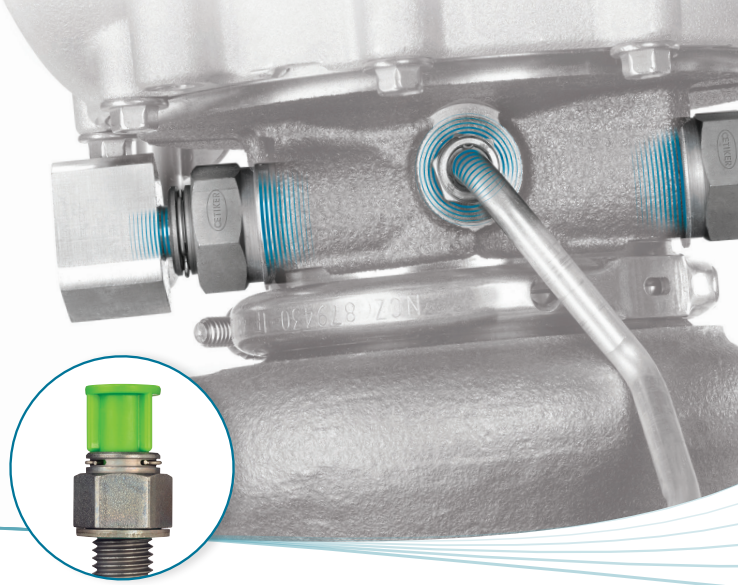
Innovations in Action

Performance. Reliability. Efficiency.

Leading engine and powertrain manufacturer selects Oetiker Steel Quick Connectors to save space and maintain performance in turbocharger applications.



Quick Connector 201 Steel

The Challenge

A global engine manufacturer faced growing challenges with their turbocharger coolant circuit assemblies on both off-road agricultural equipment and on-road commercial vehicles. Their existing banjo bolt connection system was proving to be inefficient in multiple ways. It required tools for installation, consumed valuable space in increasingly compact engine compartments, and resulted in longer assembly times on the production line.

Custom-Engineered Solution

To address these challenges, Oetiker partnered closely with the customer's engineering and launch teams to develop a high-performance Quick Connector. The solution featured a high-temperature-resistant Quick Connector 201 steel body and an HNBR rubber washer, capable of withstanding extreme conditions and compatible with diesel, natural gas, hydrogen, and renewable biofuels. Designed to function within very tight packaging constraints, the connector eliminated the need for tools, torque specifications, and complex assembly steps. The collaboration included on-site training and hands-on design validation, resulting in a fully verified and robust connection system.

Results That Deliver

The introduction of Oetiker Quick Connectors significantly reduced assembly time, improved line efficiency, and enabled more consistent and reliable connections within their constrained turbocharger environment. The shift from banjo bolts not only delivered immediate performance gains but also positioned the customer to extend the solution across future engine platforms, including light commercial vehicles. We continue to collaborate with the Engine Manufacturer on future design enhancements, drawing on our global engineering and production footprint across 31 countries and 13 manufacturing facilities.

Why Choose Oetiker?

Oetiker's 360° approach to connecting solutions integrates connecting, assembly, and global engineering services to deliver a seamless and value-focused customer experience at every stage, from initial concept to a 100% validated connecting solution.

Our global technical customer support team employs their extensive experience across a wide range of industries to understand our customers' specific needs. Application engineers then define the optimal connecting solution and thoroughly test it to meet even the toughest requirements. Once a solution is defined and tested, our global power tools service team provides training and support from setup through to full-scale assembly. Maintenance and upgrade services are also available to keep processes running smoothly.

360° Solution Approach

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