



Quick Reference Guide Hydraulic & Industrial Hose

Overview and Pull-out Chart



ENGINEERING YOUR SUCCESS.

HOSE PRODUCTS DIVISION

The market leader and your supplier of choice

Parker offers 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 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.



SAFETY GUIDE FOR SELECTING HOSE, TUBING, FITTING AND RELATED ACCESSORIES

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
- Electrocutation 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 (Parker Publication No. 4400-B1).

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

**ANY PRESSURE.
ANY PROJECT.**

ONE SOLUTION

GlobalCore is the future that OEMs and end users around the world have been asking for: a unified family of robust hydraulic hoses designed to endure the tough conditions where work gets done. Specified by working pressure, not construction, GlobalCore is the world's first high-performance cohesive hose and fitting system. Designed, built, and tested to the ISO 18752 specification, the GlobalCore system simplifies specification for OEMs and end users around the globe by providing a comprehensive family of products for the most commonly used constant working pressure classes. Choose from six hoses, three cover options, and two fitting series, all available through a worldwide network of distributors.



OUR HOSES ARE EASILY IDENTIFIED BY APPLICATION, MARKET OR BRAND

To meet our customers' specific application requirements, we offer a broad range of innovative products designed to enhance performance, productivity, and safety for both the industrial and hydraulic hose markets.



GlobalCore

Specifying GlobalCore, a unified system that delivers hoses built on the ISO 18752 specification, provides opportunities for OEMs and end users to improve efficiency in operations, increase uptime with a streamlined selection process and longer service life for 1,000 to 6,000 psi applications.



Hydraulic Industry Standard

Industry standards set specific requirements concerning construction type, size, tolerances, burst pressure, and impulse cycles. Available in either braided or spiral constructions. For use with petroleum-based fluids, diesel fuel, hot lubricating oil, air, ethylene glycol anti-freeze, and water.



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.



Specialty Hoses

Designed to offer the widest range of low, medium and high pressure specialty hydraulic, pneumatic, industrial and hybrid hoses in the industry. They are resistant to heat, fire, ozone, weather, chemicals, oil, flames, UV and abrasion and deliver engineered solutions to all your specialty hose product needs and applications.



Steam

Parker's steam hoses transfer steam as part of high temperature cleaning systems for in-plant/ refinery service – such as railcars, tanks and vessels – and to keep process equipment operating efficiently. The hoses provide a selection of several inner tube and outer cover materials to handle a wide range of service conditions.



Oil & Gas

Parker provides the knowledge needed to produce hoses fit for severe conditions in today's oil and gas industry. Parker's hoses are made for reliable, continuous use in offshore/ onshore upstream applications, as well as midstream/ downstream transfer applications.



Water

Parker's water hoses are offered in multiple pressures and sizes for cleaning, irrigation, spray, wash down and large diameter suction and discharge applications. Our water hoses are abrasion and weather resistant for robust service in harsh environments and applications.



Fuel

Parker fuel hose handles a wide variety of petroleum based fuels in depot, dispenser, dock, engine fuel line, in-plant transfer, transport and tank truck suction and discharge service safely and efficiently. The hoses are compatible with numerous fuels such as avgas, biodiesel, diesel, gasoline and jet fuel, and are available in a diverse range of pressures, sizes and temperature capabilities.



Petroleum

In the petroleum industry, a faulty or broken hose can have extremely serious consequences. That's why the inner tubes and covers on Parker's industrial hoses are specifically chosen and engineered to provide maximum life even in the most demanding petroleum applications such as transfer, suction and discharge and blending.



PVC

Flexible PVC tubing also offers a broad range of chemical and corrosion resistance, excellent abrasion and wear resistance, rubber-like flexibility with outstanding flow characteristics. These features, along with various construction options offered and the different formulations available, makes PVC hose suitable for so many applications.



Air & Multipurpose

Parker air hose provides robust service in air tool, compressor, manufacturing/process equipment and general industrial applications. Serving a broad range of markets, the hoses are offered in flexible rubber constructions and lightweight, abrasion resistant thermoplastic constructions, each in multiple colors, pressures and sizes.



Material Handling

Our vast assortment of hoses includes specifically engineered material handling hoses that are constructed to withstand the most abrasive materials needing transfer, and to required standards.



Chemical

Parker chemical hoses safely handle a wide variety of acids and chemicals for depot, dock, in-plant transfer, tank truck and transport suction and discharge service. The hoses feature several different inner tube materials to cover a wide of range of media, pressures, sizes and temperature capabilities.

QUALITY SERVICES FOR A COMPETITIVE ADVANTAGE

Asset Management System

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



Hose Cleaning Services

Parker offers hose cleaning services 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 Tube Assemblies & 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 specifications. Parker is ideally suited to supply high volume assemblies for equipment manufacturers but can also supply for quantities as small as five.

For more information, please call:

440-943-5700



ParkerStore

ParkerStores are a global network of independently-owned industrial retail operations with more than 3,500 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 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.

NEXWRAP™ Polyethylene Spiral Chafe Guard: A polyethylene spiral chafe guard designed as a conduit/harness to protect and bundle cable, hose, tubing and wiring.

Strain Relievers: Helps prevent the hose from bending too close to the fitting and remove stress from the end of the crimp.

Partek Defense: A nylon woven hose sleeve designed to provide reliable, long-lasting, protection to personnel and equipment in the event of a hose burst by containing the energy of the burst.

Partek Wrap: A lightweight, highly flexible nylon sleeve designed for added abrasion resistance and bundling multiple hoses or cables after assembly.



EXTREME HOSE FLEXIBILITY WHERE TIGHT ROUTING IS A CHALLENGE

Designed to handle extreme bends while allowing full-flow, kink-free performance, E-Z Form hose effectively replaces preformed hoses and hose bent metal tube assemblies in many applications – eliminating special design, tooling and fabrication costs and associated long lead times. E-Z Form is crush resistant and kink resistant for unimpeded flow, offers superior flexibility for easy handling and installer/operator convenience, and is resistant to abrasion and weathering for maximum performance.



E-Z FORM

In addition to our Parkrimp crimpers, we offer a complete line of adjustable and production crimpers. Many are also available with programmable touchscreen controllers, ensuring that the assembly process is as easy as possible.

PARKER'S EXTENSIVE EQUIPMENT LINE

also includes hose saws, push-on stands, power units as well as cleaning and capping systems to help you every step of the way while fabricating hose assemblies.

Cut-Off Machines: Fast cutting and relatively low initial investment in equipment.

Hose Insertion Depth Blocks and Fitting Push-on Stands: Boost productivity and quality of hose assemblies.

Portable Crimper Power Units: Increase productivity and versatility for smaller hose assembly needs.

Hose Cleaning and Capping Systems: Rid the assembly of any possible contamination and extend hose life.



TH8-380
Production Crimper

CRIMP SPECS: QUICK, EASY & EXACT

To help you with your equipment, Parker provides an exclusive online software application: **CrimpSource**. CrimpSource supplies you with the necessary crimp specifications 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 drop down menus, users can 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



MULTIPLE FITTING CONFIGURATIONS FOR BOTH HYDRAULIC AND INDUSTRIAL APPLICATIONS



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, BSPP, 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



ENHANCED SUPPORT FOR OUR HOSE SOLUTIONS

Circle of Safety: Many industrial hose manufacturers will suggest hose and fitting configurations for a given application, but they won't guarantee the combination will perform to the rated burst pressure of the hose. However, one of the benefits of working with Parker is that we assure the promise of quality industrial hose assemblies. Our Circle of Safety program establishes Parker's Hose Products Division as a single, accountable source with a specific performance guarantee to protect distributors and end users from accidents, unplanned downtime and increased liability.

www.parker.com/safehose

Industrial Hose Selector: Need a hose or fitting? Our hose selector application allows you to search the entire catalog of products from Parker's Hose Products quickly and efficiently. Narrow down precisely what you need with the STAMP process, or browse thousands of products by category.

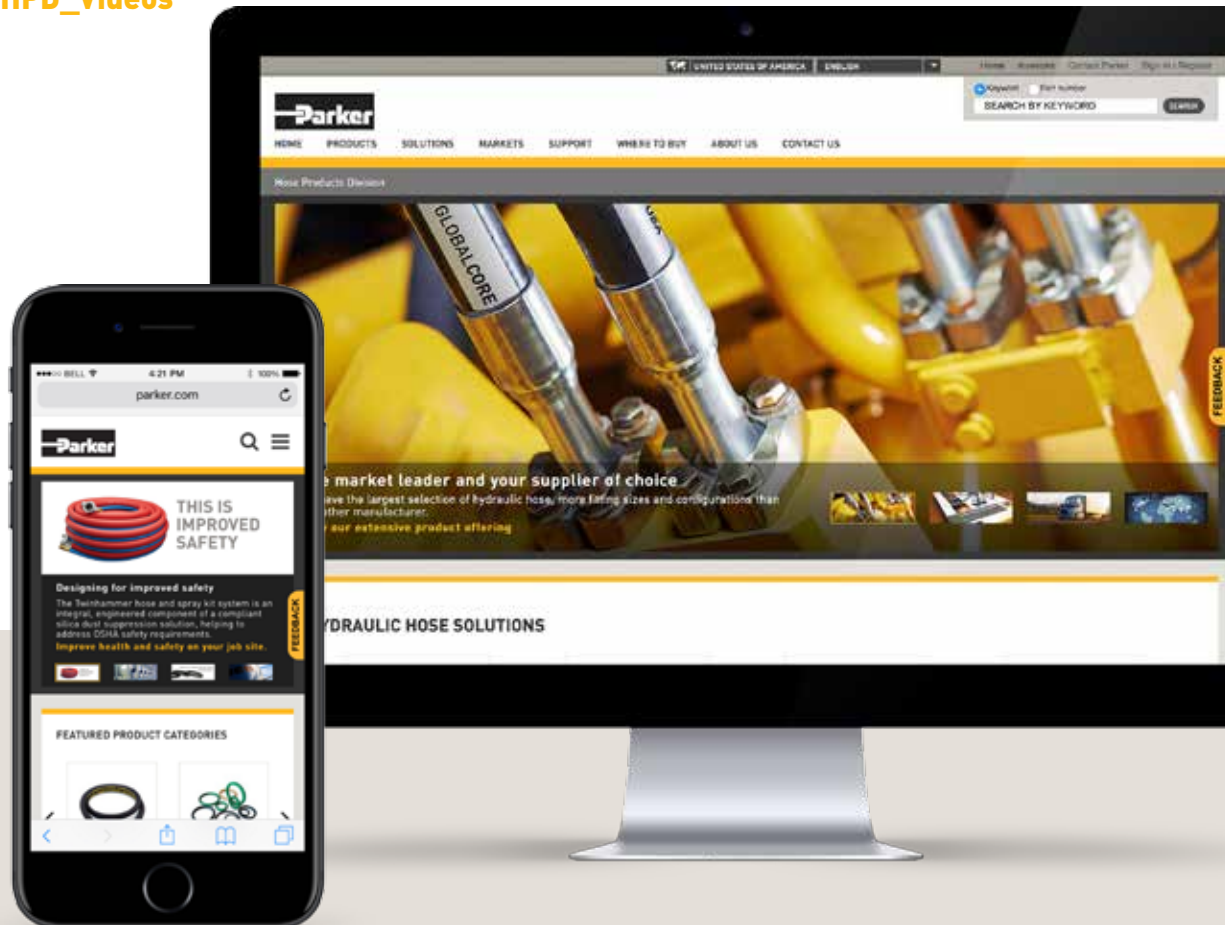
www.parker.com/safehose

CADs: Parker has CAD models available for more than 4,000 of its hydraulic and industrial adapters and fittings. Models are accessible with all major CAD applications at:

www.parker.com/HPD_CAD

Instructional Videos: Hose Products Division offers a series of videos to help you better understand our products, services and capabilities in quick, easy-to-digest segments. Subjects include GlobalCore™, the Parkrimp™ crimping system, the basic elements of hoses, and more.

www.parker.com/HPD_Videos



INDUSTRY LEADING EQUIPMENT

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.

Parker's Parkrimp family of crimping machines enable any user to make factory-quality hose assemblies quickly, easily and cost-effectively. The Parkrimp-style crimpers are designed to crimp fittings to the proper diameter every time. Parker's Parkrimp system provides several key advantages such as:

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.



Parkrimp 2



Karrykrimp



Karrykrimp 2



Karrykrimp
Bench Mount



Karrykrimp 2
Bench Mount



MAXIMUM HOSE PRESSURE RAT

GlobalCore™ Hydraulic Hose

Material Handling

	187	387	487	722	787	797	SW387
Ind. Std.							
ISO	18752	18752	18752	18752	18752	18752	
EN							
Temp Range	-40 to +257° F	-40 to +257° F	-40 to +257° F	-40 to +257° F	-40 to +257° F	-40 to +257° F	-40 to +350° F
-3							
-4		3000	4000		5000	6000	
-5							
-6		3000	4000	4000	5000	6000	
-8	1000	3000	4000	4000	5000	6000	
-10	1000	3000	4000	4000	5000	6000	
-12	1000	3000	4000	4000	5000	6000	
-16	1000	3000	4000	4000	5000	6000	
-20	1000	3000	4000		5000	6000	
-24	1000	3000	4000		5000	6000	150
-32	1000	3000	4000		5000	6000	150
-40	1000						150
-48	1000						150
-56							
-64							150
-80							
-96							

Transportation

Petroleum

	293	213	266	201	206	7216E	SWC609
Ind. Std.	J1402 AI	J1402 AI	J1402 AI	J517 100R5/ J1402 AI	J517 100R5/ J1402 AI		
ISO							
EN							
Temp Range	-58 to +302° F	-50 to +302° F	-55 to +302° F	-40 to +302° F	-55 to +302° F	-35 to +180° F	-40 to +180° F
-3							
-4	500	2000	2000	3000	3000		
-5		1500	1500	3000	3000		
-6	500	1500	1500	2250	2250		
-8	500	1250	1250	2000	2000		
-10	450	1000	1250	1750	1750		
-12	450	750	750	1500	1500		
-16	450	400	400	800	800	150	
-20		300	300	625	625	150	250
-24		300	250	500	500	150	250
-32		200		350	350	150	250
-40		175		350	350	150	200
-48				200		150	200
-56							
-64						150	150
-80							
-96							150
-128							150



WARNING: The products described in this brochure can expose you to chemicals including Carbon Black, DEHP, Ethylene Thiourea, and Lead, which are known to the State of California to cause cancer, and DBP, DEHP, Ethylene Thiourea, and Lead which are known to the State of California to cause birth defect or other reproductive harm. For more information go to www.p65warnings.ca.gov.

ING CHART (PSI)

Parker.com/HPD

Air & Multipurpose

							
	801	GST II	836	821FR	7082	MPT II	SW360
Ind. Std.						Nonconductive	
ISO							
EN							
Temp Range	-40 to +257° F	-40 to +212° F	-55 to +302° F	-40 to +212° F	-40 to +212° F	-20 to +212° F	-40 to +350° F
-3		300					
-4	350	300	400	350		300	
-5		300				300	
-6	350	300	400	300		300	
-8	300	300	400	300		300	
-10	300	300	350			300	
-12	300	300	300	250	300	200	
-16	200	300				300	
-20		200				200	
-24		200				200	200
-32		200					200
-40							
-48							200
-56							
-64							125
-80							
-96							100

Air & Multipurpose

Engine Fuel

Engine Coolant

							
	7107	7084	395	389	6722	6750	7395
Ind. Std.	MSHA, Nonconductive		J30R7	J30R7, J30R14T2, CARB, EPA	J20R3 Class A	J20R1 Class A	J20R2 Class D-1 Performance
ISO							
EN							
Temp Range	-40 to +212° F	-40 to +212° F	-40 to +257° F	-40 to +257° F	-65 to +350° F	-65 to +350° F	-50 to +257° F
-3			75	100			
-4	500		50	100	83	159	
-5			50	100	83	159	
-6	500	300	50	100	83	159	150
-8	500		35	100	83	142	75
-10				100	83	125	75
-12	500	300		100	67	108	75
-16	500				58	100	75
-20	500					92	75
-24	500					83	75
-32	500					67	75
-40						50	75
-48						29	75
-56						25	75
-64						16	75
-80						16	
-96							
-128							








For specific temperature range per size, please reference catalog or parker.com.

Specialty Hoses

							
	304	774	472LT	722LT	611HT	271	SS23CG
Ind. Std.				J517 100R12	J517 100R6	J1402 A	J1402 A
ISO				3862-1-R12			
EN			857-2SC	856-R12	854-R6		
Temp Range	-40 to +176° F	-40 to +176° F	-70 to +212° F	-70 to +212° F	-40 to +257° F	-50 to +212° F	-40 to +250° F
-3							
-4	5000		5800		400		
-5							
-6	4000		5000	4000	400	225	350
-8	3500		4250	4000	400	225	350
-10	2750		3625	4000	350		350
-12	2250	4000	3125	4000	300		
-16	2000	4000	2500	4000			
-20	1625	3000		3000			
-24	1250	2500		2500			
-32	1125	2500					
-40							
-48							
-56							
-64							
-80							
-96							

Specialty Hoses

Hydraulic Industry Standard

							
	SS25UL	221FR	285	JK	811/811HT*	881*	471TC
Ind. Std.	J1402 A	J1527 A Class 1/ J1942	J2064-C	J517 100R2AT	J517 100R4/ J1942	J517 100R4/ J1942	J1942
ISO		7840		1436-1-2SN			11237-2SC
EN							957-2SC
Temp Range	-40 to +250° F	-4 to +212° F	-22 to +257° F	-40 to +120° F	-40 to +257° F	-40 to +257° F	-40 to +212° F
-3							
-4	350		500	10500			5800
-5	350	500					
-6	350	500	500	10000			5000
-8	350	500	500				4250
-10	350	500	500				3625
-12	350	500	500		100	300	3125
-16		500			70	250	2500
-20					50	200	
-24					50	150	
-32					50	100	
-40					62	62	
-48							
-56							
-64							
-80							
-96							

* Pressure varies with fittings used.

Oil & Gas

Steam

	FA21	FA35	P3525	P3575	P5625	P5675	7219	7263C
Ind. Std.								6134 Type 2
ISO								
EN								
Temp Range	-40 to +212° F	-40 to +212° F	-40 to +257° F	-40 to +257° F	-4 to +158° F	-4 to +158° F	-30 / +212 / +250° F	-20 / +406 / +450° F
-3								
-4								
-5								
-6	3000							
-8	3000	5000					75	250
-10							75	
-12	3000	5000					75	250
-16	3000	5000					75	250
-20		5000					75	
-24		5000					75	
-32		5000	5000	5000	8000	8000	75	
-40							75	
-48							75	
-56							75	
-64							75	
-80								
-96								

Water

Chemical

Heater

PVC

	7392E	7055	7258**	7373T	7181	100	125	7541
Ind. Std.					J20R3EC Class D-2	FDA	FDA	
ISO								
EN								
Temp Range	-40 to +180° F	-40 to +180° F	-40 to +250° F	-40 to +180° F	-40 to +257° F	+25 to +150° F	+25 to +150° F	+14 to +140° F
-3						60	250	
-4					65	60	250	
-5			3000		65	60	250	
-6			3000		65	55	225	
-8			2500		65	45	200	
-10		100			65	40	200	
-12		100		200	50	45	150	
-16		100		200	45	35	125	
-20				200		40	100	
-24	150			200		35	100	80
-32	150			200		30	75	80
-40	150			200				65
-48	150			200				60
-56								
-64	150			200				45
-80								
-96	150							40

** Also available as factory assemblies.

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

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

Milton, ONT

phone 905 693 3000
fax 905 876 1958
(Contact Milton for other Service Center locations.)

Mexico

Toluca, MEX

phone (52) 722 2754 200
fax (52) 722 2722 168

