	-	17.45 ⁽³⁾	-	-	19.05 ⁽³⁾	5.38	5.08	6.35
440	440	-	2.286 ⁽¹⁾	-	3.175 ⁽¹⁾	-	4.750 ⁽¹⁾	-	6.350 ⁽¹⁾	7.925 ⁽²⁾	-	9.525 ⁽²⁾	-	11.10 ⁽²⁾	-	12.70 ⁽³⁾	-	14.275 ⁽³⁾	15.875 ⁽³⁾	-	17.45 ⁽³⁾	-	-	19.05 ⁽³⁾	4.19	5.588	4.75
B440	440	-	2.286 ⁽¹⁾	-	3.175 ⁽¹⁾	-	4.750 ⁽¹⁾	-	6.350 ⁽¹⁾	7.925 ⁽²⁾	-	9.525 ⁽²⁾	-	11.10 ⁽²⁾	-	12.70 ⁽³⁾	-	14.275 ⁽³⁾	15.875 ⁽³⁾	-	17.45 ⁽³⁾	-	-	19.05 ⁽³⁾	5.38	5.588	6.35
632	632	-	N/A	-	3.175 ⁽¹⁾	-	4.750 ⁽¹⁾	-	6.350 ⁽¹⁾	7.925 ⁽¹⁾	-	9.525 ⁽²⁾	-	11.10 ⁽²⁾	-	12.70 ⁽²⁾	-	14.275 ⁽³⁾	15.875 ⁽³⁾	-	17.45 ⁽³⁾	-	-	19.05 ⁽³⁾	5.38	6.858	6.35

MATERIAL TYPE

ST	STEEL
SS	STAINLESS STEEL
AL	ALUMINIUM

FINISH CODE

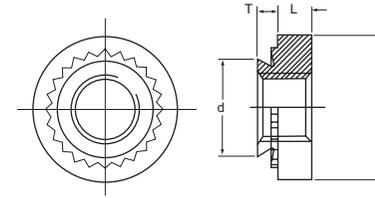
ZN	ZINC PLATING
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** IMPORTANT NOTES

- 1) ALL THE DIMENSIONS STATED ARE IN MILLIMETERS
- 2) THE THREAD CODES BM3, B440 AND B632 OFFER GREATER WALL THICKNESS
- 3) THE THRU HOLE CODE M3.1, B3.6, M116, B143 OFFER GREATER WALL THICKNESS
- 4) SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

CN**SELF CLINCHING NUT SERIES**

SELF CLINCHING NUT [CN]

**DESIGNATION OF PART NUMBER**

PRODUCT TYPE	MATERIAL TYPE	THREAD CODE	LENGTH CODE	FINISH CODE
CN	ST	M3	2	ZN

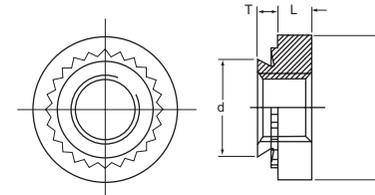
THREAD CODE	THREAD SIZE X PITCH	SHANK CODE (T*MAX)				LENGTH (L) ± 0.25								DIMENSION "d" MAX	DIMENSION "D" ± 0.25
		0	1	2	3										
M2	M2 X 0.4	0.76	0.97	1.37	-	1.5	-	-	-	-	-	-	-	4.22	6.3
M2.5	M2.5 X 0.45	0.76	0.97	1.37	-	1.5	-	-	-	-	-	-	-	4.22	6.3
M3	M3 X 0.5	0.76	0.97	1.37	-	1.5	-	-	-	-	-	-	-	4.22	6.3
M3.5	M3.5 X 0.6	0.76	0.97	1.37	-	1.5	-	-	-	-	-	-	-	4.73	7.1
M4	M4 X 0.7	0.76	0.97	1.37	-	-	-	2	-	-	-	-	-	5.38	7.9
M5	M5 X 0.8	0.76	0.97	1.37	-	-	-	2	-	-	-	-	-	6.38	8.7
M6	M6 X 1.0	1.15	1.37	2.21	-	-	-	-	-	4.08	-	-	-	8.72	11.05
M8	M8 X 1.25	-	1.37	2.21	-	-	-	-	-	-	-	5.47	-	10.47	12.65
M10	M10 X 1.5	-	2.21	3.05	-	-	-	-	-	-	-	-	7.48	13.97	17.35
256	256	0.76	0.97	1.37	-	-	1.78	-	-	-	-	-	-	4.19	6.35
440	440	0.76	0.97	1.37	2.21	-	1.78	-	-	-	-	-	-	4.19	6.35
632	632	0.76	0.97	1.37	2.21	-	1.78	-	-	-	-	-	-	4.75	7.11
832	832	0.76	0.97	1.37	2.21	-	-	-	2.29	-	-	-	-	5.38	7.87
1024	1024	0.76	0.97	1.37	2.21	-	-	-	2.29	-	-	-	-	6.32	8.64
1032	1032	0.76	0.97	1.37	2.21	-	-	-	2.29	-	-	-	-	6.32	8.64
1/4-20	1/4-20	1.14	1.37	2.21	3.05	-	-	-	-	-	-	4.32	-	8.71	11.18

MATERIAL TYPE	
ST	STEEL
SS	STAINLESS STEEL
AL	ALUMINIUM

FINISH CODE	
ZN	ZINC PLATING

CNP**SELF CLINCHING NUT SERIES**

SELF CLINCHING NUTS FOR STAINLESS STEEL SHEET [CNP]

**DESIGNATION OF PART NUMBER**

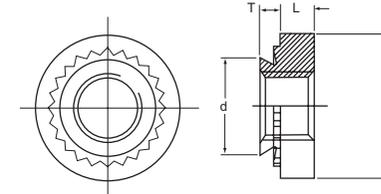
PRODUCT TYPE	MATERIAL TYPE	THREAD CODE	LENGTH CODE	FINISH CODE
CNP	SS	M3	1	ZN

THREAD CODE	THREAD SIZE X PITCH	SHANK CODE (T*MAX)			LENGTH (L) ± 0.25								DIMENSION "d" MAX	DIMENSION "D" ± 0.25	
		0	1	2											
M3	M3 X 0.5	0.76	0.97	1.37	1.5	-	-	-	-	-	-	-	-	4.22	6.3
M4	M4 X 0.7	0.76	0.97	1.37	-	-	2	-	-	-	-	-	-	5.38	7.9
M5	M5 X 0.8	0.76	0.97	1.37	-	-	2	-	-	-	-	-	-	6.38	8.7
M6	M6 X 1	-	1.37	-	-	-	-	-	-	4.1	-	-	-	8.72	11.1
440	440	0.76	0.97	1.37	-	-	1.78	-	-	-	-	-	-	4.19	6.35
632	632	0.76	0.97	1.37	-	-	1.78	-	-	-	-	-	-	4.75	7.11
832	832	0.76	0.97	1.37	-	-	-	-	2.29	-	-	-	-	5.38	7.87
032	032	0.76	0.97	1.37	-	-	-	-	2.29	-	-	-	-	6.32	8.64
0420	1/4-20	-	1.37	-	-	-	-	-	-	-	-	4.32	-	8.71	11.18

* PRODUCT TYPE (CNP) ONLY APPLICABLE FOR MATERIAL 400 SERIES STAINLESS STEEL (SS400)

**** IMPORTANT NOTES**

- 1) ALL THE DIMENSIONS STATED ARE IN MILLIMETERS
- 2) SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.



DESIGNATION OF PART NUMBER

PRODUCT TYPE	MATERIAL TYPE	THREAD CODE	LENGTH CODE
CNT	SS	440	1.65

THREAD CODE	THREAD SIZE X PITCH	T. MAX	LENGTH (L) ± 0.25		DIMENSION "d" MAX	DIMENSION "D" ± 0.25	MIN OF SHEET THICKNESS (RECOMMENDATION)	SHEET THICKNESS FOR THE HOLE SIZE (TOL +0.08)
M2.5	M2.5 X 0.45	0.61	1.4	-	3.79	5.6	0.63	3.8
M3	M3 X 0.5	0.61	1.4	-	4.22	5.6	0.63	4.24
M3.5	M3.5 X 0.6	0.61	1.4	-	4.72	6.40	0.63	4.75
256	256	0.61	-	1.65	3.43	5.6	0.63	3.45
440	440	0.61	-	1.65	4.19	5.6	0.63	4.22
632	632	0.61	-	1.65	4.72	6.4	0.63	4.75

* PRODUCT TYPE (CNT) ONLY APPLICABLE FOR STAINLESS STEEL MATERIAL

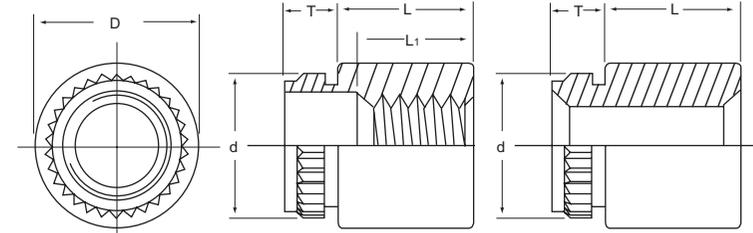
** IMPORTANT NOTES

- 1) ALL THE DIMENSIONS STATED ARE IN MILLIMETERS
- 2) SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

PCB1

BROACHING SERIES

BROACHING TYPE STANDOFF [PCB1]



DESIGNATION OF PART NUMBER

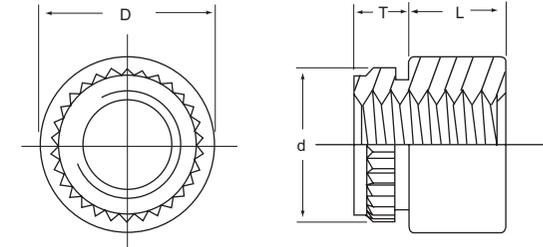
PRODUCT TYPE MATERIAL TYPE THREAD CODE LENGTH CODE FINISH CODE
 PCB1 — ST — 440 — 6 — ZN

THREAD SIZE X PITCH	THRU HOLE +0.10 - 0.08	LENGTH (L) ±0.13															DIMENSION "T" MAX	DIMENSION "d" ± 0.08	DIMENSION "D" ±0.13	
M3 X 0.5	-	3	-	4	-	6	8	-	10	12	-	14	-	16	-	-	-	1.5	4.68	5.56
-	3.6	3	-	4	-	6	8	-	10	12	-	14	-	16	-	-	-	1.5	5.87	7.14
-	4.2	3	-	4	-	6	8	-	10	12	-	14	-	16	-	-	-	1.5	6.81	8.74
440	-	-	3.175	-	6.350	-	-	9.525	-	-	12.70	-	15.875	-	19.050	-	-	1.524	4.67	5.56
632	-	-	3.175	-	6.350	-	-	9.525	-	-	12.70	-	15.875	-	19.050	22.225	25.40	1.524	5.87	7.14
-	2.946	-	3.175	-	6.350	-	-	9.525	-	-	12.70	-	15.875	-	19.050	-	-	1.524	4.67	5.56
-	3.632	-	3.175	-	6.350	-	-	9.525	-	-	12.70	-	15.875	-	19.050	22.225	25.40	1.524	5.87	7.13
MIN.THREAD LENGTH "L1"		FULL THREAD										9.5 (±0.4)			9.5 (±0.4) BLIND					

PCB2

BROACHING SERIES

BROACHING TYPE NUTS [PCB2]



DESIGNATION OF PART NUMBER

PRODUCT TYPE MATERIAL TYPE THREAD CODE LENGTH CODE FINISH CODE
 PCB2 — ST — 632 — 1.651 — ZN

THREAD CODE	THREAD SIZE X PITCH	LENGTH (L) ± 0.13							DIMENSION "d" ±0.08	DIMENSION "D" ±0.13	DIMENSION "L" ±0.13
M2	M2 X 0.4	1.5	-	-	-	-	-	-	4.19	5.56	1.5
M2.5	M2.5 X 0.45	1.5	-	-	-	-	-	-	4.68	5.56	1.5
M3	M3 X 0.5	1.5	-	-	-	-	-	-	4.68	5.56	1.5
M4	M4 X 0.7	-	-	2	-	-	-	-	6.81	8.74	2
M5	M5 X 0.8	-	-	-	-	3	-	-	7.37	9.53	3
256	256	-	1.651	-	-	-	-	-	4.19	5.56	1.651
440	440	-	1.651	-	-	-	-	-	4.67	5.56	1.651
632	632	-	1.651	-	-	-	-	-	5.87	7.14	1.651
832	832	-	-	-	2.438	-	-	-	6.81	8.74	2.438
032	1032	-	-	-	-	-	-	3.226	7.37	9.53	3.226

MATERIAL TYPE

ST	STEEL
SS	STAINLESS STEEL

FINISH CODE

ZN	ZINC PLATING
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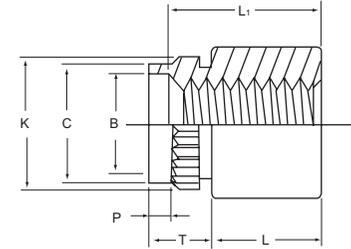
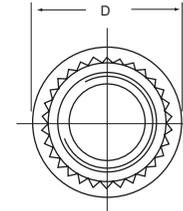
** IMPORTANT NOTES

- 1) ALL THE DIMENSIONS STATED ARE IN MILLIMETERS
- 2) SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

PCB3

BROACHING SERIES

BRASS BROACHING TYPE STANDOFF [PCB3]



DESIGNATION OF PART NUMBER

PRODUCT TYPE	MATERIAL TYPE	THREAD CODE	LENGTH CODE	FINISH CODE
PCB3	BR	440	6	TN

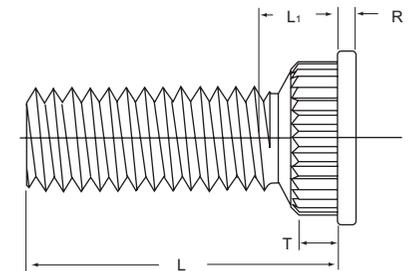
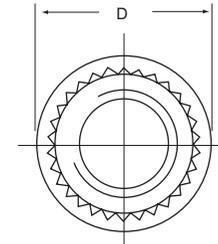
THREAD CODE	THREAD SIZE X PITCH	LENGTH (L) ±0.13														T MAX.	DIMENSION "B" ±0.08	DIMENSION "C" MAX.	DIMENSION "D" ±0.13	DIMENSION "K" ±0.08	DIMENSION "P" ±0.25				
M3	M3 X 0.5	-	2	3	-	4	-	6	-	8	-	10	12	-	14	-	16	-	-	2.28	3.2	4.21	5.56	4.55	1
M4	M4 X 0.7	-	2	3	-	4	-	6	-	8	-	10	12	-	14	-	16	-	-	2.28	5.23	6.4	8.74	6.68	1
440	440	1.575	-	-	3.175	-	4.750	-	6.350	7.925	-	9.525	-	12.70	-	15.875	-	19.05	25.40	2.29	3.10	4.19	5.59	4.55	1.02
632	632	1.575	-	-	3.175	-	4.750	-	6.350	7.925	-	9.525	-	12.70	-	15.875	-	19.05	25.40	2.29	4.34	5.38	7.11	5.74	1.02
MIN. THREAD LENGTH "L1"		FULL														9.5 +/- 0.4		9.52 BLIND							

*PRODUCT TYPE (PCB3) ONLY APPLICABLE FOR BRASS MATERIAL (BR)

PCB4

BROACHING SERIES

BROACHING TYPE NUTS [PCB4]



DESIGNATION OF PART NUMBER

PRODUCT TYPE	MATERIAL TYPE	THREAD CODE	LENGTH CODE	FINISH CODE
PCB4	BR	632	8	TN

THREAD CODE	THREAD SIZE X PITCH	LENGTH (L) ±0.25												DIMENSION "L1" MAX	DIMENSION "R" ±0.13	DIMENSION "D" ±0.25	DIMENSION "T" MAX
M3	M3 X 0.5	6	-	-	8	-	10	12	-	15	-	18	-	2.3	0.51	4.58	1.65
M4	M4 X 0.7	6	-	-	8	-	10	12	-	15	-	18	-	2.3	0.51	5.74	1.65
M5	M5 X 0.8	6	-	-	8	-	10	12	-	15	-	18	-	2.3	0.51	6.6	1.65
440	440	-	6.35	7.925	-	9.525	-	12.70	-	15.875	-	19.05	-	2.3	0.51	4.57	1.65
632	632	-	6.35	7.925	-	9.525	-	12.70	-	15.875	-	19.05	-	2.3	0.51	5.08	1.65
832	832	-	6.35	7.925	-	9.525	-	12.70	-	15.875	-	19.05	-	2.3	0.51	5.72	1.65
032	1032	-	6.35	7.925	-	9.525	-	12.70	-	15.875	-	19.05	-	2.3	0.51	6.35	1.65

MATERIAL TYPE

BR	BRASS
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FINISH CODE

TN	TIN PLATING
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* PRODUCT TYPE PCB4 ONLY APPLICABLE FOR BRASS MATERIAL (BR)

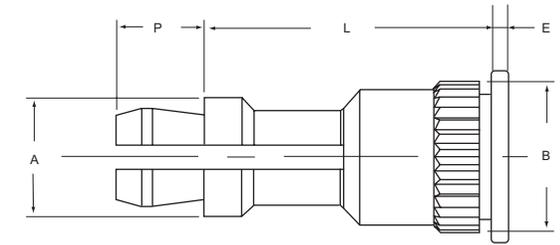
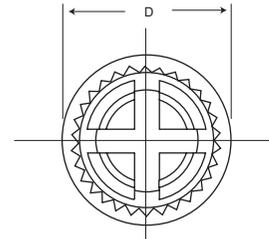
** IMPORTANT NOTES

- 1) ALL THE DIMENSIONS STATED ARE IN MILLIMETERS
- 2) SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

PCB5

BROACHING SERIES

BROACHING SLIP TOP STANDOFFS [PCB5]



DESIGNATION OF PART NUMBER

PRODUCT TYPE	MATERIAL TYPE	THREAD CODE	LENGTH CODE
PCB5	BR	440	6

TOP PANEL MOUNTING HOLE DIAMETER CODE	LENGTH (L) ±0.13																				DIMENSION "A" ±0.13	DIMENSION "B" MAX	DIMENSION "D" ±0.13	DIMENSION "E" ±0.13	DIMENSION "P" ±0.13	
	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	4.77	5.74	6.35	0.51	3.58	
156	6.35	7.92	-	9.53	-	11.10	-	12.7	-	14.27	15.88	-	-	19.05	-	22.23	-	25.4	-	4.77	5.74	6.35	0.51	3.58		

MATERIAL TYPE

BR	BRASS
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FINISH CODE

TN	TIN PLATING
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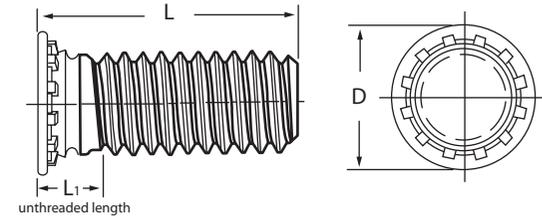
* PRODUCT TYPE (PCB5) ONLY APPLICABLE FOR BRASS MATERIAL (BR)

** IMPORTANT NOTES

- 1) ALL THE DIMENSIONS STATED ARE IN MILLIMETERS
- 2) SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

BT**STUD SERIES**

SELF CLINCHING STUD [BT]

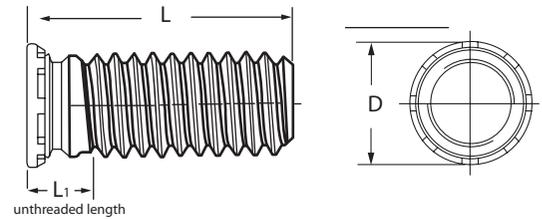


DESIGNATION OF PART NUMBER				
PRODUCT TYPE	MATERIAL TYPE	THREAD CODE	LENGTH CODE	FINISH CODE
BT	ST	M3	18	ZN

THREAD CODE	THREAD SIZE X PITCH	LENGTH (L) ±0.4																		DIMENSION "D" ±0.4	DIMENSION "L1" MAX	
		6	-	-	8	10	12	-	15	-	18	-	20	-	25	-	30	-	35			-
M3	M3 X 0.5	6	-	-	8	10	12	-	15	-	18	-	20	-	25	-	30	-	35	-	4.6	2.1
M4	M4 X 0.7	6	-	-	8	10	12	-	15	-	18	-	20	-	25	-	30	-	35	-	5.9	2.4
M5	M5 X 0.8	-	-	-	8	10	12	-	15	-	18	-	20	-	25	-	30	-	35	-	6.5	2.7
M6	M6 X 1	-	-	-	-	10	-	12	15	-	18	-	20	-	25	-	30	-	35	-	8.2	3.0
256	256	-	6.35	7.92	-	9.52	-	12.7	-	15.87	-	19.05	-	22.22	-	25.4	-	31.75	-	38.1	3.65	1.9
440	440	-	6.35	7.92	-	9.52	-	12.7	-	15.87	-	19.05	-	22.22	-	25.4	-	31.75	-	38.1	4.47	2.16
632	632	-	6.35	7.92	-	9.52	-	12.7	-	15.87	-	19.05	-	22.22	-	25.4	-	31.75	-	38.1	5.23	2.28
832	832	-	6.35	7.92	-	9.52	-	12.7	-	15.87	-	19.05	-	22.22	-	25.4	-	31.75	-	38.1	6.0	2.28
1024	1024	-	6.35	7.92	-	9.52	-	12.7	-	15.87	-	19.05	-	22.22	-	25.4	-	31.75	-	38.1	6.5	2.54
1032	1032	-	6.35	7.92	-	9.52	-	12.7	-	15.87	-	19.05	-	22.22	-	25.4	-	31.75	-	38.1	6.5	2.54

BTL**STUD SERIES**

SELF CLINCHING SMALL FLANGE STUD [BTL]



DESIGNATION OF PART NUMBER				
PRODUCT TYPE	MATERIAL TYPE	THREAD CODE	LENGTH CODE	FINISH CODE
BTL	ST	M4	15	ZN

THREAD CODE	THREAD SIZE X PITCH	LENGTH (L) ±0.4																		DIMENSION "D" ±0.4	DIMENSION "L1" MAX		
		6	-	-	8	10	12	-	15	-	18	-	20	-	25	-	30	-	35			-	
M3	M3 X 0.5	6	-	-	8	-	10	12	-	15	-	18	-	20	-	25	-	30	-	35	-	3.65	2.1
M4	M4 X 0.7	6	-	-	8	-	10	12	-	15	-	18	-	20	-	25	-	30	-	35	-	4.65	2.4
M5	M8 X 0.8	-	-	-	8	-	10	12	-	15	-	18	-	20	-	25	-	30	-	35	-	5.9	2.7
256	256	-	6.35	7.92	-	9.52	-	12.7	-	15.87	-	19.05	-	22.22	-	25.4	-	31.75	-	38.1	2.84	2.03	
440	440	-	6.35	7.92	-	9.52	-	12.7	-	15.87	-	19.05	-	-	-	-	-	-	-	-	3.5	2.16	
632	632	-	6.35	7.92	-	9.52	-	12.7	-	15.87	-	19.05	-	22.22	-	25.4	-	-	-	-	4.16	2.28	
832	832	-	6.35	7.92	-	9.52	-	12.7	-	15.87	-	19.05	-	22.22	-	25.4	-	31.75	-	38.1	4.82	2.28	
032	1032	-	6.35	7.92	-	9.52	-	12.7	-	15.87	-	19.05	-	22.22	-	25.4	-	31.75	-	38.1	5.71	2.54	

MATERIAL TYPE	
ST	STEEL
SS	STAINLESS STEEL
AL	ALUMINIUM

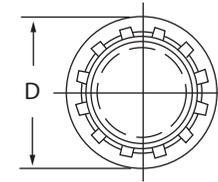
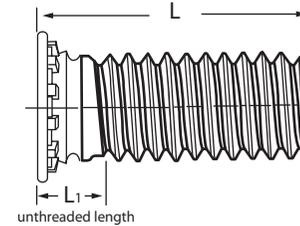
FINISH CODE	
ZN	ZINC PLATING

**** IMPORTANT NOTES**

- 1) ALL THE DIMENSIONS STATED ARE IN MILLIMETERS
- 2) SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

BTH**STUD SERIES**

SELF CLINCHING STUD FOR STAINLESS STEEL [BTH]

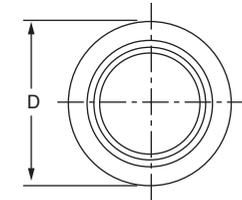
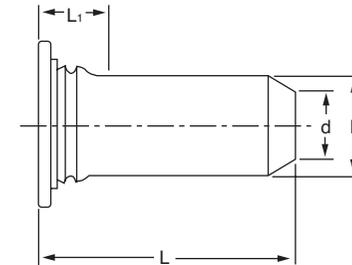
**DESIGNATION OF PART NUMBER**

PRODUCT TYPE	MATERIAL TYPE	THREAD CODE	LENGTH CODE
BTH	SS	M5	18

THREAD CODE	THREAD SIZE X PITCH	LENGTH (L) ±0.4																		DIMENSION "D" ±0.4	DIMENSION "L1" MAX	
		6	-	-	8	10	12	-	15	-	18	-	20	-	25	-	-	-	-			-
M3	M3 X 0.5	6	-	-	8	10	12	-	15	-	18	-	20	-	25	-	-	-	-	-	4.6	2.1
M4	M4 X 0.7	6	-	-	8	10	12	-	15	-	18	-	20	-	25	-	30	-	35	-	5.9	2.4
M5	M5 X 0.8	-	-	-	8	10	12	-	15	-	18	-	20	-	25	-	30	-	35	-	6.5	2.7
440	440	-	6.35	7.92	9.525	-	-	12.7	-	-	-	19.05	-	22.22	-	25.4	-	-	-	-	4.47	2.16
632	632	-	6.35	7.92	9.525	-	-	12.7	-	15.87	-	19.05	-	22.22	-	25.4	-	31.75	-	38.1	5.23	2.28
832	832	-	6.35	7.92	9.525	-	-	12.7	-	15.87	-	19.05	-	22.22	-	25.4	-	31.75	-	38.1	6.02	2.28
032	032	-	6.35	7.92	9.525	-	-	12.7	-	15.87	-	19.05	-	22.22	-	25.4	-	31.75	-	38.1	6.5	2.54

BTP**STUD SERIES**

SELF CLINCHING PIN [BTP]

**DESIGNATION OF PART NUMBER**

PRODUCT TYPE	MATERIAL TYPE	PIN CODE	LENGTH CODE
BTP	SS	4MM	10

PIN CODE	DIAMETER "P" ±0.05	LENGTH (L) ±0.4										DIMENSION "d" ±0.15	DIMENSION "D" ±0.4	DIMENSION "L1" MAX	
		8	-	-	10	12	-	-	16	-	-				-
3MM	3	8	-	-	10	12	-	-	16	-	-	-	2.05	5.2	2.29
4MM	4	8	-	-	10	12	-	-	16	-	-	-	2.82	6.12	2.29
5MM	5	-	-	-	10	12	-	-	16	-	20	-	3.53	7.19	2.29
6MM	6	-	-	-	-	12	-	-	16	-	20	-	4.24	8.13	2.29
125	3.17	-	9.52	-	-	-	12.7	15.87	-	19.05	-	-	2.28	5.2	2.29
187	4.75	-	9.52	-	-	-	12.7	15.87	-	19.05	-	25.4	3.35	6.85	2.29
250	6.35	-	-	-	-	-	12.7	15.87	-	19.05	-	25.4	4.49	8.51	2.29

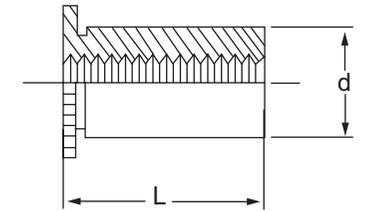
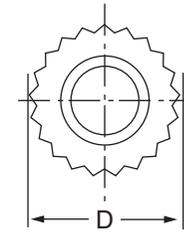
**** IMPORTANT NOTES**

- 1) ALL THE DIMENSIONS STATED ARE IN MILLIMETERS
- 2) PRODUCT TYPE (BTP) ONLY APPLICABLE FOR MATERIAL STAINLESS STEEL
- 3) PRODUCT TYPE (BTH) ONLY APPLICABLE FOR MATERIAL 400 SERIES STAINLESS STEEL
- 4) SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

KTSO

KNURLED HEAD SELF CLINCHING STANDOFF SERIES

KNURLED HEADTHROUGH HOLE THREADED STANDOFF [KTSO]



DESIGNATION OF PART NUMBER

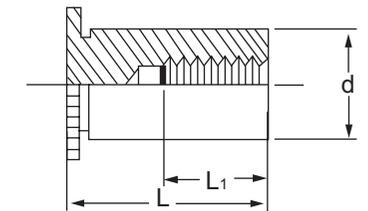
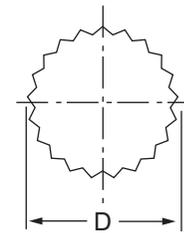
PRODUCT TYPE	MATERIAL TYPE	THREAD CODE	LENGTH CODE	FINISH CODE
KTSO	ST	M3	10	ZN

THREAD CODE	THREAD SIZE X PITCH	LENGTH (L) ±0.2																				DIMENSION "D" ± 0.2	DIMENSION "d" -0.08
		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		
M2	M2 X 0.4	3	4	-	6	-	8	-	10	-	12	-	-	-	-	-	-	-	-	-	-	5.2	4.18
M2.5	M2.5 X 0.45	3	4	-	6	-	8	-	10	-	12	-	-	-	-	-	-	-	-	-	-	5.2	4.18
M3	M3 X 0.5	3	4	5	6	7	8	9	10	11	12	13	14	15	-	-	-	-	-	-	-	5.2	4.18
BM3	M3 X 0.5	3	4	5	6	7	8	9	10	11	12	13	14	15	-	-	-	-	-	-	-	7.2	6.18
M4	M4 X 0.7	3	4	5	6	7	8	9	10	11	12	13	14	15	-	-	-	-	-	-	-	8.2	7.18
M5	M5 X 0.8	3	4	-	6	-	8	-	10	-	12	-	14	15	16	-	-	-	-	-	-	8.2	7.18

KBSO

KNURLED HEAD SELF CLINCHING STANDOFF SERIES

KNURLED HEAD BLIND THREADED STANDOFF [KBSO]



DESIGNATION OF PART NUMBER

PRODUCT TYPE	MATERIAL TYPE	THREAD CODE	LENGTH CODE	FINISH CODE
KBSO	ST	M4	16	ZN

THREAD CODE	THREAD SIZE X PITCH	LENGTH (L) ±0.2										DIMENSION "D" ± 0.02	DIMENSION "d" -0.08
		6	8	10	12	14	16	18	20	22	24		
M2	M2 X 0.4	6	8	10	12	14	16	18	20	22	24		
M2.5	M2.5 X 0.45	6	8	10	12	14	16	18	20	22	24	5.2	4.18
M3	M3 X 0.5	6	8	10	12	14	16	18	20	22	24	5.2	4.18
BM3	M3 X 0.5	6	8	10	12	14	16	18	20	22	24	7.2	6.18
M4	M4 X 0.7	6	8	10	12	14	16	18	20	22	24	8.2	7.18
M5	M5 X 0.8	6	8	10	12	14	16	18	20	22	24	8.2	7.18
MIN. DIMENSION OF "L1"		3	4	5	6	6.5	7	7.5	8	8.5	9	9.5	

MATERIAL TYPE

ST	STEEL
SS	STAINLESS STEEL
AL	ALUMINIUM

FINISH CODE

ZN	ZINC PLATING
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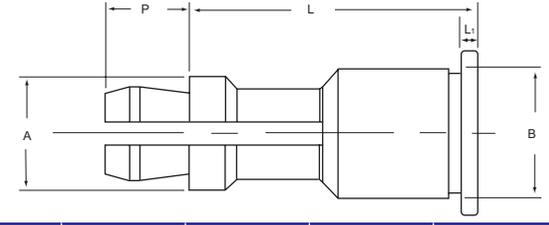
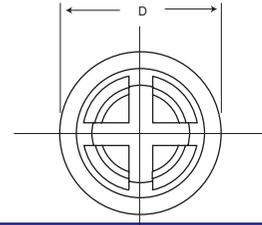
** IMPORTANT NOTES

- 1) ALL THE DIMENSIONS STATED ARE IN MILLIMETERS
- 2) SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

STSO

SNAP TOP STANDOFF SERIES

SNAP TOP STANDOFF [STSO]



DESIGNATION OF PART NUMBER				
PRODUCT TYPE	MATERIAL TYPE	HOLE CODE	LENGTH CODE	FINISH CODE
STSO	ST	156	20	ZN

TOP PANEL MOUNTING HOLE DIAMETER CODE	LENGTH (L) ±0.13																				DIMENSION "A" ±0.13	DIMENSION "B" MAX	DIMENSION "P" ±0.13	DIMENSION "D" ±0.13
	4MM	-	-	8	-	10	-	12	-	14	-	16	18	-	20	22	-	25	-	25.4	4.77	5.38	3.58	6.35
156	6.35	7.92	-	9.53	-	11.1	-	12.7	-	14.27	15.88	-	-	19.05	-	-	22.23	-	25.4	4.77	5.74	3.58	6.35	

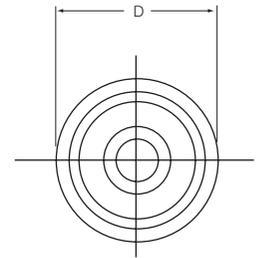
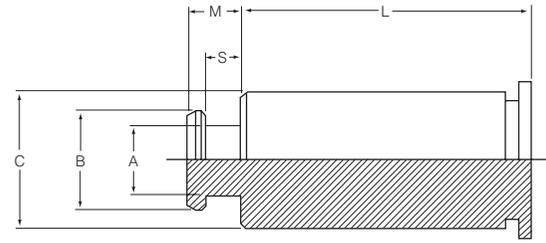
MATERIAL TYPE	
ST	STEEL
SS	400 SERIES STAINLESS STEEL
AL	ALUMINIUM

FINISH CODE	
ZN	ZINC PLATING

KHSO

KEYHOLE STANDOFF SERIES

KEYHOLE STANDOFF [KHSO]



DESIGNATION OF PART NUMBER				
PRODUCT TYPE	MATERIAL TYPE	BODY SIZE	SHEET CODE	LENGTH CODE
KHSO	SS	61.5	-	6

TOP PANEL MOUNTING HOLE DIAMETER CODE	LENGTH (L) + 0.05 / -0.13																				DIMENSION "A" ±0.08	DIMENSION "B" ±0.08	DIMENSION "C" MAX	DIMENSION "S" ± 0.08	DIMENSION "M" MAX	D' NOM	
	61.5	-	6	-	8	-	10	-	12	-	14	-	16	18	-	20	22	-	25	-	25.4	2.5	4.5	5.38	1.72	2.75	6.35
6060	4.77	-	6.35	7.92	-	9.52	-	11.1	-	12.7	-	14.27	15.87	-	-	19.05	-	-	22.22	-	25.4	2.5	4.5	5.38	1.72	2.75	6.35

* PRODUCT TYPE (KHSO) ONLY APPLICABLE FOR STAINLESS STEEL MATERIAL

**** IMPORTANT NOTES**

- 1) ALL THE DIMENSIONS STATED ARE IN MILLIMETERS
- 2) SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

SLN

SELF LOCKING NUT SERIES

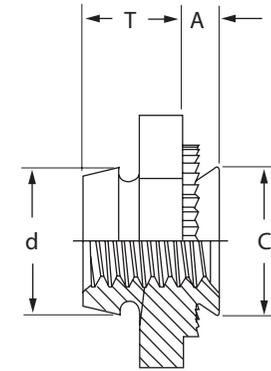
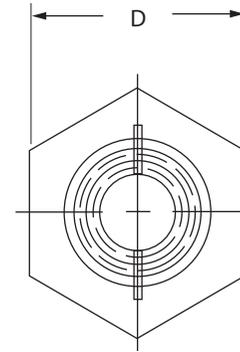
SELF LOCKING NUT [SLN]



DESIGNATION OF PART NUMBER

PRODUCT TYPE MATERIAL TYPE THREAD CODE LENGTH CODE FINISH CODE
 SLN — SS — M3 — 2 — ZN

THREAD CODE	THREAD SIZE X PITCH	SHANK CODE (A) MAX		DIMENSION "C" MAX	DIMENSION "d" MAX	DIMENSION "D" MAX	DIMENSION "T" ±0.25
		1	2				
M2.5	M2.5 X 0.45	0.97	1.37	4.34	4.45	6.35	3.48
M3	M3 X 0.5	0.97	1.37	4.72	4.85	6.35	3.48
M4	M4 X 0.7	0.97	1.37	6.71	6.2	8.73	4.37
M5	M5 X 0.8	0.97	1.37	7.88	7.4	9.53	5.13
256	256	0.97	1.37	4.34	4.19	6.35	3.43
440	440	0.97	1.37	4.72	4.7	6.35	3.43
632	632	0.97	1.37	5.51	5.59	7.92	3.56
832	832	0.97	1.37	6.71	6.35	8.71	4.45
032	1032	0.97	1.37	7.9	7.24	9.53	5.21



BN

SELF BLIND NUT SERIES

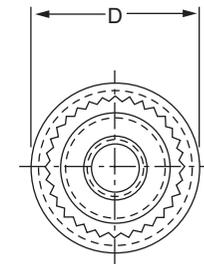
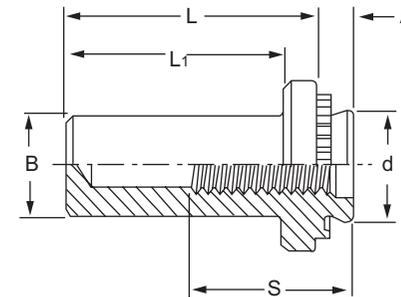
BLIND NUT [BN]



DESIGNATION OF PART NUMBER

PRODUCT TYPE MATERIAL TYPE THREAD CODE SHANK CODE FINISH CODE
 BN — ST — M3 — 2 — ZN

THREAD CODE	THREAD SIZE X PITCH	SHANK CODE	SHANK DIMENSION "d" MAX	DIMENSION "B" MAX	DIMENSION "D" ±0.25	THREAD LENGTH MIN. "S"	DIMENSION "L" MAX	DIMENSION "L" ±0.25	DIMENSION "A" MAX
M3	M3 X 0.5	1	4.22	3.8	6.35	5.3	8.5	9.6	0.97
M3	M3 X 0.5	2	4.22	3.8	6.35	5.3	8.5	9.6	1.37
M4	M4 X 0.7	1	5.38	5.2	7.95	7.1	9.8	11.2	0.97
M4	M4 X 0.7	2	5.38	5.2	7.95	7.1	9.8	11.2	1.37
M5	M5 X 0.8	1	6.38	6	8.75	6.8	9.8	11.2	0.97
M5	M5 X 0.8	2	6.38	6	8.75	6.8	9.8	11.2	1.37
M6	M6 X 1	1	8.72	7.8	11.1	7.8	12.7	14.3	0.97
M6	M6 X 1	2	8.72	7.8	11.1	7.8	12.7	14.3	1.37
440	440	1	4.19	3.78	6.35	5.33	8.51	9.65	0.97
440	440	2	4.19	3.78	6.35	5.33	8.51	9.65	1.37
632	632	1	4.75	4.29	7.11	5.84	8.51	9.65	0.97
632	632	2	4.75	4.29	7.11	5.84	8.51	9.65	1.37
832	832	1	5.38	5.18	7.87	7.11	9.78	11.18	0.97
832	832	2	5.38	5.18	7.87	7.11	9.78	11.18	1.37
032	032	1	6.32	5.97	8.64	6.86	9.78	11.18	0.97
032	032	2	6.32	5.97	8.64	6.86	9.78	11.18	1.37
0420	0420	1	8.71	7.75	10.92	7.87	12.70	14.22	0.97
0420	0420	2	8.71	7.75	10.92	7.87	12.70	14.22	1.37



MATERIAL TYPE	
ST	STEEL
SS	STAINLESS STEEL
AL	ALUMINIUM

FINISH CODE	
ZN	ZINC PLATING

* BN SERIES ONLY APPLICABLE FOR STEEL & STAINLESS STEEL MATERIAL

** IMPORTANT NOTES

- 1) ALL THE DIMENSIONS STATED ARE IN MILLIMETERS
- 2) SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

FN

FLUSH NUT SERIES

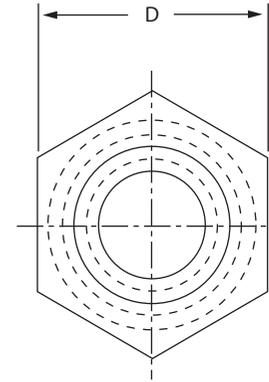
FLUSH NUT [FN]



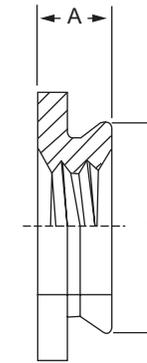
DESIGNATION OF PART NUMBER

PRODUCT TYPE	MATERIAL TYPE	THREAD CODE	SHANK CODE
FN	SS	M3	1

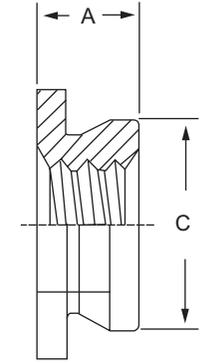
THREAD CODE	THREAD SIZE X PITCH	SHANK CODE (A MAX)					DIMENSION "C" MAX	DIMENSION "D" NOM
		1	2	3	4	5		
M2	M2 X 0.4	1.5	2.3	-	-	-	4.34	4.8
M2.5	M2.5 X 0.45	1.5	2.3	-	-	-	4.34	4.8
M3	M3 X 0.5	1.5	2.3	-	-	-	4.34	4.8
M4	M4 X 0.7	1.5	2.3	-	-	-	7.34	7.9
M5	M5 X 0.8	1.5	2.3	-	-	-	7.87	8.7
M6	M6 X 1.0	-	-	3.1	3.9	4.7	8.71	9.5
256	256	1.52	2.3	-	-	-	4.34	4.78
440	440	1.52	2.3	-	-	-	4.34	4.78
632	632	1.52	2.3	-	-	-	5.38	6.35
832	832	1.52	2.3	-	-	-	7.34	7.92
032	032	1.52	2.3	-	-	-	7.9	8.71
0420	0420	-	-	3.05	3.84	4.62	8.71	9.53



Design for shank code 1



Design for -2, -3, -4, & -5, shank codes



MN

MINIATURE NUT SERIES

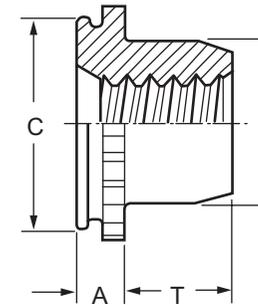
MINIATURE NUT [MN]



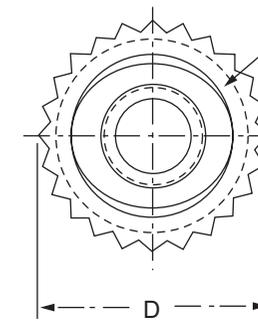
DESIGNATION OF PART NUMBER

PRODUCT TYPE	MATERIAL TYPE	THREAD CODE	TYPE CODE
MN	SS	M3	1

THREAD CODE	THREAD SIZE X PITCH	TYPE		DIMENSION "A" MAX	DIMENSION "C" -0.13	DIMENSION "d" MAX	DIMENSION "D" ±0.13	DIMENSION "T" +0.4
		SELF LOCKING	NON LOCKING					
M3	M3 X 0.5	1	3	1.02	4.34	3.96	4.88	1.9
M3	M3 X 0.5	2	4	1.53	4.34	3.96	4.88	1.9
M4	M4 X 0.7	1	3	1.02	7.34	5.23	8.17	2.55
M4	M4 X 0.7	2	4	1.53	7.34	5.23	8.17	2.55
M5	M5 X 0.8	1	3	1.02	7.34	6.48	8.17	3.05
M5	M5 X 0.8	2	4	1.53	7.34	6.48	8.17	3.05
M6	M6 X 1.0	2	4	1.53	8.71	7.72	9.74	3.3
440	440	1	3	1.02	4.34	3.68	4.88	1.65
440	440	2	4	1.53	4.34	3.68	4.88	1.65
632	632	1	3	1.02	5.38	4.57	6.2	1.9
632	632	2	4	1.53	5.38	4.57	6.2	1.9
832	832	1	3	1.02	7.34	5.46	8.18	2.29
832	832	2	4	1.53	7.34	5.46	8.18	2.29
032	032	1	3	1.02	7.34	6.22	8.18	2.79
032	032	2	4	1.53	7.34	6.22	8.18	2.79
0420	0420	2	4	1.53	8.71	8.08	9.75	3.05
0428	0428	2	4	1.53	8.71	8.08	9.75	3.05



TYPES 1 AND 2 ROUND
TYPES 3 AND 4 TOPS
ELLIPTICALLY SQUEEZED



* FN & MN SERIES ONLY APPLICABLE FOR STAINLESS STEEL MATERIAL

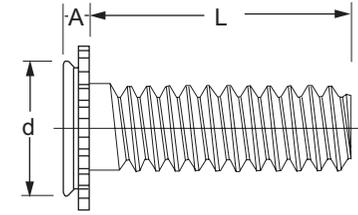
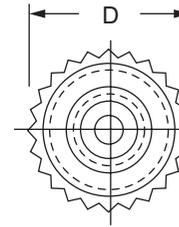
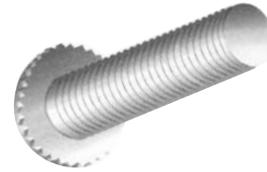
** IMPORTANT NOTES

- 1) ALL THE DIMENSIONS STATED ARE IN MILLIMETERS
- 2) SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

CHS

CONCEALED HEAD STUD SERIES

CONCEALED HEAD STUD [CHS]



DESIGNATION OF PART NUMBER

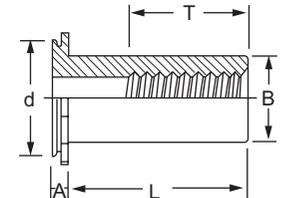
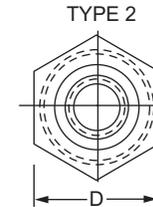
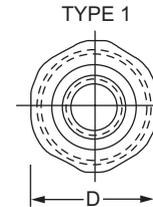
PRODUCT TYPE	MATERIAL TYPE	THREAD CODE	TYPE CODE	LENGTH CODE
CHS	AL	M4	2	12

THREAD CODE	THREAD SIZE X PITCH	TYPE	LENGTH (L) ±0.4													DIMENSION "A" MAX	DIMENSION "D" ±0.25	DIMENSION "d" MAX
M3	M3 X 0.5	1	6	-	8	-	10	12	-	-	16	-	20	-	-	1.09	5.21	4.34
M3	M3 X 0.5	2	6	-	8	-	10	12	-	-	16	-	20	-	-	1.91	5.21	4.34
M4	M4 X 0.7	1	6	-	8	-	10	12	-	-	16	-	20	25	-	1.09	8.33	4.34
M4	M4 X 0.7	2	6	-	8	-	10	12	-	-	16	-	20	25	-	1.91	8.33	7.34
M5	M5 X 0.8	1	-	-	-	-	10	12	-	-	16	-	20	25	-	1.09	8.89	7.9
M5	M5 X 0.8	2	-	-	-	-	10	12	-	-	16	-	20	25	-	1.91	8.89	7.9
440	440	1	-	6.35	-	9.53	-	-	12.7	15.88	-	19.05	-	-	1.09	5.207	4.34	
440	440	2	-	6.35	-	9.53	-	-	12.7	15.88	-	19.05	-	-	1.91	5.207	4.34	
632	632	1	-	6.35	-	9.53	-	-	12.7	15.88	-	19.05	-	-	1.09	6.35	5.38	
632	632	2	-	6.35	-	9.53	-	-	12.7	15.88	-	19.05	-	25.4	1.91	6.35	5.38	
832	832	1	-	6.35	-	9.53	-	-	12.7	15.88	-	19.05	-	25.4	1.09	8.33	7.34	
832	832	2	-	6.35	-	9.53	-	-	12.7	15.88	-	19.05	-	25.4	1.91	8.33	7.34	
032	032	1	-	-	-	-	9.52	-	-	12.7	15.88	-	19.05	-	25.4	1.09	8.89	7.9
032	032	2	-	-	-	-	9.52	-	-	12.7	15.88	-	19.05	-	25.4	1.91	8.89	7.9

CHSO

CONCEALED HEAD STANDOFF SERIES

CONCEALED HEAD STUD [CHSO]



DESIGNATION OF PART NUMBER

PRODUCT TYPE	MATERIAL TYPE	THREAD CODE	TYPE CODE	LENGTH CODE
CHSO	SS	832	1	15.87

THREAD CODE	THREAD SIZE X PITCH	TYPE	LENGTH (L) + 0.05 / -0.13														"A" MAX	"B" MAX (4)	"d" MAX	"D" NOM.	MIN. DEPTH FULL THREAD "T"		
M3	M3 X 0.5	1	4	-	6	-	-	8	-	10	12	-	-	16	-	20	25	-	1.09	4.2	5.38	6.35	5
M3	M3 X 0.5	2	4	-	6	-	-	8	-	10	12	-	-	16	-	20	25	-	1.91	4.2	5.38	6.35	5
M4	M4 X 0.7	1	4	-	6	-	-	8	-	10	12	-	-	16	-	20	25	-	1.09	6.23	7.9	8.74	6.5
M4	M4 X 0.7	2	4	-	6	-	-	8	-	10	12	-	-	16	-	20	25	-	1.91	6.23	7.9	8.74	6.5
M5	M5 X 0.8	1	4	-	6	-	-	8	-	10	12	-	-	16	-	20	25	-	1.09	7.37	8.71	9.53	9.6
M5	M5 X 0.8	2	4	-	6	-	-	8	-	10	12	-	-	16	-	20	25	-	1.91	7.37	8.71	9.53	9.6
M6	M6 X 1.0	1	4	-	6	-	-	8	-	10	12	-	-	16	-	20	25	-	1.91	9	9.88	11.11	9.6
M6	M6 X 1.0	2	4	-	6	-	-	8	-	10	12	-	-	16	-	20	25	-	1.91	9	9.88	11.11	9.6
440	440	1	-	4.75	-	6.35	7.92	-	9.52	-	-	12.7	15.87	-	19.1	-	-	25.4	1.09	4.191	5.38	6.35	4.77
440	440	2	-	4.75	-	6.35	7.92	-	9.52	-	-	12.7	15.87	-	19.1	-	-	25.4	1.91	4.191	5.38	6.35	4.77
632	632	1	-	4.75	-	6.35	7.92	-	9.52	-	-	12.7	15.87	-	19.1	-	-	25.4	1.09	5.41	7.34	7.92	6.35
632	632	2	-	4.75	-	6.35	7.92	-	9.52	-	-	12.7	15.87	-	19.1	-	-	25.4	1.91	5.41	7.34	7.92	6.35
832	832	1	-	4.75	-	6.35	7.92	-	9.52	-	-	12.7	15.87	-	19.1	-	-	25.4	1.09	6.22	7.9	8.74	6.35
832	832	2	-	4.75	-	6.35	7.92	-	9.52	-	-	12.7	15.87	-	19.1	-	-	25.4	1.91	6.22	7.9	8.74	6.35
032	032	1	-	4.75	-	6.35	7.92	-	9.52	-	-	12.7	15.87	-	19.1	-	-	25.4	1.09	7.37	8.71	9.52	9.53
032	032	2	-	4.75	-	6.35	7.92	-	9.52	-	-	12.7	15.87	-	19.1	-	-	25.4	1.91	7.37	8.71	9.52	9.53
0420	0420	1	-	4.75	-	6.35	7.92	-	9.52	-	-	12.7	15.87	-	19.1	-	-	25.4	1.09	8.99	9.88	11.12	9.53
0420	0420	2	-	4.75	-	6.35	7.92	-	9.52	-	-	12.7	15.87	-	19.1	-	-	25.4	1.91	8.99	9.88	11.12	9.53

MATERIAL TYPE	
SS	STAINLESS STEEL
AL	ALUMINIUM

- ** IMPORTANT NOTES**
- 1) ALL THE DIMENSIONS STATED ARE IN MILLIMETERS
 - 2) CHS SERIES ONLY MATERIAL OF SS & AL
 - 3) CHSO SERIES ONLY APPLICABLE FOR MATERIAL OF STAINLESS STEEL & ALUMINIUM
 - 4) IF STANDOFF IS USED AS A BUSHING, THE HOLE IN ATTACHED PART MUST NOT EXCEED "B" PLUS 0.51MM
 - 5) SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.