



aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



Hybrid[®]

High Performance Hydraulic Hose



ENGINEERING YOUR SUCCESS.

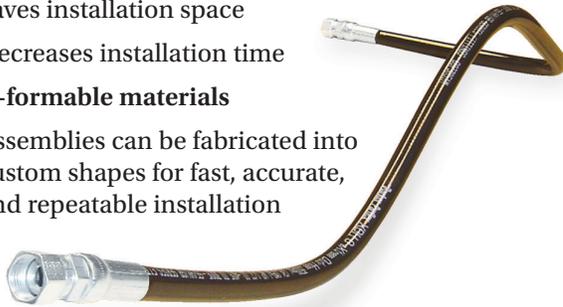
Parflex Hybrid® High Performance Hydraulic Hose

SAFETY

- **No dangerous pin-hole leaks**
 - Occasional pin-hole leaks are inherent in rubber cored hoses
 - Hybrid® hoses have thermoplastic core tubes that do not exhibit such leaks

INSTALLATION

- **Light weight**
 - Decreases installation time
- **Reduced outer diameter versus SAE requirements**
 - Saves installation space
 - Decreases installation time
- **Pre-formable materials**
 - Assemblies can be fabricated into custom shapes for fast, accurate, and repeatable installation



- **Long continuous lengths**
 - Hybrid® hose is packaged in long continuous lengths reducing unnecessary scrap and installation delays

PERFORMANCE

- **Light weight**
 - Decreases fuel consumption
- **Close dimensional consistency**
 - Results in more laminar flow characteristics
- **Better integrity in flexing and rolling applications such as rough terrain forklifts and booms**
- **Extended impulse life due to patented core/wire mechanical bond**

RELIABILITY

- **Cleanliness**
 - Standard air flush yields ISO 17/14 cleanliness
 - Cleanliness is inherent in thermoplastic core tubes
 - Erosion resistant cores maintain system cleanliness long term
- **Minimal core tube swelling does not lead to flow restrictions**
- **Strong mechanical bond between core tube and wire**
 - Excellent adhesion among layers and high tensile strength
- **Minimal length change during pressurization**
 - Ideal for long booms
 - Better length accuracy
- **No pin-hole leaks makes for a more reliable product with reduced warranty and replacement costs**



One & Two Wire Hoses

HFS Firescreen® Hose

- FIRESCREEN hose is used in high temperature (to +250° F), medium pressure hydraulic lines on mobile equipment, machine tools, farm machinery, and other industrial applications.
- All sizes of FIRESCREEN are rated at pressures and temperatures ABOVE comparable SAE 100R1 requirements.
- The compact design of FIRESCREEN hose features one braid of high-tensile steel wire reinforcement.
- Exceeds SAE 100R1AT. USCG Marine Listed.



TUBE:	Polyester
REINFORCEMENT:	One braid of high tensile steel wire
COVER:	Neoprene (MSHA accepted)
TEMPERATURE RANGE:	For use with petroleum based hydraulic oils -40° F (-40° C) and +250° F (121° C) For use with water, water based and synthetic hydraulic fluids to 135° F (57° C)

Part Number	Nom. I.D. (IN.)	Nom. O.D. (IN.)	Max. Working Pressure (PSI)	Min. Burst Pressure (PSI)	Min. Bend Radius (IN.)	Weight (LBS/100 FT.)	Permanent Fitting Series	HY Parflex Crimp Die Part Number	HY Parflex Crimp Diameter
HFS04	1/4	.50	3,000	12,000	2.0	12	HY	80C-P0580	0.570/0.590
HFS06	3/8	.66	2,500	10,000	2.5	19	HY	80C-P0740	0.730/0.750
HFS08	1/2	.77	2,500	10,000	3.5	25	HY	80C-P0845	0.835/0.855
HFS12	3/4	1.05	1,500	6,000	5.0	37	HY	80C-P1130	1.120/1.140
HFS16	1	1.35	1,250	5,000	10.0	53	HY	80C-P1395	1.385/1.405

All above Parflex tooling requires silver die ring. See Crimpsource for 43 Series Fitting Specifications.

HFS2 Firescreen II® Hose

- FIRESCREEN II hose is used in high pressure (similar to SAE 100R2) hydraulic lines on off-road construction equipment, machine tools, mining equipment and other industrial applications.
- The compact design of FIRESCREEN II features one or two braids of high tensile steel wire reinforcement.
- SAE 100R16/100R2 USCG Marine Listed.



TUBE:	Polyester
REINFORCEMENT:	One or two** braids of high tensile steel wire
COVER:	Neoprene (MSHA accepted)
TEMPERATURE RANGE:	For use with petroleum based hydraulic oils -40° F (-40° C) and +212° F (100° C) For use with water, water based and synthetic hydraulic fluids to 135° F (57° C)

Part Number	Nom. I.D. (IN.)	Nom. O.D. (IN.)	Max. Working Pressure (PSI)	Min. Burst Pressure (PSI)	Min. Bend Radius (IN.)	Weight (LBS/100 FT.)	Permanent Fitting Series	HY Parflex Crimp Die Part Number	HY Parflex Crimp Diameter
HFS204**	1/4	.57	5,000	20,000	2.0	21	HY	80C-P0625	0.615/0.635
HFS206	3/8	.68	4,000	16,000	2.5	23	HY	80C-P0740	0.730/0.750
HFS208	1/2	.82	3,500	14,000	3.5	29	HY	80C-P0870	0.860/0.880
HFS210	5/8	.97	2,750	11,000	4.0	38	HY	80C-P1015	1.005/1.025
HFS212	3/4	1.10	2,250	9,000	4.75	45	HY	80C-P1150	1.140/1.160
HFS216**	1	1.45	2,000	8,000	6.0	80	HY	80C-P1450	1.440/1.460

All above Parflex tooling requires silver die ring. See Crimpsource for 43 Series Fitting Specifications.
For detailed ordering information and stock availability, please consult your Parker representative or the Parflex Division.

3000 PSI Constant Pressure Hoses with Extensive Choice of Jackets

D6 Hose (Standard Rubber Cover)

- 3000 PSI constant pressure.
- D6 hose is used in many medium pressure hydraulic applications where a maximum 3000 PSI working pressure is required.
- Features one or two compact braids of high tensile steel wire braid reinforcement.
- Ideally suited for inventory consolidations to cover all SAE 100R1 pressure and many SAE 100R2 pressure requirements. Exceeds SAE 100R17 requirements.



TUBE: Polyester
REINFORCEMENT: One or two** braids of high tensile steel wire
COVER: Neoprene (MSHA accepted)
TEMPERATURE RANGE: For use with petroleum based hydraulic oils -40° F (-40° C) and +250° F (121° C)
 For use with water, water based and synthetic hydraulic fluids to 135° F (57° C)

Part Number	Nom. I.D. (IN.)	Nom. O.D. (IN.)	Max. Working Pressure (PSI)	Min. Burst Pressure (PSI)	Min. Bend Radius (IN.)	Weight (LBS/100 FT.)	Permanent Fitting Series	HY Parflex Crimp Die Part Number	HY Parflex Crimp Diameter
D604	1/4	.50	3,000	12,000	2.0	12	HY	80C-P0580	0.570/0.590
D605	5/16	.58	3,000	12,000	2.3	17	HY	Consult Factory	Consult Factory
D606	3/8	.66	3,000	12,000	2.5	23	HY	80C-P0740	0.730/0.750
D608	1/2	.80	3,000	12,000	3.5	29	HY	80C-P0870	0.860/0.880
D610**	5/8	1.00	3,000	12,000	4.0	47	HY	80C-P1045	1.035/1.055
D612**	3/4	1.18	3,000	12,000	4.8	73	HY	80C-P1220	1.210/1.230
D616**	1	1.48	3,000	12,000	6.0	101	HY	80C-P1525	1.515/1.535

All above Parflex tooling requires silver die ring. See Crimpsource for 43 Series Fitting Specifications.

H6 Hose (Polyester for Better Abrasion Resistance)

- H6 features the largest temperature range in a medium pressure hydraulic hose.
- Low length change capability under pressure.
- Features one or two braids of high tensile steel wire braid reinforcement.
- Exceeds SAE 100R17 requirements.



TUBE: Polyester
REINFORCEMENT: One or two** braids of high tensile steel wire
COVER: Polyester
TEMPERATURE RANGE: For use with petroleum based hydraulic oils -70° F (-57° C) and +250° F (121° C)
 (-50° F to +250° F for H610 and H612)
 For use with water, water based and synthetic hydraulic fluids to 135° F (57° C) (all sizes)

Part Number	Nom. I.D. (IN.)	Nom. O.D. (IN.)	Max. Working Pressure (PSI)	Min. Burst Pressure (PSI)	Min. Bend Radius (IN.)	Weight (LBS/100 FT.)	Permanent Fitting Series	HY Parflex Crimp Die Part Number	HY Parflex Crimp Diameter
H604	1/4	.48	3,000	12,000	2.0	12	HY	80C-P0550	0.540/0.560
H605	5/16	.55	3,000	12,000	2.3	14	HY	80C-P0635	0.625/0.645
H606	3/8	.64	3,000	12,000	2.5	19	HY	80C-P0705	0.695/0.715
H608	1/2	.77	3,000	12,000	3.5	29	HY	80C-P0845	0.835/0.855
H610**	5/8	.99	3,000	12,000	4.0	47	Consult Factory	80C-P1045	1.035/1.055
H612**	3/4	1.16	3,000	12,000	4.8	69	HY	80C-P1195	1.185/1.205

All above Parflex tooling requires silver die ring.
 For detailed ordering information and stock availability, please consult your Parker representative or the Parflex Division.

3000 PSI Constant Pressure Hoses with Extensive Choice of Jackets

563 Hose (Urethane – For Best Abrasion Resistance)

- 563 Hose is an industrial medium pressure hydraulic hose for use with petroleum, water base and synthetic hydraulic fluids, gases and some solvents and chemical solutions.
- Features a seamless thermoplastic inner tube reinforced with one layer of high tensile steel wire braid and an abrasion and weather resistant thermoplastic cover.
- Exceeds SAE 100R17 requirements.



TUBE: Polyester
REINFORCEMENT: High tensile steel wire braid
COVER: Urethane (MSHA accepted)
TEMPERATURE RANGE: For use with petroleum based hydraulic oils and gases . . . -40° F (-40° C) and +250° F (121° C) (563-4 and 563-6)
 For use with petroleum based hydraulic oils -40° F (-40° C) and +212° F (100° C) (563-8)
 For use with water, water based and synthetic hydraulic fluids -40° F (-40° C) and +135° F (57° C) (all sizes)

Part Number	Nom. I.D. (IN.)	Nom. O.D. (IN.)	Max. Working Pressure (PSI)	Min. Burst Pressure (PSI)	Min. Bend Radius (IN.)	Weight (LBS./100 FT.)	Permanent Fitting Series	HY Parflex Crimp Die Part Number	HY Parflex Crimp Diameter
563-4	1/4	0.48	3,000	12,000	2.0	11.9	HY	80C-P04J	0.535/0.555
563-6	3/8	0.63	3,000	12,000	2.5	18.9	HY	80C-0715	0.705/0.725
563-8	1/2	0.77	3,000	12,000	3.5	28.5	HY	80C-0845	0.835/0.855

All above Parflex tooling requires silver die ring.

R6 Abrasion King® Hose

(With Added Nylon Braid Over Rubber Cover – For Extreme Abrasion Resistance)

- R6 hose is used for medium pressure hydraulic equipment where superior abrasion resistance is required
- Features one or two braids of high tensile steel wire braid reinforcements.
- Exceeds SAE 100R17 requirements



TUBE: Polyester
REINFORCEMENT: One or two** braids of high tensile steel wire
COVER: Nylon yarn
TEMPERATURE RANGE: For use with petroleum based hydraulic oils -50° F (-46° C) and +250° F (121° C) (R604 through R610)
 For use with petroleum based hydraulic oils -50° F (-46° C) and +212° F (100° C) (R612 and R616)
 For use with water, water based and synthetic hydraulic fluids to +135° F (57° C) (all sizes)

Part Number	Nom. I.D. (IN.)	Nom. O.D. (IN.)	Max. Working Pressure (PSI)	Min. Burst Pressure (PSI)	Min. Bend Radius (IN.)	Weight (LBS./100 FT.)	Permanent Fitting Series	HY Parflex Crimp Die Part Number	HY Parflex Crimp Diameter
R604	1/4	0.53	3,000	12,000	2.0	11	CY-HY	80C-P0570	0.560/0.580
R606	3/8	0.69	3,000	12,000	2.5	20	HY	80C-P0740	0.730/0.750
R608	1/2	0.84	3,000	12,000	3.5	27	HY	80C-P0870	0.860/0.880
R610**	5/8	1.09	3,000	12,000	4.0	51	HY	80C-P1100	1.090/1.110
R612**	3/4	1.24	3,000	12,000	4.8	71	HY	80C-P1245	1.235/1.255
R616**	1	1.55	3,000	12,000	6.0	100	43	Consult Factory	Consult Factory

All above Parflex tooling requires silver die ring.

For detailed ordering information and stock availability, please consult your Parker representative or the Parflex Division.

High Pressure Hoses

M8 E-Z Flex® Hose

- 4000 PSI constant pressure.
- E-Z FLEX hose is used for high pressure hydraulic applications where spiral wire reinforced hose might normally be used.
- Because of high quality materials and a unique manufacturing process, E-Z FLEX offers four-spiral wire hose performance in a high tensile two-wire braid construction, with a constant 4000 PSI working pressure in each size.
- Provides excellent flexibility, consistent long length patterns, and cost savings versus comparable SAE 100R9 and SAE 100R12 spiral wire reinforced hoses.
- Available in inside diameters from 3/8" to 5/8".



TUBE:	Polyester
REINFORCEMENT:	Two braids of high tensile steel wire
COVER:	Neoprene (MSHA accepted)
TEMPERATURE RANGE:	For use with petroleum based hydraulic oils -40° F (-40° C) and 250° F (121° C) For use with water, water based and synthetic hydraulic fluids to 135° F (57° C)

Part Number	Nom. I.D. (IN.)	Nom. O.D. (IN.)	Max. Working Pressure (PSI)	Min. Burst Pressure (PSI)	Min. Bend Radius (IN.)	Weight (LBS/100 FT.)	Permanent Fitting Series	43 Series Crimp Die Part Number	43 Series Parflex Crimp Diameter
M806	3/8	.74	4,000	16,000	2.5	37	43	80C-M0850	0.840/0.860
M808	1/2	.88	4,000	16,000	3.5	46	43	80C-M1010	1.000/1.020
M810	5/8	1.05	4,000	16,000	4.0	63	43	80C-M1170	1.160/1.180

All above Parflex tooling requires silver die ring.

HTB Eliminator® Hose

- ELIMINATOR hose is used for high pressure hydraulic applications where spiral wire reinforced hose might normally be used.
- Because of high quality materials and a unique manufacturing process, ELIMINATOR offers four-spiral wire hose performance in a high tensile two-wire braid construction.
- Provides excellent flexibility, consistent long length patterns, and cost saving opportunities versus comparable SAE 100R9 and SAE 100R12 spiral wire reinforced hoses.
- USCG Marine Listed.
- Available in inside diameters from 1/4" to 1".
- HTB HOSE REQUIRES "A" SERIES PARKER DIES AND BLACK DIE RING.



TUBE:	Polyester
REINFORCEMENT:	Two braids of high tensile steel wire
COVER:	Neoprene (MSHA accepted)
TEMPERATURE RANGE:	For use with petroleum based hydraulic oils -40° F (-40° C) and +212° F (100° C) For use with water, water based and synthetic hydraulic fluids to 135° F (57° C)

Part Number	Nom. I.D. (IN.)	Nom. O.D. (IN.)	Max. Working Pressure (PSI)	Min. Burst Pressure (PSI)	Min. Bend Radius (IN.)	Weight (LBS/100 FT.)	Permanent Fitting Series	43 Series Crimp Die Part Number	43 Series Parflex Crimp Diameter
HTB04	1/4	.60	7,000	28,000	4.0	27	BW-HY	Consult Factory	Consult Factory
HTB06	3/8	.74	5,500	22,000	6.0	37	43	80C-A06	0.865/0.885
HTB08	1/2	.88	5,000	20,000	7.0	46	43	80C-A08	0.985/1.005
HTB10	5/8	1.01	4,000	16,000	8.0	52	43	80C-A10	1.100/1.120
HTB12	3/4	1.18	4,000	16,000	9.5	73	43	80C-A12	1.285/1.305
HTB16	1	1.48	3,500	14,000	12.0	101	43	80C-A16	1.630/1.650

HTB Eliminator uses black die ring.

For detailed ordering information and stock availability, please consult your Parker representative or the Parflex Division.

† HY approved with skived jacket only. Contact Parflex.

Spiral Guard™ Hose and Cable Protection

Parflex® Spiral Guard™ provides the superior solution for bundling, organizing and protecting hose and cable, especially for mining operations.

Spiral Guard offers high abrasion protection, excellent bend radius and easy installation without removing the hose from equipment. The resilient Spiral Guard features an exceptionally smooth facing and rounded edges to prevent catching on rough surfaces.

Spiral Guard protection is available for hose O.D. sizes from 12 to over 150 mm in both an MSHA/FRAS approved version for underground mining and a standard version for surface applications not requiring fire-resistant, anti-static properties.

For additional product information, reference Parker Bulletin # 4660-PSGM.



MiniKrimp™ Crimper

At just 35 pounds, the Parker MiniKrimp™ is the lightest and fastest low-cost portable crimper on the market. The MiniKrimp™ provides the capability for factory-style hose assemblies on the job site or in the plant in seconds. The exclusive Parkalign™ feature correctly positions the fitting every time, while the utilized drive train keeps the segments in place.

The base unit is available with a number of options, including an air-over-hydraulic power unit, and brackets for bench or vise mounting.

For additional product information, reference Parker Bulletin # 4660-MK1.

Crimp information can be found online for most Parker products at www.parker.com/crimpsource.



WARNING

Parker products are part of an engineered system which must be assembled and used in accordance with Parker instructions and limitations. Parker hose, fittings and assembly equipment are designed into an effective and reliable assembly system and the use of other than Parker products may produce hose assemblies that will not meet rated performance. Failure to follow Parker instructions and precautions could lead to premature hose failures resulting in property damage, serious injury, or death.

DANGER

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

Before selecting or using any Parker hose or fittings or related accessories, it is important that you read and follow Parker Safety Guide for Selecting and Using Hoses, Fittings and Related Accessories (Parker Publication No. 4400 •B.1).

Parker Fluid Connectors

Regional Sales Offices & Service Centers

Your complete source for quality tube fittings, hose & hose fittings, brass fittings & valves, quick-disconnect couplings, and assembly tools, locally available from a worldwide network of authorized distributors.

Fittings:

Available in inch and metric sizes covering SAE, BSP, DIN, GAZ, JIS and ISO thread configurations, manufactured from steel, stainless steel, brass, aluminum, nylon and thermoplastic.

Hose, Tubing and Bundles:

Available in a wide variety of sizes and materials including rubber, wire-reinforced, thermoplastic, hybrid and custom compounds.

Worldwide Availability:

Parker operates Fluid Connectors manufacturing locations and sales offices throughout North America, South America, Europe and Asia-Pacific.

For information, contact the nearest Regional Sales office listed, or **call toll free...**

1-800-C-PARKER
(1-800-272-7537)

Central Region **Sales Office & Service Center**

Hiawatha, IA
phone (319) 393-1221
fax (319) 393-1224

Cleveland Region **Sales Office**

Cleveland, OH
phone (216) 896-2404
fax (216) 896-4022

Service Center
Toledo, OH
phone (419) 878-7000
fax (419) 878-7001
fax (419) 878-7420
(FCG Kit Operations)

Service Center
Louisville, KY
phone (502) 937-1322
fax (502) 937-4180

Great Lakes Region
Sales Office
Otsego, MI
phone (269) 694-2550
fax (866) 498-7507

Minneapolis Region
Sales Office
Minneapolis, MN
phone (763) 513-3535
fax (763) 544-3418
Service Center
Minneapolis, MN
phone (952) 469-5000
fax (952) 469-5729

Northeast Region **Sales Office & Service Center**

Trenton, NJ
phone (609) 586-5151
fax (609) 586-6081

Pacific Region **Sales Office & Service Center**

Portland, OR
phone (503) 283-1020
fax (503) 283-2201
Service Center
Buena Park, CA
phone (714) 522-8840
fax (714) 994-1183

Southeast Region
Service Center
Conyers, GA
phone (770) 929-0330
fax (770) 929-0230

Southwest Region
Sales Office
phone (817) 473-4431
fax (817) 453-8022

Canada
Sales Office & Service Center
Grimsby, ONT
phone (905) 945-2274
fax (905) 945-3946
(Contact Grimsby for other Service Center locations.)

