Hose Solutions
for Low Temperature Applications
Parker’s low temperature hoses are specially designed to work in an extremely severe cold environment, where standard hoses with a temperature range only up to –40°C are absolutely not suitable in particular in dynamic applications when the hose is moving or flexing.

Parker’s low temperature hose range works safe up to –60°C and delivers superior performances in flexibility and cold resistance. Depending on the application, our Polymer Hose Division is able to supply hoses in three different materials, whether it is rubber, thermoplastic or silicone – everything from one source.

Excellent service in applications up to –60 °C
- General hydraulic applications
- Thermal management applications and climate control lines
- Cold chain and labs

Regarding our rubber hoses Parker is one of the few manufacturers who develops and produces his own rubber compounds. This is the only way to create product properties which prevent cracking of rubber hoses even in extreme movement situations combined with extreme low temperatures.

Hose solutions for low temperature applications up to –60°C

Parker premium low temperature hoses for extremely severe cold environments
- General hydraulic rubber hoses
- General hydraulic thermoplastic hoses
- Thermal management and pharmaceutical transfer silicone hoses
### General hydraulic rubber hoses

**461LT**
- **Construction**
  - Inner tube: Synthetic rubber
  - Reinforcement: Two high-tensile steel wire braids
  - Cover: Synthetic rubber
- **Size:** -4 up to -16
- **Working Pressure:** 21.0 up to 42.5 MPa
- **Temperature:** up to -57 °C
- **Bend Radius:** 75 up to 250 mm
- **Fitting Series:** 48

**371LT**
- **Construction**
  - Inner tube: Synthetic rubber
  - Reinforcement: Three high-tensile steel wire braids
  - Cover: Synthetic rubber
- **Size:** -6 up to -16
- **Working Pressure:** 28.0 up to 44.5 MPa
- **Temperature:** up to -57 °C
- **Bend Radius:** 120 up to 310 mm
- **Fitting Series:** 70

**SX35LT**
- **Construction**
  - Inner tube: Synthetic rubber
  - Reinforcement: Four high-tensile steel wires
  - Cover: Synthetic rubber
- **Size:** -12 up to -20
- **Working Pressure:** 35.0 MPa
- **Temperature:** up to -57 °C
- **Bend Radius:** 240 up to 420 mm
- **Fitting Series:** 73 / 77

**SX42LT**
- **Construction**
  - Inner tube: Synthetic rubber
  - Reinforcement: Four or six high-tensile steel wires
  - Cover: Synthetic rubber
- **Size:** -12 up to -20
- **Working Pressure:** 42.0 MPa
- **Temperature:** up to -57 °C
- **Bend Radius:** 260 up to 400 mm
- **Fitting Series:** 73 / 77
**General hydraulic thermoplast hoses**

<table>
<thead>
<tr>
<th>Construction</th>
<th>Inner tube: Copolyester</th>
<th>Reinforcement: Fiber</th>
<th>Cover: Copolyester</th>
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</thead>
<tbody>
<tr>
<td><strong>53DM</strong></td>
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<td><strong>53DM TWIN</strong></td>
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<td><strong>594LT</strong></td>
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- High abrasion resistance
- Small bend radius
- Constant working pressure
- Excellent ozone & UV resistance

**Applications**

- Up to −57°C

**Constructions**

- Construction Series: 6722

**Thermal management Pharmaceutical transfer silicone hoses**

<table>
<thead>
<tr>
<th>Construction</th>
<th>Inner tube: Brick red silicone rubber compound</th>
<th>Reinforcement: Multiple textile plies</th>
<th>Cover: Blue silicon, glossy finish rubber</th>
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<tr>
<td><strong>6722</strong></td>
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</table>

- Meets SAE J20 R3 Class A
- Withstand ozone and UV attack
- Weathering resistant
- Stable at extreme operating temperatures
- Chemical and oxidation resistant
- Maintains its flexibility and elasticity over time
- Good sound and vibration dampening performance
- Extended service life reducing costs
- Design factor 3:1

**Applications**

- Up to −60°C

**Construction**

- Size: 6 up to 25 mm
- Working Pressure: 0.4 up to 0.57 MPa
- Temperature: −54 up to +177°C
- Bend Radius: 13 – 127 mm

**Applications**

- Thermal management
- Trucks, buses, automobiles,
- Mobile off-road and other equipment or vehicles with heating lines.

**Polyax**

<table>
<thead>
<tr>
<th>Construction</th>
<th>Inner tube: Translucent, smooth, phthalates free, silicone rubber compound</th>
<th>Reinforcement: Plied and stainless steel wire helix</th>
<th>Cover: Translucent, smooth, silicone rubber compound</th>
</tr>
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<tbody>
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<td><strong>56</strong></td>
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</table>

- Colorless (translucent) construction enables a visual inspection of the material passage
- It can be truly sterilized to ensure purity of product being manufactured or processed
- Extremely stable at elevated temperature to protect
- Low permeation to reduce or eliminate emission and odor
- Heat, ageing, ozone and abrasion resistant cover
- Design Factor 3:1 enhances safety for equipment and operators

**Applications**

- Pharmaceutical labs
- Medicinal ingredients
- Cosmetic ingredients
- Vacuum

**Construction**

- Size: -6 up to -10
- Working Pressure: 21.0 MPa
- Temperature: −57 up to +121°C
- Bend Radius: 32 up to 102 mm
- Fitting Series: 56
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