

Locking Assurance Cap System

201 & 210 Quick Connectors



Recommended for Engine Oil Cooling, Transmission Oil Cooling, Turbocharger Cooling and Oil Supply and Electric Vehicle Cooling Applications

Benefits

- Instant connection verification
- Ergonomic design

- Maximum durability and retention
- Quick cycle and installation time



PRODUCT DESCRIPTION

The Locking Assurance Cap system serves as a device to provide 100% confidence the tube is fully seated into the quick connector and features a durable secondary latch.

ADVANTAGES

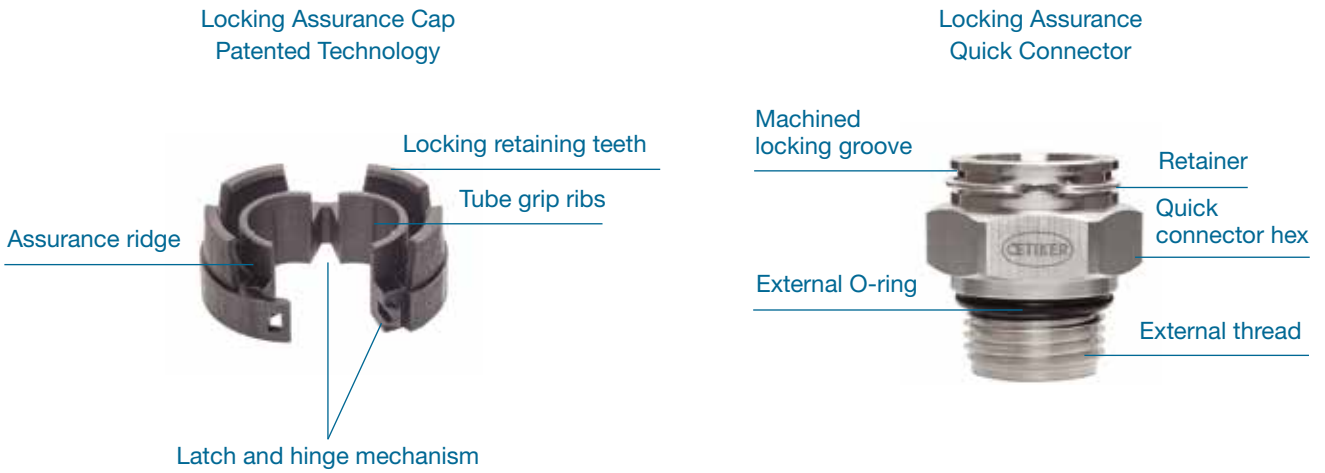
Assembler

- Tactile and audible feedback ensures the connection has been made
- Low installation and insertion force
- Eliminates false positive connections and secondary verification operations
- Black, natural, and gray color options available for identification

Tier

- Installed after tube forming operation
- Durable latch and hinge mechanism
- Reliable and secure
- Easy installation on tube line set
- Tube grip ribs maintain position on tube

FEATURES



Assurance Ridge: Prevents installation to unassembled quick connector and tube interface

Robust Latch and Hinge Mechanism: Easy and reliable installation over tube

Tube Grip Ribs: Locking Assurance Cap remains in place during assembly and delivery

Nylon Polyamide Material: Inherent corrosion and temperature resistance and lightweight material

Machined Locking Groove: Seats and holds retaining teeth for secondary latch mechanism

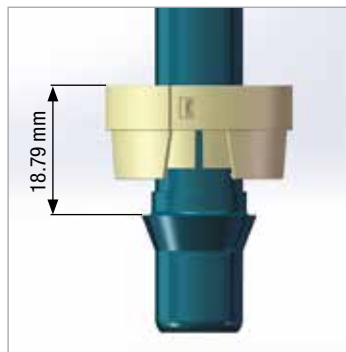
TECHNICAL DATA -
LOCKING ASSURANCE CAP

Overall Locking Assurance Cap dimensions

Line size (in)	Diameter	Height	Installed height with QC
3/8"	22mm	13.31mm	21.28mm
1/2"	27mm	13.54mm	26.19mm

- Locking Assurance Cap is designed to fit imperial sized tubes

Distance needed to install and assemble Locking Assurance Cap



TECHNICAL DATA -
LOCKING ASSURANCE QUICK CONNECTOR

Overall Locking Assurance Cap dimensions

Line size (in)	Hex size	Ext thread size	Overall length	Installed height
3/8"	20.33mm	9/16-18 UNF-2A	24.40mm	9.81mm
1/2"	25.4mm	3/4-16 UNF-2A	28.40mm	14.84mm

- Locking Assurance Quick Connector has the same performance and material options as standard 201 & 210.
- Locking Assurance Quick Connector can also accept standard assurance cap.

ASSEMBLY



1. Place Locking Assurance Cap over the tube near the end form with the Retaining Teeth pointing towards end form.
2. Secure Locking Assurance Cap onto tube by snapping the latch mechanism together. The tube grip ribs will keep the locking assurance cap securely in place. Insert tube fully into Quick Connector using the recommended Oetiker Connector Assembly Instructions (08905017).
3. Install Locking Assurance Cap onto the Quick Connector and the retaining teeth will “snap” into place. Firmly pull back on Locking Assurance Cap. The Locking Assurance Cap will not install onto quick connector unless the tube is fully inserted into the quick connector, thereby assuring the connection has been made.

Note: The Locking Assurance Cap is not reusable. Disassembling Cap results in deforming or breaking of the component.

PERFORMANCE

The Locking Assurance Cap system serves as a device to provide 100% confidence the tube is fully seated into the quick connector and features a durable secondary latch.

Locking Assurance Cap Latch installation force (Step 2)

Size	Force (N)
3/8"	TBD
1/2"	55

Locking Assurance Cap Temperature Resistance

Size	Degrees (C)
3/8"	250
1/2"	250

Locking Assurance Cap installation force onto Quick Connector (Step 3)

Size	Force (N)
3/8"	TBD
1/2"	30

Notes: This data is intended for reference only. Rights to make technical changes are reserved.