

Pop-A-Plug® P2 High Pressure Tube Plugs

Solution Overview

Pop-A-Plug P2 tube plugging system maintains a leak tight seal under extreme thermal and pressure cycling. It reduces downtime, eliminates welding and explosives, and will not damage your tubes, tube joints or tube sheet.

Features

- Operating at pressures up to 7000 PsiG (483 BarG)
- Designed to maintain a helium leak-tight to 1×10^{-10} cc/sec.
- Available in over 35 alloys to best match your tube material
- ASME PCC-2 identifies PAP for heat exchanger tube plugging

Advantages

- Eliminates welding & need for pre-heat and post-weld stress relieving
- Breakaway ensures quick, easy and tightly controlled installation force, eliminating damage to tube joints and epoxy coated tube sheets
- Ideal for situations where tapered plugs are not appropriate:
 - Shell-side operating pressure 1.5 MPa (200 psi) or more
 - Shell-side operating temperature 205°C (400°F) or more
 - Tube-to-tubesheet joints are expanded but not welded
- Compliant with quality assurance systems including ANSI N45.2, 10 CFR 50 Appx. B, 10 CFR 21; Each lot is performance tested.
- Removable for retubing

Pop-A-Plug® Sizes

- **P2:** P2-400 to P2-1440 (0.400 – 1.460", 10.19mm – 37.1mm)
- **Expansion Range:** up to .020" (0.5mm)

Common Questions

Q: What options are there for installation tooling?

A: A variety of installation equipment is available to accommodate almost every situation: hydraulic, manual and battery driven solutions.

Q: Will the Pop-A-Plug P2 damage the tube or tube sheet that it's plugging?

A: No, the Pop-A-Plug P2 can be installed and removed without damaging your tubes or tubesheet joints.

Q: Can the Pop-A-Plug P2 and tube materials be different?

A: No. The plug and tube materials must closely match to accommodate thermal expansion and avoid problematic galvanic interaction.

Q: What is the average amount of time required to install a Pop-A-Plug P2 after the tube is prepped?

A: The average amount of time to do a full stroke and pop the breakaway is less than 15 secs.

Cross-sell / Up-sell Opportunity

- CPI/Perma Pop-A-Plug for broader expansion range
- Pop-A-Plug® Tube Stabilizers
- G-160 Tube Testers
- Installation tools:
 - Smart Ram 640T
 - PAP6600
 - PAP123RK
 - Close Quarter Ram

