

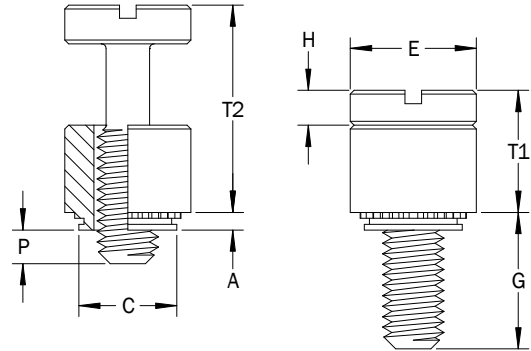
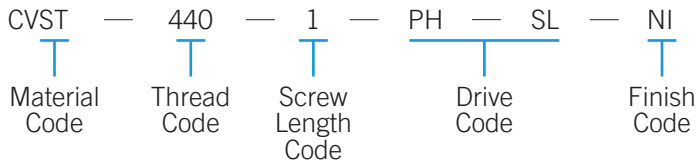
Panel Fastener Assemblies

FEATURES

- Attractive, compact design for limited space applications.
- Choices of screw length, material, finish and drive.
- For use in aluminum or carbon steel sheets with hardness HRB 60 or less.



PART DESCRIPTION EXAMPLE



GENERAL

	Thread	Thread Code	Screw Length Code	Sheet			A Max.	C Max.	E ±.010	G ±.025	H ±.005	P ±.025	T1	T2	Recess Size	
				Min. Thick.	Hole Size +.003 - .000	Min. Dist. Hole Center to Edge									Cross	Six-Lobe
INCH	4-40	440	0	.036	.203	.21	.036	.202	.260	.216	.080	.000	.260	.436	#1	T15
			1							.316		.095				
	6-32	632	0	.036	.219	.23	.036	.218	.276	.234	.092	.000	.290	.484	#2	T20
			1							.359		.120				
	8-32	832	0	.036	.252	.26	.036	.251	.309	.259	.111	.000	.335	.555	#2	T20
			1							.371		.106				

All dimensions in inches

	Thread	Thread Code	Screw Length Code	Sheet			A Max.	C Max.	E ±0.25	G ±0.64	H ±0.13	P ±0.64	T1	T2	Recess Size	
				Min. Thick.	Hole Size +0.08 - 0.00	Min. Dist. Hole Center to Edge									Cross	Six-Lobe
METRIC	M3X0.5	M3	0	0.92	5.50	5.8	0.92	5.49	6.95	5.55	2.03	0.00	6.69	11.25	#1	T15
			1							7.56		1.90				
	M3.5X0.6	M3.5	0	0.92	6.00	6.3	0.92	5.98	7.45	6.01	2.34	0.00	7.45	12.47	#2	T20
			1							8.42		2.30				
	M4X0.7	M4	0	0.92	6.40	6.7	0.92	6.38	7.85	6.59	2.79	0.00	8.50	14.10	#2	T20
			1							9.39		2.70				

All dimensions in millimeters

CV Panel Fastener Assemblies

DRIVE

Drive Code	Drive Description	
SL-PH	Slotted Cross-Recess	
SL-TX	Slotted Six-Lobe Recess	



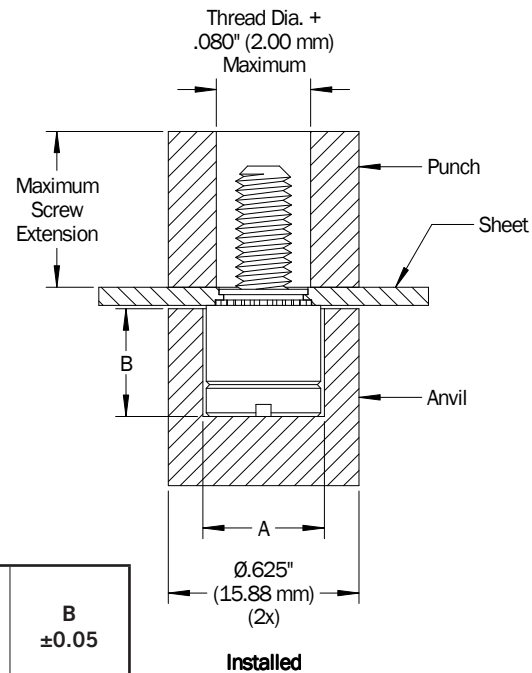
CV with Six-Lobe Recess

MATERIAL AND FINISH

Material Code	Material Description		Finish Code	Finish Description
	Retainer	Screw		Retainer and Screw
SS	300-Series Stainless Steel	300-Series Stainless Steel	P	Passivated and/or tested per ASTM A967
ST	Carbon Steel	Heat Treated Carbon Steel	NI	Bright Nickel per ASTM B689

INSTALLATION

1. Prepare correct sized mounting hole in sheet of hardness HRB 60 or less. Do not deburr hole edges.
2. Place fastener in anvil recess and locate sheet hole over the retainer shank with punch side of hole against retainer.
3. Squeeze the fastener and sheet between parallel anvil and punch surfaces. Use only enough pressure to seat the retainer shoulder flush with the sheet. Anvils and punches should be made from hardened tool steel.



ANVIL DIMENSIONS

INCH	Thread Code	A ±.002	B ±.002
	440	.285	.220
	632	.301	.250
	832	.332	.285

All dimensions in inches

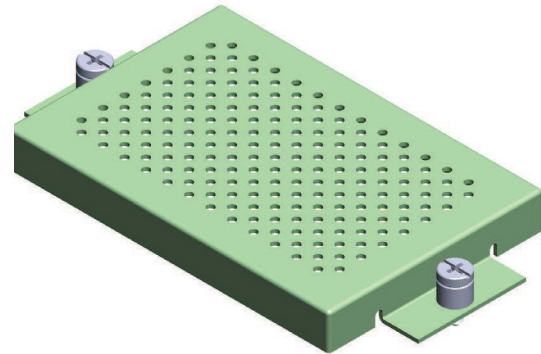
METRIC	Thread Code	A ±0.05	B ±0.05
	M3	7.24	5.59
	M3.5	7.65	6.35
	M4	8.43	7.24

All dimensions in millimeters

CV Panel Fastener Assemblies

PERFORMANCE

INCH	Thread Code	Test Sheet Material			
		Aluminum		Cold-Rolled Steel	
		Installation (lbs)	Retainer Push-out (lbs)	Installation (lbs)	Retainer Push-out (lbs)
	440	1450-1950	92-125	1850-2550	100-135
	632	1550-2150	99-135	2050-2750	110-145
	832	1800-2400	115-155	2300-3100	125-170



CV Panel Fastener Assemblies offer an attractive alternative to loose hardware in a variety of applications

METRIC	Thread Code	Test Sheet Material			
		Aluminum		Cold-Rolled Steel	
		Installation (kN)	Retainer Push-out (N)	Installation (kN)	Retainer Push-out (N)
	M3	6.9-9.3	440-595	8.9-12.1	480-650
	M3.5	7.5-10.1	475-645	9.7-13.1	520-705
	M4	8.0-10.8	510-690	10.3-13.9	560-755

(1) Performance data are shown in ranges and should be used for estimating purposes only as actual results may be affected by variations in installation and panel preparation equipment and procedures; and panel hardness, hole size, material and thickness. PENCOM strongly recommends testing in each application to determine actual loads.

CV Panel Fastener Assemblies