

Five Hoses. Two Fittings. One Solution.



GLOBALCORE™

The world's first high-performance, cohesive hose and fitting system.

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



ENGINEERING YOUR SUCCESS.

Five Hoses. Two Fittings. One Solution...

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

You know Parker as the global leader in providing unprecedented performance and value for hydraulic systems with high-pressure applications. With our GlobalCore solution, you can significantly reduce your inventory and part number complexity by using just five hoses and two fittings.

Designed to meet the most common working pressures in industry, GlobalCore stands above the competition and serves customers around the world with a simple family of constant working pressure hoses.

GlobalCore hoses are manufactured in the major regions of the world – Europe, North America, and Asia – supporting the equipment they serve, regardless of where it was originally manufactured, or where it is today.

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

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

Parker's worldwide reach makes GlobalCore easier to specify and source through our unrivaled industrial distribution network of 13,000 locations globally.



GlobalCore significantly reduces

High Performance

Because challenges can emerge anytime and anywhere, your solution should endure the tough conditions of your work environment. The high-performance standards designed, engineered and manufactured into GlobalCore provide the longest service life possible.

With GlobalCore hoses tested to twice the ISO 18752 standard, high performance in rugged environments and high-impulse applications is ensured.

Long known as the premier manufacturer of hydraulic hoses, you can expect Parker's GlobalCore system will continue to meet our own rigorous standards of excellence.

Additional value is realized through:

- 100° / 125° C temperature ratings
- Standard, ToughCover and SuperTough cover technologies for abrasion resistance
- 1/2 minimum bend radius
- Low force to flex for ease of installation
- Advanced inner tube chemistry

Cohesive

GlobalCore is a unified system that delivers hoses designed, built and tested to the ISO 18752 specification.

Released in 2006, and quickly adopted by customers worldwide, Parker is at the forefront of delivering this universal standard for hydraulic hoses.

The ISO 18752 specification was developed based on how hoses are specified and used by customers - by pressure range, and not by hose construction. It's a truer specification based on today's needs. Although the specification covers hoses ranging from 3.5 MPa (500 psi) through 56.0 MPa (8,000 psi) and in sizes from -3 to -64, our focus is on the critical range where our customers operate.

GlobalCore expands our range of ISO 18752 hoses and provides options for the most critical sizes and pressure ranges - 21.0 MPa (3,000 psi) to 42.0 MPa (6,000) psi in sizes -4 through -32.

ISO 18752 Performance Definitions (4.2 Grades and Types)				
Grade	Type ^a	Resistance to Impulse		
		Temperature	Impulse Pressure (% of MWP ^b)	Minimum Number of Cycles
A	AS	100°C (212°F)	133%	200,000
	AC			
B	BS	100°C (212°F)	133%	500,000
	BC			
C	CS	120°C (250°F)	133% and 120% ^c	500,000
	CC			
D	DC	120°C (250°F)	133%	1,000,000

^a Standard or compact, e.g. CS is grade C and standard type.
Standard types have larger outside diameters and larger bend radii and compact types have smaller outside diameters and smaller bend radii.

^b Maximum working pressure.

^c 120% of the MWP shall be used for classes 350, 420 and 560 instead of 133%.

ISO 18752 classifies according to their resistance to impulse into four grades: A, B, C and D. Each grade is classified by outside diameter into standard types (AS, BS and CS) and compact types (AC, BC, CC and DC) as shown in this table.

system complexity...

Simple

The GlobalCore system is simple. With only five hoses, OEM and MRO customers alike will enjoy selecting the right hose based on working pressure.

Selecting the fitting is even simpler. Choose the world renowned 43/48 Series, with more than 2,500 configurations, or the 77 Series, designed specifically for higher pressure applications and available in more than 500 configurations.

Hoses	-4	-6	-8	-10	-12	-16	-20	-24	-32
21 MPa / 3,000 psi	387	387	387	387	387	387	387	387	387
28 MPa / 4,000 psi	487	487/722	487/722	487/722	487/722	487/722	487	487	487
35 MPa / 5,000 psi	*	*	787	787	787	787	787	787	787
42 MPa / 6,000 psi	*	*	797	797	797	797	797	797	797

Fittings	-4	-6	-8	-10	-12	-16	-20	-24	-32
21 MPa / 3,000 psi	43/48	43/48	43/48	43/48	43/48	43/48	43,77	77	77
28 MPa / 4,000 psi	43/48	43/48	43/48	43/48	43/48	43	77	77	77
35 MPa / 5,000 psi	*	*	77	77	77	77	77	77	77
42 MPa / 6,000 psi	*	*	77	77	77	77	77	77	77

*Not part of GlobalCore family. See Parker 4400 Catalog for alternative product.

Cover Options

GlobalCore hoses come with a variety of cover options so you can match the right cover to your application.



Our Standard cover is a durable synthetic rubber that provides protection from light abrasion, as well as other harmful environmental conditions (UV, ozone).



Our ToughCover is 80 times more abrasion resistant than our Standard cover, providing increased abrasion resistance for applications in demanding conditions.



Our SuperTough cover is 450 times more abrasion resistant than our Standard cover and offers unparalleled protection from abrasive environments.

Metal-to-Hose Abrasion Resistance Comparison

Levels of Abrasion Resistance

Results from the ISO 6945 metal-to-hose abrasion test show that ToughCover and SuperTough cover hoses offer significantly greater abrasion resistance than standard rubber cover hose.

Standard Rubber Cover

80 X Tough Cover (TC)

450 X Super Tough (ST) Cover

Leading the World.

Global

A single cohesive family of complimentary products so qualified has never before been offered globally.

With manufacturing locations in the major global regions, regardless of where your equipment was originally manufactured or is today, GlobalCore will support your hydraulic hose needs.

Global Approvals

GlobalCore will carry the most common international classification body type approvals as requested by our customers. ABS, DNV, Lloyd's, MSHA and USCG will be comprehensive approvals, while other certifications will be specific to designated hoses or sizes.



Visit parkerglobalcore.com for the latest list of hose and classification body type approvals.



797 Compact Spiral™ Hose

High pressure, low weight makes installation easy



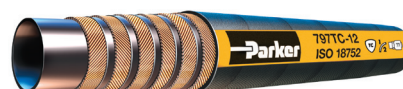
Parker's GlobalCore 797 hose provides 6,000 psi (42 MPa) constant working pressure in all sizes. Compared with conventional spiral hose, 797 hose offers measurably greater advantages in routing and installation, product size and weight, inventory savings and much more. The 797 hose exceeds the ISO 18752 performance specification.



- ½ the bend radius of SAE spiral
- 6,000 psi constant working pressure in all sizes
- Exceeds ISO 18752 performance specification (BC/CC/DC)
- Nearly 30% smaller O.D. by area than SAE spiral
- Twice the impulse/life – tested to 2,000,000 cycles
- Flex impulse tested, providing a hose superior in both performance and service life
- 30% less hose weight than SAE spiral



797 Hydraulic - Constant Working Pressure ISO 18752 - BC/CC/DC



# Part Number	Standard Cover	Tough Cover	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp
			inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	
797-8	BC	DC	1/2	12,5	0.83	21,1	6000	42	4	100	0.45	0,67	•
797-10	BC	DC	5/8	16	0.94	23,9	6000	42	4-1/2	100	0.54	0,80	•
797-12	BC	DC	3/4	19	1.10	27,9	6000	42	5-1/4	135	0.78	1,16	•
797-16	BC	DC	1	25	1.40	35,7	6000	42	6-1/2	165	1.17	1,74	•
797-20	BC	DC	1-1/4	31,5	1.77	44,9	6000	42	8-3/4	225	1.95	2,89	•
797-24	BC	CC	1-1/2	38	2.08	52,8	6000	42	12	305	2.66	3,96	•
797-32	BC	CC	2	51	2.66	67,6	6000	42	15	380	4.37	6,50	•

Application: Petroleum-based hydraulic fluids, lubricating oils

Inner Tube: Proprietary synthetic rubber

Reinforcement: Four- or six-spiral steel wires

Cover: Standard Cover: Synthetic rubber

ToughCover: Synthetic rubber abrasion resistant

Fittings: 77 Series

Temp. Range: Standard Cover: -40°C to +100°C

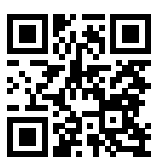
ToughCover: -40°C to +125°C

787 Compact Spiral™ Hose

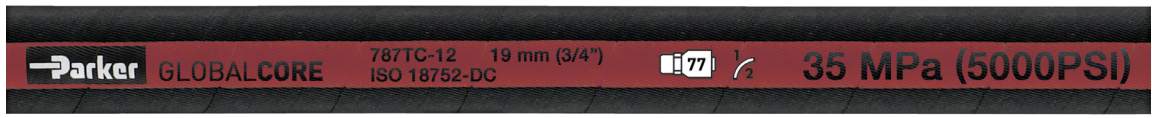
Lighter weight, high flexibility makes installation easy



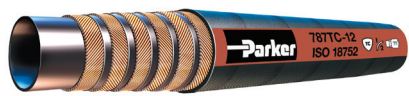
Parker's GlobalCore 787 hose provides 5,000 psi (35 MPa) constant working pressure in all sizes. Compared with conventional spiral hose, 787 hose offers measurably greater advantages in routing and installation, product size and weight, inventory savings and much more. The 787 hose exceeds the ISO 18752 performance specification.



- ½ ISO 18752 minimum bend radius
- 5,000 psi constant working pressure in all sizes
- Exceeds ISO 18752 performance specification (BC/DC)
- Nearly 30% smaller O.D. by area than SAE spiral
- Twice the impulse/life – tested to 2,000,000 cycles
- Flex impulse tested, providing a hose superior in both performance and service life
- 30% less hose weight than SAE spiral



787 Hydraulic - Constant Working Pressure ISO 18752 - BC/DC



# Part Number	Standard Cover	TC Tough Cover	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp 77 Series
			inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	
787-8	BC	DC	1/2	12,5	0.83	21,1	5000	35	3-1/2	90	0.45	0,67	•
787-10	BC	DC	5/8	16	0.94	23,9	5000	35	4	100	0.54	0,80	•
787-12	BC	DC	3/4	19	1.10	27,9	5000	35	4-3/4	120	0.78	1,16	•
787-16	BC	DC	1	25	1.40	35,7	5000	35	6	150	1.17	1,74	•
787-20	BC	DC	1-1/4	31,5	1.77	44,9	5000	35	8-1/4	210	1.95	2,89	•
787-24	BC	DC	1-1/2	38	2.08	52,8	5000	35	10	255	2.66	3,96	•
787-32	BC	DC	2	51	2.66	67,6	5000	35	12-1/2	318	4.37	6,50	•

Application: Petroleum-based hydraulic fluids, lubricating oils
Inner Tube: Proprietary synthetic rubber
Reinforcement: Four- or six-spiral steel wires
Cover: Standard Cover: Synthetic rubber
 ToughCover: Synthetic rubber abrasion resistant

Fittings: 77 Series
Temp. Range: Standard Cover: -40°C to +100°C
 ToughCover: -40°C to +125°C

722 Hose

Resilient 4-wire spiral construction



Parker's GlobalCore 722 spiral hose provides 4,000 psi (28 MPa) constant working pressure in sizes -6 through -16. Designed for high-pressure, high-impulse applications, 722 hose is offered in Standard, ToughCover and SuperTough cover options. It is one-half the bend radius of 100R12 hose, making it easy to install and reducing the amount of hose needed. Exceeding the ISO 18752 performance specification, Parker's 722 hose excels in multiple applications around the world.



- ½ ISO 18752 minimum bend radius
- 4,000 psi constant working pressure
- Exceeds ISO 18752 performance specification (BC and CC)
- 4-spiral construction for longer life in high-impulse, heavy-duty cycle applications
- TC cover provides 80 times the abrasion resistance compared to Standard rubber cover hoses
- ST cover provides 450 times the abrasion resistance compared to Standard rubber cover hoses



722 Hydraulic - Constant Working Pressure ISO 18752 - BC/CC



# Part Number	Cover Options			Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp 43 Series
	Standard Cover 722	Tough Cover 722TC	Super Tough 722ST	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	
	ISO 18752 Performance													
722-6	BC	CC	CC	3/8	10	0.78	19,9	4000	28	2-1/2	65	0.40	0,60	●
722-8	BC	CC	CC	1/2	12,5	0.89	22,7	4000	28	3-1/2	90	0.54	0,80	●
722-10	BC	CC	CC	5/8	16	1.04	26,4	4000	28	4	100	0.74	1,10	●
722-12	BC	CC	CC	3/4	19	1.21	30,7	4000	28	4-3/4	120	0.94	1,40	●
722-16	BC	CC	CC	1	25	1.50	37,8	4000	28	6	150	1.34	1,99	●

Application: Petroleum base hydraulic fluids and lubricating oils

Inner Tube: Synthetic rubber

Reinforcement: Four-spiral steel wire

Cover: Standard Cover: Synthetic rubber

ToughCover: Synthetic rubber abrasion resistant

SuperTough: Synthetic rubber super abrasion resistant

Fittings: 43 Series

Temp. Range: Standard Cover: -40°C to +100°C

ToughCover & SuperTough: -40°C to +125°C

487 Hose

Highly flexible across all sizes



Parker's GlobalCore 487 hose provides 4,000 psi (28 MPa) constant working pressure in all sizes. Designed for high performance, 487 is available in a variety of cover options, including Standard, ToughCover and SuperTough. Its synthetic rubber inner tube provides a wider range of fluid compatibility. Rated to the ISO 18752 performance specification, 487 will excel in multiple applications around the world.



- ½ ISO 18752 minimum bend radius
- Low force to flex for ease of installation
- 4,000 psi constant working pressure in all sizes
- Exceeds ISO 18752 performance specification (AC, BC & CC)
- TC cover provides 80 times the abrasion resistance compared to Standard rubber cover hose
- ST cover provides 450 times the abrasion resistance compared to Standard rubber cover hose



# Part Number	Cover Options			Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Fittings	
	Standard Cover	Tough Cover	Super Tough	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	Parkrimp	Parkrimp
	487	487TC	487ST	ISO 18752 Performance											
487-4	AC	AC	AC	1/4	6,3	0.52	13,1	4000	28	2	50	0.20	0,30	●	
487-6	AC	AC	AC	3/8	10	0.68	17,2	4000	28	2-1/2	65	0.28	0,42	●	
487-8	AC	AC	AC	1/2	12,5	0.81	20,4	4000	28	3-1/2	90	0.35	0,52	●	
487-10	AC	AC	AC	5/8	16	0.94	23,9	4000	28	4	100	0.44	0,66	●	
487-12	AC	AC	AC	3/4	19	1.10	27,8	4000	28	4-3/4	120	0.58	0,86	●	
487-16	BC	CC	CC	1	25	1.49	37,8	4000	28	6	150	1.34	1,99	**	
487-20	BC	CC	CC	1-1/4	31,5	1.82	46,3	4000	28	8-1/4	210	1.74	2,59		●
487-24	BC	CC	CC	1-1/2	38	2.03	52,8	4000	28	10	250	2.07	3,08		●
487-32	BC	CC	-	2	51	2.65	67,3	4000	28	12-1/2	320	4.35	6,47		●

**Size -16 for use with 43 Series only.

Application: Petroleum base hydraulic fluids and lubricating oils

Inner Tube: Synthetic rubber

Reinforcement: One- or two-braid steel wire (four- or six-spiral for sizes -20,-24 and -32)

Cover: Standard Cover: Synthetic rubber

Tough Cover: Synthetic rubber abrasion resistant

Super Tough: Synthetic rubber super abrasion resistant

Fittings: 43/48 Series, sizes -4 to -16**

77 Series, sizes -20 to -32

Temp. Range: Standard Cover: -40°C to +100°C

ToughCover & SuperTough: -40°C to +125°C

387 Hose

Delivering value and performance for high-pressure systems



Parker's GlobalCore 387 hose provides 3,000 psi (21 MPa) constant working pressure in all sizes. Available in a variety of cover options so you can match the right cover to your application, 387 hose offers you the choice of Standard, ToughCover and SuperTough. Designed, built and tested to the ISO 18752 performance specification, Parker's 387 hose is unmatched in today's marketplace.



- ½ ISO 18752 minimum bend radius
- Low force to flex for ease of installation
- 3,000 psi constant working pressure in all sizes
- Exceeds ISO 18752 performance specification (AC, BC and CC)
- Synthetic rubber inner tube provides a wider range of fluid compatibility
- TC cover provides 80 times the abrasion resistance compared to Standard rubber cover hose
- ST cover provides 450 times the abrasion resistance compared to Standard rubber cover hose



# Part Number	Cover Options			Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp	
	Standard Cover	Tough Cover	Super Tough	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp	Parkrimp
	387	387TC	387ST	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	43 Series	77 Series
387-4	AC	AC	AC	1/4	6,3	0.53	13,4	3000	21	2	50	0.16	0,24	•	
387-6	AC	AC	AC	3/8	10	0.69	17,4	3000	21	2-1/2	65	0.23	0,34	•	
387-8	AC	AC	AC	1/2	12,5	0.82	20,7	3000	21	3-1/2	90	0.29	0,43	•	
387-10	AC	AC	AC	5/8	16	0.94	23,9	3000	21	4	100	0.33	0,49	•	
387-12	AC	AC	AC	3/4	19	1.10	27,8	3000	21	4-3/4	120	0.58	0,86	•	
387-16	AC	AC	AC	1	25	1.40	35,4	3000	21	6	150	0.79	1,17	•	
387-20	BC	CC	CC	1-1/4	31,5	1.82	46,3	3000	21	8-1/4	210	1.74	2,59	•	•
387-24	BC	CC	CC	1-1/2	38	2.08	52,8	3000	21	10	250	2.01	2,99		•
387-32	BC	CC	CC	2	51	2.61	66,2	3000	21	12-1/2	320	2.75	4,09		•

Application: Petroleum base hydraulic fluids and lubricating oils

Inner Tube: Synthetic rubber

Reinforcement: One- or two-braid steel wire (four-spiral for sizes -20,-24 and -32)

Cover: Standard Cover: Synthetic rubber

Tough Cover: Synthetic rubber abrasion resistant

Super Tough: Synthetic rubber super abrasion resistant

Fittings: 43/48 Series up to size -16

43, 77 Series for size -20

77 Series for size -24 and -32

Temp. Range: Standard Cover: -40°C to +100°C

ToughCover & SuperTough: -40°C to +125°C

Two Fittings are all you need.

43/48 Series Fittings

Parker's renowned 43/48 Series fittings are a permanent, crimp style hydraulic fitting, enabling quick assembly with our family of Parkrimp crimpers. Assembling our No-Skive 43/48 Series fittings is simple and doesn't require removing the outer cover of the hose, eliminating premature hose failure by skiving too long or short.

The 43/48 Series is offered in more than 2,500 configurations and is available around the world. For highly corrosive applications, 43/48 Series fittings are also available in stainless steel.

77 Series Fittings

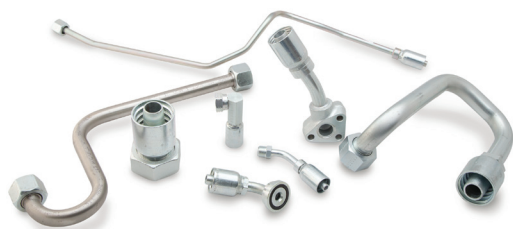
The 77 Series fitting family, designed specifically for higher pressure applications, is available in more than 500 configurations. Its Interlock No-Skive design provides "bite the wire" sealing and holding power.

Compatible with our Parkrimp style crimpers and designed with reduced push-in force, assembly is easy. Its design features a shorter fitting height and smaller hose O.D. resulting in shorter straight lengths to bend, enabling use of more straight fittings as compared with shaped fittings, providing greater overall value, better flow, and reduced heat and pressure loss. As a one-piece fitting, the 77 Series features a metric hex and delivers cool-down leakage performance.



Need a Custom Fitting?

If you need a custom size or shape beyond what's offered in the 43 or 77 Series fittings, Parker's Customs Manufacturing Operation will design and manufacture exactly what you're looking for at the speed you demand.



Need more Protection?

Our goal is to provide you with state-of-the-art surface protection. Our standard chromium 6 free plating show a red corrosion resistance of at least 400 hours in accordance with DIN EN 9227.



And if you're operating in corrosive or highly caustic applications, Parker's proprietary XTR coating formulation has been tested to resist corroding for more than 720 hours. In addition Parker's XTR coating is compliant with environmental restrictions worldwide, including RoHS, ELV and REACH.

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.

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)

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Grimsby, ONT

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