Parflex SCR Literature
Parflex SCR Hose Assemblies
Electrically Heated

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding

ENGINEERING YOUR SUCCESS.
Parflex SCR Hose Assemblies
Keeping the Air We Breathe Clean

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.) so your customer can enjoy best in class durability and performance.

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

Advantages

- Consistent thaw - more reliable than coolant heated lines.
- Multiple options available to fit every application.
- Protective Overmolding
  - Protection against water ingestion and damage of electrical components.
  - Bolsters fitting strength and impact resistance.
- Corrugated heat shield offers abrasion resistance.
- Assembled and designed in USA
- The Parflex Division is third party certified for ISO 14001 and TS 16959.

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.
S0/S1
Suction/Throttle Line Design

Parflex SCR Hose Assembly
Suction/Throttle Line
- Thermoplastic core tube with fabric reinforcement
- Stainless steel heating wire
- Extruded thermoplastic jacket
- Optional heat/abrasion shield

Please contact Parflex for additional sizes, non-purge systems and EPDM core products.

4mm PA, 4mm EPDM and 5.5mm EPDM launching in 2011.

Operating Parameters S0/S1
- Temperature Range:
  - -40°F to 158°F (-40°C to 70°C)
  - Spikes to 221°F (105°C)
- Available in 12VDC or 24VDC design

Certifications
- TS 16949
- ISO 14001

<table>
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<th>Base Part Number</th>
<th>I.D.</th>
<th>O.D.</th>
<th>w/ Heat Shield (opt)</th>
<th>Max. Oper. Pressure</th>
<th>Min. Burst Pressure</th>
<th>Vacuum Resistance</th>
<th>Bend Radius</th>
<th>Lengths Available*</th>
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<td>mm</td>
<td>mm</td>
<td>psi</td>
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<td>bar</td>
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<td>145</td>
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<td>600</td>
<td>40</td>
<td>8.9</td>
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</table>

*Please contact Parflex for overall lengths other than those listed. Nonstandard lengths are available.
Polyamide Pressure Line Design

Parflex SCR Hose Assembly Polyamide Pressure Line
- Specialty high temperature polyamide core with fabric reinforcement
- Stainless steel heating wire
- Extruded high temperature thermoplastic jacket
- Heat/abrasion shield

**Operating Parameters P1**
- Temperature Range:
  - -40°F to 248°F (-40°C to 120°C)
  - Spikes to 284°F (140°C)
- Internal/Fluid Temp:
  - 140°F Max, per Cummins AEB
- Available in 12VDC or 24VDC design

**Base Part Number**

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<th>I.D</th>
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<th>w/ Heat Shield (opt)</th>
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<tr>
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<td>21</td>
<td>145</td>
<td>10</td>
<td>2</td>
<td>1, 2 or 3 meters</td>
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</tbody>
</table>

*Please contact Parflex for overall lengths other than those listed. Nonstandard lengths are available.
How to Build a Parflex SCR Hose Assembly

**Hose Family**
- SCR

**Hose Type**
- S0 - Suction/Throttle
- S1 - Suction/Throttle
- P1 - Pressure

**O.A.L. Code**
- 50 - 0.5m (S0 & S1 only)
- 100 - 1.0m
- 200 - 2.0m
- 300 - 3.0m (P0 & P1 only)

**Special Requirement**
- P1 - Yellow Wire
- P2 - White Wire
- G1 - Red Tape on Both Ends
- G2 - Yellow Tape on Both Ends
- S1 - Zip Tie Power Wire to Hose
- S2 - Zip Tie Power Conn. to Hose
- X1 - Combination (G1 & S1)
- X2 - Combination (G2 & S1)
- X3 - Combination (P1 & S1)

**Fittings**
- A - 5/16" Straight
- B - 5/16" 90° Elbow
- C - 3/8" Straight
- D - 3/8" 90° Elbow

**B/A**
- Fittings
- A - 5/16" Straight
- B - 5/16" 90° Elbow
- C - 3/8" Straight
- D - 3/8" 90° Elbow

**T2**
- Power Connector
  - STANDARD
    - 00 - Not Powered
    - NN - No Connector Installed
    - D1 - Delphi Weather-Pack Shroud 2 pos. 12010973
    - D2 - Delphi Weather-Pack Tower 2 pos. 12015792
    - FA - Deutsch Receptacle DT04-2P w/2PA
    - FB - Deutsch Receptacle DT04-2P w/2PB
    - FC - Deutsch Receptacle DT04-2P w/2PC
  - NON-STANDARD (Extra Charge)
    - D3 - Delphi Shroud 2 pos. 12034074
    - D4 - Delphi Shroud 3 pos. 12020827 w/Plug 12010300, Cavity A Plugged
    - D5 - Delphi Shroud 3 pos. 12020827 w/Plug 12010300, Cavity B Plugged
    - D6 - Delphi Shroud 3 pos. 12020827 w/Plug 12010300, Cavity C Plugged
    - D7 - Delphi Metri-Pack Male**
    - D8 - Delphi Metri-Pack Female**
    - GA - Deutsch Receptacle DT04-2P-E008 w/2PA
    - GB - Deutsch Receptacle DT04-2P-E008 w/2PB
    - GC - Deutsch Receptacle DT04-2P-CE09 w/2PC
    - T2 - TYCO AMP Superseal 1.5 Series 282104-1 w/Boot 880810-1
    - T3 - TYCO Amp Superseal 1.5 Series 282080-1 w/Boot 880810-1

**Voltage**
- 0 - No Power
- 1 - 12 V
- 2 - 24 V

**Wire Length**
- 15 - 150mm
- 30 - 300mm

**TOLERANCE**
- 0-1499mm ± 10mm
- 1500mm & up ± 25mm

**Parflex Part Number**
- 15300027
- 12048159
- 15324985

**Special Requirement**
- P1 - Yellow Wire
- P2 - White Wire
- G1 - Red Tape on Both Ends
- G2 - Yellow Tape on Both Ends
- S1 - Zip Tie Power Wire to Hose
- S2 - Zip Tie Power Conn. to Hose
- X1 - Combination (G1 & S1)
- X2 - Combination (G2 & S1)
- X3 - Combination (P1 & S1)

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J2044 Fittings available from Fluid System Connectors Division
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