

















SELF CLINCHING FASTENERS









| SELF CLINCHING STANDOFF SERIES | | | |
|---|--------------|---|------|
| | PRODUCT TYPE | DESCRIPTION | PAGE |
|  | THSO | Through Hole Threaded Standoffs | 1 |
|  | BTSO | Blind Hole Threaded Standoffs | 1 |
|  | THSOH | Through Hole Threaded Standoffs for Stainless Steel | 2 |
|  | BTSOH | Blind Threaded Standoffs for Stainless Steel | 2 |
|  | TUSO | Through Hole Unthreaded Standoffs | 3 |
|  | TTSO | Threaded Standoffs for Thin | 3 |

| SELF CLINCHING NUTS SERIES | | | |
|--|--------------|---|------|
| | PRODUCT TYPE | DESCRIPTION | PAGE |
|  | CN | Self Clinching Nuts | 4 |
|  | CNP | Self Clinching Nuts for Stainless Steel | 4 |
|  | CNT | Self Clinching Nuts for Ultra-thin | 5 |

| BROACHING SERIES | | | |
|---|--------------|--------------------------------|------|
| | PRODUCT TYPE | DESCRIPTION | PAGE |
|  | PCB1 | Broaching Type Standoffs | 6 |
|  | PCB2 | Broaching Type Nuts | 6 |
|  | PCB3 | Brass Broaching Type Standoffs | 7 |
|  | PCB4 | Broaching Type Studs | 7 |
|  | PCB5 | Broaching Slip Top Standoffs | 8 |

| STUD SERIES | | | |
|---|--------------|--|------|
| | PRODUCT TYPE | DESCRIPTION | PAGE |
|  | BT | Self Clinching Studs | 9 |
|  | BTL | Self Clinching Small Flange Studs | 9 |
|  | BTH | Self Clinching Studs for Stainless Steel | 10 |
|  | BTP | Self Clinching Pin | 10 |

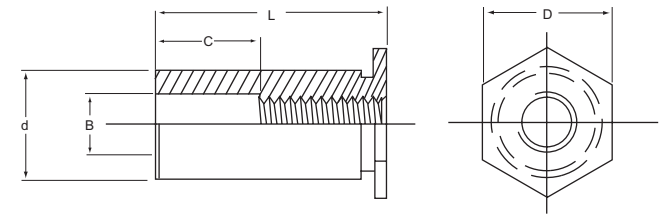
| KNURLED HEAD STANDOFF SERIES | | | |
|---|--------------|---|------|
| | PRODUCT TYPE | DESCRIPTION | PAGE |
|  | KTSO | Self Clinching Knurled Head Thru Threaded Standoff | 11 |
|  | KBSO | Self Clinching Knurled Head Blind Threaded Standoff | 11 |

| OTHERS SERIES | | | |
|---|--------------|---------------------------------|------|
| | PRODUCT TYPE | DESCRIPTION | PAGE |
|  | STSO | SNAP TOP STANDOFFS | 12 |
|  | KHSO | KEYHOLE STANDOFFS | 12 |
|  | SLN | SELF LOCKING NUTS | 13 |
|  | BN | BLIND NUTS | 13 |
|  | FN | FLUSH NUT | 14 |
|  | MN | MINIATURE NUT | 14 |
|  | CHS | CONCEALED HEAD STUDS | 15 |
|  | CHSO | CONCEALED HEAD STANDOFFS | 15 |

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 |

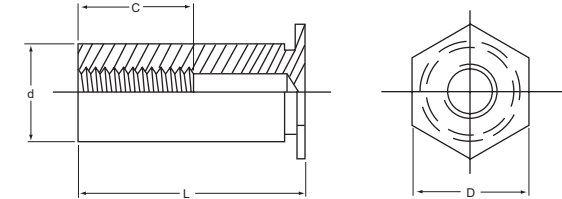
| THREAD CODE | THREAD SIZE X PITCH | LENGTH (L) + 0.05 / -0.13 | | | | | | | | | | | | | | | | | | | | DIMENSION COUNTER BORE DIA (B) ± 0.13 | DIMENSION "d" - 0.13 | DIMENSION "D" NOM | | | | |
|----------------------|---------------------|---------------------------|------|---|------|---|------|------|---|------|----|-------------------------|----|------|----|-------|-------------------------|----|-------|----|-------|---------------------------------------|----------------------|-------------------|------|------|------|------|
| 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 |
|----|--------------|

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 |

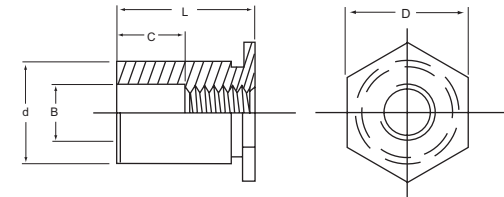
** IMPORTANT NOTES

- 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

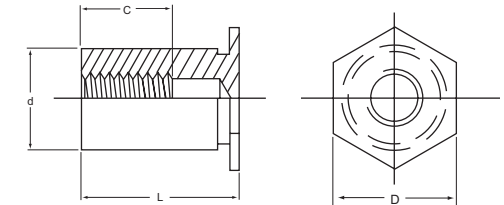
| PRODUCT TYPE | MATERIAL TYPE | THREAD CODE | LENGTH CODE |
|--------------|---------------|-------------|-------------|
| THSOH | SS | M4 | 6 |

| 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 |

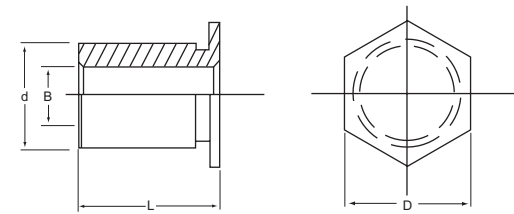
** IMPORTANT NOTES

- 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

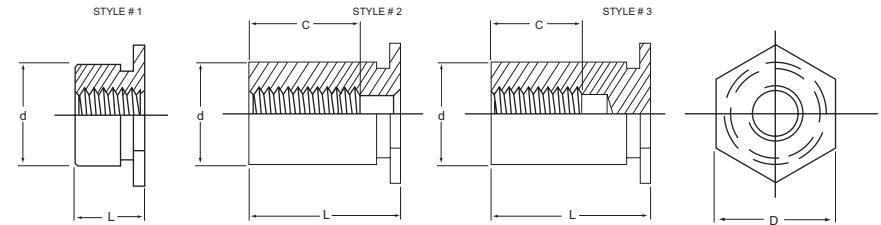
| | | | | |
|--------------|---------------|-------------|-------------|-------------|
| PRODUCT TYPE | MATERIAL TYPE | THREAD CODE | LENGTH CODE | FINISH CODE |
| TUSO | ST | M143 | 6.35 | ZN |

| 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

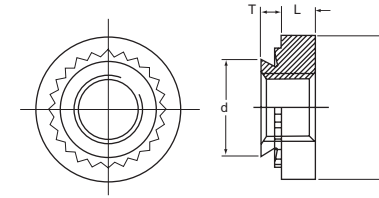
| | |
|----|--------------|
| ZN | ZINC PLATING |
|----|--------------|

** 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 |

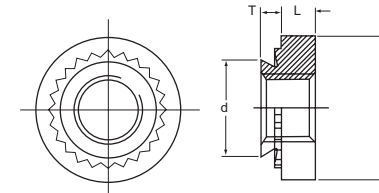
| THREAD CODE | THREAD SIZE X PITCH | SHANK CODE (T*MAX) | | | | LENGTH (L) ± 0.25 | | | | | | | | DIMENSION "d" MAX | DIMENSION "D" ± 0.25 |
|-------------|---------------------|--------------------|------|------|------|-------------------|------|---|------|------|---|------|------|-------------------|----------------------|
| | | 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**

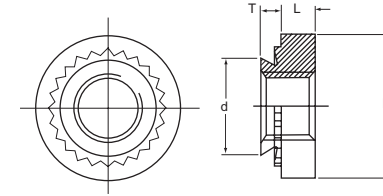
| | | | | |
|--------------|---------------|-------------|-------------|-------------|
| PRODUCT TYPE | MATERIAL TYPE | THREAD CODE | LENGTH CODE | FINISH CODE |
| CNP | SS | M3 | 1 | ZN |

| 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

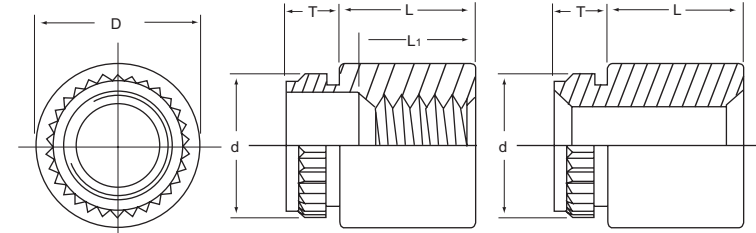
** IMPORTANT NOTES

- 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

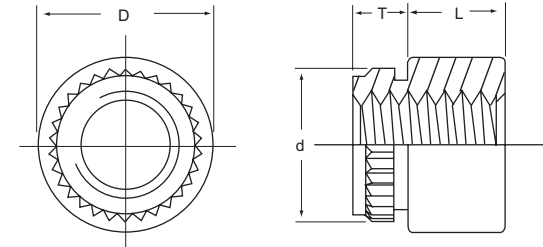
PRODUCT TYPE MATERIAL TYPE THREAD CODE LENGTH CODE FINISH CODE
 PCB1 ——— ST ——— 440 ——— 6 ——— ZN

| 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 |
|----|--------------|

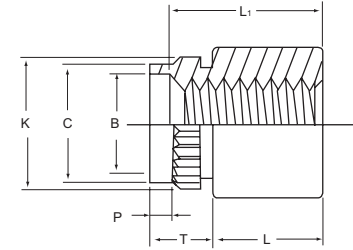
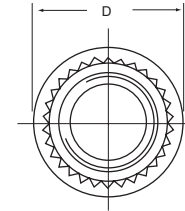
** IMPORTANT NOTES

- 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 |

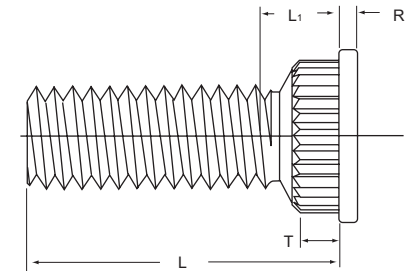
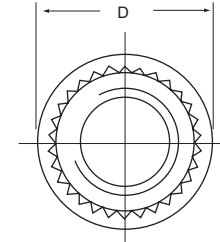
| THREAD CODE | THREAD SIZE X PITCH | LENGTH (L) ±0.13 | | | | | | | | | | | | | | T MAX. | DIMENSION "B" ±0.08 | DIMENSION "C" MAX. | DIMENSION "D" ±0.13 | DIMENSION "K" ±0.08 | DIMENSION "P" ±0.25 | | | | | |
|-------------------------|---------------------|------------------|---|---|-------|---|-------|---|-------|-------|---|-------|----|----|-------|-------------|---------------------|--------------------|---------------------|---------------------|---------------------|------|------|------|------|------|
| 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 |
|----|-------|

FINISH CODE

| | |
|----|-------------|
| TN | TIN PLATING |
|----|-------------|

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

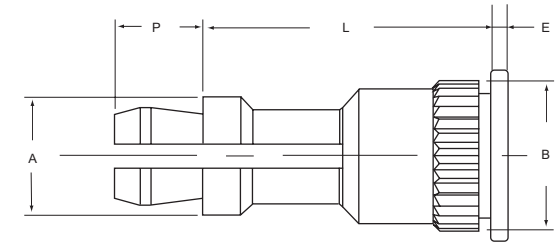
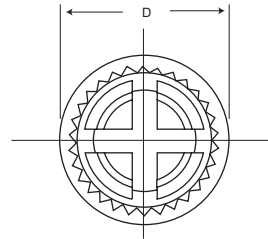
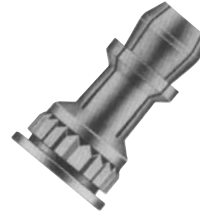
** IMPORTANT NOTES

- 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 |
|---------------------------------------|------------------|------|---|------|----|-------|----|------|----|-------|-------|----|----|-------|----|-------|---|------|---|------|---------------------|-------------------|---------------------|---------------------|---------------------|
| 4MM | - | - | 8 | - | 10 | - | 12 | - | 14 | - | - | 16 | 18 | - | 20 | 22 | - | 25 | - | 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 |
|----|-------|

FINISH CODE

| | |
|----|-------------|
| TN | TIN PLATING |
|----|-------------|

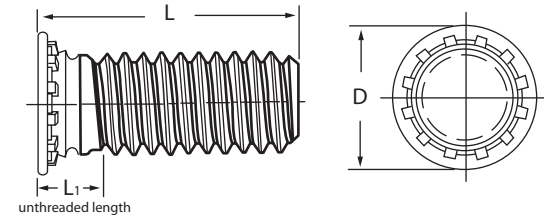
* PRODUCT TYPE (PCB5) ONLY APPLICABLE FOR BRASS MATERIAL (BR)

** IMPORTANT NOTES

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

BT**STUD SERIES**

SELF CLINCHING STUD [BT]

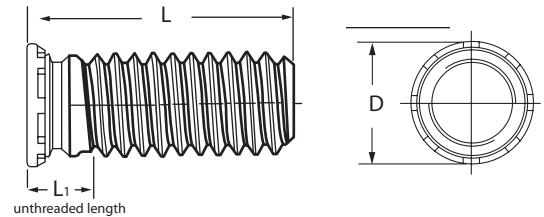


| DESIGNATION OF PART NUMBER | | | | |
|----------------------------|---------------|-------------|-------------|-------------|
| PRODUCT TYPE | MATERIAL TYPE | THREAD CODE | LENGTH CODE | FINISH CODE |
| BT | ST | M3 | 18 | ZN |

| 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 | - | 63.5 | 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 |

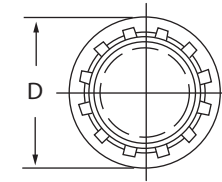
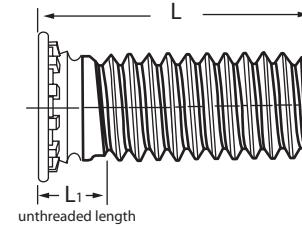
| FINISH CODE | |
|-------------|--------------|
| ZN | ZINC PLATING |

**** 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]

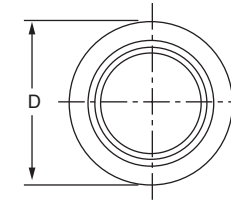
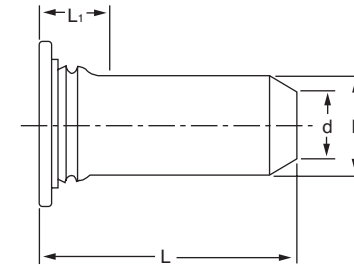
**DESIGNATION OF PART NUMBER**

| 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 |

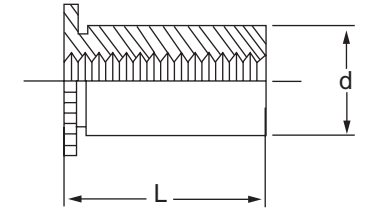
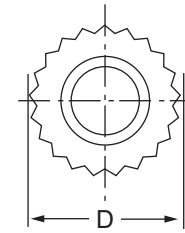
**** IMPORTANT NOTES**

- 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

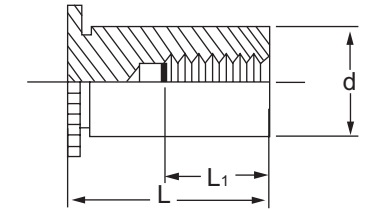
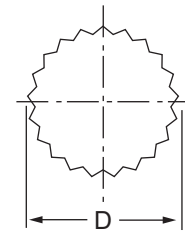
| PRODUCT TYPE | MATERIAL TYPE | THREAD CODE | LENGTH CODE | FINISH CODE |
|--------------|---------------|-------------|-------------|-------------|
| KTSO | ST | M3 | 10 | ZN |

| 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 |
|----|--------------|

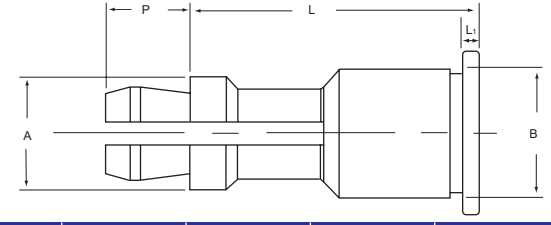
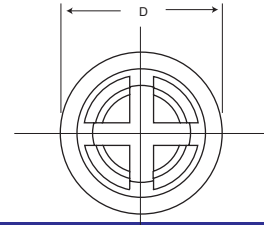
** IMPORTANT NOTES

- 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 | |

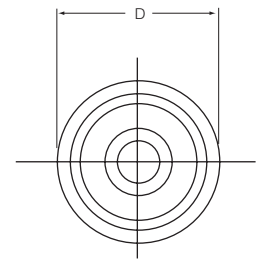
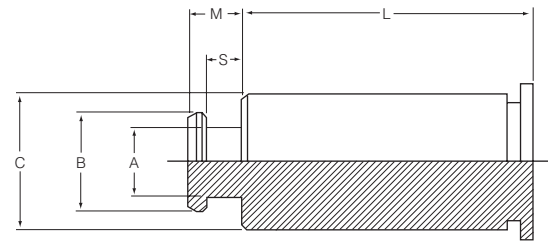
| MATERIAL TYPE | |
|---------------|----------------------------|
| ST | STEEL |
| SS | 400 SERIES STAINLESS STEEL |
| AL | ALUMINIUM |

| 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

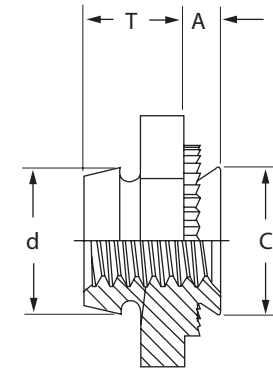
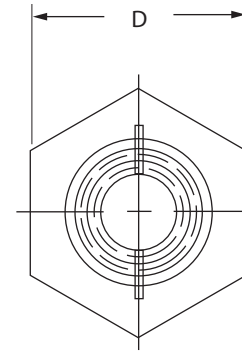
SELF LOCKING NUT [SLN]



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

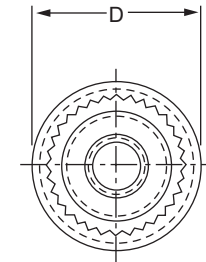
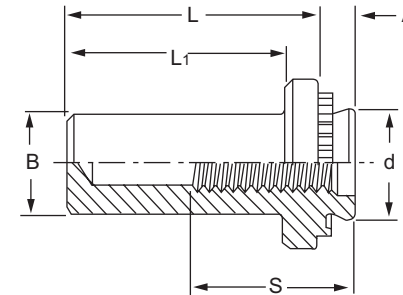
BLIND NUT [BN]



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

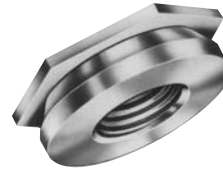
** IMPORTANT NOTES

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

FN

FLUSH NUT SERIES

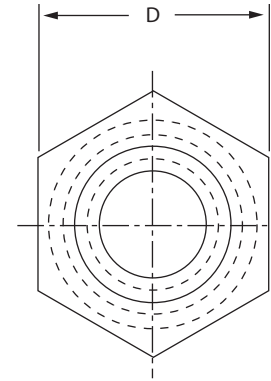
FLUSH NUT [FN]



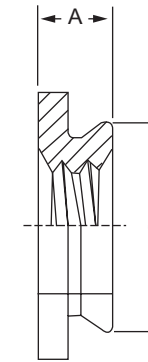
DESIGNATION OF PART NUMBER

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

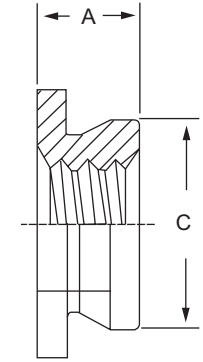
| THREAD CODE | THREAD SIZE X PITCH | SHANK CODE (A MAX) | | | | | DIMENSION "C" MAX | DIMENSION "D" NOM |
|-------------|---------------------|--------------------|-----|------|------|------|-------------------|-------------------|
| | | 1 | 2 | 3 | 4 | 5 | | |
| M2 | M2 X 0.4 | 1.5 | 2.3 | - | - | - | 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

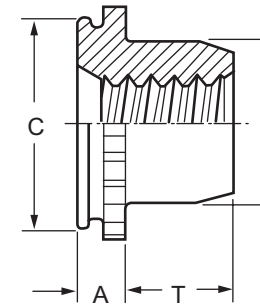
MINIATURE NUT [MN]



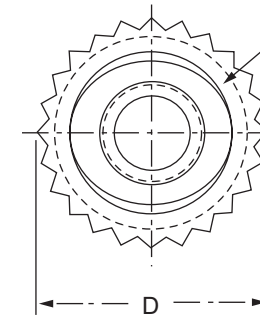
DESIGNATION OF PART NUMBER

| | | | |
|--------------|---------------|-------------|-----------|
| 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

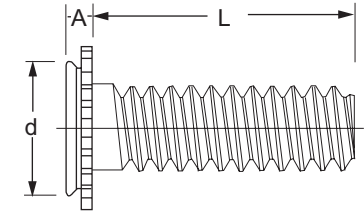
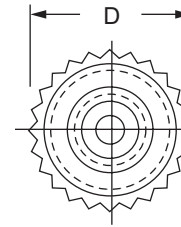
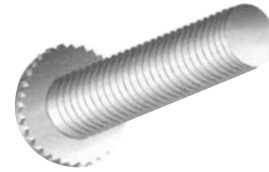
** IMPORTANT NOTES

- 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

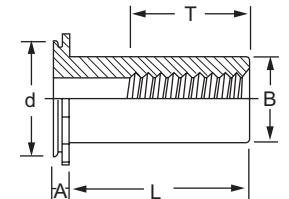
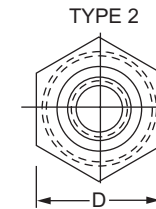
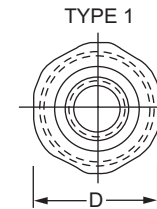
| PRODUCT TYPE | MATERIAL TYPE | THREAD CODE | TYPE CODE | LENGTH CODE |
|--------------|---------------|-------------|-----------|-------------|
| CHS | AL | M4 | 2 | 12 |

| THREAD CODE | THREAD SIZE X PITCH | TYPE | LENGTH (L) ±0.4 | | | | | | | | | | | | | DIMENSION "A" MAX | DIMENSION "D" ±0.25 | DIMENSION "d" MAX |
|-------------|---------------------|------|-----------------|------|----|------|----|----|------|-------|----|-------|----|------|------|-------------------|---------------------|-------------------|
| | | | 6 | 8 | 10 | 12 | 16 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | | | |
| 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" | |
|-------------|---------------------|------|---------------------------|------|---|------|------|----|------|----|------|-------|----|------|----|---------|-------------|---------|----------|----------------------------|------|
| | | | 4 | 6 | 8 | 10 | 12 | 16 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | | | | | | 55 |
| 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.

TECHFAST MANUFACTURING SDN BHD (481838-T)

TFM 



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Seksyen 23, 40300 Shah Alam,
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Website: www.techfast.com.my