

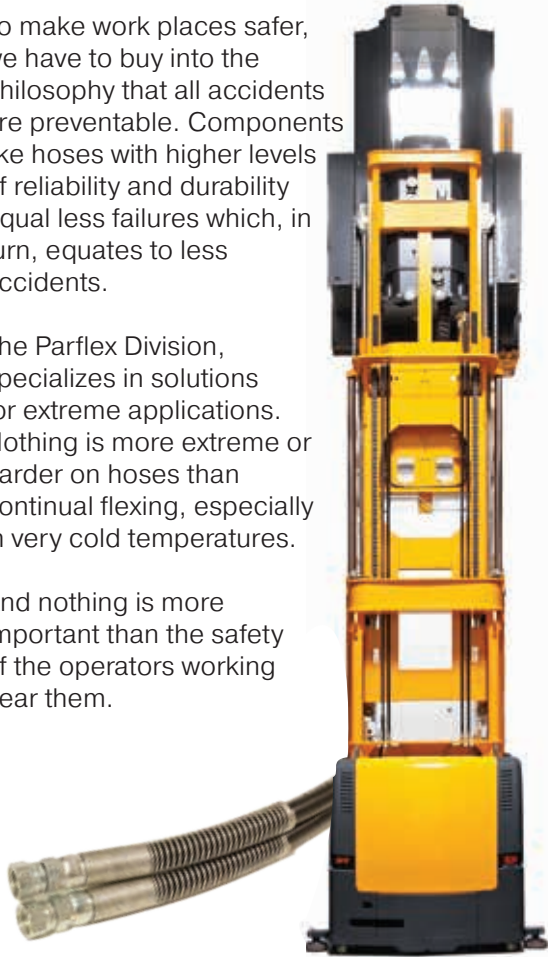
Extremes

Temperature, Flexibility,
Abrasion and Length Change

To make work places safer, we have to buy into the philosophy that all accidents are preventable. Components like hoses with higher levels of reliability and durability equal less failures which, in turn, equates to less accidents.

The Parflex Division, specializes in solutions for extreme applications. Nothing is more extreme or harder on hoses than continual flexing, especially in very cold temperatures.

And nothing is more important than the safety of the operators working near them.



**ALL HOSES AVAILABLE
IN TWIN-LINE CONSTRUCTIONS**

Products in this brochure have been well tested in the most extreme applications by Parflex customers. Even in the severe temperatures of industrial freezers, 53DM hose continues to stay flexible and perform at -70°F . A typical 53DM-6 meets SAE 100R18 and withstands more than 250,000 cycles in our freezer over the sheave test stand.

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Parflex Fluid Conveyance
Over-the-Sheave Applications



ENGINEERING YOUR SUCCESS.

Parflex Over-the-Sheave Hoses

Designed to withstand the strains of large-scale, heavy-duty applications that operate with continual flexing.

Parflex over-the-sheave hoses are designed to withstand the strains of continual flexing over sheaves, such as fork lifts, booms, aerial lifts, cranes and tree delimiters. Our customers have indicated a major reason for hose failure is that materials being transported on forklifts often shift in transit and come in contact with the mast and the hydraulic hoses on the mast. Installing a hose with superior abrasion resistance helps the hose stand up to this kind of abuse and extend hose life.

Parflex **TOUGHJACKET™** hoses feature special Parker-formulated polyurethane jackets and exceed industry requirements of abrasion and durability of standard rubber hose by 650 times.

The **563LT Low Temperature Hose** features working temperatures as low as -70°F (-57°C) and the best change in length characteristics at +/- 1% is sizes -6 and -8.

Features

- **Light weight**
30% - 70% weight reduction
- **Abrasion resistant**
Tough, outer jacket
- **Compact O.D.**
10% - 30% reduction for easier routing; Lower force to flex
- **Clean core tube**
- **Resistant to pin hole leaks**
- **Resistant to erosion**
- **Low length change under pressure**
- **Noise reduction**
- **Low permeation**
- **Wide chemical compatibility**
- **Long lengths**
Up to 1,000 feet
- **Bonded hoses**
Reduce tangling and abrasion, up to 11 lines



Superior flexibility in cold temperatures

563LT SAE 100R17



3,000 constant psi
Size range: 3/8" to 5/8"
Temp. Range*: -70°F to +250°F
Lowest temperature range in a medium pressure hydraulic hose. Lowest length change under pressure.

53DM SAE 100R18



3,000 constant psi
Size range: 1/4" to 3/4"
Temp. Range*: -70°F to +212°F
Better bend radius than SAE J517 and 100R7. Low coefficient of friction cover.

55LT SAE 100R7



2,000-3,250 psi
Size range: 1/8" to 1/2"
Temp. Range*: -70°F to +212°F
Superior flexibility in cold temperature applications.

* Temperature ranges are for standard hydraulic fluids. See Catalog 4660 for more details.



650X MORE ABRASION RESISTANCE
THAN STANDARD RUBBER HOSE

594TJ SAE 100R19



4,000 constant psi
Size range: 1/4" to 5/8"
Temp. Range*: -40°F to +212°F
Four-spiral wire hose performance in a high tensile two-wire braid construction.

590TJ



2,000-5,000 psi
Size range: 1/4" to 1"
Temp. Range*: -40°F to +250°F
Two-wire strength, one-wire construction for improved bend radius.

563TJ SAE 100R17



3,000 psi
Size range: 1/4" to 1"
Temp. Range*: -40°F to +250°F
Lowest length change under pressure (+/- 1%).
Unmatched durability.

560TJ SAE 100R1AT



1,750-3,600 psi
Size range: 3/16" to 3/4"
Temp. Range*: -40°F to +250°F
Lighter and smaller than 100R1AT with longer lengths.
Unmatched durability.

Maintenance Tips

If a hose fails, it not only results in costly downtime and maintenance, but it also creates a potentially hazardous situation for equipment operators and other workers in close proximity.

DOWNLOAD ["Step by Step Maintenance Guide for Mast Hose" with an eight point checklist and inspection tips.](#)

