



SUCCESS STORY

Fire Department Eliminates Critical Air Leaks in Emergency Vehicles

Alkon's XQ-DOT fittings solve high-heat failures and restores reliability to high-use emergency vehicles.

A major east coast metropolitan fire department preferred Alkon's DOT brass fittings for their emergency vehicles but experienced air leaks over time. Relying on their trusted relationship with Alkon, they collaborated to identify the issue, which led to the development of XQ-DOT Fittings designed to withstand extreme temperatures.



CLIENT

Metropolitan Fire Department

LOCATION

Northeast, USA

FEATURED PRODUCT

XQ-DOT Fittings



CHALLENGE

The fire department chose Alkon's brass DOT fittings for the air systems on their emergency vehicles because the fittings outperformed all competitors in durability. However, after about a year of use, they began noticing air leakage, primarily near the engine compartment. The high temperatures in this area exceeded the temperature rating of standard push-to-connect fittings, damaging the elastomers in the fittings and causing leaks. In high-stakes environments, where the reliability of every component can mean the difference between life and death for both first responders and civilians, ensuring dependable performance under extreme conditions was non-negotiable.

SOLUTION

Given Alkon's commitment to quality and its customer first-approach, the fire department decided to continue their partnership and shared their concerns. Recognizing the vital role fittings play in the safe operation of emergency vehicles, Alkon leveraged its expertise and engineering capabilities to develop the XQ-DOT series fittings. These advanced fittings feature Viton blended O-rings and a higher-grade thread sealant, designed to endure extreme temperatures from -40° F to 400° F. The fittings also offer enhanced resistance to corrosion, chemicals, and vibration, ensuring long-lasting, leak-free performance.

RESULT

Due to Alkon's focus on customer satisfaction and reliable engineering, the fire department resolved its issue by replacing all leaking fittings with XQ-DOT fittings and now specifying them for all new purchases. What began as a custom solution has evolved into a complete product line, Alkon's Extreme Fitting line, widely used across various applications, including heavy machinery, agriculture, construction, public transit, and oil and gas.

"The Extreme Fitting embodies Alkon's dedication to listening closely, responding with purpose, and engineering solutions that last. By collaborating with the fire department, we developed a fitting that not only solved their issue but now supports a range of critical applications across industries."

– Mark Radloff, Senior V.P. Sales & Marketing