

# KEEPING THE AIR WE BREATHE CLEAN

## Design

- Core tube is chemically resistant to urea solution
- Fabric reinforced core tube for extra strength at elevated temperatures
- Specially designed wire resistance and pitch for each hose assembly length
- Thermoplastic cover extruded over the heater wires provides chemical and abrasion resistance
- Optional heat/abrasion shield surrounds the hose for extra protection
- EPDM's core tube volumetric expansion is used in systems without DEF fluid purge



## Advantages

- Consistent thaw - more reliable than coolant heated lines
- Multiple options available to fit every application
  - Protective Overmolding
  - Additional protection for water ingress and damage of electrical components
  - Bolsters fitting strength and impact resistance
- Corrugated heat shield offers abrasion resistance
- Designed in USA
- The Parflex Division is third party certified for ISO 14001 and IATF 16949

Visit [www.scrhose.com](http://www.scrhose.com) FOR  
ASSEMBLY NOMENCLATURE  
AND DETAILED SCR ILLUSTRATIONS

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## Parflex SCR Hose Assemblies

Electrically Heated



ENGINEERING YOUR SUCCESS.

# Parflex SCR Hose Assemblies

# THIS IS CLEANER AIR

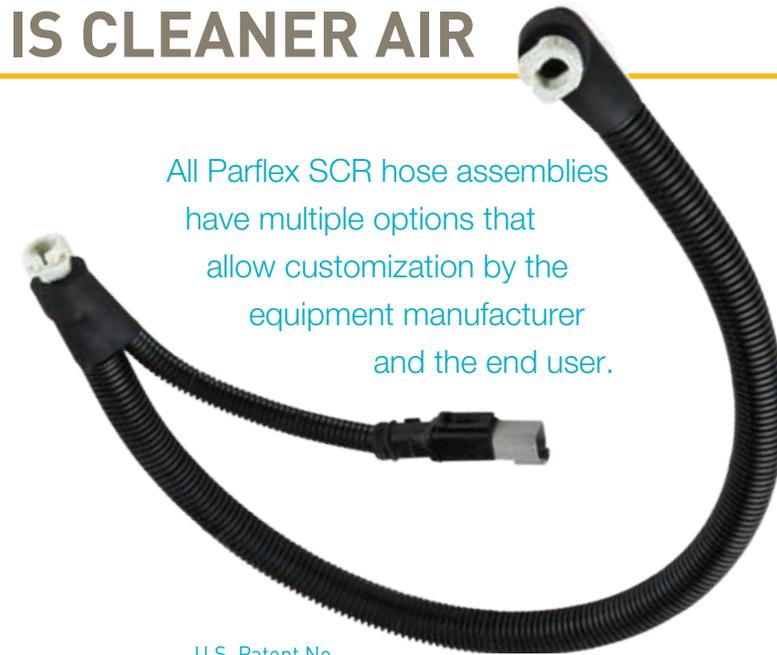
With Electrically Heated SCR Hose Assemblies from Parker's Parflex Division, a cleaner exhaust system means a cleaner environment. Designed for heating and conveying DEF (Diesel Exhaust Fluid) throughout the SCR system on commercial vehicles, Parflex hoses are made to handle both on-road and off-road applications while helping you stay Tier IV and EPA 10 compliant. Combine these hoses with other high value Parflex fluid conveyance products (pilot lines, grease lines, hydraulic hoses, etc.) and customers can enjoy best in class durability and performance.

SCR hoses are available with several different options. These include, but are not limited to: different electrical connectors, including options for heat and abrasion shield over lead wires; 1/4, 5/16, and 3/8 fittings; wide variety of lengths; 12V or 24V; etc. Parflex also has designs for other sizes and core tubes for SCR hoses. These designs ensure that Parflex hoses can be utilized on SCR systems from multiple suppliers.



- Thermoplastic and EPDM core tubes reinforced for strength and flexibility
- Stainless steel heating wire
- Extruded thermoplastic jacket
- Heated fittings
- Optional heat/abrasion shield
- 100% electrically tested, pressure tested, and cleaned before shipped

All Parflex SCR hose assemblies have multiple options that allow customization by the equipment manufacturer and the end user.



U.S. Patent No. 8,819,922

| Core Tube Material | I.D. | O.D. | with heat/abrasion shield (optional) | Maximum Operating Pressure |     | Minimum Burst Pressure |     | Vacuum Resistance |        | Bend Radius |
|--------------------|------|------|--------------------------------------|----------------------------|-----|------------------------|-----|-------------------|--------|-------------|
|                    | mm   | mm   |                                      | psi                        | bar | psi                    | bar | inch              | Hg/bar | mm          |
| EPDM               | 4    | 14.5 | 21                                   | 174                        | 12  | 435                    | 30  | 14.8              | 500    | 30          |
|                    | 5.5  | 14.5 | 21                                   | 174                        | 12  | 435                    | 30  | 14.8              | 500    | 40          |
| Nylon              | 6    | 14   | 21                                   | 150                        | 10  | 600                    | 40  | 8.9               | 300    | 40          |

**MANY CUSTOM OPTIONS AVAILABLE**

**CONTACT PARFLEX FOR DETAILS (330.296.2871)**

NOTE: EPDM 7.5 mm and 12.3 mm core tubes are available on request in custom configurations. Standard lengths available in 500 mm increments, ranging from 500 mm (0.5 m) O.A.L. through 6000 mm (6.0 m) in most configurations.

## Operating Parameters

- EPDM Temperature Range: -40°F (-40°C) to +248°F (+120°C) with spikes to +266°F (+130°C)
- EPDM 5.5 mm Pressure Range: 174 psi. (12 bar) with spikes to 232 psi (16 bar)
- Nylon Pressure Line Temperature Range: -40°F (-40°C) to +248°F (+120°C) with spikes to +284°F(+140°C)
- Nylon Suction/Throttle Line Temperature Range: -40°F (-40°C) to +158°F (+70°C) with spikes to +221°F(+105°C)
- Available in 12VDC, 24VDC, and unheated

## Certifications

- IATF 16949
- ISO 14001
- IP6X, IPX8, and IPX9K Certified (4mm EPDM, 5.5mm EPDM, and 6mm Nylon)

Unlike the competition's electrically heated hose, Parflex SCR hoses lock-in the heating elements with an extruded sheath for added protection and long-lasting uniform heating. The overmold on the fittings provide impact and water resistance, making the hoses suitable for multiple environments. Each configuration utilizes materials specifically formulated for their application.

## SCR – Selective Catalytic Reduction

The process of injecting an Urea solution into the exhaust stream onto a catalyst. The injection starts a chemical reaction, changing Nitrogen Oxides to Nitrogen and Water.

