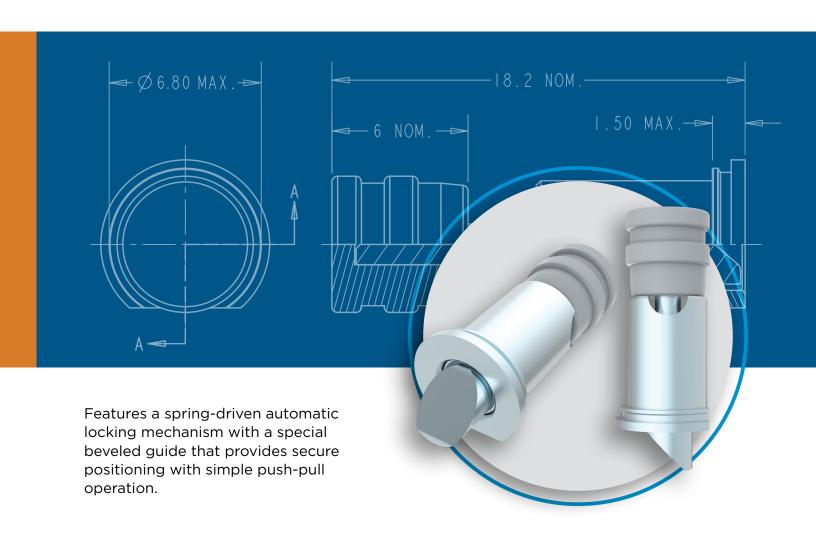


# **PFAP™**

# PEM® SELF-CLINCHING AUTO-LOCK PLUNGER ASSEMBLY



# PEM® PFAP™ AUTO-LOCKING PLUNGER ASSEMBLY

Automatic locking mechanism for limited access application.

The PFAP™ panel fastener excels in applications requiring frequent access with limited clearance, which makes it ideal for compact equipment designs. The automatic locking mechanism eliminates the risk of accidental disengagement while the spring compliance enhances vibration resistance – ensuring reliable performance in dynamic environments.

The slender design of the PFAP™ plunger saves valuable space in compact assemblies, and the effortless one-hand operation reduces service time and improves ergonomics for technicians working in areas with limited access.

#### Automatic Lock Design

Spring-driven mechanism with beveled guide plunger provides secure engagement without manual locking steps

## One-Hand Operation

Simple push-pull action enables rapid installation and removal even in areas with limited access

#### Miniaturized Profile

Compact design maximizes space efficiency while maintaining full functionality

#### Custom Colors

Available with customizable plastic knobs for product identification and enhanced aesthetics

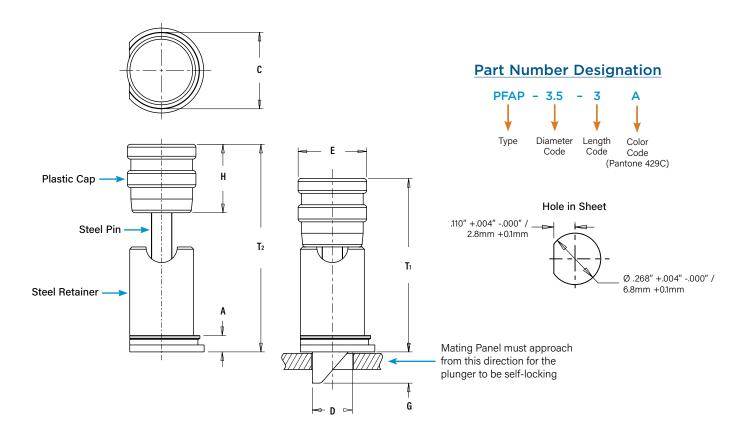
#### Self Clinching Installation

Permanent installation creates strong, integrated attachment points using standard arbor press



Fastener drawings and models are available at <a href="www.pemnet.com">www.pemnet.com</a>. Custom sizes are available on special order. Contact us for more information.

# **Dimensional Data**



Туре	Plunger Dia. Code	Plunger Length Code	A (Shank) Max.		Min. Sheet Thickness		Hole Size in Sheet +.003" 000" / +0.08mm (1)		Hole Size in Mating Part Ref.		C Max.		D Pin Dia. ±.003" / ±0.08mm		E ±.010" / ±0.25mm		G ±.025" / ± 0.64mm		H Nom.		T <sub>1</sub> Nom.		T <sub>2</sub> Nom.		Min. Dist. Hole C/L to Edge <sup>(2)</sup>	
			in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
PFAP	3.5	3	.059	1.5	.059	1.5	.268	6.8	.146	3.7	.267	6.78	.138	3.5	.236	6	.118	3	.236	6	.598	15.2	.717	18.2	.250	6.35

# **Material and Finish Specifications**

		Fastener Materials			For Use in Sheet Hardness: <sup>(3)</sup>		
Component	Hardened Carbon Steel	300 Series Stainless Steel	Polycarbonate (UL 94V-0, Halogen Free) <sup>(4)</sup>	Pantone 429C (Grey)	Zinc plated per ASTM B633, SC1 (5ųm), Type III, Colorless <sup>(5)</sup>	Natural Finish	HRB 80 / HB 150 or less
Сар			-	•			
Pin	-				•		
Spring				-			
Retainer	•				•		

- (1) The mounting hole is D-shaped to ensure correct orientation of the plunger during installation.
- (1) The mortining note is D-shaped to ensure correct inertiation of the plunger during installation.

  (2) For more information on proximity to bends and distance to other clinch hardware, see PEM® Tech Sheet C/L To Edge.

  (3) HRB Hardness Rockwell "B" Scale. HB Hardness Brinell.

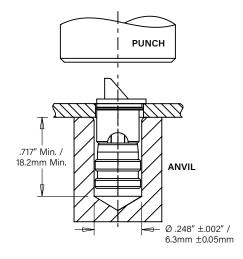
  (4) Temperature Limit: 210° F (99° C). Additional cap colors available on special order.

- (5) See PEM Technical Support section of our web site for related plating standards and specifications.

#### Installation

- Prepare properly sized mounting hole in sheet. Do not perform any secondary operations such as deburring.
- Orient the plunger assembly in the D shaped mounting hole and insert fastener through mounting hole (punch side) of sheet and into anvil hole.
- 3. With punch and anvil surfaces parallel, apply squeezing force to embed the retainer flush in the sheet.

Tuno	HAEGER® Part Number						
Туре	Anvil	Punch					
PFAP	H-103-04L	H-108-0020L					



## Performance Data(1)

Τ.	Туре	Diameter	Test Sheet Material	Instal	lation	Retainer Pushout			
'		Code	iost officet material	lbs.	N	lbs.	N		
PF	FAP	3.5	.060" / 1.5mm Cold-rolled Steel	3372	15000	292	1300		

(1) Published installation forces are for general reference. Actual set-up and confirmation of complete installation should be made by observing proper seating of fastener as described in the installation steps. Other performance values reported are averages when all proper installation parameters and procedures are followed. Variations in mounting hole size, sheet material, and installation procedure may affect performance. Performance testing this product in your application is recommended. We will be happy to provide technical assistance and/or samples for this purpose.

All PEM® products meet our stringent quality standards. If you require additional industry or other specific <u>quality certifications</u>, special procedures and/or part numbers are required. Please contact your local sales office or representative for further information.

Regulatory <u>compliance information</u> is available in Technical Support section of our website. Specifications subject to change without notice. See our website for the most current version of this bulletin.



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Visit our PEMNET™ Resource Center at <a href="www.pemnet.com">www.pemnet.com</a> • Technical support e-mail: <a href="techsupport@pemnet.com">techsupport@pemnet.com</a>

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