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VULKAN LOKRING at the InnoTrans 2014 for the first time

## LOKRING® technology guarantees cost-efficient installation and repairs for air-conditioning systems in trains, buses and commercial vehicles

(Herne, September 2014) Vulkan Lokring has been supplying a perfectly matched system for tube and hose connections for refrigerant lines in vehicle air-conditioning for decades. This year, the Herne-based manufacturer is showcasing its products for train, bus and commercial vehicle climate control for the first time at the Intrans fair in Berlin.

The Lokring & Lokclip system, which is based on extremely installation-friendly pressed connections, is the only solder-free tube and hose connection technology for vehicle air-conditioning systems in the world. This tried-and-trusted system makes it possible to hermetically couple refrigerant lines in the air-conditioning systems of almost all vehicle types, no matter whether they are trains, cars, trucks, buses, agricultural vehicles or special vehicles. Major advantage of pressed connections: Since neither soldering nor welding are necessary, elaborate fire safety precautions do not need to be taken during the installation or repairs of vehicle air-conditioning systems and there is no danger of components becoming damaged through heat development. Additionally installations and repairs of vehicle air-conditioning systems can be carried out faster as there is no need to wait for expensive genuine spare parts to repair defective lines. Actually, in many cases the refrigerant line does not even need to be removed – it can be repaired in the vehicle. This makes the repair significantly more cost-efficiently.

### Connection for all common tube materials and hoses

The solder-free tube connection is based on an axial sliding technology: The two ends of the tubes that are to be connected are brought together in a connection joint and from there two rings are pushed axially onto the joint using a hand assembly tool. Due to the conical inner contour of the rings, the joint is reduced to such an extent that both the tube and the joint create a metallic-hermetic connection through surface pressing. However, there is no measurable drop in pressure or reduction in volume flows in the tube system. The connection system is available for all commonly used tube materials, whether it is aluminum, steel or copper.

The Lokclip technology is the perfect complement to the Lokring system as it will provide you with a simple and low-cost alternative to pressed and screwed connections for hoses. The clips can be used to set up both hose-to-hose and hose-to-tube connections for all conceivable repair situations. The system, which comprises stainless steel clips, a clip position holder and contoured joint, practically excludes application mistakes during assembly.

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## **1,5 billion LOKRINGS**

Lokring tube connections have been used successfully in vehicle climate control systems for more than 30 years. More than 1.5 billion LOKRINGS have been fitted in this time. The tried-and-trusted connection technology has been tested in accordance with the EU directive 2006/40/EC, it is hermetically sealed and withstands a pressure of up to 50 bar with fourfold safety. For this reason, leading bus manufacturers such as EvoBus, Marcopolo, Hispacold and Iveco France put their trust in the patented connection and many vehicle air-conditioning systems are equipped with Lokring tube connections from the factory.

## **Also suitable for aluminium tubes**

The solder-free connection technology from Vulkan Lokring makes the trouble-free use of aluminium possible, thus significantly saving on weight.

The climate control experts from Vulkan Lokring will be providing information about customised solutions for series production and the advantages of using Lokring and Lokclip for installing and repairing vehicle air-conditioning systems at the Innotrans, Berlin, booth 117 in Hall 5.1.

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