

# Technical Data Sheet

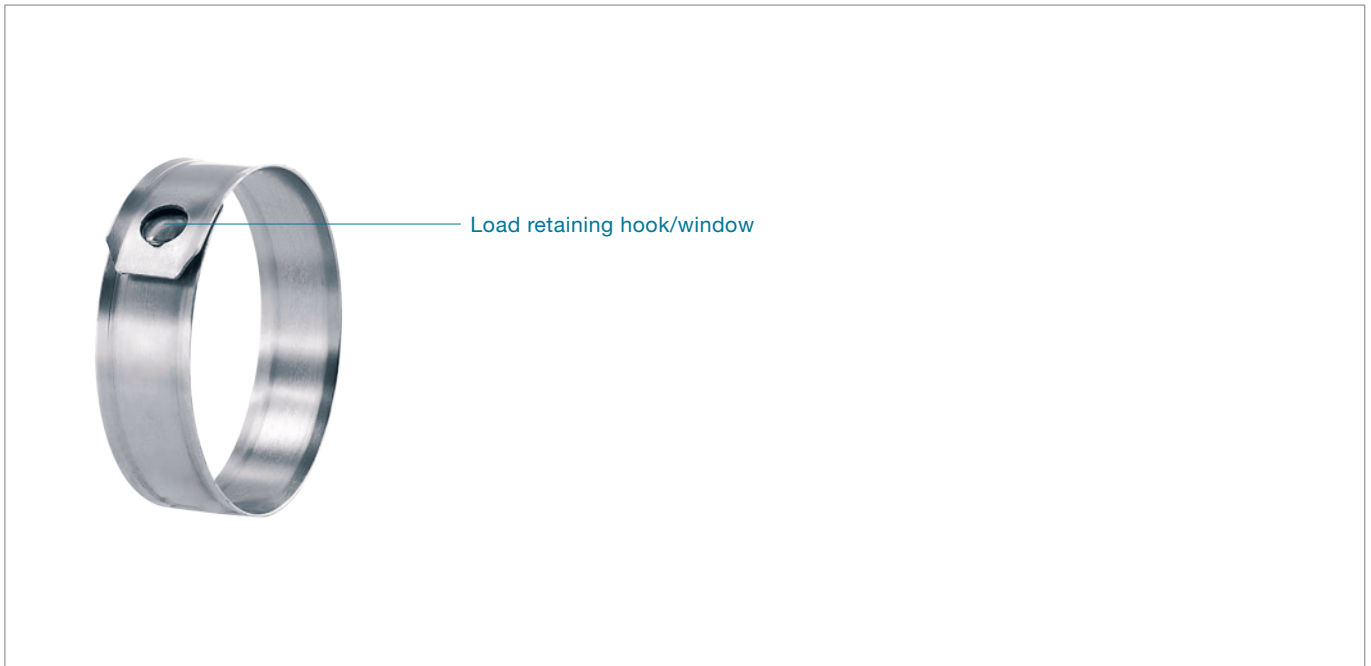
## Clamps ER

### Product Group 194

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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.

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