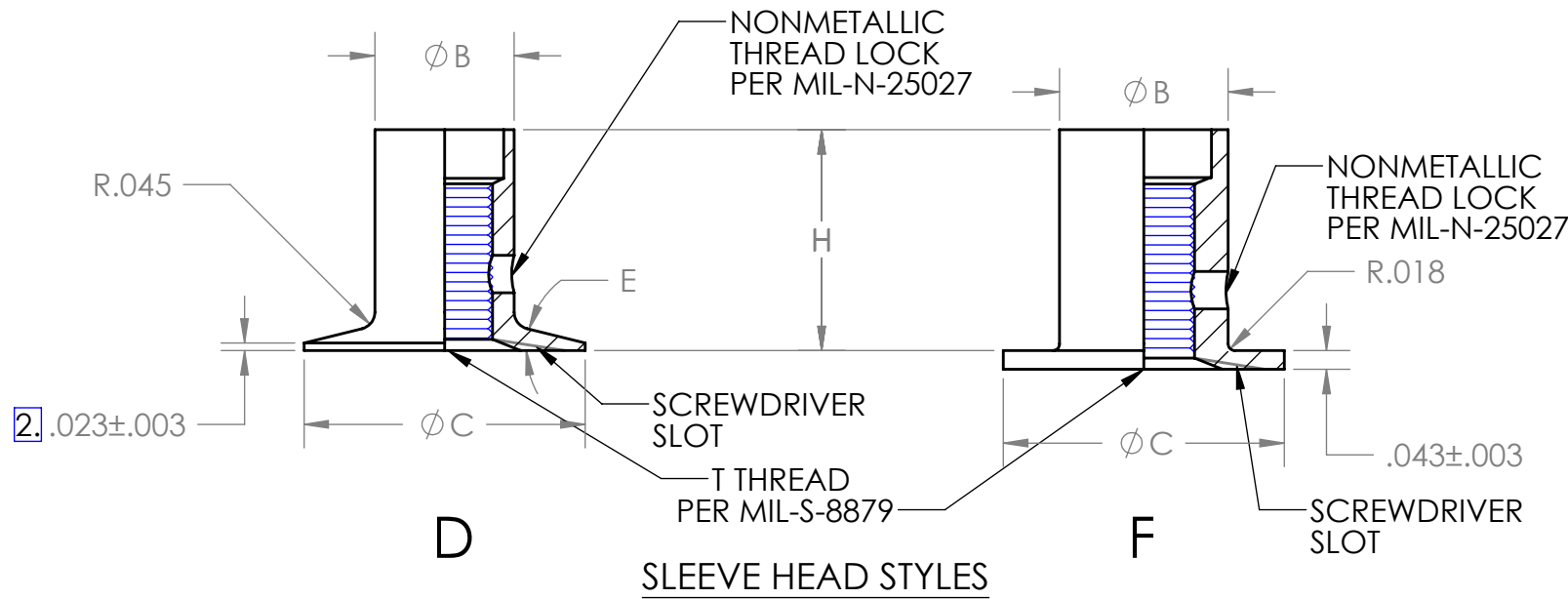
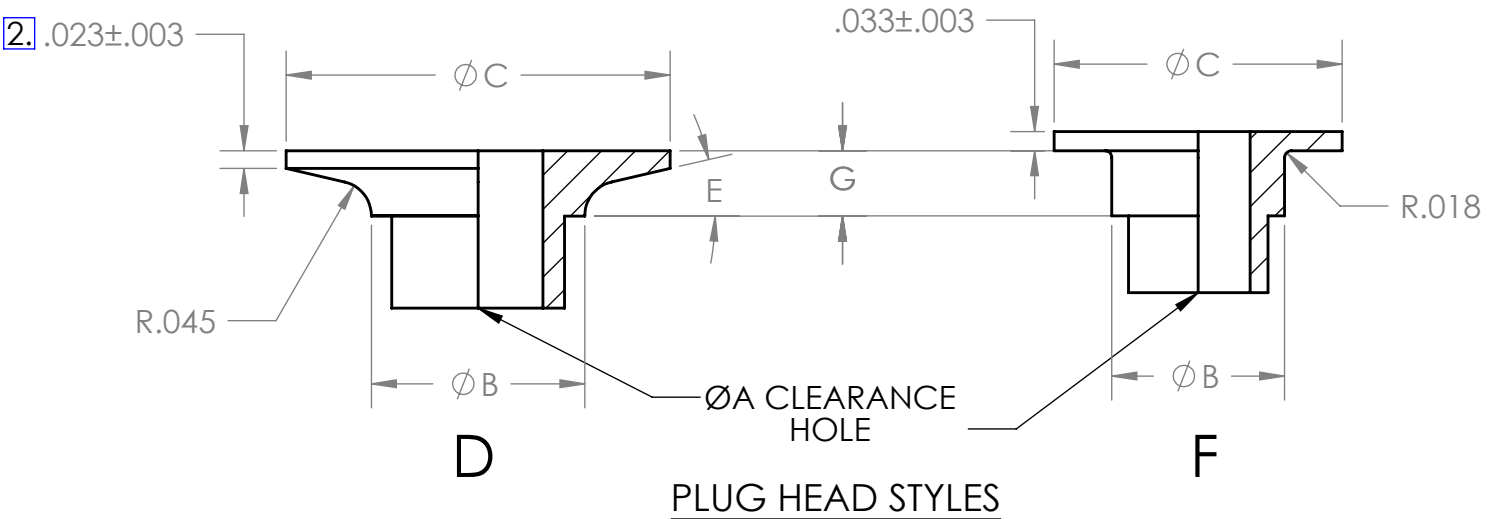
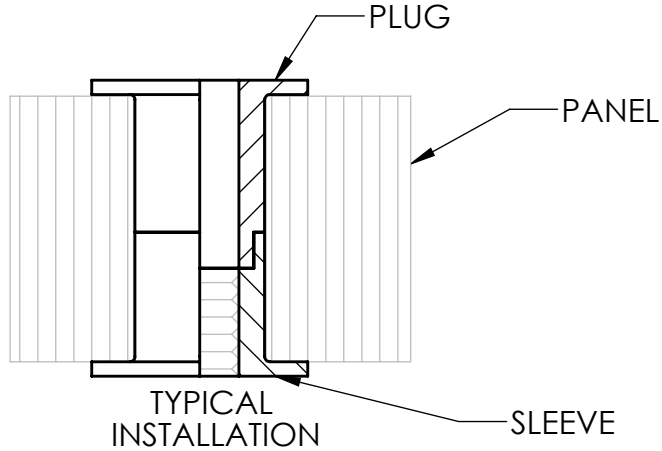


**W104**  
**INSERT: GROMMET TYPE, THREADED NONMETALLIC THREAD LOCK**



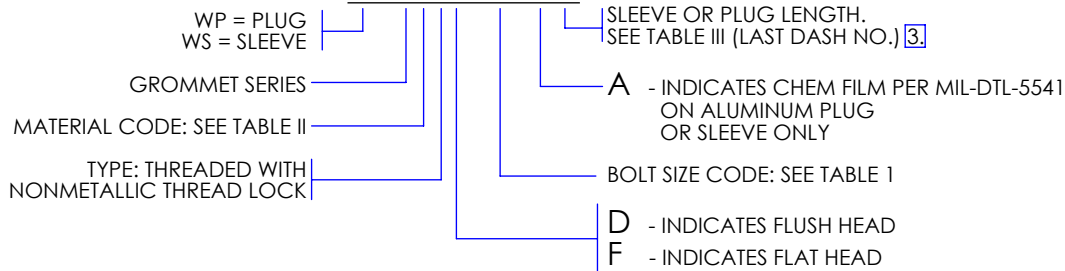
# W104

## INSERT: GROMMET TYPE, THREADED NONMETALLIC THREAD LOCK

**PART NUMBER CODING:**

WP164F10-1

WS164F1032-08


**TABLE I**

BOLT SIZE	T THREAD CLASS 3B	ØA ±.003	ØB ±.003	ØC	E
440	.112-40UNJC	.116	.216	.375	13°
632	.1380-32UNJC	.142	.309	.500	13°
832	.1640-32UNJC	.168	.309	.500	13°
1032	.1900-32UNJF	.194	.341	.625	13°
428	.2500-28UNJF	.256	.403	.750	14°
524	.3125-24UNJF	.318	.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

**NOTES:**

1. ANY COMBINATION OF SLEEVE AND PLUG WITHIN BOLT SIZE MAY BE USED.
2. .033±.003 ON 524 SIZE.
3. REFER TO TABLE III TO SELECT PLUG/SLEEVE COMBINATION FOR A GIVEN PANEL THICKNESS.
4. THE W104 SERIES GROMMETS ARE SELF-RETAINED THROUGH A TELESCOPIC PRESS FIT.
5. CONSULT THE WITTEN COMPANY ENGINEERING DEPARTMENT FOR OTHER FINISHES, MATERIALS, OR SIZES.

 WITTEN COMPANY  
918-272-9567

 APPROVAL DATE:  
11/10/2020

GAGE CODE: 0JHK5

# W104

## INSERT: GROMMET TYPE, THREADED, NONMETALLIC THREAD LOCK

**TABLE III**

PANEL THICKNESS MINIMUM	LENGTH CODE	PLUG		LENGTH CODE	SLEEVE	
		G			H	
		SIZE CODE			SIZE CODE	
		4, 6, 8, 10, 25	31		440, 632, 832, 1032, 428	524
.500	0	.085				
.515	01	.100				
.531	1	.116				
.546	11	.131				
.562	2	.147				
.577	21	.162				
.594	3	.179				
.609	31	.194				
.625	0	.085				
.640	01	.100				
.656	1	.116				
.672	11	.131				
.687	2	.147				
.702	21	.162				
.719	3	.179				
.734	31	.194				
.750	0	.085				
.765	01	.100				
.781	1	.116				
.796	11	.131				
.812	2	.147				
.827	21	.162				
.844	3	.179				
.859	31	.194				
.875	0	.085	.248			
.890	01	.100	.264			
.906	1	.116	.279			
.921	11	.131	.295			
.937	2	.147	.310			
.952	21	.162	.326			
.969	3	.179	.341			
.984	31	.194	.357			
1.000	0	.085	.248			
1.015	01	.100	.264			
1.031	1	.116	.279			
1.046	11	.131	.295			
1.062	2	.147	.310			
1.077	21	.162	.326			
1.094	3	.179	.341			
1.109	31	.194	.357			
1.125	0	.085	.248			
1.140	01	.100	.264			
1.156	1	.116	.279			
1.171	11	.131	.295			
1.187	2	.147	.310			
1.202	21	.162	.326			
1.219	3	.179	.341			
1.234	31	.194	.357			
1.250	0	.085	.248			
1.265	01	.100	.264			
1.281	1	.116	.279			
1.296	11	.131	.295			
1.312	2	.147	.310			
1.327	21	.162	.326			
1.343	3	.179	.341			
1.359	31	.194	.357			

 WITTEN COMPANY  
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 APPROVAL DATE:  
 11/10/2020

GAGE CODE: OJHK5