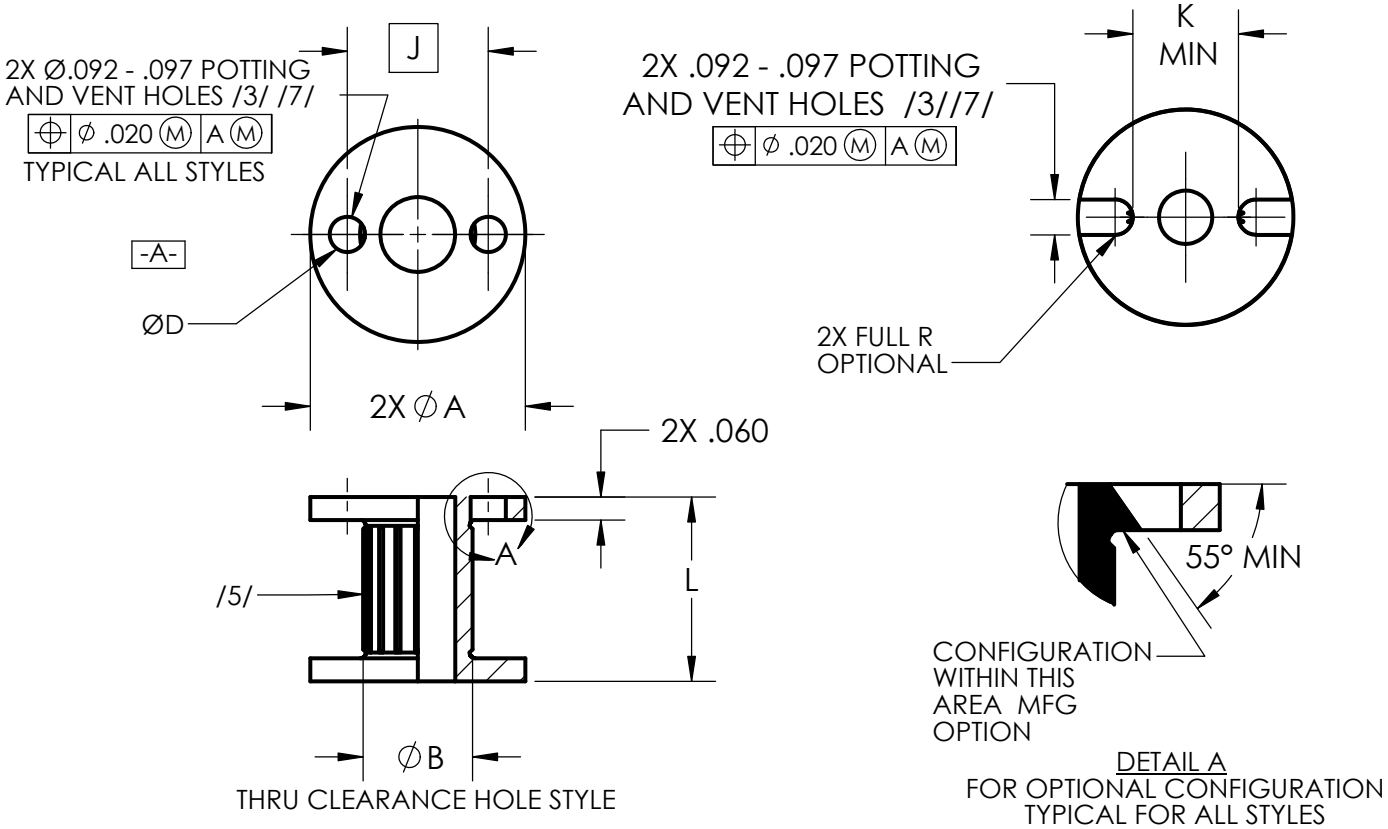
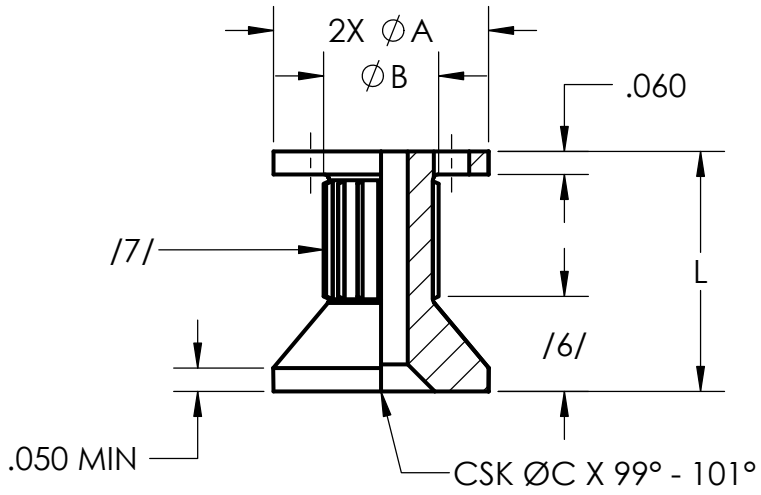
181 SERIES

INSERT, THRU REGULAR HEAD STYLE

CROSS REFERENCE

WITTEN	STANDARDS/OTHER	SHUR-LOK	THE YOUNG ENGINEERS	ALCOA/TRIDAIR
181 SERIES	NAS1834 SERIES CDSP5904 & CDSP5903	SL603 SL604	TYE2003 TYE2004 TYE4004	D1834 SERIES D1834K SERIES
181 SERIES METRIC		SL601 METRIC SL304 METRIC	TYE2002M	





COUNTERSINK CLEARANCE HOLE STYLE

WITTEN COMPANY
info@wittenco.com

REVISED: 4/23/2026

CAGE CODE: 0JHK5

181 SERIES

INSERT, THRU REGULAR HEAD STYLE

CROSS REFERENCE

WITTEN	STANDARDS/OTHER	SHUR-LOK	THE YOUNG ENGINEERS	ALCOA/TRIDAIR
181 SERIES	NAS1834 SERIES CDSP5904 & CDSP5903	SL603 SL604	TYE2003 TYE2004 TYE4004	D1834 SERIES D1834K SERIES
181 SERIES METRIC		SL601 METRIC SL304 METRIC	TYE2002M	

TABLE 1 DIMENSIONS

SIZE DASH NO.	Ø A +.000 -.010	Ø B	ØC	ØD CLEARANCE HOLE	J BASIC	K MIN	L MIN	INSTALLATION HOLE SIZE
06	.560	.30	.280	.139 - .145	.367	.260	.250	.561 - .566
08	.560	.30	.332	.168 - .174	.367	.260	.250	.561 - .566
3	.560	.30	.385	.195 - .201	.367	.260	.250	.561 - .566
4	.685	.37	.507	.256 - .263	.467	.360	.312	.686 - .691
5	.685	.47	.625	.315 - .322	.467	.360	.312	.686 - .691
6	.841	.50	.750	.376 - .383	.591	.484	.375	.842 - .847

TABLE 1A METRIC DIMENSIONS

SIZE DASH NO.	Ø A +.000 -.010	Ø B	ØC	ØD CLEARANCE HOLE	J BASIC	K MIN	L MIN	INSTALLATION HOLE SIZE
M3	.560	.30	.280	.122-.127	.367	.260	.250	.561 - .566
M4	.560	.30	.332	.160-.166	.367	.260	.250	.561 - .566
M5	.560	.30	.385	.204-.210	.367	.260	.250	.561 - .566
M6	.685	.37	.507	.243-.249	.467	.360	.312	.686 - .691
M8	.685	.47	.625	.322-.329	.467	.360	.312	.686 - .691
M10	.841	.50	.750	.405-.412	.591	.484	.375	.842 - .847

TABLE 2

SEE NOTE 4

DASH NO.	L±.010 LENGTH
-4	.250
-5	.312
-6	.375
-7	.437
-8	.500
-9	.563
-10	.625
-11	.687
-12	.750
-13	.812
-14	.875
-15	.937
-16	1.000

MATERIAL: CARBON STEEL PER ASTM A108, ULTIMATE TENSILE STRENGTH 85 KSI MINIMUM.
AL ALLOY, GRADE 2024 (UNS A92024), TEMPER T4 OR T351 PER AMS-QQ-A-225/6.
CORROSION RESISTANT STEEL, TYPE 303 (UNS S30300) PER ASTM A582/ASTM582M.

EXAMPLE PART NUMBERING SYSTEM

181- 4 - K - 12- SS

- SS → MATERIAL AND FINISH
  A= ALUM ALLOY (PLAIN FINISH)
  AA= ALUM W/ANODIZE
  C= CARBON STEEL W/ CAD PLATE
  SS= STAINLESS STEEL
  SP= STAINLESS STEEL W/PASSIVATE
  SV= STAINLESS W/ SILVER
  CF1= ALUM, CHEM-FILM CL 1
  A3= ALUM, CHEM-FILM C 3
- 12 → LENGTH DASH NO (TABLE 2 INCREMENTS OF 1/16") ALT LENGTHS SEE NOTE 4
- K → ADD "K" FOR 100° CSK
- 4 → D CLEARANCE HOLE (TABLE 1) ALT CLEARANCE HOLE SEE NOTE 8
- 181 → SERIES PREFIX

GENERAL NOTES:

1. INSTALLATION TABS ARE INCLUDED.
2. TOLERANCES .XXX = ±.010
   .XX = ±.02

/3/ BURRS AROUND POTTING HOLES OR SLOTS PERMISSIBLE UNDER FLANGE

4. FOR OTHER LENGTHS USE .XXX CALLOUT AS SHOWN:
   INCH:
   181-4-.400-SS
   └ LENGTH
   METRIC:
   181-4-10.2MM-SS
   └ LENGTH

/5/ STRAIGHT OR DIAMOND ANTIROTATIONAL KNURL, SHORTER LENGTHS KNURL OPTIONAL (MANUFACTURER'S OPTION).

/6/ EXTERNAL CONFIGURATION OPTIONAL IN THIS AREA.

/7/ POTTING AND VENT HOLES OR SLOTS (MANUFACTURER'S OPTION)

8. FOR ALTERNATE CLEARANCE HOLE USE .XXX CALLOUT AS SHOWN:
   181-.439-16-SS
   └ HOLE
   (TOLERANCES MAY VARY ON ALTERNATE HOLE SIZES)

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