Reliable Connections for Thermal Management Systems

High performance
Assembly friendly
Space efficient
Tailored solutions
Engineered for reliability

Our quality is confirmed on more than 90 million vehicles annually and featured on virtually every vehicle manufactured globally.

Global Customer Support
For all Phases of Development

Advanced Engineering
- Consultative engineering
- Dedicated localized support
- Rapid prototyping and machining
- CAD modeling & 3D printing

Early Development
- Technical design analysis
- Custom-build solutions
- Tailor-made prototypes
- Functional testing

Systems Integration
- Advanced testing & validation
- Assembly solution engineering
- Tailored assembly tools
- Pre-production support

Production
- Global quality assurance
- Worldwide production
- On-site technical support
- Commissioning & maintenance

Support & Maintenance
- Tool training and assistance
- Assembly validation
- Maintenance and calibration
- Tool and software upgrades
GLOBAL FOOTPRINT AND LONG-TERM COMMITMENT

With 14 manufacturing facilities worldwide producing more than 2 billion connections per year in over 30 countries, Oetiker is the trusted, global, long-term partner of the world’s leading OEMs.

COOLING & HEATING CONNECTIONS

Quick Connector 201 & 210

201 Coated steel
210 Aluminum

Tube size range: 8.0 – 25.4 mm

One piece machined body is lightweight and ideal for compact spaces. Controlled axial clearance prevents micro leakage. Minimum pressure drop ensures optimum flow.

Quick Connector Customization

Quick connectors can be customized in a variety of ways. Additional accessories also available.

Customization:
- Material
- Coatings
- Seals
- Valves
- Application interfaces

Accessories:
- Assurance Caps
- Shipping Plugs
- Disconnect Tools

Multi Crimp Ring 150 & 250

Stainless steel

5.0 – 120.5 mm

Full material cross-section over 360° for constant pressure applied uniformly around the circumference offers leak-free sealing with low assembled height.

StepLess® Ear Clamp 193

193 Stainless steel

6.5 – 120.5 mm*

Provides a 360° leak-free seal. Lightweight, strong, tamper-proof design. Offers high radial loads and compensates for component tolerances.

*6.5 – 18.0 mm sizes available in the StepLess® Ear Clamp 167 design.

StepLess® Screw Clamp 178

Stainless steel

18.0 – 255.0 mm

Can be adjusted to several diameters and features a 360° leak-proof seal. Also available in Self-Tensioning. Reusable.

StepLess® Low Profile Clamp 192

Stainless steel

19.5 – 120.5 mm

Low profile design includes tolerance compensation elements to allow for variations in component tolerances. Includes 360° leak-proof seal.

Please visit www.oetiker.com for complete product information.
### PEACE OF MIND FROM RELIABLE CONNECTIONS

Assembly tool and maintenance support are managed through dedicated in-house service teams, ensuring cooling & heating connections are installed properly every time during production.

### ASSEMBLY TOOLS

<table>
<thead>
<tr>
<th><strong>Swaging Tools</strong></th>
<th><strong>Pneumatic Pincers</strong></th>
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<tbody>
<tr>
<td>For high-volume installation of Multi Crimp Rings.</td>
<td>For high-volume assembly of Ear Clamps and Low Profile Clamps.</td>
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<tr>
<td>Available interlocking swaging segments guarantee uninterrupted 360° compression</td>
<td>Highly efficient</td>
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<td>Fully reliable assembly process</td>
<td>Process reliable</td>
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<tr>
<td>Electronic process data tracking capability</td>
<td>Closure verification</td>
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<td></td>
<td>Ergonomic pistol grip (optional)</td>
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<tr>
<th><strong>Cordless Pincers</strong></th>
<th><strong>Hand Installation Tools</strong></th>
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<tbody>
<tr>
<td>Flexible cordless design</td>
<td>Quick and easy installation</td>
</tr>
<tr>
<td>Process reliable</td>
<td>Exponential gain of mechanical advantage</td>
</tr>
<tr>
<td>Closure verification</td>
<td>Secure grip and comfort</td>
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<tr>
<td>Ergonomic design</td>
<td>Reduced fatigue and risk of repetitive injury</td>
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Please consult an Oetiker representative or visit www.oetiker.com for a complete range of assembly tool options.
Oetiker helps customers drive innovation through all phases of development by utilizing our 360° solution approach. Pioneering reliable fastening components for over 75 years, we design, test and deliver high quality connecting and assembly solutions that are simpler, smarter and stronger than ever before.