

# CLOSING THE DESIGN GAP



## CHALLENGE

Oetiker Polymer Quick Connects (QC), secured with a StepLess® Ear Clamp 167, were used on the power steering cooling hoses of the Dodge Ram. The parts passed initial lab testing to withstand Yokohama's given pressure specifications. The challenge came during real environment durability testing, when actual truck conditions including extreme vibration and jouncing appeared. This caused the existing design of the quick connect to fail.



## SOLUTION

Oetiker redesigned a more robust and durable part that would survive actual truck conditions. These new Oetiker QCs were lab and field tested to ensure their durability under realistic conditions.



## RESULTS

Oetiker replaced the polymer QC part with a more durable, custom aluminum QC at the same price, while using minimal materials and existing automation. The aluminum QC used the same Oetiker StepLess® Ear Clamp 167 connection, took up less space and fit better than the original polymer QC it replaced.



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