



Parker Legris Success Story

October 2016

A manufacturer of car tyres and spoiler systems, chose the LF 3000[®] push-in fittings for a luxury sports car.

Market: Transportation



ENGINEERING YOUR SUCCESS.



The customer chose the LF 3000® push-in fittings for a new active-type front spoiler lip application.

Application

The company has developed, jointly with the luxury sports vehicle manufacturer, a new active-type front spoiler lip for the car. The system works pneumatically, with several air chambers behind the spoiler altering in capacity to give the desired shape.

At low speeds, the spoiler retracts beneath the bumper to ensure maximum ground clearance, allowing the car to pass over speed bumps and other uneven surfaces. At higher speeds, the spoiler extends on the outside to optimize the airflow around the wheels and reduce fuel consumption. In the performance position, the spoiler is fully extended to create extra down force on the front wheels.

To operate the spoiler lip, the customer needed a reliable connection which was extremely compact as space was at a premium.

Solution

The solutions proposed were the LF 3000® push-in fitting and polyurethane tubing. The compact envelope dimensions of the LF 3000® and the flexibility of the Parker Legris polyurethane tubing provided the perfect solution for their application. Following extensive testing by the vehicle manufacturer, the system was launched this year.

Working Temperature: -20°C to +80°C

Working Pressure: 20 bar

Fluid Conveyed: compressed air

Regulations

DI: 2002/95/EC (RoHS), 2011/65/EC

DI: 2006/42/EC

ISO 14743

DI: 97/23/EC (PED)

DI: 1907/2006 (REACH)



LF 3000® Push-In Fittings



Polyurethane Tubing

Key Success Factors

- Understanding the requirements of their application and presenting different potential options before reaching the optimum solution
- LF 3000®'s envelope dimensions were the most compact of the products (including competition) considered and was the only one able to be used in the limited space available
- The ability to follow the project across different countries and give support to the customer in promoting their proposed solution with technical presentations and meetings with the car manufacturer

Contacts



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