

NEW!

- Universal slot/Phillips recess.
- Type PF13 meets UL 508 “operator access area” requirements.
- Type PF14 meets UL 1950 “service access area” requirements.



Type PF13

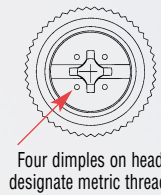


Type PF14



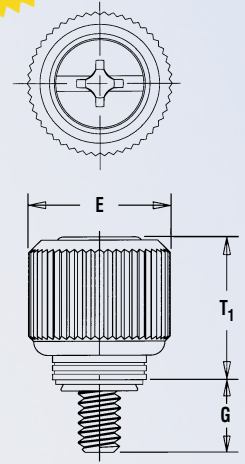
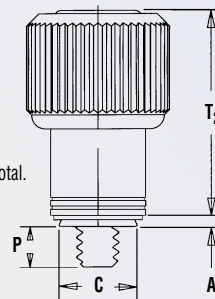
DuraBlack™ finish

SCRATCH PROOF



Four dimples on head designate metric thread.

Min. Float - .020" / 0.51 mm total.



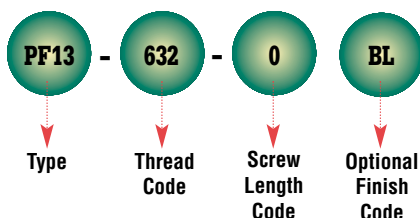
All dimensions are in inches.

	Thread Size	Type		Thread Code	Screw Length Code	A Max.	Min. Sheet Thickness	Hole Size In Sheet + .003 - .000	C Max.	E ± .010	G ± .025	P ± .025	T ₁ Nom.	T ₂ Nom.	Driver Size	Min. Dist. Hole C/L To Edge
		Knurled Cap	Smooth Cap													
UNIFIED	.112-40 (#4-40)	PF13	PF14	440	0	.036	.036	.219	.218	.417	.200	.000	.310	.470	#1	.280
					1						.260	.060				
					2						.320	.120				
	.138-32 (#6-32)	PF13	PF14	632	0	.036	.036	.250	.249	.450	.230	.000	.450	.640	#2	.290
					1						.290	.060				
					2						.350	.120				
	.164-32 (#8-32)	PF13	PF14	832	0	.036	.036	.312	.311	.514	.230	.000	.450	.640	#2	.330
					1						.290	.060				
					2						.350	.120				
	.190-32 (#10-32)	PF13	PF14	032	0	.036	.036	.312	.311	.514	.230	.000	.450	.640	#2	.330
					1						.290	.060				
					2						.350	.120				
	.250-20 (1/4-20)	PF13	PF14	0420	0	.036	.036	.375	.374	.575	.290	.000	.530	.800	#3	.460
					1						.350	.060				
					2						.410	.120				

All dimensions are in millimeters.

	Thread Size	Type		Thread Code	Screw Length Code	A Max.	Min. Sheet Thickness	Hole Size In Sheet + 0.08	C Max.	E ± 0.25	G ± 0.64	P ± 0.64	T ₁ Nom.	T ₂ Nom.	Driver Size	Min. Dist. Hole C/L To Edge
		Knurled Cap	Smooth Cap													
METRIC	M3 x 0.5	PF13	PF14	M3	0	0.92	0.92	5.56	5.54	10.59	5.08	0	7.87	11.94	#1	7.11
					1						6.6	1.52				
					2						8.13	3.05				
	M3.5 x 0.6	PF13	PF14	M3.5	0	0.92	0.92	6.35	6.33	11.43	5.84	0	11.43	16.26	#2	7.37
					1						7.37	1.52				
					2						8.89	3.05				
	M4 x 0.7	PF13	PF14	M4	0	0.92	0.92	7.92	7.9	13.06	5.84	0	11.43	16.26	#2	8.38
					1						7.37	1.52				
					2						8.89	3.05				
	M5 x 0.8	PF13	PF14	M5	0	0.92	0.92	7.92	7.9	13.06	5.84	0	11.43	16.26	#2	8.38
					1						7.37	1.52				
					2						8.89	3.05				
	M6 x 1	PF13	PF14	M6	0	0.92	0.92	9.53	9.5	14.61	7.37	0	13.46	20.32	#3	11.68
					1						8.89	1.52				
					2						10.41	3.05				

Part Number Designation



MATERIAL: Knob - Aluminum. Retainer - Heat-treated Carbon Steel.
Screw - 400 Series Stainless Steel.
Spring - 300 Series Stainless Steel.

FINISH: Knob - Natural Finish.
Retainer - CN-Bright Nickel Over Copper Flash per ASTM B689.
Screw - Passivated and/or tested per ASTM A380.

OPTIONAL DURABLACK FINISH: BL.

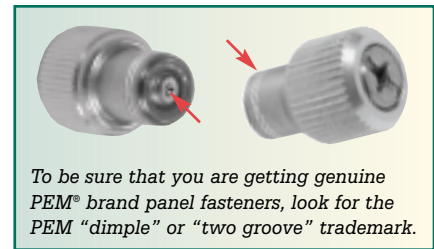
THREADS: External, ANSI B1.1, 2A ANSI/ASME B1.13M, 6g.

SHEET HARDNESS: 80 or Less on the Rockwell “B” Scale.

PERFORMANCE DATA⁽¹⁾

UNIFIED	Type	Thread Code	Test Sheet Material			
			5052-H34 Aluminum		Cold-Rolled Steel	
			Installation (lbs.)	Pushout (lbs.)	Installation (lbs.)	Pushout (lbs.)
	PF13 PF14	440 632 832/032 0420	1500 2000 3000 3500	80 95 100 105	2500 3500 4500 5000	145 150 160 195

METRIC	Type	Thread Code	Test Sheet Material			
			5052-H34 Aluminum		Cold-Rolled Steel	
			Installation (kN)	Pushout (N)	Installation (kN)	Pushout (N)
	PF13 PF14	M3 M4/M5 M6	6.7 13.3 15.6	355 445 465	11.1 20 22.2	645 710 865



(1) The installation and pushout values reported are averages when all installation specifications and procedures are followed. Variations in mounting hole size, sheet material, and installation force will affect this data. Performance testing of this product in your application is recommended. We will be happy to provide samples for this purpose.

INSTALLATION

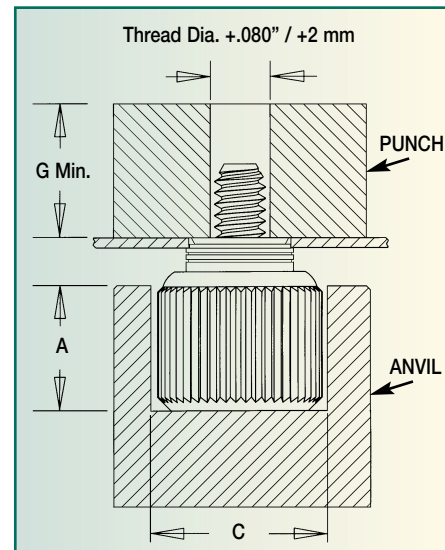
Procedure:

1. Punch or drill properly sized mounting hole in sheet. Do not perform any secondary operations such as deburring.
2. Place fastener into the anvil hole and place the mounting hole over the shank of the fastener as shown in the diagram to the right.
3. With punch and anvil surfaces parallel, apply squeezing force until the shoulder of the retainer contacts the sheet.

Anvil Dimensions

UNIFIED	Thread Code	Anvil Dimensions (in.)		Anvil Part Number	Punch Part Number
		A ±.002	C ±.002		
	440	.260	.437	8003521	8003518
	632	.390	.468	8003522	8003519
UNIFIED	832	.390	.531	8003523	8003520
	032	.390	.531	8003523	8004350
	0420	.480	.598	8004351	8004352

METRIC	Thread Code	Anvil Dimensions (mm)		Anvil Part Number	Punch Part Number
		A ±0.05	C ±0.05		
	M3	6.6	11.1	8003521	8003518
	M3.5	9.91	11.89	8003522	8003519
METRIC	M4	9.91	13.49	8003523	8003520
	M5	9.91	13.49	8003523	8004350
	M6	12.19	15.19	8004351	8004352



Specifications subject to change without notice.

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