

Multi Crimp Rings

250



Reliable Connections

Recommended for Thermal Management and Driveshaft applications

Benefits

- Ultimate space-saving
- Efficiently and reliably installed
- Optimum stepless sealing, no leakage
- Highly pressure and expansion resistant



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

Flexible diameter reduction: high, adjustable surface pressure, very easy to install

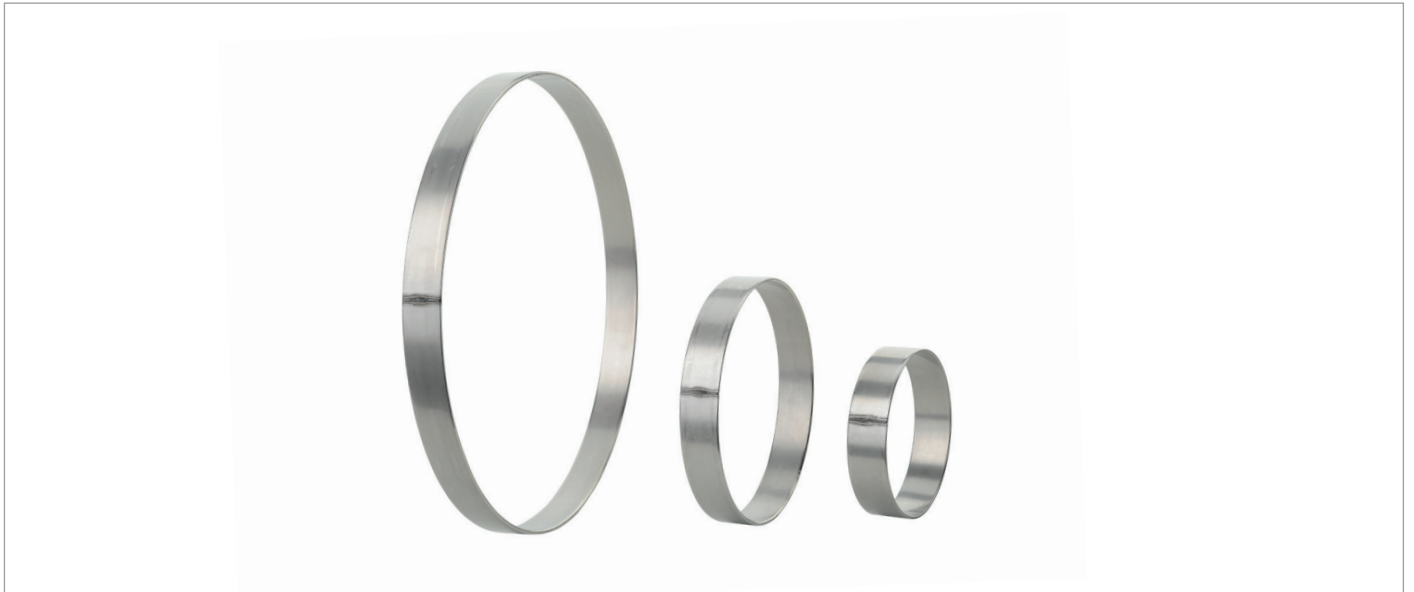
Low assembled height: minimum space requirement, no imbalance on rotating parts

Specially formed strip edges: reduced risk of damage to parts being clamped



StepLess®

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Multi Crimp Rings 250

TECHNICAL DATA OVERVIEW

Material

Stainless steel, material no. 1.4307/UNS S30403

Size range

ø 15.0 – ø 120.5 mm

Band with	Band thickness (mm)	Diameter range* (mm)
7.0	0.8	15-40
7.0	1.0	19-80
8.0	0.8	15-50
8.0	1.0	19-80
10.0	0.8	15-40
10.0	1.0	20-60
10.0	1.2	45-120.5
14.0	1.2	45-120.5

Diameter reduction**

ø 15.0 – ø 19.5 mm: application-specific

ø 20.0 – ø 29.5 mm: max. 20 % of nominal diameter

ø 30.0 – ø 120.5 mm: max. 6 mm

* Further dimensions upon request.

** The diameter reduction is dependent on the nominal diameter of the MCR and the swaging tool used.

TECHNICAL DATA OVERVIEW

Technology

Multi Crimp Rings 250 are featured by the cross welding technology which is an innovative welding technology, that combines flexible production of various sizes, including large diameters, with a highly robust welding seam connection of the stainless steel band ends.

Field of application

The Multi Crimp Rings 250 are universally applicable due to their large diameter range. They are especially suitable for cooling and heating systems, for Air Intake Systems and further applications which require strong and low profile sealing.

Material dimensions

Oetiker Multi Crimp Rings 250 are available in various band dimensions. To ensure the required sealing and/or retention performance the band dimensions and compression rate needs to be chosen properly. The nature of the hose or boot as well as the environmental conditions like mechanical or thermal stress need to be taken into account to guarantee a reliable connection. Oetiker Engineering offers consulting and testing service to find the best solution for your application.

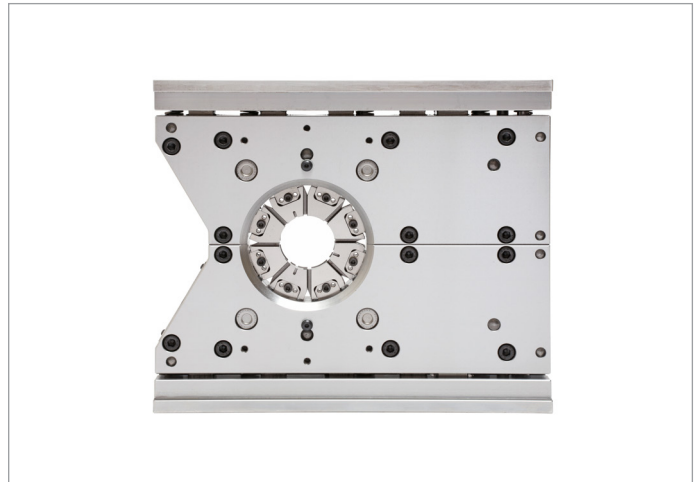
Diameter reduction

The maximum possible diameter reduction is dependent on the nominal diameter and band-thickness of the Multi Crimp Rings 250 as well as on the swaging tool used. The nominal diameter of the Multi Crimp Rings 250 should be kept as close as possible to the diameter of the parts being clamped in order to shorten shrinking times, simplify positioning, and reduce the material load on the MCR. Oetiker Engineering offers support to select the correct diameter for your individual application.

The swaging of a Multi Crimp Ring 250 is achieved by reducing the diameter due to compression of the circumference which results in a deformation of the initial band dimension.

Recommendations for installing MCRs

Oetiker recommends using the Compact XL for crimping the Multi Crimp Rings 250. It offers a retractable mechanism for convenient placing of the application which is automatically locked before swaging, as well as force prior closing with electronic verification of process parameters.



Depending on the capabilities of a 3rd party press used together with the Compact XL, rings can be crimped stroke prior or force prior. In case of force prior closing a constant compression rate can be achieved independently of material tolerances resulting in consistent reliable connecting solution and finally perfect application performance. Oetiker Service offers training and maintenance for its assembly solutions.