

# Quick Connectors

## 220 Polymeric



Recommended for Electric Vehicle and ICE 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

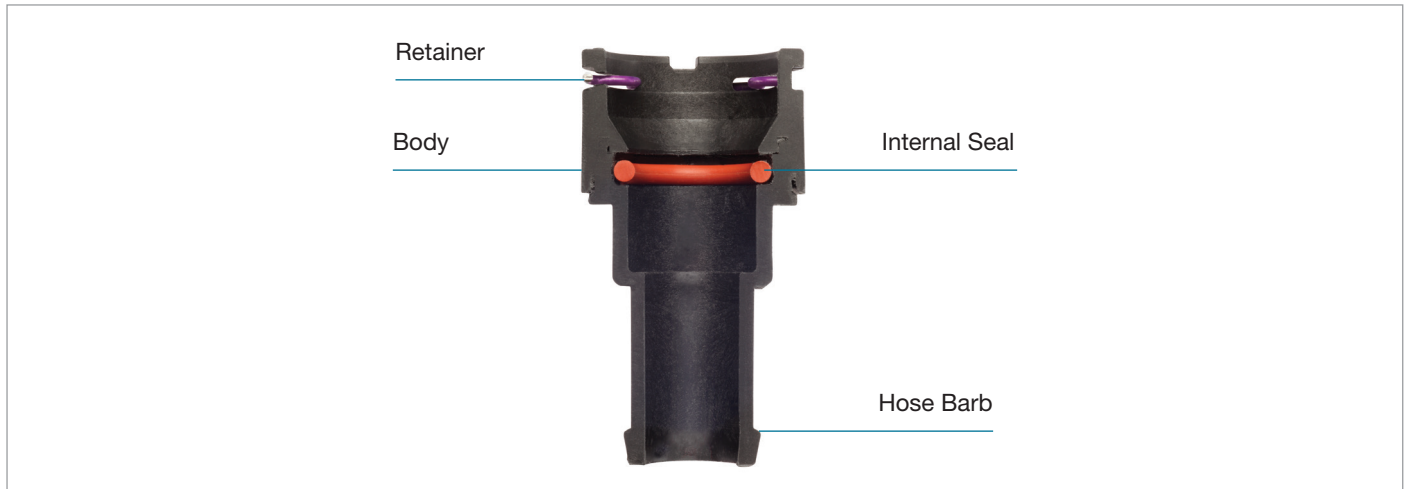
---

**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 -40C to 150C. This can vary depending on the seal materials.

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

OPTIONAL ACCESSORIES

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



Shipping plug, disconnect tool and assurance cap