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Technical Data Sheet
Screw Clamps and Universal Clamps

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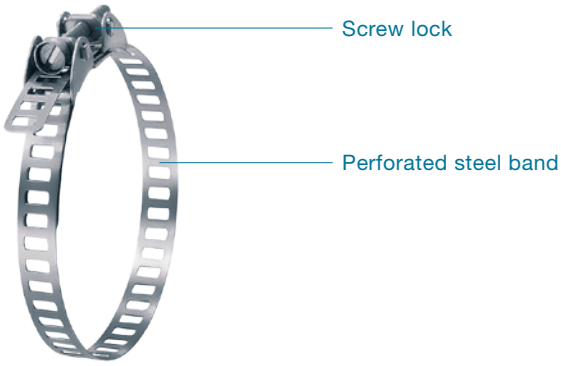


Perforated band: universally applicable for various diameters and widths
Ratchet lock: installation and removal without tools
Screw lock: simple installation, high holding force
Various supply options: kit format, bulk or to customer specification

Universal Clamps
Product Group 174

Material

PG 174 All parts are stainless steel, Material no. 1.4301/
UNS S30400
Optional alternative materials

Series

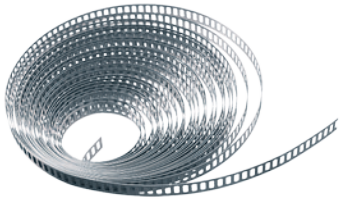
Size range	width x thickness
≥ 35.0 mm	10.0 x 0.5 mm
≥ 80.0 mm	18.0 x 0.8 mm*
≥ 80.0 mm	30.0 x 0.7 mm**

* For use with 18 mm screw lock
** For use with 30 mm screw lock

The data in this catalog are based on many years experience. They are intended for reference, not as design specifications.

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

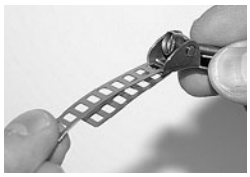
Static tightening torque
Screw lock for band width 10 mm: max. 3 Nm
Screw lock for band width 18 mm: max. 10 Nm
Screw lock for band width 30 mm: max. 20 Nm

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.

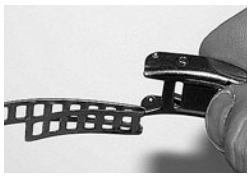
Position clamp over object. Insert free end of the band over the hooks and under the screw, protruding past the body of the screw lock. Engage the hooks in the perforations at the tightest possible position.

Tighten the clamp with a screwdriver or hexagon wrench.

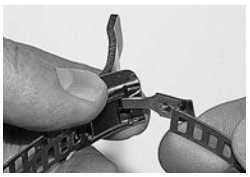
Ratchet lock type

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

Screw lock

Item No.	Ref. No.	Size range (mm)
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+	80 – 150
17400007	540R/30-	150 – ...

Ratchet lock

Item No.	Ref. No.	Size range (mm)
Compatible with band width 10 mm		
17400063	504R/60-	35 – 60
17400064	504R/60+	60 – ...

Perforated steel band

Item No.	Ref. No.	Band length (m)
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

Item No.	Ref. No.	Band length (m)
Width 30 mm, material thickness 0.7 mm		
17400101	530R/10	10
17400102	530R/20	20