



Parker Hannifin Corporation
Parker Aerospace
Stratoflex Products Division

August 17, 2023

To: Valued Technical Standards Order Customers of Stratoflex and our Distributor Partners

This letter aims to provide our Technical Standards Order (TSO) product customers and distributors that manufacture TSO products utilizing Stratoflex hose and components with information concerning our qualification and testing processes. This message is being provided in consultation with our Fort Worth Federal Aviation Administration (FAA) Aircraft Certification Office (ACO).

Per FAA TSO documentation, a TSO identifies the minimum performance standard for specified materials, parts, and appliances utilized on civil aircraft. As an FAA Technical Standard Order Authorization (TSO-A) holder for decades, Stratoflex has always taken our FAA approvals very seriously. Our fundamental goal is always the safety and reliability of our products.

Stratoflex manufactures, qualifies, and continually tests its standard, Original Equipment Manufacturers (OEM) designed and FAA TSO-approved hose products to internationally recognized Aerospace Standards developed by the Society of Automotive Engineers (SAE) and administered by Performance Review Institute (PRI). Stratoflex also utilizes SAE Aerospace Standards and Performance Review Institute auditors to qualify a great number of our hose products as well as oversee, rigorously audit, and certify our hose manufacturing and testing processes through the industry recognized Nadcap oversight process. It was our understanding that testing to those standards transcended similar testing requirements put forth by the FAA in relation to TSO hose products.

Upon review, we concluded that the qualification testing, and continual testing performed by Stratoflex did not fully correspond to the FAA TSO requirements, see Table 1. Actions taken by Stratoflex concerning our TSO testing methods have always been driven by our goal to test to the most stringent requirements and eliminate what was believed to be the duplication of supplementary testing.

Hose Product Series	TSO Requirement	Parker Qualification and Substantiation
124	C53a	Qualified to MIL-DTL-25579 REV D & MIL-DTL-27267 REV A, Amendment 3
124K	C75 IIA	Qualified to MIL-DTL-25579 REV D & MIL-DTL-27267 REV A, Amendment 3
130	C53	Qualified to MIL-H-8794 REV A
156	C75 I & IIA	Qualified to MIL-DTL-83796 NR, MIL-DTL-83797 NR, MIL-DTL-83798 NR
170	C53a	Qualified to MIL-H-38360B
171K	C75 IIB	Qualified to AS1339G

Table 1



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To correct this variation, Stratoflex has begun testing our current FAA TSO products specifically to the FAA TSO requirement whenever a major or minor change package is submitted to the FAA for review and acceptance. We will also continue to perform our customary SAE-PRI qualification testing.

Though our testing did not fully correspond to the FAA TSO requirements, we want to assure our customers that all Stratoflex products conform to their approved designs. Our continued testing to FAA TSO, Parker Stratoflex specific, and recurrent SAE Aerospace Standard conformance testing processes demonstrate our products continue to be delivered in a condition that assures their safe operation.

We want to conclude by reiterating that Stratoflex takes our FAA TSO authorizations very seriously, and our fundamental goal is always the safety of our products. We are confident that our continued conformity to Aerospace Standards developed by the Society of Automotive Engineers (SAE) and administered by Performance Review Institute (PRI) and the robustness of our product designs which are delivered to all of the major aircraft, engines and systems manufacturers in aerospace demonstrates the safety and reliability of our product.

Stratoflex recommends that users evaluate their specific installations to determine if the qualification performance is appropriate for their installation environment. Should you have any questions, please get in touch with Stratoflex at the contact information noted below.

Regards,

A handwritten signature in black ink, appearing to read "Anil Raina", written over a horizontal line.

Anil Raina
Director of Engineering
Director of Quality (Acting)
Stratoflex Products Division

A handwritten signature in black ink, appearing to read "Simon Meaney", written over a horizontal line.

Simon Meaney
Business Teams Director
Stratoflex Products Division