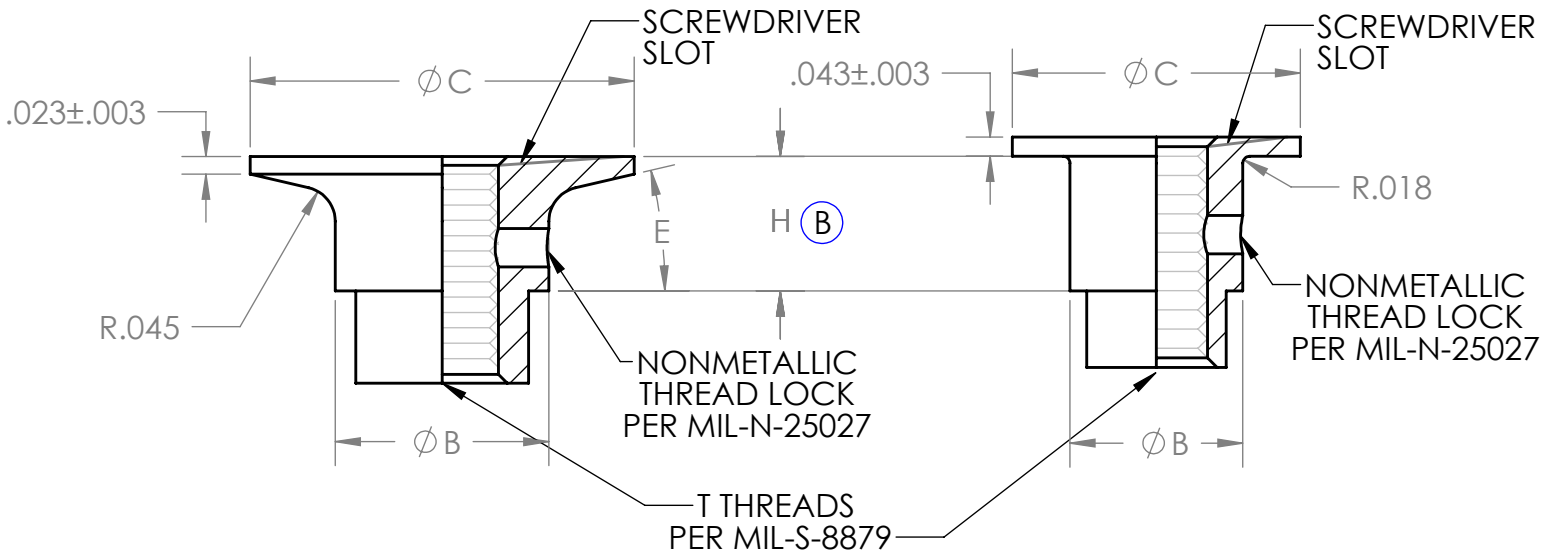
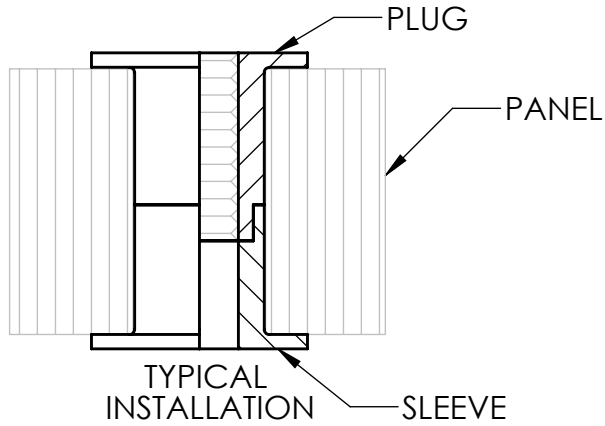


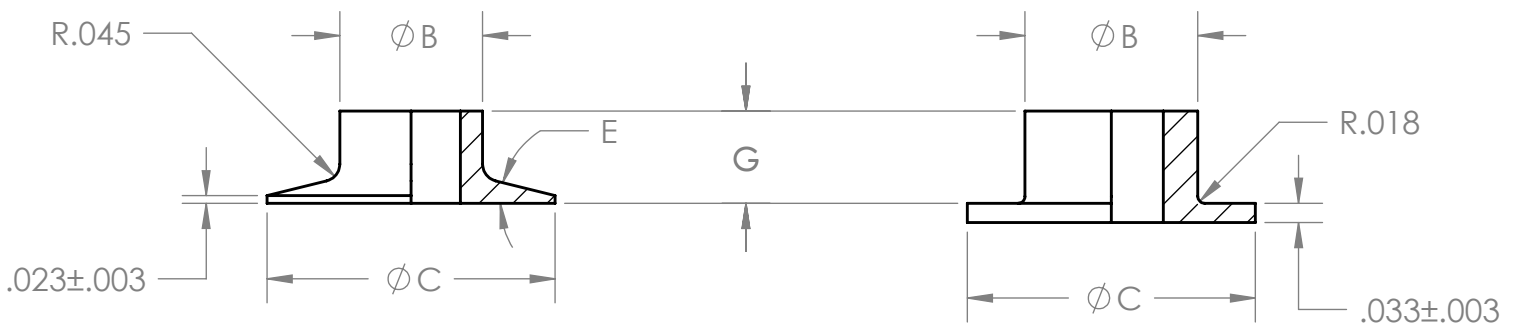
**W104 THIN SERIES**  
**INSERT: GROMMET TYPE, THREADED, NONMETALLIC**  
**THREAD LOCK, THIN PANEL FASTENER**



D

F

PLUG HEAD STYLES



D

F

SLEEVE HEAD STYLES

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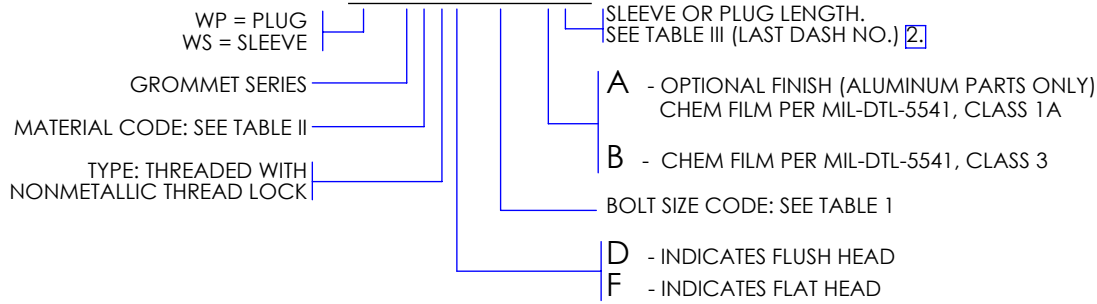
APPROVAL DATE: REV:A 7/2/2021

GAGE CODE: 0JHK5

# W104 THIN SERIES

## INSERT: GROMMET TYPE, THREADED, NONMETALLIC THREAD LOCK, THIN PANEL FASTENER

**PART NUMBER CODING:**

 WS104D10-0  
 WP104D1032-06

**TABLE I**

BOLT SIZE	T THREAD CLASS 3B	ØB ±.003	ØC	E
440	.1120-40UNJC	.216	.375	13°
632	.1380-32UNJC	.309	.500	13°
832	.1640-32UNJC	.309	.500	13°
1032	.1900-32UNJF	.341	.625	13°
428	.2500-28UNJF	.403	.750	14°
524	.3125-24UNJF	.497	.875	14°

**TABLE II**

MATL CODE	MATERIAL	FINISH
0	AL ALLOY, GRADE 2024, TEMPER T4 OR T351 PER SAE-AMS-QQ-A-225/6	ANODIZE PER MIL-A-8625 TYPE I
6	CORROSION RESISTANT STEEL, TYPE 303 CRES PER ASTM A 582	PASSIVATE PER ASTM-A967
9	CARBON STEEL PER ASTM A 108	CAD PLATE PER SAE-AMS-QQ-P-416, TYPE II, CLASS 2

**TABLE III**

PANEL THICKNESS MINIMUM	LENGTH CODE	SLEEVE		LENGTH CODE	PLUG	
		G			H	
		SIZE CODE			SIZE CODE	
		4, 6, 8, 10, 25	31		440, 632, 832, 1032, 428	524
.245	0	.094	NA	04	.151	NA
.276	1	.125				
.307	2	.156				
.338	3	.187				
.375	0	.094	NA	06	.281	NA
.406	1	.125				
.437	2	.156				
.468	3	.187				
.495	0	NA	.094	08	NA	.401
.526	1		.125			
.557	2		.156			
.588	3		.187			
.620	0	NA	.094	10	NA	.526
.651	1		.125			
.682	2		.156			
.713	3		.187			
.745	0	NA	.094	12	NA	.651
.776	1		.125			
.807	2		.156			
.838	3		.187			

**NOTES:**

1. ANY COMBINATION OF SLEEVE AND PLUG WITHIN BOLT SIZE MAY BE USED.
2. REFER TO TABLE III TO SELECT PLUG/SLEEVE COMBINATION FOR A GIVEN PANEL THICKNESS.
3. THE W104 THIN SERIES GROMMETS ARE SELF-RETAINED THROUGH A TELESCOPIC PRESS FIT.
4. CONSULT THE WITTEN COMPANY ENGINEERING DEPARTMENT FOR OTHER FINISHES, MATERIALS, OR SIZES.

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