



CV

Panel Fastener Assembly

FEATURES

- Attractive, compact design for limited space applications.
- Choices of screw length, material, finish and drive.
- RoHS compliant.
- For use in sheets HRB 60 or less.



PART DESCRIPTION EXAMPLE

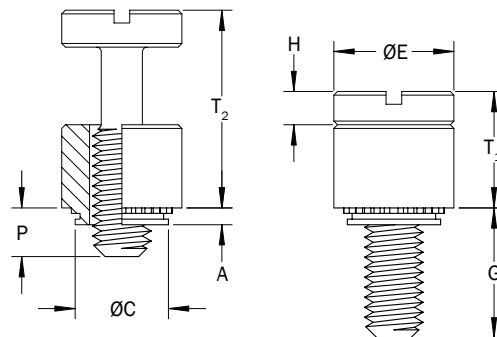
CVST — 440 — 1 — PH — SL — NI

Material Code Thread Code Screw Length Code Drive Code Finish Code

OPTIONS

A nylon thread locking element can be added to the screw threads to prevent loosening due to vibration. To specify, insert **PATCH** at the end of the part description. Other locking elements available by request.

ex: CVST-440-1-PH-SL-NI-PATCH



GENERAL

Inch	Thread	Thread Code	Screw Length Code	Sheet			A Max.	ØC Max.	ØE ±.010	G ±.025	H ±.005	P ±.025	T ₁ Nom.	T ₂ Nom.	Recess Size	
				Min. Thick.	Hole Size +.003 -0.000	Min. Dist. Hole Center to Edge									Cross	Six-Lobe
	4-40	440	0	.036	.203	.213	.036	.202	.260	.216	.080	.000	.260	.436	#1	T15
			1							.316		.095				
	6-32	632	0	.036	.219	.230	.036	.218	.276	.234	.092	.000	.290	.484	#2	T20
			1							.359		.120				

All dimensions in inches

Metric	Thread	Thread Code	Screw Length Code	Sheet			A Max.	ØC Max.	ØE ±0.25	G ±0.64	H ±0.13	P ±0.64	T ₁ Nom.	T ₂ Nom.	Recess Size	
				Min. Thick.	Hole Size +0.08 -0.00	Min. Dist. Hole Center to Edge									Cross	Six-Lobe
	M3X0.5	M3	0	0.92	5.5	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	6.0	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	.92	6.4	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

DRIVE

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



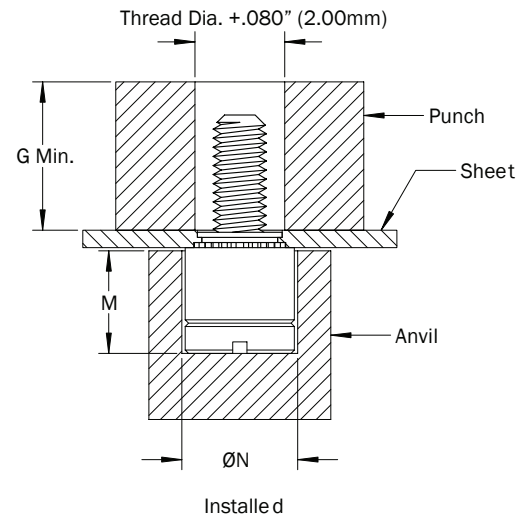
CV with Six-Lobe Recess

MATERIAL & FINISH

Material Code	Material Description		Finish Code	Finish Description
	Retainer	Screw		
ST	Carbon Steel	Heated-Treated Carbon Steel	NI	Bright Nickel per ASTM B 689
SS	300-Series Stainless Steel	300- Series Stainless Steel	P	Passivate and/or test per ASTM A 967

INSTALLATION

1. Punch or drill hole in sheet of hardness HRB 60 or less. Do not deburr edges.
2. Place fastener in anvil recess and locate sheet hole over the retainer shank.
3. Squeeze the sheet and fastener between parallel anvil and punch surfaces. Use only enough pressure to seat the retainer shoulder flush with the sheet.



(Anvil and punch should be made from hardened alloy steel)

ANVIL DIMENSIONS

Inch	Thread Code	Screw Length Code	Anvil Dimensions		
			G. Min.	M ±.002	ØN ±.002
	440	0	.216	.220	.285
1		.316			
632	0	.234	.250	.301	
	1	.359			

All dimensions in inches

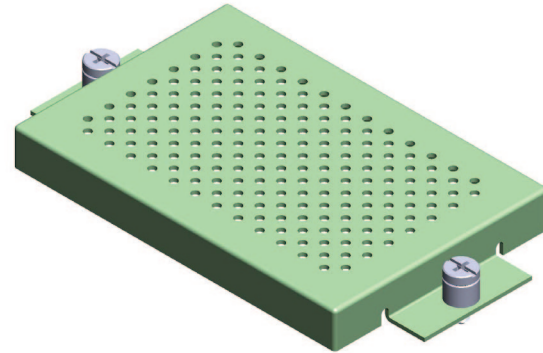
Metric	Thread Code	Screw Length Code	Anvil Dimensions		
			G. Min.	M ±0.05	ØN ±0.05
	M3	0	5.55	5.59	7.24
1		7.56			
M3.5	0	6.01	6.35	7.65	
	1	8.42			
M4	0	6.59	7.24	8.43	
	1	9.39			

All dimensions in millimeters

PERFORMANCE

Inch	Thread Code	Test Sheet Material			
		Aluminum		Cold-Rolled Steel	
		Installation (lbs)	Push-out (lbs)	Installation (lbs)	Push-out (lbs)
	440	1700	108	2200	118
	632	1850	117	2400	128

Metric	Thread Code	Test Sheet Material			
		Aluminum		Cold-Rolled Steel	
		Installation (kN)	Push-out (N)	Installation (kN)	Push-out (N)
	M3	8.1	516	10.5	564
	M3.5	8.8	561	11.4	614
	M4	9.4	599	12.1	656



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

(1) Performance data represents the average destructive result when all installation specifications are strictly followed. Variations in panel hole size, thickness, material and installation methods will affect the loads. Pencom recommends testing in the application. Contact your account representative for samples.

This information may be updated periodically. Contact Pencom for current information or see www.pencomsf.com