

Perforated band: universally applicable for various diameters and widths

Ratchet lock: assembly and removal without tools

Screw lock: simple assembly, high holding force

Various supply options: kit format, bulk or to customer specification

Universal Clamp 174

Material

174 All parts are stainless steel, Material no. 1.4301/ UNS S30400

Optional alternative materials

Series

Size range	width x thickness
≥ 35.0 mm	10.0 x 0.5 mm
≥ 80.0 mm	18.0 x 0.8 mm*
≥ 150.0 mm	30.0 x 0.7 mm**

* For use with 18 mm screw lock

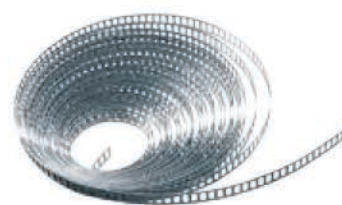
** For use with 30 mm screw lock



Screw lock 18 mm



Ratchet lock



Perforated steel band

Clamp Design

Concept

Individual closure mechanism (screw or ratchet lock) combined with perforated steel band – clamps can be round or have an irregular form. Available as kits, in bulk or to customer's specification. Special versions are available with integral tolerance compensation and non-perforated band.

Universal clamps are available in standard widths and thicknesses. The band dimensions should be chosen to give the necessary radial force (clamping force) to ensure the required retention properties under the anticipated ambient conditions.

Assembly Recommendations

For assembly of the Screw Lock, we recommend to use a suitable flat blade screwdriver, or a socket wrench.

Static tightening torque

Screw lock for band width 10 mm: max. 3 Nm
 Screw lock for band width 18 mm: max. 10 Nm
 Screw lock for band width 30 mm: max. 20 Nm

Assembly instructions

Screw lock type



Determine the clamp length, e.g. wrap around object to be clamped and add approx. 50 mm.



Cut off band to required length. To avoid possible injury remove sharp edges with a file and trim corners at an angle.



Insert approximately 30 mm of band material through the top of the retaining slot and fold backwards underneath the remaining strip.



Position clamp over object. Insert free end of the band over the hooks and under the screw, protruding past the body of the screw lock. Engage the hooks in the perforations at the tightest possible position.



Tighten the clamp with a screwdriver or hexagon wrench.

Ratchet lock type



Determine the clamp length, e.g. wrap around object to be clamped and add approx. 50 mm.



Cut off band to required length. To avoid possible injury remove sharp edges with a file and trim corners at an angle.



Insert approximately 30 mm of band material through the top of the retaining slot and fold backwards underneath the remaining strip.



Place lever in open position, pre-form the end of the band to match the curvature of lock. Pass free end under tongue and through slot, so that the end extends beyond the lock body.



Position clamp over object. With minimal force, press free end of band steel down and ratchet the lever back and fourth until tight. Firmly lock the lever down in the final retained position. "Securing dimple" prevents unintentional opening.

Order information

Item No.	Ref. No.	Size range (mm)
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Screw lock

Compatible with band width 10 mm

17400003	540R/10-	40 - 100
17400002	540R/10+	100 - ...

Compatible with band width 18 mm

17400005	540R/18-	80 - 150
17400004	540R/18+	150 - ...

Compatible with band width 30 mm

17400006	540R/30+	150 - ...
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Ratchet lock

Compatible with band width 10 mm

17400063	504R/60-	35 - 60
17400064	504R/60+	60 - ...

Item No.	Ref. No.	Band length (m)
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Perforated steel band

Width 10 mm, material thickness 0.5 mm

17400067	501R/10	10
17400081	501R/20	20

Width 18 mm, material thickness 0.8 mm

17400077	518R/10	10
17400079	518R/20	20

Steel band

Width 30 mm, material thickness 0.7 mm

17400101	530R/10	10
17401421	530R/20	20