Reliable Connections

Multi Crimp Rings
250

StepLess®

Product description

The Multi Crimp Rings 250 are highly robust and engineered to deliver a uniform and reliable 360° seal. Their compact design enables efficient installation in tight and constrained environments. Flexible production across a wide range of sizes allows seamless adaptation to diverse application requirements. The durable MCR 250 ensures consistent performance under demanding conditions, providing tamper-proof connections with long-term sealing reliability.

Intended use

Multi Crimp Rings 250 are designed for high performing connections with a minimal installation height, making them ideal for thermal management, driveshaft and other demanding applications.

Features MCR 250 RX and ALX

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

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

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

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

5 Permanent connection:
ensures tamper-proof sealing

Specific features MCR 250 ALX

Cost-efficient and lightweight:
aluminum material reduces costs and creates connections of minimum weight

Long-lasting, high-quality visual appearance:
through high corrosion resistance

Operational safety in tough environments:
through high resistance to stress corrosion cracking

Technical data

Material/Material features

MCR 250 RX: stainless steel, material no. 1.4307/ UNS S30403
MCR 250 ALX: aluminum, material no. 5754 (AlMg3)

Size range

MCR 250 RX: ø 15.0 – ø 120.5 mm

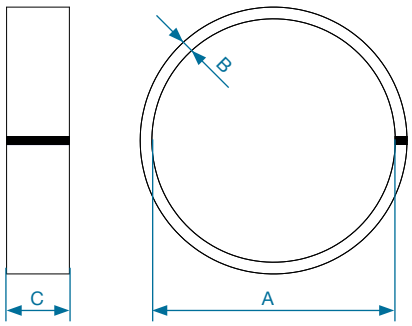
Band width (mm)	Band thickness (mm)	Diameter range (mm)*
7.0	0.8	15-40
7.0	1.0	19-80
8.0	0.8	15-50
8.0	1.0	19-80
10.0	0.8	15-120.5
10.0	1.0	20-120.5
10.0	1.2	45-120.5
14.0	1.2	45-120.5

MCR 250 ALX: ø 15.0 – ø 120.5 mm

Band width (mm)	Band thickness (mm)	Diameter range (mm)*
8.0	1.5	15-60
10.0	1.0	15-120.5
10.0	1.2	15-120.5
10.0	1.5	15-60

* further dimensions upon request

Technical drawing



A = nominal (open) diameter in mm
B = thickness in mm
C = width in mm

Diameter reduction (Eight-Jaw Swaging) – MCR 250 RX*

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. 6.0 mm

Diameter reduction (Eight-Jaw Swaging) – MCR 250 ALX*

Band thickness 1.0 mm

ø 15.0 – ø 27.5 mm	max. 20% of nominal diameter
ø 28.0 – ø 120.5 mm	max. 5.5 mm

Band thickness 1.2 mm

ø 15.0 – ø 30.0 mm	max. 20% of nominal diameter
ø 30.5 – ø 120.5 mm	max. 6.0 mm

Band thickness 1.5 mm

ø 15.0 – ø 30.0 mm	max. 20% of nominal diameter
ø 30.5 – ø 120.5 mm	max. 6.0 mm

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

Assembly

The Multi Crimp Rings nominal diameter should be kept as small as possible in relation to the diameter of the parts being clamped to optimize the crimping result.

Oetiker supports defining MCR size and closing parameters to meet the required specifications.

Assembly solutions

Swaging tools

Oetiker Multi Crimp Rings should be closed using the swaging tools developed for them.
Depending on the use case, we recommend:

- OptiSwage® Eight-Jaw Platform – Oetiker Compact & Compact XL
- OptiSwage® Two-Jaw Platform
- OptiSwage® Cordless Crimp Pincer – Oetiker CC20
- OptiSwage® Hand Installation Pincers for Multi Crimp Rings

Fitting jaws available depending on specific needs.

Contact an Oetiker sales representative for detailed information.

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