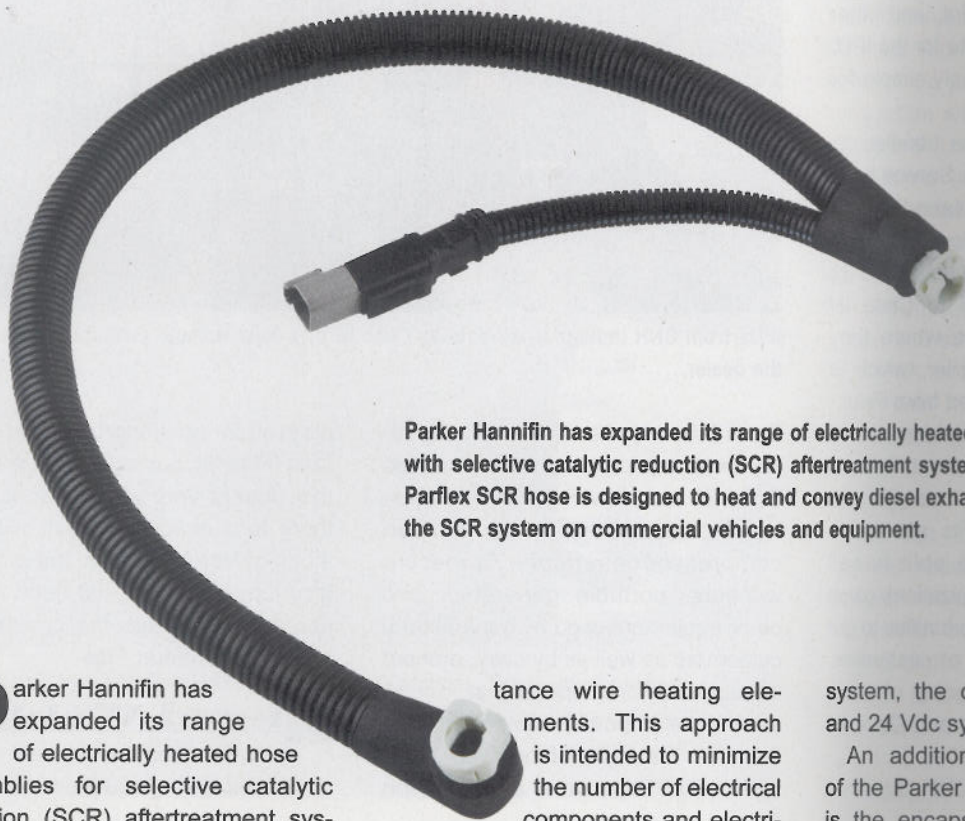


MORE HEATED HOSES

Parker Hannifin expands heated Parflex hose range for SCR systems



Parker Hannifin has expanded its range of electrically heated hose assemblies for use with selective catalytic reduction (SCR) aftertreatment systems in diesel engines. The Parflex SCR hose is designed to heat and convey diesel exhaust fluid (DEF) throughout the SCR system on commercial vehicles and equipment.

Parker Hannifin has expanded its range of electrically heated hose assemblies for selective catalytic reduction (SCR) aftertreatment systems in diesel engines.

First launched in 2009, the Parflex SCR hose is designed to heat and convey diesel exhaust fluid (DEF) throughout the SCR system on commercial vehicles and equipment.

Parker is now offering 4 and 5.5 mm ethylene-propylene-diene monomer (EPDM) heated hoses for special order with IPX6, IPX8 and IPX9K certifications. Parker has also made a number of custom solutions for DEF fill lines and other on-engine heated lines such as those used in closed crankcase ventilation (CCV) systems in special sizes.

Parker's SCR hoses utilize an electrical heating system in which both the hose and fittings are heated with the same continuous-variable-resis-

tance wire heating elements. This approach is intended to minimize the number of electrical components and electrical connections, enhancing reliability, the company said. The design of the electrical heater is also flexible and adaptable in manufacturing, which Parker said allows for the creation of SCR hose assemblies that can meet wider performance ranges and/or greater length requirements.

Parker said its hose and fitting assemblies are optimized based on customer performance requirements and dosing system specifications. The thermal performance is balanced to ensure even heating throughout the assembly length, and power densities can be customized for different dosing control systems. The thaw performance and final hose assembly lengths are limited only by the maximum available power of the dosing

system, the company said, and 12 and 24 Vdc systems are standard.

An additional proprietary feature of the Parker SCR assembly design is the encapsulation of the fittings, heating elements and electrical connections within a high-temperature, sealed thermoplastic over-molding. The over-molding serves to protect the fitting from impact damage and is water-resistant, making the hoses suitable for multiple environments, the company said.

Parker SCR hoses have multiple options for fittings, electrical connectors and overall lengths that allow customization by the end user. The standard 6 mm nylon lines can be manufactured in a variety of lengths to meet short timelines, the company said.

The hoses are manufactured by the Parflex Division in Ravenna, Ohio. **dp**

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