



# PEM ThermaLink™ Fitting

**Weld-free fittings for manifolds, drains, and ports – set with a rivet, not heat.**

## Rivet In. Seal Tight. Skip the Weld.

PEM ThermaLink™ replaces welding and brazing on manifolds, drains, and ports. A precision rivet sets the fitting into the tube without heat, and a compressed elastomeric seal delivers a hermetic, leak-free connection engineered to OCP standards.

No heat means no distortion, no heat-affected zones, and no FOD to clean up. It also means no dependence on scarce skilled welders – and tolerances tight enough for dense, blind-mate port arrays.

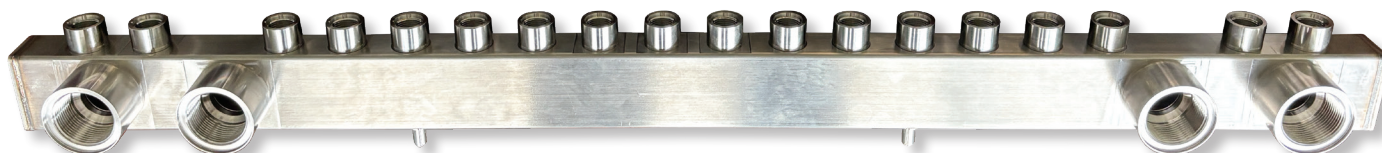


Patent Pending

## Held to Tighter Tolerances

| Tolerance Metric         | PEM ThermaLink™ (Rivet-Fit) | Typical Welding | Typical Brazing |
|--------------------------|-----------------------------|-----------------|-----------------|
| Perpendicularity         | 0.05 mm                     | 0.2 – 0.5 mm    | 0.1 – 0.3 mm    |
| Parallelism / Flatness   | 0.08 mm                     | 0.3 – 0.8 mm    | 0.15 – 0.4 mm   |
| Position / Concentricity | 0.15 mm                     | 0.3 – 1.0 mm    | 0.2 – 0.5 mm    |

PEM ThermaLink™ delivers 4-7x tighter perpendicularity and 2-5x tighter position tolerance than conventional welding, and consistently outperforms brazing – enabling precision blind-mate (UQDB) coupling without thermal distortion.



## Specifications

- **Installation:** Riveting - no heat, no weld, no braze
- **Installation time:** 3 seconds rivet cycle; under 10 seconds per connection
- **Panel thickness:** 2.0mm to 4.0mm
- **Panel flatness:** No influence, same as tube
- **Leak prevention:** O-Ring in nut; 10-year working life

## Independently Qualified

- **Helium leak:** No confirmed leak
- **Burst pressure:** 8.36 MPa vs. 2.76 MPa required
- **Temperature & humidity:** No damage
- **Vibration, 3 axes:** No damage
- **Pressure cycling:** 10,000 cycles, no damage



### See the Full Data Set

Scan QR code for complete test results, full specifications, application details, and ways to purchase.