

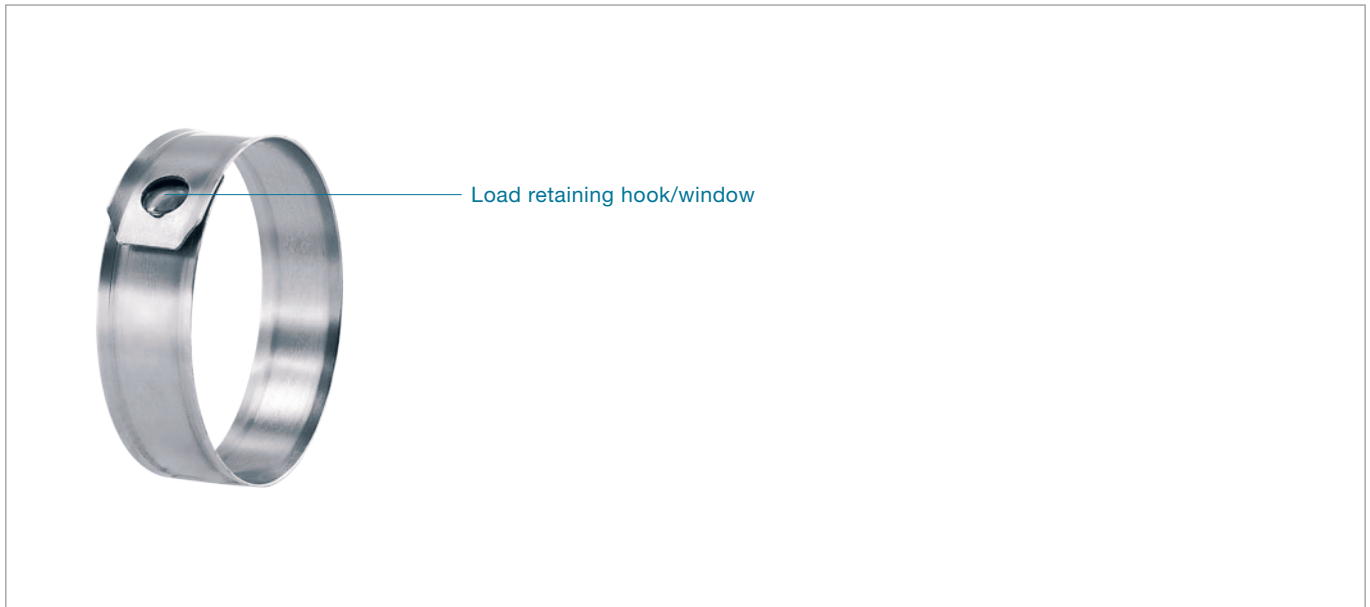
Technical Data Sheet

Clamps ER

Product Group 194



Connecting Technology



Compact: **lightweight, miniature sizes**

Low installed height: **minimum space requirement**

Solid closure: **fast and simple installation, safe connection for low pressure applications**

Burr-free strip edges: **reduced risk of damage to parts being clamped**

Clamps ER Product Group 194

Material

PG 194 **Stainless Steel, Material no. 1.4310/UNS S30100**

Corrosion resistance according to DIN EN ISO 9227

PG 194 **≥ 800 h**

Series

Size range	width x thickness
4.8 – ca. 25 mm	6.5 x 0.25 mm

Some sizes are only available if an appropriate minimum quantity is ordered.

Oetiker ER Clamps are made from a single, standard strip dimension. The clamp diameter must be determined very accurately to ensure correct operation in service – the required radial force, the nature of the hose and the necessary sealing and retaining properties are all extremely important.

Particular attention must be paid to the compressibility and wall-thickness of the material being joined. For assistance, please contact Oetiker.

Load retaining hook

Closure is achieved when the load retaining hook engages in the load retaining window. Both hook and window have been specially developed for this type of clamp. The reduction in diameter of the Clamp ER is proportional to the closing travel, which is approx. 4 mm. The maximum diameter reduction is thus given by the following formula:

$$\text{Max. diameter reduction} = \frac{\text{closing travel}}{\pi}$$

The very thin material, from which these clamps are made, only 0.25 mm, means that after installation there is only a very small step where the two ends of the clamp overlap. The effect of this is that the ER Clamps exert almost uniform compression, or surface pressure, on clamped parts.

The result is effective clamping of compressible materials for all manner of applications. The sealing characteristics of Clamps ER depend on the resilience provided by the compressed elastic material of the parts joined.

Assembly Recommendations

Clamps ER can be closed using a specially-developed manual pincer, or, for large quantities, using a pneumatic pincer. To install a clamp, the diameter is reduced by jaws, which completely surround it, until the load retaining hook engages in the load retaining window in the overlapping end. No specific orientation within the tool is required prior to closure.

Note on ordering

Oetiker Clamps ER are identified with the nominal closed diameter, e.g. 6 for a closed diameter of 6 mm.

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

The Oetiker Group: www.oetiker.com

Headquarters Switzerland

Hans Oetiker AG
Maschinen- und Apparatefabrik
Oberdorfstrasse 21
CH-8810 Horgen (Zürich)
T +41 44 728 55 55
F +41 44 728 55 15
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
F +43 2242 33 997
info@at.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

P. R. China

Oetiker Industries (Tianjin) Ltd.
10 Shuangchenzhong Road
Beichen High Tech Industrial Park
Tianjin 300400
T +86 22 2697 1183
F +86 22 2697 1380
info@cn.oetiker.com

Czech Republic

Hans Oetiker spol. s r. o.
Václavská 116
CZ-37833 Nová Bystřice
T +420 384 386513
F +420 384 386386
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
F +33 1 79 74 10 91
info@fr.oetiker.com

Germany

Hans Oetiker
Metallwaren- & Apparatefabrik GmbH
Üsenbergerstrasse 13
D-79346 Edingen a. K.
T +49 76 42 6 84-0
F +49 76 42 6 84-125
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
F +49 7 4 23 87 70-87
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
F +852 2459 8322
info@hk.oetiker.com

Hungary

Oetiker Hungaria KFT
Vasvári P. U. 11
H-9800 Vasvár
T +36 94 370 630
F +36 94 370 533
info@hu.oetiker.com

India

Oetiker India Private Ltd.
N-14, Additional Patalganga
Industrial Area
Village Chavane, Khalapur
Rasayani 410 220
Dist. Raigad, Maharashtra
T +91 2192 250107-12
F +91 2192 250105
info@in.oetiker.com

Japan

Oetiker Japan Co. Ltd.
Kaneko Bldg. A
5-3-5 Nakamachi-dai, Tsuzuki-ku
Yokohama 224-0041
T +81 45 949 3151
F +81 45 949 3152
info@jp.oetiker.com

Netherlands

Oetiker Benelux B. V.
Hertzstraat 38
NL-6716 BT Ede
T +31 318 63 71 71
F +31 318 63 34 89
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
F +34 956 87 17 07
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
F +82 2 2191 6109
info@kr.oetiker.com

United Kingdom

Oetiker UK Limited
Foundry Close
GB-Horsham, Sussex RH13 5TX
T +44 1403 26 04 78
F +44 1403 24 06 90
info@uk.oetiker.com

USA

Oetiker, Inc.
6317 Euclid Street
Marlette, Michigan 48453-0217
T +1 989 635 3621
800 959 0398 (toll-free)
F +1 989 635 2157
info@us.oetiker.com