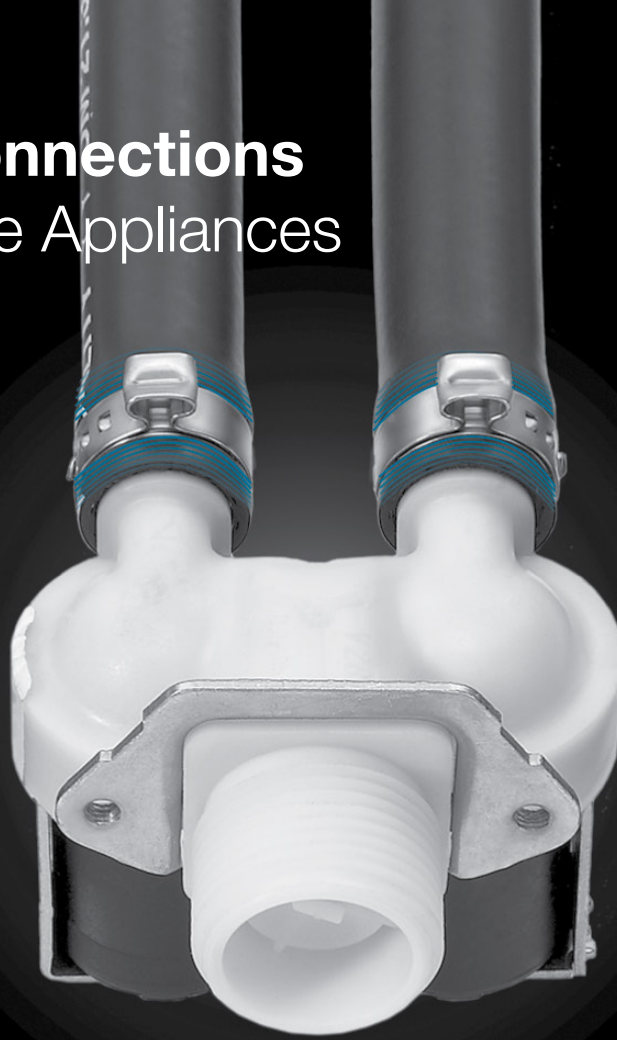


# Reliable Connections for Home Appliances



Coffee Machine  
Washing Machine  
Dishwasher  
Steam Equipment  
Refrigerator



Reliable Connections

## Home Appliances

Home Appliances require reliable, high quality and leak-proof hose connections. Oetiker provides customers with the peace of mind that their connecting components are easy to install while ensuring consistent performance.

As a global leader in high-value connecting solutions for industrial segments, our expertise in high quality clamps, rings and assembly tools support customers in a variety of appliance systems, such as coffee machine, washing machine and steam equipment applications. We are the trusted, long-term partner for industrial companies worldwide.

## 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 13 manufacturing facilities worldwide and a local presence in over 30 countries, producing more than 2 billion connections per year, more than 60 million connections are created to serve appliance applications. Oetiker is the trusted, global, long-term partner of the world's leading Industrial Application companies.



## HOME APPLIANCE CONNECTIONS



### StepLess® Ear Clamps 123 & 193

123 high strength steel  
193 stainless steel

10.5 – 120.5 mm

**360° StepLess®:** uniform compression and surface pressure

**Closed interlock:** high radial loads, smooth outer contour

**Security hook:** prevents unintended opening during transport



### StepLess® Ear Clamps 117 & 167

117 zinc plated  
167 stainless steel

6.5 – 120.5 mm

**Narrow band:** concentrates transmission of clamping force, less weight

**360° StepLess®:** high radial loads, smooth outer contour



### Worm Drive Clamps 126 & 177

126 plated and stainless steel  
177 stainless steel

8.0 – 390.0 mm (DIN3017 standard)  
10.0 – 178.0 mm (SAE TYPE "F")

**Durable:** enhanced surface pressure thanks to curled, blurr-free edges (optimized band exceeds DIN 3017 standard)

**Conforms to SAE J1508 Type "F":** perforated band, large clamping range



### 1-Ear Clamps with Mechanical Interlock 105 & 155

105 zinc plated  
155 stainless steel

10.5 – 116.0 mm

**Clamp ear:** fast and simple installation

**Visible deformation:** provides evidence for proper closure



### Multi Crimp Rings 150

150 stainless steel (spirally welded)  
150 aluminum (puzzle lock design)

5.0 – 50.0 mm  
24.5 – 120.0 mm

**Full material cross-section over 360°:** constant pressure applied uniformly around the circumference

**Nominal diameter up to 120 mm:** suitable for universal applications, in particular for thermoplastic components

**Low installed height:** minimum space requirement, no imbalance on rotating parts

Please [contact](#) an Oetiker representative for a complete range of product options.



# PEACE OF MIND FROM RELIABLE CONNECTIONS

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



## ASSEMBLY TOOLS



### Hand Installation Pincers (HIP)

#### Key advantages of Compound Action Pincers

- Easier to close
- Requires less hand force
- Top sealing performance



### Electronically Controlled Pneumatic Pincers

- Oetiker ELK
- Oetiker HO EL/ELT
- Oetiker HO ME - pistol grip optional

Process reliability, electronic monitoring of all specified parameters - 100% documentation

Force or stroke-priority action, either with or without - initial holding feature

Single, sequential or controlled operation

Complete integration into automated systems

Efficient, verified assembly



### Cordless Pincers and Cordless Crimpers

- For Ear Clamps**  
Oetiker Cordless Pincer CP 10

- For Multi Crimp Rings**  
Oetiker Cordless Crimper CC 20
- Efficient, uniform and repeatable assembly
- Lightweight and ergonomic design



### Accessories | Cutters

#### Hand Clamp Cutters

Specially designed to remove Oetiker Ear Clamps up to 7.0 mm wide x 0.6 mm band thickness to 9.0 mm wide x 0.8 mm band thickness "No-Crimp™" Jaws, for cutting only Protective hand grip The easiest and safest method of ear clamp removal

#### Pro Spec Hand Tube Cutter

- Replaceable V-Shaped Blade for straight cuts
- Blade safely stores in jaws when locked
- Ergonomic curved handles
- Thumb actuated blade & handle lock



### Test Equipment

- High accuracy – especially suitable for mechanical tools
- Ensures uniform, reproducible process quality
- Adjust and verify the applied closing force

Please [contact](#) an Oetiker representative for a complete range of product options.

# 360° solution approach

## Drives innovation

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.

