



Hose, Fittings, and Equipment

Quick Reference Guide



ENGINEERING YOUR SUCCESS.

Durable Hydraulic Hoses

At Parker, we believe the best fluid connector products for your operation are the ones that get the job done right.

We offer the most comprehensive line of hoses, fittings, equipment and accessories you'll need. And if there's something you need that's not a standard product, we're able to design and manufacture it for you with ease.



You'll also benefit from our ultimate competitive advantage – our network of distribution outlets that can provide our products nearly anytime and anywhere. We strive to provide customers with local engineering, local products and local service.

Parker offers the largest selection of hoses plus more fitting sizes than any other manufacturer. You'll find a wide variety of hoses including braided, spiral and multi-purpose, and more than 4,500 Parkrimp fittings. Parker products have been

designed, tested and approved to meet and exceed global standards.

The right product is available for your application, including hose that features a variety of abrasion-resistant cover choices, flexibility, a wide range of media compatibility and more – characteristics that make Parker the hose supplier of choice for customers that demand the most from their equipment.

Five Hoses. Two Fittings. One Solution.

GLOBALCORE™

Providing a simple solution of robust hydraulic hoses designed to endure the tough conditions where work gets done, it is the future that OEMs and end users around the world have been asking for.

Designed, built and tested to the ISO 18752 specification, GlobalCore stands above the competition and reduces engineering and service complexity by providing the first simple and comprehensive product family across the most commonly used constant working pressure classes.

GlobalCore hoses are manufactured in the major regions of the world – North America, Europe and Asia – supporting the equipment they serve, regardless of where it was originally manufactured, or where it is today. Parker's worldwide reach also makes GlobalCore easier to specify and source through our unrivaled industrial distribution network of 13,000 locations globally.

The GlobalCore family is available in

21 MPa	28 MPa	35 MPa	42 MPa
3,000 psi	4,000 psi	5,000 psi	6,000 psi



Comprehensive Services



PARKER TRACKING SYSTEM (PTS)

Parker Tracking System (PTS) is an innovative component-tagging and asset management solution. In addition to labeling components, users can document, replace, track, inspect, plan and analyze key equipment data with PTS.

www.parker.com/pts



MOBILE APP

HoseFinder is an app that allows you to search the entire catalog of products from Parker's HPD, IHP and PFD divisions quickly and efficiently. Narrow down precisely what you need with the STAMP process, or browse thousands of products by category.

www.hosefinder.com



PARKER STORES

ParkerStores are a global network of independently-owned industrial retail operations with more than 3,000 service points around the world. Whether it's through a brick-and-mortar location or from one of our mobile Hose Doctor operators, Parker is your best bet for on-the-job help.

www.parkerstore.com



HOSE CLEANING SERVICES

Parker offers hose cleaning services in order to protect the life of hose assemblies from dirt and debris, which can cause unwanted hose failures. A pellet flushing system is used after hoses are cut and crimped to remove debris from inside the assembly. To ensure cleanliness, we recommend utilizing Parker Clean Seal Caps. Both the pellets and the caps are an easy and quick way to ensure you have a contamination-free hose assembly.

www.parkerhose.com



CUSTOM MANUFACTURING OPERATION & RAPID SERVICE UNIT

When the situation calls for a custom product or special single piece, the experts at Parker's Hose Products Division can create a solution specific to your needs.

Parker's Custom Manufacturing Operation and Rapid Service Unit can produce a single, critical piece or several in as little as 24 hours.

www.parker.com/rsu



HOSE TUBE COMBINATIONS

Parker's tube assemblies or hose and tube combinations provide an alternative to rubber hose. Tube assemblies are a viable alternative in some applications where the port to port mounting is consistent and where the vibration and movement is limited. All assemblies are custom made to your specification and can be made as a single piece or in higher production volumes. For more information, please contact a product manager at: **662-563-4691**.

Industry Leading Equipment

Parker's complete line of equipment is available to help you fabricate reliable and consistent hose assemblies.

Parker delivers exceptional quality and reliability when it comes to equipment and tooling. Factory-quality hose assemblies can be quickly, easily, and cost effectively manufactured with Parker's industry leading equipment. For example, Parker's Parkrimp system provides users with several key advantages:

- **Perfect alignment:** Our exclusive Parkalign system positions the fitting in the die for a perfect crimp every time.
- **Efficient design:** Bottom loading crimpers make it easier for operators to manage long hose lengths.
- **Color-coded linked dies:** Our linked dies are color-coded by size for easy identification.
- **Durability:** Parkrimp crimpers have been designed and manufactured to provide years of reliable service.

To help you with your equipment, Parker provides an exclusive online software application: CrimpSource. CrimpSource supplies you with the necessary crimp specifications in order to adhere to our strict safety standards. It is the industry's most complete resource for crimper technical information. It provides easy access to all the specifications necessary to correctly fabricate a factory-quality hose assembly. With a series of dropdown menus, users are able to choose a crimper, the type of hose, and compatible fittings. Once the crimper is selected, the user is provided with crimp specs, crimper die recommendations, technical manuals, and crimper decals available for immediate printing.



For complete product information on all of Parker's crimpers, please visit: www.parker.com/crimpsource.

Karrykrimp	Karrykrimp Bench Mount	Karrykrimp 2	Karrykrimp 2 Bench Mount	Parkrimp 2	Production Crimper
					

Multiple Fitting Configurations



FLANGES

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

Material..... Steel and stainless 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 2"
Pressure Up to 6000 psi



METRIC

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

Material..... Steel and stainless steel
Sizes 1/8" / 3 mm through 2" / 38 mm
Pressure Up to 6000 psi



JIC 37° and SAE 45°

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

Material..... Steel 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 and stainless 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 and stainless steel
Sizes 1/8" through 2"
Pressure Up to 12000 psi

ACCESSORIES



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

PARKER SAFETY GUIDE FOR SELECTING AND USING HOSE, TUBING, FITTINGS AND RELATED ACCESSORIES

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. POSSIBLE CONSEQUENCES OF FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THESE PRODUCTS INCLUDE BUT ARE NOT LIMITED TO:

- Fittings thrown off at high speed.
- High velocity fluid discharge.
- Explosion or burning of the conveyed fluid.
- Electrocution from high voltage electric power lines.
- 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.

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.

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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.”

www.parker.com/offerofsale

GLOBALCORE

Designed to meet the most common working pressures, GlobalCore stands above the competition, with a simple family of constant working pressure hoses.

CONSTANT WORKING PRESSURE

Manufactured to provide consistency and reliability with a constant working pressure in all sizes and applications.

HYDRAULIC

Available in either braided or spiral constructions. Braided construction offers superior flexibility. For use with petroleum-based fluids, diesel fuel, hot lubricating oil, air, ethylene glycol anti-freeze, and water. Spiral construction is built with a four- or six-wire reinforcement. For use with petroleum-based, water/glycol hydraulic fluids.

SUCTION AND RETURN

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

PUSH-LOK®

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

PHOSPHATE ESTER

Parker offers EPDM hose with excellent compatibility for ground support and aviation test equipment using phosphate-ester based hydraulic fluids.

LOW TEMPERATURE

Designed specifically to excel in the brutal operating conditions of extreme cold, Low Temp hoses are rated as low as -70°F (-57°C).

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.


































ALTERNATIVE/MARINE

Offering gas permeation resistance to fire-resistance, these hoses are constructed for reliable performance. For a variety of uses including liquefied petroleum gas, compressed natural gas, gasoline, ethanol blends, and diesel fuels.

REFRIGERANT

For air conditioning and refrigeration system applications.

Pressure Chart

	Hose Size	Hose Reinforcement	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32	-40	-48	Standard Temp. Range °F	SAE	ISO	EN
Hydraulic	721/721TC				4000	4000	4000	4000	4000	3000	2500	2500			-40/+257	100R12	3862-1-R12	856-R12
	721ST					4000	4000	4000	4000	3000					-40/+257	100R12	3862-1-R12	856-R12
	701				6500	6000	5000								-40/+212		3862-1-4SP	856-4SP
	731							6000	5500	4700	4200	3600			-40/+212		3862-1-4SH	856-4SH
Suction and Return Line	811/811HT with HC							100	70	50	50	50	62		-40/+212 / +257	100R4		
	811/811HT with 81							300	250	200	150	100	62		-40/+212 / +257	100R4		
	881 with HC							100	70	50	50	50	62		-40/+257	100R4		
	881 with 43/81/DB							300	250	200	150	100	62		-40/+257	100R4		
Push-Lok	801		350		350	300	300	300	200						-40/+257			
	836		400		400	400	350	300							-55/+302			
	804		150		150	150	150	150							-40/+176			
	821FR		350		300	300		250							-40/+212			
	821		350		300	300	250	250							-40/+212			
Phosphate Ester	304		5000		4000	3500	2750	2250	2000	1625	1250	1125			-40/+176			
	774							4000	4000	3000	2500	2500			-40/+176			
	424								1000	625	500	375			-40/+176			
	F42					6000		6000	6000	6000					-40/+176			
Low-Temp	472LT		5800		5000	4250	3625	3125	2500						-70/+212			857
	722LT				4000	4000	4000	4000	4000	3000	2500				-70/+212	100R12	3862-1-R12	856
	792LT								6000	6000	6000				-70/+212	100R15		
Transportation	293		500		500	500	450	450	450						-58/+302	J1402 AI		
	213		2000	1500	1500	1250	1000	750	400	300	300	200	175		-50/+302	J1402 AI		
	266		2000	1500	1500	1250	1250	750	400	300	250				-55/+302	J1402 AII		
	201		3000	3000	2250	2000	1750	1500	800	625	500	350	350	200	-40/+302	100R5/J1402 AII		
	206		3000	3000	2250	2000	1750	1500	800	625	500	350	350		-55/+302	100R5/J1402 AII		
	226		2000		1500	1250	1250	750	500						-40/+302	J1402		
	611HT		400		400	400	350	300							-55/+302	J517 100R6		854
	271				225	225									-50/+212	J1402 A		
Alternative/Marine	SS23CG				425	425	425	425							-40/+250			
	SS25UL		350	350	350	350	350	350							-40/+250			
	221FR			500	500	500	500	500	500						-4/+212	J1527 R3/J1942	7840	
Refrigerant	285		500		500	500	500	500							-22/+257	J2064 Type C		
	244								500	500	350				-22/+257	J2064 Type B Class 1		

Pressure Chart

	Hose Size	Hose Reinforcement	Temperature (°F)												Standard Temp. Range °F	SAE	ISO	EN		
			-4	-5	-6	-8	-10	-12	-16	-20	-24	-32	-40	-48						
GlobalCore	387		3000		3000	3000	3000	3000	3000	3000	3000	3000	3000				-40/+212/ +257		18752	
	487		4000		4000	4000	4000	4000	4000	4000	4000	4000	4000				-40/+212/ +257		18752	
	722				4000	4000	4000	4000	4000								-40/+212/ +257		18752	
	787		5000		5000	5000	5000	5000	5000	5000	5000	5000	5000				-40/+212/ +257		18752	
	797		6000		6000	6000	6000	6000	6000	6000	6000	6000	6000				-40/+212/ +257		18752	
Constant Working Pressure	451TC/ST		3000		3000	3000	3000	3000	3000	3000							-40/+212	100R17		
	451TC Twin Tough				3000	3000											-40/+212	100R17	11237-1	
	711										3000	3000					-40/+212			
	351TC/ST		4000		4000	4000	4000	4000									-40/+212	100R19		
	772TC/ST				4000	4000	4000	4000	4000	3000	2500	2500					-40/+257	100R12	3862-1-R12	856-R12
	781							5000	5000	5000	5000									
	P35											5000					-40/+257	100R13	3862-1-R13	856-R13
	782TC/ST							5000	5000	5000	5000						-40/+257	100R13	3862-1-R13	856-R13
	791TC							6000	6000	6000	6000						-40/+257	100R15	3862-1-R15	
	792TC/ST							6000	6000								-40/+257	100R15	3862-1-R15	
Hydraulic - Industry Standard	JK		10500		10000												-40/+120	100R2AT		
	422		3250	3125	2600	2325	1875	1525	1275	900	725	575					-40/+212	100R1AT	1436-1-1SN	
	482TC/ST		3250	3250	3000	2500	2000	1750	1275								-40/+212	100R1AT	1436-1-1SN	853-1SN
	426		2750		2250	2000	1500	1250	1000	625	500	375					-50/+302	100R1AT		
	302		5800	5000	4750	4000	3600	3100	2400	1800	1300	1150					-40/+212	100R2	1436-1-2SN	
	431		5000	4250	4000	3500	2750	2250	2000								-40/+257			
	436				4000	3500	2750	2250	2000								-55/+302	100R16		
	471TC/ST		5800		5000	4250	3625	3125	2500								-40/+212		11237	857-2SC
	471TC Twin Tough				5000	4250											-40/+212		11237	857
	472TC									2250	1800	1300					-40/+212			857-2SC
	AX		3000		3000	2500	1500	1250	1000								-40/+212	100R1		
	BXX		5000		4000	3500	2750	2250	2000								-40/+212			
	722TC/ST										3000	2500	2500				-40/+257	100R12 J1942	3862-1 Type R12	Type R12

Parker Fluid Connectors Group

North American Divisions & Distribution Service Centers

Your complete source for quality tube fittings, hose & hose fittings, brass & composite fittings, quick-disconnect couplings, valves 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, call toll free...

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

North American Divisions

Fluid System Connectors Division

Otsego, MI
phone 269 694 9411
fax 269 694 4614

Hose Products Division

Wickliffe, OH
phone 440 943 5700
fax 440 943 3129

Industrial Hose Division

Wickliffe, OH
phone 440 833 2120
fax 440 833 2230

Parflex Division

Ravenna, OH
phone 330 296 2871
fax 330 296 8433

Quick Coupling Division

Minneapolis, MN
phone 763 544 7781
fax 763 544 3418

Tube Fittings Division

Columbus, OH
phone 614 279 7070
fax 614 279 7685

Distribution Service Centers

Buena Park, CA

phone 714 522 8840
fax 714 994 1183

Conyers, GA

phone 770 929 0330
fax 770 929 0230

Louisville, KY

phone 502 937 1322
fax 502 937 4180

Portland, OR

phone 503 283 1020
fax 503 283 2201

Toledo, OH

phone 419 878 7000
fax 419 878 7001
fax 419 878 7420
(FCG Kit Operations)

Canada

Grimsby, ONT

phone 905 945 2274
fax 905 945 3945
(Contact Grimsby for other Service Center locations.)

