PEM ThermaLink™ Fitting

Create strong, sealed threads in cold plate assemblies and manifold blocks, ensuring consistent torque.

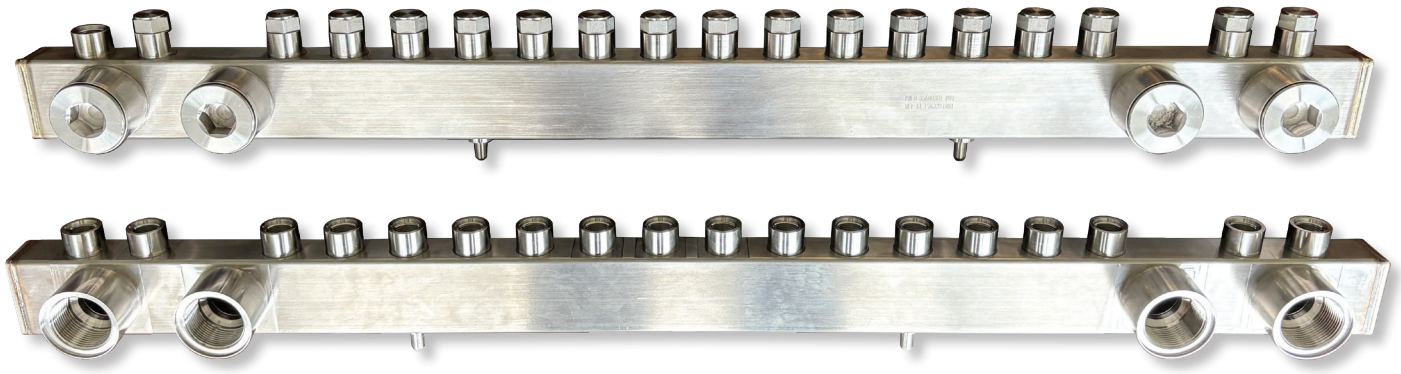
The Next-Generation of Leak-Free Manifold Technology

PEM ThermaLink™ fitting delivers a truly weld-free manifold solution using strong mechanical connections to create sealed, torque-consistent threads and fluid paths in cold plates and manifold blocks. This approach eliminates distortion and leakage risks, meets tight GD&T, anti-corrosion, cleanliness and OCP requirements, and allows repair of fittings after assembly.

Engineered around square tubes and precision fittings, the system installs each connection in under ten seconds while enabling parallel CNC machining of tubes and fittings and separate cleaning/passivation for maximum productivity. The solution is environmentally benign, automation-ready, and designed for both samples and mass production with controlled quality, cost, and lead time.

A fully integrated “all-in-one” manifold design service provides rapid turn-around and high flexibility to update structure, type, size, or material as projects evolve, enabling faster adoption of next-generation liquid-cooling and fluid-control architectures at scale.*

*Customer application validation required.



Patent Pending

PEM Thermalink™ Solution

- **Installation:** Riveting
- **Installation Time:** Less than 10 seconds
- **Panel Min. Thickness:** 2.0mm to 4.0mm
- **Panel Flatness:** No influence, same as tube
- **Prevents Liquid Leakage:** O-Ring in nut. Working life 10 years

Benefits

Leak-free, distortion-free design: Strong mechanical connections replace welding.

Ultra-fast assembly: Each fitting installs in under 10 seconds.

Parallel CNC and streamlined cleaning: Tubes and fittings machined simultaneously with separate passivation.

Integrated all-in-one system: Combines tubes, fittings, and fixtures for simplified production.

Flexible and repairable: Easily adapt structure, size, or material; fittings can be serviced later.

Consistent quality & cost efficiency: Ideal for both prototypes and mass production, with automation-ready capability.

 | pemnet.com