



CAT 4900

Parflex Ultra High Pressure Thermoplastic Hose,
Fittings and Accessories 2018



ENGINEERING YOUR SUCCESS.

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Welcome to The Parflex Division



Manitowoc, WI ●
Fort Worth, TX ●
Stafford, TX ●
Monterrey, MX ●
Ravenna, OH ●
Randleman, NC ●

Our Charter

To be the global leader in engineered polymer-based products while providing system solutions for the conveyance and control of fluids.

As part of the Parker Fluid Connectors Group, the Parflex Division is responsible for the design and manufacture of hoses and tubing to handle extreme applications. Products include thermoplastic and fluoropolymer hose and tubing, hose bundles, instrumentation tubing, harnesses and accessories.

The Parflex Division includes the Ravenna division headquarters in Ohio, and manufacturing facilities in:

- Manitowoc, WI
- Fort Worth, TX
- Stafford, TX
- Randleman, NC
- Monterrey, Mexico

How to Use This Catalog

Table of Contents

For quick, easy listing of topics covered by section, reference the Table of Contents on page 3-4.

Information by Part Number

See the Part Number Index in each chapter.

Information by Pressure

Reference the Pressure Selection Chart found at the beginning of the hose section in the catalog.

Information by Market

Reference the market information section, beginning on page 8.

The Parker Part Numbering System

The part numbering system for hose begins on page A-8. Fitting nomenclature is on page B-4.

International Symbols

An explanation of the symbols and their meaning used in the product tables can be found on page 5.

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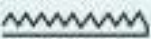
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Symbols

Symbol	Meaning
#	Part Number
	Hose Inner Diameter (I.D.)
	Hose Outer Diameter (O.D.)

Symbol	Meaning
	Working Pressure
	Minimum Bend Radius
	Thread Size

Symbol	Meaning
	Hex Size
	Diameter
	Weight

ICON Identification Key

Hose markets/applications are identifies using the following icons:



Oilfield Service



Waterblast



Hydraulic

Selecting the Right Hose

Choosing Your Hose

Before selecting hoses from Catalog 4900, it will be easier if you familiarize yourself with the basics of high pressure thermoplastic hoses. If you review the symbols on page 5 and the hose and fitting part number explanations in Sections A and B, respectively, you will have a foundation for selecting your hose. Also, the Hose Selection Charts (located at the beginning of Section A) will help pinpoint the hose you require. You can use the catalog to identify individual hoses by:

- Brief general description
- Specific size with corresponding working pressure
- Market application
- Core tube material
- Reinforcement/type of construction
- Cover material

For fittings, refer to the visual indexes in Section B.

General Construction

Construction standards may vary between specific thermoplastic hoses.

Specific braid materials, wire reinforcements, spiral reinforcements and distinguishing features are clearly called out with each hose product. Perforated and non-perforated hoses are available based on application.

Hoses are engineered and manufactured to appropriate burst pressure to working pressure ratios according to application. Never operate a hose beyond its published working pressure.





“STAMPED”

Size

The appropriate inside and outside diameters and length of the hose should be determined

Temperature

The ambient and/or maximum temperature of the material being conveyed

Application

External conditions including abrasion, climate, heat, flexing, crushing, kinking, and degrees of bending

Media

The composition of the substance being conveyed and chemical compatibility with the hose inner core and, if applicable, the outer cover

Pressure

The maximum pressure of the system, including pressure spikes

Ends

The appropriate end connection and attachment method for the application

Delivery

Testing, quality, packaging, and delivery requirements



Waterblast / Water Jetting



Parker Parflex provides the best ultra high pressure hoses and fittings to fill the needs of the market segments that utilize water blast and water jetting technologies.

Parflex provides the power generation and refining markets with small diameter, low volumetric expansion hoses for tight routing applications, such as high pressure heat exchanger tube cleaning in petro-chemical and power plants.

polyflex hoses are also ideal for construction applications such as hydrodemolition, industrial cleaning and surface preparation.

polyflex hoses are also used in industries where water cutting is utilized — cutting through everything from chicken,

in the food processing industry, to more industrial mediums like glass and concrete.

polyflex hoses are the highest quality ultra high pressure thermoplastic hoses on the market. The new TOUGHJACKET™ design is sleeker and more durable than a PVC covered hose. See additional features on next page.

The water jetting icon above indicates hoses that are suitable for these applications. A visual index of these hoses is on pages 10-11.

Applications

- Heat exchanger tube cleaning
- Water jet cutting: metal, concrete, glass, ceramics, plastics/rubber, stone
- Surface preparation
- Deburring
- Pavement Maintenance
- Tank cleaning
- Boiler cleaning
- Paint removal
- Cooling towers
- Hydrodemolition systems
- Sewer jetting
- Ship cleaning
- Rubber removal from airport runways
- Ultra high pressure food pasteurization
- Ultra high pressure water jet surgery



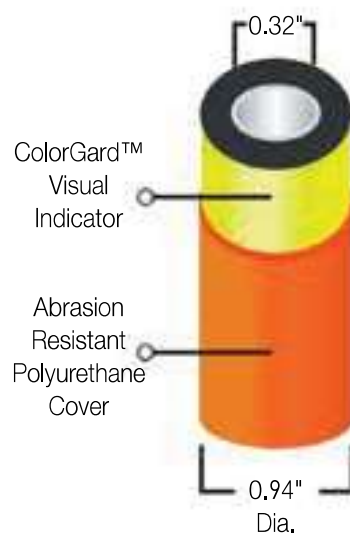
Markets

- Industrial Cleaning
- Power Generation
- Chemical Refining
- Machine Tools
- Highway Maintenance
- Construction
- Marine
- Food Processing



Built in abrasion resistance eliminates the need for an additional PVC sleeve and lightens the hose by up to 16%.

TOUGHJACKET™ Hose






Traditional Water Blast Hose with PVC Cover








Waterblast / Water Jetting






Visual Index of Waterblast / Water Jetting Hoses


2200 Series	2240D	High pressure service for tube cleaning applications such as heat exchangers / Flexible lance	2245N	High pressure service for the construction and shipbuilding industries / General industrial cleaning applications	2248D	Tube cleaning hose
		A-22		A-24		A-22



2300 Series	2380N-...W	Construction and shipbuilding industries / General industrial cleaning applications	2388N-...W	Construction and shipbuilding industries / General industrial cleaning applications
		A-26		A-30


2400 Series	2440D	High pressure heat exchanger tube cleaning	2440N	Construction and shipbuilding industries / General industrial cleaning applications	2448D	High pressure heat exchanger tube cleaning
		A-34		A-36		A-34

2500 Series	2580N	General industrial cleaning in construction and shipbuilding industries / Hydrodemolition
		A-40

2600 Series	2640D	Construction and shipbuilding industries / General industrial cleaning applications	2640N 2648N	Construction and shipbuilding industries / General industrial cleaning applications
	 A-42		 A-44	

2700 Series	2740D 2748D 2749D	Tight routing applications, such as high pressure heat exchanger tube cleaning
	 A-46	

2800 Series	2840D 2848D	Water jet cutting equipment with water only or with abrasive additives / Hydroforming	2849D	Water jet cutting equipment with water only or with abrasive additives / Hydroforming
	 A-48		 A-50	

 TOUGH JACKET Available	2440N-08
	2740D-03
	2740D-05
	2840D-03
	2840D-05
	2849D-05



The Parflex and Polyflex divisions of Parker Hannifin have been supplying a wide range of thermoplastic hose products to the oil and gas market for over 30 years.

With production plants in both the USA and Europe, supported by Parker's global sales and distribution network, customers can benefit from local service and the supply of quality parts wherever they are situated.

polyflex hoses can be used in a wide variety of Oil & Gas applications, both onshore and offshore, and are available with seawater resistant cover materials.

The Oil & Gas icon above indicates hoses with applications in the Oil & Gas industry, such as, umbilical and jumper hoses, BOP and hotline hoses, hydraulic control and testing hoses and large bore hoses for well servicing.

A visual index of Oil & Gas hoses can be found on pages 14-15.

Applications

- Umbilical Hose
- BOP Stack Hose
- Oilfield Well Service
 - Cementing
 - Chemical injection
 - Well intervention
- Gas transfer
- High volume flow rate pumping offshore
- Wireline / Grease injection
- Pressure testing
- Snubbing and hydraulic workover systems
- Nitrogen pumping
- Perforating
- Well equalization lines



Markets

- Onshore Drilling
- Offshore Drilling
- Offshore Production





Visual Index of Oil & Gas Hoses

2000 Series	2022N	Long-length hose and hose umbilicals / Oilfield pressure control devices / Offshore oil applications				
				A-20		
2200 Series	2245N	Offshore applications, including methanol injection, control fluids and well stimulation				
				A-24		
2300 Series	2380N	Long-length subsea umbilical hose	2388N	Grease injection hose	2390N	Subsea hydraulic controls/Long-length hot line hose / BOP stack control lines
						
	A-28		A-30		A-32	
2400 Series	2440N	Long-length subsea umbilical hose	2448N	Long-length subsea umbilical hose		
						
A-38		A-38				
2600 Series	2640N	Ultra high pressure umbilical hose				
					A-44	
HP Series (See pg. A-56)	HP	High Pressure Tools				
						
ChemJec	2440M	Long-length subsea umbilical hose	2448M	Long-length subsea umbilical hose	2640M	Long-length subsea umbilical hose
						
	A-68		A-68		A-68	



**Black
Eagle /
Golden
Eagle**

2240N-48V80	Cementing Hose / Water and gas injection hose / Acidizing / Mud circulation	2440N-48V80	Cementing Hose / Water and gas injection hose / Acidizing / Mud circulation
	A-62		A-62
2448N-32V80	Cementing Hose / Water and gas injection hose / Acidizing / Mud circulation	2580N-32V80	Cementing Hose / Water and gas injection hose / Acidizing / Mud circulation
	A-60		A-60
2640N-24V80	Water and gas injection hose / Acidizing / Mud circulation	2640N-48V80	Cementing Hose / Water and gas injection hose / Acidizing / Mud circulation
	A-58		A-62
2648N-32V80	Water and gas injection hose / Acidizing / Mud circulation	2240N-32V10 2248N-32V10	Cementing Hose
	A-60		A-64
2580M-32V88	Cementing Hose / Water and gas injection hose / Acidizing / Mud circulation	2640M-24V88	Cementing Hose / Water and gas injection hose / Acidizing / Mud circulation
	A-66		A-66

**HCR
Series**

HCR

Offshore oil field exploration and production applications



A-52

**Sea
Wolf**

57CR

Offshore oil field exploration and production applications



A-54

Hydraulic



Parflex also offers a number of hoses for high pressure hydraulic applications.

polyflex hoses can be used to power hydraulic tools, such as torque wrenches and bolt tensioners. They are also used on rescue equipment such as the Jaws of Life and similar tools.

Hoses can be easily bonded to create twin-line and multi-line assemblies.

Other suitable hydraulic applications include test rigs and pressure testing equipment.

The hydraulic icon above indicates hoses that are suitable for hydraulic applications. A visual index of these hoses can be found on pages 18-19.

Applications

- Rescue tools (i.e. Jaws of Life)
- Torque wrenches
- Bolt tensioners
- Pressure testing
- Power Units
- Hydraulic Jacks





Markets

- Rescue Tools
- Hydraulic Tools
- Automotive
- Airports & Military Bases
- Engineering & Test Facilities
- Manufacturers using Hydraulic Presses
- Hydraulic Service/Repair Facilities
- Construction Equipment








Visual Index of Hydraulic Hoses



2000 Series	2020N	Mini-hydraulic and gas applications/ Measuring and diagnostic systems	2022N 10K	High pressure hydraulics, pneumatics and lubricating oils / High pressure tools / Jacks / Test apparatus
	 A-18		 A-20	

2200 Series	2245N	For use with petroleum or synthetic hydraulic fluids, gas applications and compressors
	 A-24	

2300 Series	2380N	Hydraulic controls / Test systems with synthetic and phosphate ester fluids (e.g. Skydrol)	2388N	Hydraulic Jacks / Bolt tensioning
	 A-28		 A-30	
	2390N	Pressure testing / Portable hydraulic tools / Offshore hydraulic systems	 A-32	

2400 Series	2440N 2448N	For use with petroleum or synthetic hydraulic fluids, gas applications and compressors
	 A-38	

HCR Series	HCR	Offshore oil field exploration; subsea hydraulics
	 A-52	

HP Series	HP	High pressure hydraulic, pneumatic and lubricating oils / High pressure tools / Rigging jacks / Test apparatus / Oilfield pressure control devices	HP8	High pressure hydraulic, pneumatic and lubricating oils / High pressure tools / Rigging jacks / Test appara- tus / Oilfield pressure control devices / Aerial lift equipment
	 A-56		 A-56	

Notes

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