

Quick Connectors

220 Polymeric



Recommended for Electric Vehicle and Engine Block Cooling applications

Benefits

- Inherent corrosion resistance
- Ergonomic design
- Low insertion force
- Lightweight



Polymeric construction: lightweight and corrosion resistant glass filled nylon material

Two piece construction: customizable interface

Designed for maximum performance: 100% production leak tested

Controlled axial clearance: prevents micro leakage

Minimum pressure drop: ensure optimum flow

Robust retainer mechanism: low insertion force

Internal seal: leak prevention at tube interface



Quick Connectors 220

PRODUCT DESCRIPTION

Oetiker Polymeric Quick Connectors (QC) are an innovative connecting solution for pressure lines carrying media. They enable significant savings in assembly time, space required, assembly costs to be made, reduced warranties, and reduced injuries due to repetitive motion. Thanks to tool-free assembly, Oetiker Polymeric QCs are an optimal solution for many applications and are particularly suitable as a connecting element for electric vehicle and engine block coolant lines.

CUSTOMIZATION

Customize product to fit the application interface.

Customize options include:

- Hose barb and thread designs
- Elbow angles
- O-ring materials
- Multiple connection interfaces
- Color options



T-style PG220



90° Elbow PG220

COMPONENT TECHNICAL DATA

Material

220 Body: Glass Filled (GF) Nylon 66

Retainer: SAE Stainless Steel 302 (UNS S30400)

Internal seal options

Silicone (-40°C ... 205°C), ozone and heat aging resistance

EPDM (-40°C ... 180°C), resistance to water and glycol

Corrosion resistance according to ISO 9227

168 hours to no base corrosion

For more information, contact the local Oetiker representative or through our website.

QUICK CONNECTOR TECHNICAL DATA



Overall connector dimensions

Line size	Overall Diameter	Overall Length Straight	Hose Barb Diameter
5/8" (16mm)	27.9mm	57mm	17.43mm
3/4" (19mm)	30mm	59.7mm	20.8mm

ASSEMBLY

To make the connection, align the tube with connector while pushing straight into the connector. You will hear and feel the “click” 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.



To disconnect, snap or 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 to remove.

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 engineering and quality teams are available to support qualifying tube endform suppliers. Recommended endform tooling and tube suppliers is available.

OETIKER TUBE ENDFORM



PERFORMANCE

Operating Pressure

The permissible operating pressure is directly dependent on the operating temperatures, connector component materials, and quality of male end form.

Temperature range

The recommend operating temperature range is from -40°C to 150°C. This can vary depending on the seal materials.

Line size	Tensile	Burst	Corrosion
5/8" (16mm)	670 N	7.7 bar	168 hr to red rust
3/4" (19mm)	670 N	7.7 bar	168 hr to red rust

OPTIONAL ACCESSORIES

- Shipping plug
- Disconnect tool (plastic)
- Customized packaging on request



Shipping plug, disconnect tool and assurance cap