



## Hose Solutions

for Low Temperature Applications



ENGINEERING YOUR SUCCESS.

# Hose solutions for low temperature applications up to $-60^{\circ}\text{C}$

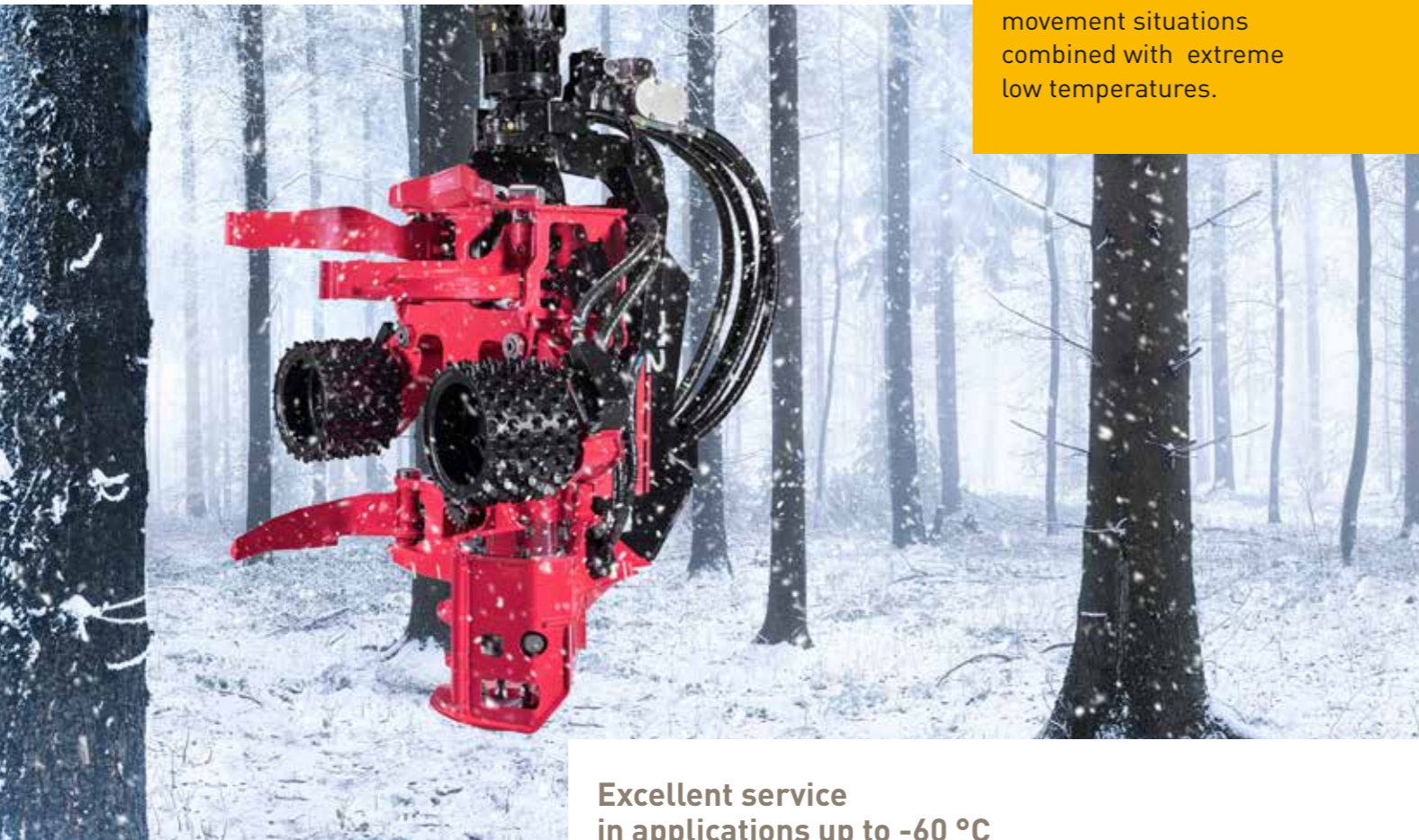
Parker's low temperature hoses are specially designed to work in an extremely severe cold environment, where standard hoses with a temperature range only up to  $-40^{\circ}\text{C}$  are absolutely not suitable in particular in dynamic applications when the hose is moving or flexing.

Parker's low temperature hose range works safe up to  $-60^{\circ}\text{C}$  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.

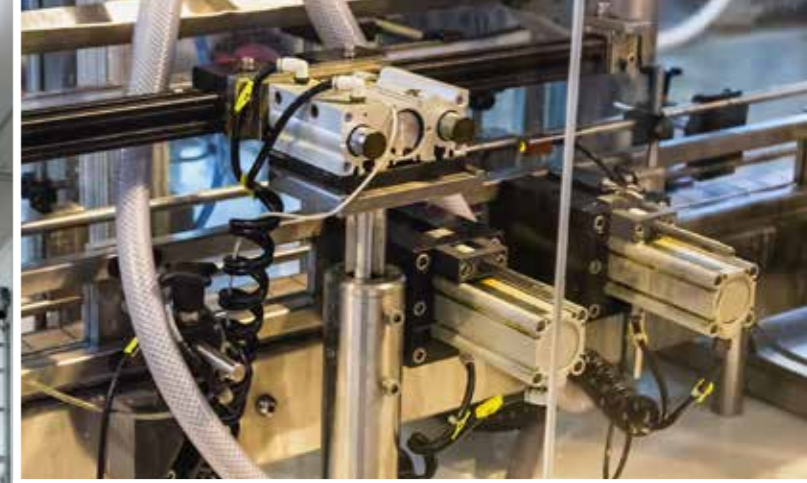
Regarding our rubber hoses Parker is one of the few manufacturers who develops and produces his own rubber compounds.

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.



## Excellent service in applications up to $-60^{\circ}\text{C}$

- General hydraulic applications
- Thermal management applications and climate control lines
- Cold chain and labs



## 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

up to -57 °C

## General hydraulic rubber hoses

up to -57 °C



**461LT**

### Construction

Inner tube: Synthetic rubber  
Reinforcement: Two high-tensile steel wire braids  
Cover: Synthetic rubber

- No-Skive thin cover hose construction
- Excellent ozone resistance

Size: -4 up to -16  
Working Pressure: 21.0 up to 42.5 MPa  
Temperature: -57 up to +100 °C  
Bend Radius: 75 up to 250 mm  
Fitting Series: 48



**SX35LT**

### Construction

Inner tube: Synthetic rubber  
Reinforcement: Four spiral high-tensile steel wires  
Cover: Synthetic rubber

- No-Skive hose construction
- Reinforcement of four high tensile steel wires
- Constant working pressure

Size: -12 up to -20  
Working Pressure: 35.0 MPa  
Temperature: -57 up to +100 °C  
Bend Radius: 240 up to 420 mm  
Fitting Series: 73 / 77



**371LT**

### Construction

Inner tube: Synthetic rubber  
Reinforcement: Three high-tensile steel wire braids  
Cover: Synthetic rubber

- No-Skive hose construction - Compact Design
- Excellent ozone resistance

Size: -6 up to -16  
Working Pressure: 28.0 up to 44.5 MPa  
Temperature: -57 up to +100 °C  
Bend Radius: 120 up to 310 mm  
Fitting Series: 70



**SX42LT**

### Construction

Inner tube: Synthetic rubber  
Reinforcement: Four or six spiral high-tensile steel wires  
Cover: Synthetic rubber

- No-Skive hose construction
- Reinforcement of four or six high tensile steel wires
- Constant working pressure

Size: -12 up to -20  
Working Pressure: 42.0 MPa  
Temperature: -57 up to +100 °C  
Bend Radius: 260 up to 400 mm  
Fitting Series: 73 / 77



## General hydraulic thermoplast hoses

up to  $-57^{\circ}\text{C}$

## Thermal management Pharmaceutical transfer silicone hoses

up to  $-60^{\circ}\text{C}$



**53DM**

### Construction

Inner tube: Copolyester  
Reinforcement: Fiber  
Cover: Copolyester

**53DM  
TWIN**

- High abrasion resistance
- Small bend radius
- Constant working pressure
- Excellent ozone & UV resistance

Size: -4 up to -10  
Working Pressure: 21.0 MPa  
Temperature:  $-57$  up to  $+100^{\circ}\text{C}$   
Bend Radius: 32 up to 102 mm  
Fitting Series: 56



**6722  
Silicone**

### Construction

Inner tube: Brick red silicone rubber compound  
Reinforcement: Multiple textile plies  
Cover: Blue silicon, glossy finish rubber  
Size: 6 up to 25 mm  
Working Pressure: 0.4 up to 0.57 MPa  
Temperature:  $-54$  up to  $+177^{\circ}\text{C}$   
Bend Radius: 13 – 127 mm

- 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

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



**55LT**

### Construction

Inner tube: Copolyester  
Reinforcement: Fiber  
Cover: Black copolyester, perforated

**55LT  
TWIN**

- High abrasion resistance
- Small bend radius
- Excellent ozone & UV resistance

Size: -2 up to -8  
Working Pressure: 14.0 up to 21.0 MPa  
Temperature:  $-57$  up to  $+100^{\circ}\text{C}$   
Bend Radius: 13 up to 76 mm  
Fitting Series: 56



**563LT**

### Construction

Inner tube: Copolyester  
Reinforcement: Steel wire  
Cover: Copolyester

**Twin hose available on request**

- High abrasion resistance
- Small bend radius
- Constant working pressure
- Excellent ozone & UV resistance

Size: -6 up to -10  
Working Pressure: 21.0 MPa  
Temperature:  $-57$  up to  $+121^{\circ}\text{C}$   
Bend Radius: 64 up to 102 mm  
Fitting Series: 43 / 56



**Poliax**

### Construction

Inner tube: Translucent, smooth, phthalates free, silicone rubber compound.  
Reinforcement: Plies and stainless steel wire helix  
Cover: Translucent, smooth, silicone rubber compound  
Size: 13 up to 51 mm  
Working Pressure: 0.6 up to 1.5 MPa  
Temperature:  $-60$  up to  $+200^{\circ}\text{C}$   
Bend Radius: 60 – 210 mm

- 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



**594LT**

### Construction

Inner tube: Copolyester  
Reinforcement: Steel wire  
Cover: Copolyester

**Twin hose available on request**

- High abrasion resistance
- Small bend radius
- Constant working pressure
- Excellent ozone & UV resistance

Size: -8  
Working Pressure: 28.0 MPa  
Temperature:  $-57$  up to  $+100^{\circ}\text{C}$   
Bend Radius: 90 mm  
Fitting Series: 46

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