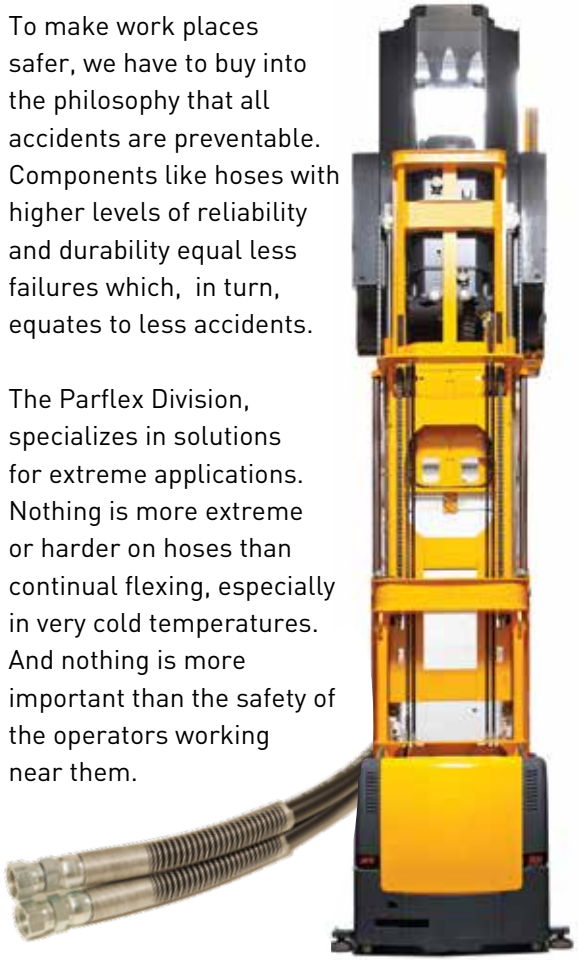
Extremes

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 and our customers. Even in the severe temperatures of industrial freezers, 53DM hose continues to perform at -70ºF. 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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Bul. 4660-OTS KN 1/18

Parflex Fluid Conveyance

Over-the-Sheave Applications

Parker

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 delimbers. Often materials being transported on forklifts shift in transit, coming in contact with the mast and the hydraulic hoses on the mast. Our customers have indicated this is a major reason for hose failure. Installing a hose with superior abrasion resistance will extend the life of hoses in the application.

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 563TJ hydraulic hose series offers the best change in length characteristics at +/-1%. This makes it an ideal solution for boom or cable track applications where long lengths are required.

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

H6
SAE 100R17

3,000 constant psi
Size range: 1/4" to 3/4"
Temp. Range: -70°F to +250°F
Largest temp. range in a medium pressure hydraulic hose. Low 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.

TOUGHJACKET™

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.

563TJ
SAE 100R17

3,000 constant psi
Size range: 1/4" to 1/2"
Temp. Range: -40°F to +250°F
Lowest length change under pressure (+/-1%). Smaller O.D. and up to 42% lighter than comparable 100R17 hose.

590TJ
SAE 100R2

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.

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.

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.