



Hose, Fittings, and Equipment

Quick Reference Guide

Bulletin 4400-B13
May 2007



Make the Right Connection

At Parker's Hose Products Division, we believe the best hose for your operation is the one that gets the job done right. We offer the most comprehensive line of hoses and all the fittings and options you'll need.

The right hose is available for your application including hoses featuring:

- A variety of abrasion resistant cover choices
- Maximum flexibility
- A wide range of media compatibility
- Hoses made specifically for high and low temperatures, excellent bendability and abrasive environments

These characteristics make Parker the hose supplier of choice for:

- Construction Equipment
- Mobile Hydraulic Systems
- Agricultural Machinery
- Forestry Equipment
- Materials Handling
- Machinery
- Injection Molding
- Automotive Plants
- And many other applications



Your Global Resource

We have global resources to help keep your operations running. From manufacturing sites throughout the U.S. and around the world to ParkerStores – our retail locations that provide a complete hose and fittings inventory – to the Hose Doctors – Parker's premier mobile service program that provides 24/7 service and technical troubleshooting to get you up and running again.



Your Partner for Success

From help with product selection to creating a custom project specifically for your needs, our team of Parker professionals is ready to assist you with engineering support, fluid connector systems design and more.

We offer the broadest range of hoses and fittings and look forward to helping you find the right solution for your application.



Hose Selection

Hydraulic Hose

BRAIDED



Offering superior flexibility, these hoses are constructed with a textile braid reinforcement. For use with petroleum-based fluids, diesel fuel, hot lubricating oil, air, ethylene glycol anti-freeze and water.

Product 601, 422, 426, AX, 482TC, 482ST, BXX, 431, 436, 451TC, 451ST, 302, 471TC, 471ST, 472ST, 351TC, 351ST
 Sizes 3/16" through 2" I.D.
 Pressure 575 through 5000 psi

SPIRAL



Constructed with four- or six-spiral reinforcement. For use with petroleum based, water/glycol hydraulic fluids.

Product 341, 701, 711, 721, 721TC, 721ST, 731, 761, 772TC, 772ST, 781, 782TC, 782ST, 791TC, 792TC, 792ST, P35
 Sizes 3/8" through 2" I.D.
 Pressure 2500 through 8000 psi

SPECIALTY

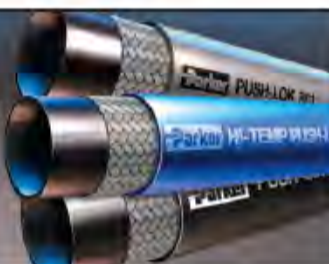


For a variety of uses and media including, phosphate ester fluids, to high and low temperature, automotive, to static, to non-impulse hydraulic jacks to fire resistant covers.

Product JK, 304, 421WC, 424, 301LT, 604, 774, 804, 821FR, F42
 Sizes 1/4" through 2" I.D.
 Pressure 150 through 10500 psi

Push-Lok® Hose

PUSH-LOK®



For shop air, pneumatically operated systems, general industrial applications, and automotive applications such as water, lubricating oils, and antifreeze.

Product 801, 804, 821, 821FR, 831, 836
 Sizes 1/4" through 1" I.D.
 Pressure Up to 350 psi
 Colors: Gray, Red, Yellow, Blue, Green, Black, Brown

Suction and Return Hose

SUCTION & RETURN



Constructed with a helical wire spiraled throughout textile reinforcement to prevent collapse under vacuum. Ideal for both standard and high-temperature applications.

Product 811, 811HT, 881
 Sizes 3/4" through 2-1/2" I.D.
 Pressure Up to 300 psi

Transportation Hose

TRANSPORTATION



For marine fuel lines, L.P.G. and C.N.G. hose, and truck applications such as power steering, cab tilt, air intake, diesel fuel, air brake and lube line systems.

Product SS23CG, SS25UL, 201, 206, 213, 221FR, 225, 266, 271, 293, 436
 Sizes 3/16" through 3" I.D.
 Pressure Up to 4000 psi

Refrigerant Hose

REFRIGERANT



For air conditioning and refrigeration system applications.

Product 244, 285
 Sizes 3/16" through 1-3/8" I.D.
 Pressure Up to 500 psi

Pressure Chart

When considering hose pressure, it's important to know both the system working pressure and any surge pressures and spikes. Hose selection must be made so that the published maximum working pressure of the hose is equal to or greater than the maximum system pressure. Surge pressures or peak transient pressures in the system must be below the published maximum working pressure for the hose.

Each Parker hose has a pressure rating which can be found on this Hose Overview Chart.

Hose Size	Hose Reinforcement	Working Pressure (psi)													Standard Temp. Range °F	SAE	ISO	EN	Page	
		-3	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32	-40	-48						
601	2-braids, fiber		1250		1125	1000		750	565							-40/+257	100R3	4079-1-R3		A-8
422	1-braid, wire		3250	3125	2600	2325	1875	1525	1275	900	725	575				-40/+212	100R1AT	1436-1-1SN		A-8
424	1-braid, wire								1000	625	500	375				-40/+176	100R1AT			A-8
421WC	1-braid, wire		2750		2250	2000		1250	1000							-40/+257				A-9
426	1-braid, wire		2750		2250	2000	1500	1250	1000	625	500	375				-50/+302	100R1AT			A-9
AX	1-braid, wire		3000		3000	2500	1500	1250	1000							-40/+212				A-9
482TC/ST	1-braid, wire		3250	3250	3000	2500	2000	1750	1275							-40/+212	100R1AT	1436-1-1SN	853-1SN	A-10
BXX	2-braids, wire		5000		4000	3500	2750	2250	2000							-40/+212	100R2AT			A-10
431	2-braids, wire		5000	4250	4000	3500	2750	2250	2000							-40/+257	100R16			A-11
436	2-braids, wire				4000	3500	2750	2250	2000							-55/+302	100R16			A-11
304	2-braids, wire		5000		4000	3500		2250	2000	1625	1250	1125				-40/+176				A-11
301LT	2-braids, wire		5000		4000	3500		2250	2000							-67/+212	100R2AT			A-12
451TC/ST	1-braid, wire		3000		3000	3000	3000	3000	3000	3000						-40/+212	100R17			A-12
341	4-spiral, wire				4500	4000		3000	3000	2500						-40/+212	100R9AT			A-12
302	2-braids, wire		5800	5000	4750	4000	3600	3100	2400	1800	1300	1150				-40/+212	100R2AT	1436-1-2SN		A-13
471TC/ST	2-braids, wire		5800		5000	4250	3625	3125	2500							-40/+212		11237-1-2SC	857-2SC	A-13
472TC	2-braids, wire									2250	1800	1300				-40/+212				A-13
351TC/ST	2-braids, wire		4000	4000	4000	4000	4000	4000								-40/+212				A-14
721/721TC	4-spiral, wire				4000	4000	4000	4000	4000	3000	2500	2500				-40/+257	100R12	3862-1-R12	856-R12	A-14
721ST	4-spiral, wire				4000	4000	4000	4000	4000	3000						-40/+257	100R12	3862-1-R12	856-R12	A-14
772TC/ST	4-spiral, wire				4000	4000	4000	4000	4000	3000	2500	2500				-40/+257	100R12	3862-1-R12	856-R12	A-15
774	4-spiral, wire							4000	4000	3000	2500	2500				-40/+176				A-15
711	4-spiral, wire										3000	3000				-40/+212	100R11			A-15
781/P35	4/6-spiral, wire							5000	5000	5000	5000	5000				-40/+257	100R13	3862-1-R13	856-R13	A-16
782TC/ST	4/6-spiral, wire							5000	5000	5000	5000					-40/+257	100R13	3862-1-R13	856-R13	A-16
701	4-spiral, wire				6500	6000	5000									-40/+212		3862-1-4SP	856-4SP	A-17
731	4-spiral, wire							6000	5500	4700	4200	3600				-40/+212		3862-1-4SH	856-4SH	A-17
791TC	4/6-spiral, wire							6000	6000	6000	6000					-40/+257	100R15	3862-1-R15		A-18
792TC/ST	4/6-spiral, wire							6000	6000	6000						-40/+257	100R15	3862-1-R15		A-18
761	6-spiral, wire							8000								-40/+257				A-19
JK	2-braids, wire		10500		10000											-40/+120				A-19
811/811HT with HC	1-braid, 1-spiral wire							100	70	50	50	50	62			-40/+212	100R4			A-20
881 with HC	2-braids, 1-spiral wire							100	70	50	50	50	62			-40/+257	100R4			A-21
811/811HT with 81	1-braid, 1-spiral wire							300	250	200	150	100	62			-40/+212	100R4			A-20
881 with 43/81/DB	2-braids, 1-spiral wire							300	250	200	150	100	62			-40/+257	100R4			A-21
804	1-braid, fiber		150		150	150		150								-40/+176				A-22
801	1-braid, fiber		250		250	250	250	250	175							-40/+212				A-22
836	1-braid, fiber		250		250	250	250									-55/+302				A-22
821	1-braid, fiber		350		300	300	250	250								-40/+212				A-23
821FR	1-braid, fiber		350		300	300	250	250								-40/+212				A-23
831	1-braid, fiber		350		300	300	300	300								-40/+212				A-23
271	1-braid, fiber				225	225										-50/+212	J1402 A			A-24
SS23CG	1-braid, wire				350	350	350	350								-40/+250				A-24
SS25UL	1-braid, wire		350	350	350	350	350	350								-40/+250				A-24
293	1-braid, fiber		500		500	500	450	450	450							-58/+302	J1402 AI			A-25
221FR	1-braid, wire			500	500	500	500	500	500							-4/+212	J1527 R3/J1942	7840		A-25
213	1-braid, wire		2000	1500	1500	1250	1000	750	400	300	300	200				-50/+302	J1402 AI			A-26
266	1-braid, wire		2000	1500	1500	1250	1250	750	400	300	250					-55/+302	J1402 AII			A-26
201	1-braid, wire		3000	3000	2250	2000	1750	1500	800	625	500	350	350	200		-40/+302	100R5/ J1402 AII			A-27
206	1-braid, wire		3000	3000	2250	2000	1750	1500	800	625	500	350	350			-55/+302	100R5/ J1402 AII			A-27
225	1-braid, wire		3000	3000	2250	2000	1750	1500	800	625	500	350				-40/+212				A-28
285	1-braid, wire		500		500	500	500	500								-22/+257	J2064 Type C			A-29
244	1-braid, wire								500	500	500					-22/+257	J2064 Type B Class 1			A-29

Fitting Selection

Flanges



Available in SAE Code 61, SAE Code 62, DIN, ISO and Caterpillar® specification. Flanges come in an array of bent tube configurations and sizes.

Material Steel
 Sizes 1/2" through 2-1/2"
 Pressure Up to 6000 psi

Seal Lok®



Designed with a flat face and O-ring to create the optimal seal for leak-free hydraulic applications.

Material Steel and stainless steel
 Sizes 1/4" through 1-1/2"
 Pressure Up to 6000 psi

Metric



Fittings are available in DIN, BSP, ISO, French and JIS standards.

Material Steel
 Sizes 1/8" / 3 mm through 2" / 38 mm
 Pressure Up to 9000 psi

JIC 37° and SAE 45°



Flared fittings come in shapes and sizes to meet your connection requirements.

Material: Steel, brass and stainless steel
 Sizes 1/4" through 2"
 Pressure Up to 6000 psi

SAE 100R5



Fittings available in shapes and sizes that meet most SAE 100R5 hose and air conditioning hose applications.

Material: Steel and brass
 Sizes 3/16" through 1-13/16"
 Pressure Up to 3000 psi

SAE Straight Thread



Fittings provide leak-free port connections—the threads hold the fitting in place while the O-ring creates the seal.

Material: Steel
 Sizes 1/4" through 2"
 Pressure Up to 6000 psi

Pipe Fittings



Fittings create a metal-to-metal seal. Threads of the fitting mate with the threads of the connecting port or coupling.

Material: Steel, brass and stainless steel
 Sizes 1/8" through 2"
 Pressure Up to 10000 psi

Accessories:



Spring Guard & Armor Guard: Constructed from steel and designed to prolong the life of your hose lines that are exposed to rugged operation conditions.



PolyGuard & Parkoil: Protect and bundle your hoses with these spiral guards that minimize kinking and cannot rust. Both the PolyGuard and Parkoil install without removing the hose.



Partek: Nylon woven protective sleeving gives you tough hose abrasion resistance with two versions of coverage – standard "AS" and a lighter "PS"—both providing protection and bundling capability.



Firesleeve: A flame-resistant sheath that protects your hose from extreme high temperature conditions.
Strain Relievers: Help prevent the hose from bending too close to the fitting and remove stress from the end of the crimp.

Equipment



Karrykrimp

Weighing only 54 pounds, the Karrykrimp's compact design is easily portable and comes standard with a hand pump.

Capability: Through 1-1/4" SAE 100R2

Full cycle time: 30 seconds with electric pump

Power source: Choice of Enerpac power units



Parkrimp 1

Parker's most popular bench-mounted unit is designed for easy and quick hose assembly fabrication. Power unit, dies and die rings are standard.

Capability: Through 1-1/4" SAE 100R2

Full cycle time: 20 seconds

Power source: 115 volt power unit



Karrykrimp 2

The Karrykrimp 2 is designed for portability and increased crimping ability for stainless steel fittings. A two-stage hand pump, electric, air/hydraulic or battery-powered unit is available to power the unit.

Capability: Through 1-1/4" SAE100R12 Through 1" SAE 100R13
Will crimp stainless-steel fittings

Full cycle time: 60 seconds-electric pump

Power source: Enerpac power units



PHastkrimp

The fastest cycling bench-mounted crimper on the market. The PHastkrimp crimps both stainless steel and steel fittings. It comes standard with your choice of power units as listed, plus two die rings.

Capability: Through 1-1/4" 4-spiral (SAE 100R12).

Through 1" 6 spiral (SAE 100R13). Will crimp stainless-steel fittings

Full cycle time: 6 seconds

Power source: 230 3-phase or 230V 1-phase



Superkrimp

Heavy-duty, bench-mounted crimpers crimps both steel and stainless steel fittings. Superkrimp comes standard with your choice of power units as listed.

Capability: Through 2" SAE 100R2

Full cycle time: 20 seconds

Power source: 230/460V 3-phase or 230V 1-phase



Parkrimp 2

This heavy-duty, floor-mounted machine crimps a full range of Parker hoses through 2". Die kit, tooling, stand and choice of listed power units are standard.

Capability: Through 2" 6-spiral (SAE 100R13).

Through 1-1/4" 6 spiral (SAE 100R15). Will crimp all stainless-steel fittings.

Full cycle time: 30 seconds

Power source: 230/460V 3-phase or 230V 1-phase

Custom Tube Fabrication

Custom Manufacturing Capabilities:

Markets are shifting to replacing sections of hose with hard plumbing. These custom projects can include tube fabrication and fittings not found anywhere else. Using custom tube and compound assemblies can reduce your overall costs and eliminate warranty issues. Completely custom products are available from a dedicated Parker Hose Products Division facility.

Using standard Parker hoses, fittings and tubing, our experts create custom tube and compound assemblies that exactly match your specifications to provide increased durability and reliability.

Organized to provide fast quotes and highly responsive service, our Custom Manufacturing department can produce a single critical piece or production quantities to meet your needs, quickly and efficiently.

Contact our staff to talk about creating the best in customized, leak-free assemblies for your needs. Call:

1-888-882-1202 Fittings
- or -
1-866-703-8823 Tube Fabrication



Custom Kits

Want to speed things up on the factory floor? Try a Parker custom kit. Fittings, adapters, pre-made assemblies...we can get it all together in a kit. In the exact order and quantities you need. What's the advantage? Streamlined procedures. Quicker assembly. Lower costs. And an single part number for easier processing.

Kit Operations
Phone: (419) 878-7000
Fax: (419) 878-7420



Offer Of Sale

The items described in this document are hereby offered for sale by Parker Hannifin Corporation, its subsidiaries or its authorized distributors. This offer and its acceptance are governed by the provisions stated in the "Offer of Sale."



Parker Safety Guide for Selecting and Using Hose, Tubing, Fittings and Related Accessories

Parker Publication No. 4400-B.1
Revised: May, 2002

WARNING: Failure or improper selection or improper use of hose, tubing, fittings, assemblies or related accessories ("Products") can cause death, personal injury and property damage.

PERSONAL INJURY AND PROPERTY DAMAGE

- Fittings thrown off at high speed.
- High velocity fluid discharge.
- Explosion or burning of the conveyed fluid.
- Electrocution from high voltage electric powerlines.
- Contact with suddenly moving or falling objects that are controlled by the conveyed fluid.
- Injections by high-pressure fluid discharge.
- Dangerously whipping Hose.
- Contact with conveyed fluids that may be hot, cold, toxic or otherwise injurious.
- Sparking or explosion caused by static electricity buildup or other sources of electricity.
- Sparking or explosion while spraying paint or flammable liquids.
- Injuries resulting from inhalation, ingestion or exposure to fluids.

Before selecting or using any of these Products, it is important that you read and follow the instructions. Only Hose from Parker's Stratoflex Products Division is approved for in flight aerospace applications, and no other Hose can be used for such in flight applications.

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 & Couplings:

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
(319) 393-1221
(319) 393-1224 FAX

Cleveland Region

Sales Office

Cleveland, OH
(216) 896-2404
(216) 896-4022 FAX

Service Center

Toledo, OH
(419) 878-7000
(419) 878-7001 FAX
(419) 878-7420 (FCG Kit
Operations) FAX

Great Lakes Region

Sales Office

Otsego, MI
(269) 694-2550
(269) 692-6634 FAX

Louisville Service Center

Louisville, KY
(502) 937-1322
(502) 937-4180 FAX

Minneapolis Region

Sales Office

(763) 513-3535
(763) 544-3418 FAX

Service Center

Minneapolis, MN
(952) 469-5000
(952) 469-5729 FAX

Service Center

Oshkosh, WI
(920) 426-8471
(920) 426-8570

Northeast Region

Sales Office

Trenton, NJ
(609) 586-5151
(609) 586-3149 FAX

Pacific Region

Sales Office & Service Center

Portland, OR
(503) 283-1020
(503) 283-2201 FAX

Service Center

Buena Park, CA
(714) 522-8840
(714) 994-1183 FAX

Southeast Region

Sales Office

Greensboro, NC
(336) 373-1761
(336) 373-9069 FAX for Sales Office

Service Center

Conyers, GA
(770) 929-0330
(770) 929-0230 FAX

Southwest Region

Sales Office

Mansfield, TX
(817) 473-4431
(817) 453-8022 FAX

Canada

Sales Office & Service Center

Grimsby, ONT
(905) 945-2274
(905) 945-3946 FAX

**(Contact Grimsby for other
Service Center locations.)**



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