Turbocharger Quick Connectors 201 Steel



Recommended for Engine Oil Cooling, Turbocharger Cooling & Oil Supply Applications, Passenger Vehicles, and Light Commercial Vehicles

Benefits

- \cdot Improved flow path
- · Tight packaging space
- · Simple and fast assembly process
- · Zero pressure drop
- · Tool free installation



 ZnNi coated steel: increased corrosion resistance

 High strength material for high tensile and torque forces

 One piece machined body: compact space and lightweight

 Controlled axial clearance: prevents micro leakage

 Minimum pressure drop: ensures optimum flow

 Robust retainer mechanism: low insertion force

 External bonded seal: designed to replace other connections using metallic

 washers in high pressure and temperature applications

 Internal seal: leak prevention at tube interface



FEATURES



Quick Connectors 201

PRODUCT DESCRIPTION

The Turbocharger Quick Connector (QC) is an innovative connection solution that covers the standard range of thread and line sizes used in Turbocharger applications. Their design is optimized for packaging, assembly space, thread, and flow-through size. Streamlined production processes and standardized components make Oetiker's Turbocharger Quick Connectors a reliable and economic solution.

With a proven steel coated body and external seal washer interface, these durable connections meet rigorous application requirements.

CUSTOMIZATION

Product customization available to fit different application interfaces. Including but not limited to:

- · Hose barb geometries
- Valve or membrane seal technology
 Hex and tube sizes
- Thread interfaces
 O-ring compounds
- · Body metal materials



Metal hose barb QC

Membrane seal QC

For more information, contact the local Oetiker representative or visit Oetiker.com.

TECHNICAL DATA OVERVIEW

Material

201	Body: SAE 1215 Carbon Steel
	(UNS G12150, DIN W. Nr. 1.0736), ZnNi Coating
	Retainer: SAE Stainless Steel 302 (UNS S30400)

Bonded seal, metallic washer for connections and high-pressure applications

FKM (-40 $^{\circ}\text{C}$ 205 $^{\circ}\text{C}$), ozone and heat aging resistance	
AEM (-40 $^{\circ}\text{C}$ 180 $^{\circ}\text{C}$), resistance to oil and grease	
EPDM (-60 °C 250 °C), resistance to glycol	



Steel QC with bonded seal

Corrosion resistance according to ISO 9227

ZnNi Coated Steel ≥ 480 hours to red rust



TECHNICAL DATA



Overall connector dimensions

Line size	Ext thread size	HEX size	Installed height	Overall length
8 mm	M12 x 1.5-6g	18 mm	16.0 mm	26.3 mm
8 mm	M14 x 1.5-6g	19 mm	16.0 mm	26.3 mm
3/8"	M16 x 1.5-6g	22 mm	15.3 mm	26.1 mm
1/2"	M18 x 1.5-6g	26 mm	18.2 mm	30.3 mm

Process monitoring

Process monitoring is carried out mechanically and can be verified by firmly pulling back on tube. Further connection verification offerings are available including verification by mechanical, visual, and electronically recordable technology. Visit Oetiker.com to learn more.

ASSEMBLY

To make the connection, align the tube with quick connector while pushing straight into the quick connector. You will hear and feel the connection. Pull firmly back on the tube to ensure a proper connection has been made. Ensure colored identification band on the tube end is hidden within quick connector assembly. Snap the optional Locking Assurance Cap onto the tube and slide up to snap onto the connector.



To disconnect, remove the optional Locking Assurance Cap and place the disconnect tool onto the tube with the fingers facing the connector. Slide the disconnect tool down the tube and engage the retainer. Rotate the disconnect tool 60 degrees to expand the retainer. While holding the disconnect tool against the connector, pull back on the tube to remove.

For further instructions visit Oetiker.com for detailed Quick Connector Assembly/Disassembly Instructions.



OETIKER TUBE END FORM

Oetiker quick connectors are qualified only when mating with tube end forms per the Oetiker specification. This specification is Oetiker controlled, and available upon request.

Oetiker's engineering and quality teams are available to support qualifying tube end form suppliers. Recommended end form tooling and tube suppliers is available.

PERFORMANCE

Operating pressure

The permissible operating pressure is directly dependent on the O-ring selected, the temperature, and the quality of the male component. It must always be determined in relation to the application.

Line size	Tensile	Burst	Corrosion
8 mm	2.6 kN	≥ 11 MPa*	480 hours to red rust
10 mm	4.3 kN	≥ 11 MPa*	480 hours to red rust
12 mm	7.3 kN	≥ 11 MPa*	480 hours to red rust

* Tested to 11MPa without failure

OPTIONAL ACCESSORIES

Shipping plug – polypropylene (default), celcon (for improved cleanliness) Locking Assurance Cap – up to 250 °C (black, white)

High strength retainer – 17-7 electro polished

Disconnect tool (plastic)

(UNS S17700)

Customized QC packaging available on request



Shipping plug, locking assurance cap, disconnect tool