

# 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

<b>21 MPa</b>	<b>28 MPa</b>	<b>35 MPa</b>	<b>42 MPa</b>
<b>3,000 psi</b>	<b>4,000 psi</b>	<b>5,000 psi</b>	<b>6,000 psi</b>

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, Parker can be expected to continue to meet our own rigorous standards of excellence with the GlobalCore system.

Additional value is realized through:

- 100 °C / 125 °C temperature ratings
- Standard, ToughCover and SuperTough cover technologies for abrasion resistance
- ½ 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's system 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 <sup>a</sup>	Resistance to Impulse		
		Temperature	Impulse Pressure (% of MWP <sup>b</sup> )	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% <sup>c</sup>	500,000
	CC			
D	DC	120°C (250°F)	133%	1,000,000

<sup>a</sup> 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.

<sup>b</sup> Maximum working pressure.

<sup>c</sup> 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	*1)	*1)	787	787	787	787	787	787	787
42 MPa / 6,000 psi	*1)	*1)	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	77*2)	77	77
28 MPa / 4,000 psi	43/48	43/48	43/48	43/48	43/48	43/48*3)	77	77	77
35 MPa / 5,000 psi	*1)	*1)	77	77	77	77	77	77	77
42 MPa / 6,000 psi	*1)	*1)	77	77	77	77	77	77	77

\*1) Not part of GlobalCore family. See Parker catalog CAT/4400 for alternative product.

\*2) Available also with 43 series

\*3) 48 series under development

## 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.





# Leading the World.

## Global

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

Produced with the same performance and manufacturing specification in production plants located in all the continents, GlobalCore can support your hydraulic hose needs regardless of where your equipment was originally manufactured or is today

## 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](http://parkerglobalcore.com) for the latest list of hose and classification body type approvals.



# 797 / 797TC Compact Spiral™ Hose

High pressure, low weight makes installation easy



Parker's GlobalCore 797 hose provides 42 MPa (6,000 psi) 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.



- 1/2 the bend radius of SAE spiral
- 42 MPa (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 / 797TC No-Skive Compact Spiral™



Part Number	ISO 18752 Performance		Hose I.D.				Hose O.D. mm	Pressure Rating				min. bend radius mm	weight kg
	Standard Cover 797	Tough Cover 797TC	DN	Inch	Size	mm		max. working pressure	min. burst pressure	max. working pressure	min. burst pressure		
	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi			
797XX-8	BC	DC	12	1/2	-8	12.7	21.1	42.0	6000	168.0	24000	100	0.67
797XX-10	BC	DC	16	5/8	-10	15.9	23.9	42.0	6000	168.0	24000	115	0.80
797XX-12	BC	DC	19	3/4	-12	19.1	27.9	42.0	6000	168.0	24000	135	1.16
797XX-16	BC	DC	25	1	-16	25.4	35.7	42.0	6000	168.0	24000	165	1.74
797XX-20	BC	DC	31	1 1/4	-20	31.8	44.9	42.0	6000	168.0	24000	225	2.89
797XX-24	BC	CC	38	1 1/2	-24	38.1	52.8	42.0	6000	168.0	24000	305	3.96
797XX-32	BC	CC	51	2	-32	50.8	67.6	42.0	6000	168.0	24000	380	6.50

Replace the hose when any deformation or damage on the hose cover are visible. The combination of high temperature and high pressure could reduce the hose life.

### Construction

Tube: Proprietary synthetic rubber  
 Reinforcement: Four or six spirals high-tensile steel wire  
 Standard Cover: Synthetic rubber  
 TC Cover: High abrasion resistance  
 MSHA approved synthetic rubber

### Recommended Fluids

Petroleum base hydraulic fluids and lubricating oils.

### Fitting Series



### Temperature Range

Standard Cover: ..... -40 °C up to +100 °C  
 TC Cover: ..... -40 °C up to +125 °C  
 Exception: Air ..... max. +70 °C  
 Water ..... max. +85 °C

### How to order

797 Hose with **standard** cover: leave **xx blank**  
 797 Hose with **TC** cover: replace **xx** by **TC**

# 787 / 787TC Compact Spiral™ Hose

Lighter weight, high flexibility make installation easy



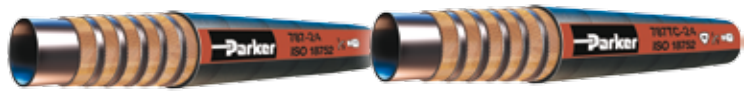
Parker's GlobalCore 787 hose provides 35 MPa (5,000 psi) constant working pressure in all sizes. Compared with conventional spiral hose, 787 hose offers measurably greater advantages in routing and installation, product size and weight, inventory savings and much more. The 787 hose exceeds the ISO 18752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



- ½ ISO 18752 minimum bend radius
- 35 MPa (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 / 787TC No-Skive Compact Spiral™



Part Number	Cover		Hose I.D.				Hose O.D.		Pressure Rating				min. bend radius	weight
	Standard Cover 787	Tough Cover 787TC	DN	Inch	Size	mm	mm	max. working pressure		min. burst pressure				
								MPa	psi	MPa	psi			
787XX-8	BC	DC	12	1/2	-8	12.7	21.1	35.0	5000	140.0	20000	90	0.67	
787XX-10	BC	DC	16	5/8	-10	15.9	23.9	35.0	5000	140.0	20000	100	0.80	
787XX-12	BC	DC	19	3/4	-12	19.1	27.9	35.0	5000	140.0	20000	120	1.16	
787XX-16	BC	DC	25	1	-16	25.4	35.7	35.0	5000	140.0	20000	150	1.74	
787XX-20	BC	DC	31	1 1/4	-20	31.8	44.9	35.0	5000	140.0	20000	210	2.89	
787XX-24	BC	DC	38	1 1/2	-24	38.1	52.8	35.0	5000	140.0	20000	255	3.96	
787XX-32	BC	DC	51	2	-32	50.8	67.6	35.0	5000	140.0	20000	318	6.50	

Replace the hose when any deformation or damage on the hose cover are visible. The combination of high temperature and high pressure could reduce the hose life.

### Construction

- Tube: Proprietary synthetic rubber
- Reinforcement: Four or six spirals high-tensile steel wire
- Standard Cover: Synthetic rubber
- TC Cover: High abrasion resistance MSHA approved synthetic rubber

### Recommended Fluids

Petroleum base hydraulic fluids and lubricating oils.

### Fitting Series



### Temperature Range

- Standard Cover: -40 °C up to +100 °C
- TC Cover: -40 °C up to +125 °C
- Exception: Air max. +70 °C
- Water max. +85 °C

**How to order**

787 Hose with **standard** cover: leave **xx blank**

787 Hose with **TC** cover: replace **xx** by **TC**

# 722 / 722TC / 722ST Hose

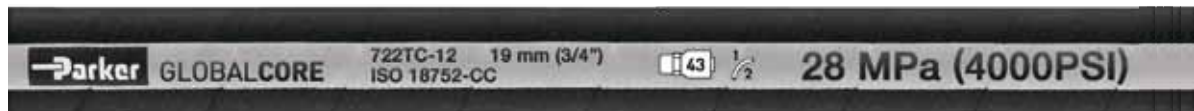
## Resilient 4-wire spiral construction



Parker's GlobalCore 722 spiral hose provides 28 MPa (4,000 psi) 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
- 28 MPa (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 / 722TC / 722ST

*No-Skive* GlobalCore



Part Number	ISO 18752 Performance			Hose I.D.				Pressure Rating				min. bend radius	weight	
	Standard Cover 722	Tough Cover 722TC	Super Tough 722ST	DN	Inch	Size	mm	Hose O.D. mm	max. working pressure MPa	psi	min. burst pressure MPa			psi
722XX-6	BC	CC	CC	10	3/8	-6	9.5	19.9	28.0	4000	112.0	16000	65	0.60
722XX-8	BC	CC	CC	12	1/2	-8	12.7	22.7	28.0	4000	112.0	16000	90	0.80
722XX-10	BC	CC	CC	16	5/8	-10	15.9	26.4	28.0	4000	112.0	16000	100	1.10
722XX-12	BC	CC	CC	19	3/4	-12	19.1	30.7	28.0	4000	112.0	16000	120	1.40
722XX-16	BC	CC	CC	25	1	-16	25.4	37.8	28.0	4000	112.0	16000	150	1.99

The combination of high temperature and high pressure could reduce the hose life.

### Construction

Tube: Synthetic rubber  
 Reinforcement: Four spirals high-tensile steel wire  
 Standard Cover: Synthetic rubber  
 TC Cover: High abrasion resistance  
 MSHA approved synthetic rubber  
 ST Cover: Synthetic rubber  
 with a special polyethylene coating

### Recommended Fluids

Petroleum and water-glycol based fluids, lubricating oils, air and water. For air above 1.7 MPa, the hose cover must be pin-pricked.

### Fitting Series



### Temperature Range

Standard Cover: ..... -40 °C up to +100 °C  
 TC / ST Cover: ..... -40 °C up to +125 °C  
 Exception: Air ..... max. +70 °C  
 Water ..... max. +85 °C

### How to order

722 Hose with **standard** cover: leave **xx blank**  
 722 Hose with **TC** cover: replace **xx** by **TC**  
 722 Hose with **ST** cover: replace **xx** by **ST**



# 487 / 487TC / 487ST Hose

Highly flexible across all sizes



Parker's GlobalCore 487 hose provides 28 MPa (4,000 psi) 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
- 28 MPa (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



## 487 / 487TC / 487ST No-Skive GlobalCore



Part Number	Cover Options			Hose I.D.				Hose O.D. mm	Pressure Rating				min. bend radius mm	weight kg
	Standard Cover 487	Tough Cover 487TC	Super Tough 487ST	DN	Inch	Size	mm		max. working pressure MPa	psi	min. burst pressure MPa	psi		
	ISO 18752 Performance													
487XX-4	AC	AC	AC	6	1/4	-4	6.4	13.1	28.0	4000	112.0	16000	50	0.30
487XX-6	AC	AC	AC	10	3/8	-6	9.5	17.2	28.0	4000	112.0	16000	65	0.42
487XX-8	AC	AC	AC	12	1/2	-8	12.7	20.4	28.0	4000	112.0	16000	90	0.52
487XX-10	AC	AC	AC	16	5/8	-10	15.9	23.9	28.0	4000	112.0	16000	100	0.66
487XX-12	AC	AC	AC	19	3/4	-12	19.1	27.8	28.0	4000	112.0	16000	120	0.86
487XX-16	BC	CC	CC	25	1	-16	25.4	37.8	28.0	4000	112.0	16000	150	1.99
487XX-20	BC	CC	CC	31	1 1/4	-20	31.8	46.3	28.0	4000	112.0	16000	210	2.59
487XX-24	BC	CC	CC	38	1 1/2	-24	38.1	52.8	28.0	4000	112.0	16000	250	3.08
487XX-32	BC	CC	-	51	2	-32	50.8	64.8	28.0	4000	112.0	16000	630*	4.09

The combination of high temperature and high pressure could reduce the hose life.

\*This size only not 1/2 minimum bend.

### Construction

- Tube: Synthetic rubber
- Reinforcement: One- or two-braid steel wire (four-spiral for sizes -20 up to -32)
- Standard Cover: Synthetic rubber
- TC Cover: High abrasion resistance MSHA approved synthetic rubber
- ST Cover: Synthetic rubber with a special polyethylene coating

### Recommended Fluids

Petroleum and water-glycol based fluids, lubricating oils, air and water. For air above 1.7 MPa, the hose cover must be pin-pricked.

### Fitting Series

- size -4 up to -16
- size -20 up to -32



\* size -16 under development with 48 series

### Temperature Range

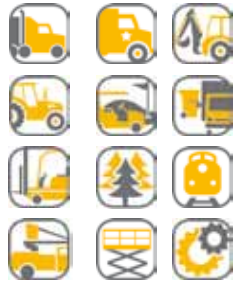
- Standard Cover: ..... -40 °C up to +100 °C
- TC / ST Cover: ..... -40 °C up to +125 °C
- Exception: Air ..... max. +70 °C
- Water ..... max. +85 °C

### How to order

- 487 Hose with **standard** cover: leave **xx blank**
- 487 Hose with **TC** cover: replace **xx** by **TC**
- 487 Hose with **ST** cover: replace **xx** by **ST**

# 387 / 387TC / 387ST Hose

Delivering value and performance for high-pressure systems



Parker's GlobalCore 387 hose provides 21 MPa (3,000 psi) 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
- 21 MPa (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



## 387 / 387TC / 387ST No-Skive GlobalCore



Part Number	Cover Options			Hose I.D.				Hose O.D.		Pressure Rating				min. bend radius	weight
	Standard Cover 387	Tough Cover 387TC	Super Tough 387ST	DN	Inch	Size	mm	mm	max. working pressure	min. burst pressure	MPa	psi	MPa		
387XX-4	AC	AC	AC	6	1/4	-4	6.4	13.4	21.0	3000	84.0	12000	50	0.24	
387XX-6	AC	AC	AC	10	3/8	-6	9.5	17.4	21.0	3000	84.0	12000	65	0.34	
387XX-8	AC	AC	AC	12	1/2	-8	12.7	20.7	21.0	3000	84.0	12000	90	0.43	
387XX-10	AC	AC	AC	16	5/8	-10	15.9	23.9	21.0	3000	84.0	12000	100	0.49	
387XX-12	AC	AC	AC	19	3/4	-12	19.1	27.8	21.0	3000	84.0	12000	120	0.86	
387XX-16	AC	AC	AC	25	1	-16	25.4	35.4	21.0	3000	84.0	12000	150	1.17	
387XX-20	BC	CC	CC	31	1 1/4	-20	31.8	46.3	21.0	3000	84.0	12000	210	2.59	
387XX-24	BC	CC	CC	38	1 1/2	-24	38.1	52.8	21.0	3000	84.0	12000	250	2.99	
387XX-32	BC	CC	CC	51	2	-32	50.8	66.2	21.0	3000	84.0	12000	320	4.09	

The combination of high temperature and high pressure could reduce the hose life.

### Construction

- Tube: Synthetic rubber  
 Reinforcement: One- or two-braid steel wire (four-spiral for sizes -20 up to -32)  
 Standard Cover: Synthetic rubber  
 TC Cover: High abrasion resistance MSHA approved synthetic rubber  
 ST Cover: Synthetic rubber with a special polyethylene coating

### Recommended Fluids

Petroleum and water-glycol based fluids, lubricating oils, air and water. For air above 1.7 MPa, the hose cover must be pin-pricked.

### Fitting Series

- size -4 up to -16  
 size -20 up to -32



\* size -20 also available with 43 series

### Temperature Range

- Standard Cover: ..... -40 °C up to +100 °C  
 TC / ST Cover: ..... -40 °C up to +125 °C  
 Exception: Air ..... max. +70 °C  
 Water ..... max. +85 °C

### How to order

- 387 Hose with **standard** cover: leave **xx blank**  
 387 Hose with **TC** cover: replace **xx** by **TC**  
 387 Hose with **ST** cover: replace **xx** by **ST**

# 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 43/48 or 77 Series fittings, Parker's Rapid Service Unit 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.

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