

OETIKER Stepless® Screw Clamps

Product Group **178**



Self-tensioning

Features

- 360° Stepless® Design – no steps or gaps on inner circumference
- Specially formed strip edges reduce the risk of damage to the part being clamped
- Reusable
- Multiple diameter settings
- Conforms to SAE J1508 Type SSPC

Self-tensioning

- Self-tensioning spring reacts to thermal cycle diameter changes to maintain a strong, uniform seal
- Conforms to: SAE J1508 Type SSPC, TMC RP332 Type SSPC

Stepless® Screw Clamps

OETIKER Stepless® Screw Clamps are designed for extremely demanding applications where reusability and the assurance of a leak-free seal is not compromised while tightening. This unique design draws the clamp band evenly around the circumference of the hose.

The narrowness of OETIKER constant tension clamps compared to other clamps of this type, together with a low installation torque, combine to produce a strong, uniform seal with the hose.

Already proven to seal medical grade tubing, thin-walled and/or hard synthetic material, etc, this style can also be custom made for individual applications.

Stepless® Screw Clamps Self-Tensioning

OETIKER Stepless® Self-Tensioning Screw Clamps have been developed specifically for motor-vehicle cooling systems (petrol/gasoline and diesel engines), particularly for use in conjunction with EPDM and silicone rubber hoses. They prevent coolant leakage, which may occur when clamped parts cool after the engine has been turned off. The diameters of components such as hoses, hose stems, etc. become smaller, and this is the only type of clamp, which has been designed to compensate for that reduction and prevent leaks.

Material

- 178 Steel strip, sleeve, Retaining segments (D-nuts):
Stainless Steel, Material no. 1.4301 / UNS S30400
- Screw:
Stainless Steel, Material no. 1.4319 / UNS S30200
- Spring:
17-7PH (aerospace quality)

Size range Width x Thickness
18.0 - 255.0 mm 9.0 x 0.6 mm

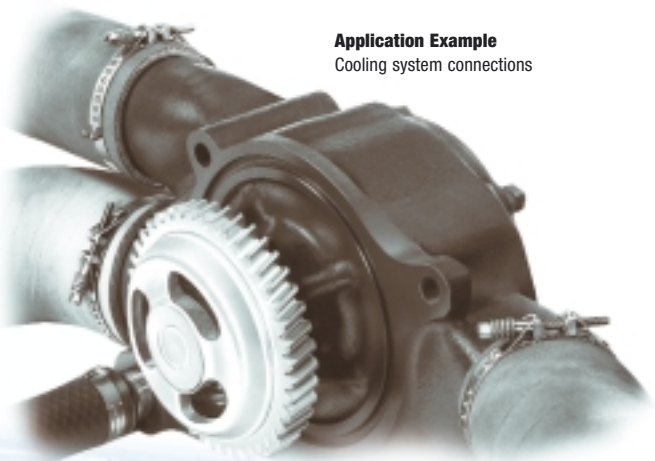
Installation

See Technical Data Sheet.

For detailed information, please request the Technical Data Sheet for this OETIKER product group. Send your sample parts and all relevant information for your specific application to OETIKER, and you will receive our recommendation for product type, diameter, and method of installation.

Application Example

Cooling system connections



The term "Stepless®" refers to the absence of steps or gaps on the inner circumference of the clamp. The ingenious stepless design provides uniform compression and a 360° seal.

Application Example

Numerous applications in the vehicle industry, particularly in conjunction with EPDM and silicone hoses

