

# Technical Data Sheet

## Stepless® Ear Clamps with Cup-Lock

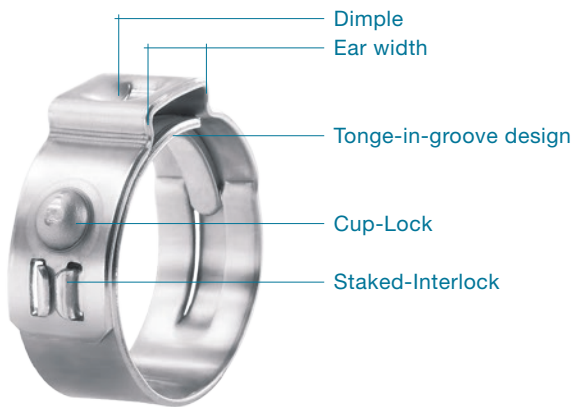
### Product Group 193

---



Connecting Technology

## Stepless® Ear Clamps with Cup-Lock Product Group 193



Cup-Lock: Efficient lock solution for small clamp diameters

### Material

PG 193 [Stainless steel, material no. 1.4301/UNS S30400](#)

### Corrosion resistance according to DIN EN ISO 9227

PG 193  $\geq 1000$  h

### Standard Series

Size range	width x thickness	ear width
19.0 – 31.0 mm	10.0 x 0.8 mm	8 mm

### Sizes

Diameter graduation 0.5 mm

Some sizes are only available if an appropriate minimum quantity is ordered. Customer specific sizes available on request.

### Cup and staked interlock

The two locks hold the clamp geometry together securely. As the cup lock absorbs the closing force with its full material cross section, these clamps are able to achieve even higher radial forces.

### Order information

For detailed order information, please contact your local Oetiker branch.

### Installation data

Material dimensions (mm)	Size (mm)	Closing force max. (N)	Installation tools force-monitored <sup>1</sup> :			
			Manual	Pneumatic	Cordless	Electronically controlled
10 x 0.8	19.0 – 31.0	6600	Clamping tool and Torque wrench	HO ME 7000	CP 02	HO EL 7000

For an alternative option, see our manual pincers on page 94

<sup>1</sup> Further information on page 74

### Important note

These figures are intended as a guide, they may vary depending on the type and tolerances of parts being clamped. To ensure optimum clamp selection, we recommend making functional tests with several assemblies.

# The Oetiker Group: [www.oetiker.com](http://www.oetiker.com)

## Headquarters Switzerland

Hans Oetiker AG  
Maschinen- und Apparatefabrik  
Oberdorfstrasse 21  
CH-8810 Horgen (Zürich)  
T +41 44 728 55 55  
[info@ch.oetiker.com](mailto:info@ch.oetiker.com)

## Austria

Hans Oetiker  
Maschinen- und Apparatebau  
Ges.m.b.H.  
Eduard-Klinger-Strasse 19  
A-3423 St. Andrä-Wördern  
T +43 2242 33 994-0  
[info@at.oetiker.com](mailto:info@at.oetiker.com)

## Brazil

Oetiker do Brasil Imp. e Com. Ltda.  
Av. Hugo Fumagali, nr. 586 - Sala B  
07220-080 Cid. Industrial Satélite  
Guarulhos (SP)  
T +55 11 2303 7486  
[info@br.oetiker.com](mailto:info@br.oetiker.com)

## Canada

Oetiker Limited  
203 Dufferin Street South  
P. O. Box 5500  
Alliston, Ontario L9R 1W7  
T +1 705 435 4394  
[info@ca.oetiker.com](mailto:info@ca.oetiker.com)

## P. R. China

Oetiker Industries (Tianjin) Ltd.  
10 Shuangchenzhong Road  
Beichen High Tech Industrial Park  
Tianjin 300400  
T +86 22 2697 1183  
[info@cn.oetiker.com](mailto:info@cn.oetiker.com)

## Czech Republic

Hans Oetiker spol. s r. o.  
Videňská 116  
CZ-37833 Nová Bystrice  
T +420 384 386513  
[info@cz.oetiker.com](mailto:info@cz.oetiker.com)

## France

Oetiker Sarl  
Parc d'activités du Bel Air  
1, rue Charles Cordier  
77164 Ferrières-en-Brie  
T +33 1 79 74 10 90  
[info@fr.oetiker.com](mailto:info@fr.oetiker.com)

## Germany

Hans Oetiker  
Metallwaren- & Apparatefabrik GmbH  
Üsenbergerstrasse 13  
D-79346 Edingen a. K.  
T +49 76 42 6 84-0  
[info@de.oetiker.com](mailto:info@de.oetiker.com)

## Kurt Allert GmbH & Co. KG

Postfach 1160  
Austrasse 36  
D-78727 Oberndorf a. N.  
T +49 74 23 87 70-0  
[info@allert.oetiker.com](mailto:info@allert.oetiker.com)

## Hong Kong

Oetiker Far East Limited  
2210 Tuen Mun Central Square  
22 Hoi Wing Road  
Tuen Mun NT  
T +852 2459 8211  
[info@hk.oetiker.com](mailto:info@hk.oetiker.com)

## Hungary

Oetiker Hungaria KFT  
Vasvári P. U. 11  
H-9800 Vasvár  
T +36 94 370 630  
[info@hu.oetiker.com](mailto:info@hu.oetiker.com)

## India

Oetiker India Private Ltd.  
N-14, Additional Patalganga  
Industrial Area  
Village Chavane, Khalapur  
Rasayani 410 220  
Dist. Raigad, Maharastra  
T +91 2192 250107-12  
[info@in.oetiker.com](mailto:info@in.oetiker.com)

## Japan

Oetiker Japan Co. Ltd.  
Kaneko Bldg. A  
5-3-5 Nakamachi-dai, Tsuzuki-ku  
Yokohama 224-0041, Kanagawa  
T +81 45 949 3151  
[info@jp.oetiker.com](mailto:info@jp.oetiker.com)

## Mexico

Oetiker Servicios S de RL de CV  
Ave. José María Pino Suárez 853 Nte.  
Col. Centro, CP 64000  
Monterrey, Nuevo León  
T +52 81 8390 0237  
[info@mx.oetiker.com](mailto:info@mx.oetiker.com)

## Netherlands

Oetiker Benelux B. V.  
Hertzstraat 38  
NL-6716 BT Ede  
T +31 318 63 71 71  
[info@nl.oetiker.com](mailto:info@nl.oetiker.com)

## Spain

Oetiker España, S. A.  
Pol. Ind. Las Salinas  
C/Puente, 18  
E-11500 El Puerto  
de Santa María (Cádiz)  
T +34 956 86 04 40  
[info@es.oetiker.com](mailto:info@es.oetiker.com)

## South Korea

Oetiker Far East Limited  
Korea Liaison Office  
Postal Zip Code 135-880  
1401 LG Twintel 1-Cha 157-8  
Samseong 1-dong  
Gangnam-gu, Seoul  
T +82 2 2191 6100  
[info@kr.oetiker.com](mailto:info@kr.oetiker.com)

## United Kingdom

Oetiker UK Limited  
Foundry Close  
GB-Horsham, Sussex RH13 5TX  
T +44 1403 26 04 78  
[info@uk.oetiker.com](mailto:info@uk.oetiker.com)

## USA

Oetiker, Inc.  
6317 Euclid Street  
Marlette, Michigan 48453-0217  
T +1 989 635 3621  
800 959 0398 (toll-free)  
[info@us.oetiker.com](mailto:info@us.oetiker.com)

[www.oetiker.com](http://www.oetiker.com)

