Pop-A-Plug® CPI/Perma
Heat Exchanger & Condenser Tube Plugging System

Fast, Safe and Reliable Way to Seal Leaking Heat Exchangers & Condensers

Pop-A-Plug® CPI/Perma tube plugs are resistant to thermal cycling and are able to provide a seal that is helium leak tight. Pop-A-Plug® CPI/Perma tube plug installs using a controlled force. This protects against damage to tubesheet ligaments and adjacent tubesheet joints, extending the life of your heat exchanger and reducing total operating cost.

- **Fast** - Simple hydraulic installation significantly reduces turnaround/down time
- **Safe** - Pressure rated to 1,000 PsiG (69 BarG)
- **Reliable** - Provides helium leak tight seal to $1 \times 10^{-6}$ cc/sec
- **Lowest life cycle cost compared to alternative plugging methods**
- **Permanent solution, engineered for optimal performance throughout the life cycle of the heat exchanger**
- **Unique breakaway controls installation force for consistent repeatable results**
- **Eliminates need for welding or explosives**
- **Standard sizes - 0.472" - 2.067" (11.99mm - 52.50mm), larger sizes available upon request**
- **Available in - Brass, Carbon Steel, 316 Stainless Steel, 304 Stainless Steel, 4142 Alloy, 70/30 CU/Ni, 90/10 CU/Ni, Monel, Titanium, Duplex 2205, Chromoly Grade 11, Chromoly Grade 22, additional materials available upon request**
- **Engineered solution - Fast installation without ligament or roll joint damage**
- **Designed to be a Through-The-Tube plugging solution. Allows the tube plug to be passed through the length of a straight through-tube heat exchanger and installs in the tubesheet without removing the bundle or far end cover.**
- **24/7 Emergency manufacturing service available**
- **Patented internal & external serrated ring**
- **Compliant with several QA Systems, including; ANSI N45.2, 10 CFR 50 App. B, and 10 CFR 21**

Contact EST Group for information on installation and removal equipment or visit www.cw-estgroup.com
### Ordering Information

Please supply the following information when ordering:

- **Tube O.D. and wall thickness;** or measured tube I.D.
- **Tube material and/or tubesheet material**
- **Maximum pressure and temperature**
- **The type of tube-to-tubesheet joint (rolled, welded, etc.)**
- **Each kit includes a Go/ No-Go Gage for ensuring proper plug size (Brush kits and installation equipment sold separately.)**

### Standard Materials

- The suffix Q in the Part Number column is a plug material designator.
- Replace Q with one of the following: (B) for Brass, (C) for Carbon Steel, (S) for 316 Stainless Steel, (E) for 304 Stainless Steel, (A) for 4142 Alloy, (H) for 70/30 CU/NI, (N) for 90/10 CU/NI, (M) for Monel, (D) for Duplex 2205, (F11) for Chromoly Grade 11, (F22) for Chromoly Grade 22.
- (T) Titanium plugs do not have the same tube I.D. range. Please consult factory for ranges.
- The suffix (YY) in the Pull Rod Assembly column signifies the length, in feet, of the channel head extension. These parts are available in 1, 2, 3, 4, and 6 foot lengths (304.8, 609.6, 914.4, 1219.2 & 1828.8 mm). Add -01, -02, -03, etc. for the respective channel head extension length required.