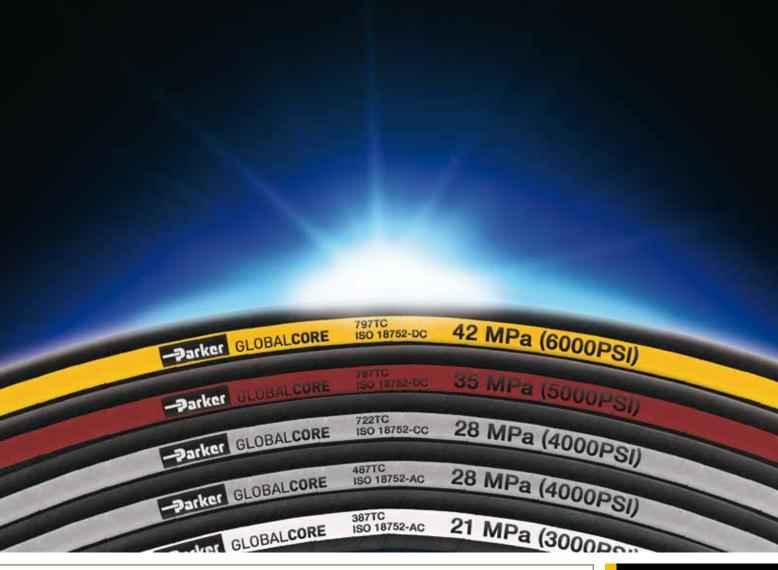
## Five Hoses. Two Fittings. One Solution.



## **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



## 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 in21 MPa28 MPa35 MPa42 MPa3,000 psi4,000 psi5,000 psi6,000 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, 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

ISO 18752 Performance Definitions (4.2 Grades and Types)												
		Resistance to Impulse										
Grade	Typea	Temperature	Impulse Pressure (% of MWPb)	Minimum Number of Cycles								
Α	AS	100°C (212°F)	133%	200.000								
	AC	100 0 (212 1)	10070	200,000								
В	BS	10000 (01005)	133%	500.000								
В	ВС	100°C (212°F)	13370	500,000								
С	CS	100°C (050°E)	133% and 120% <sup>c</sup>	500.000								
·	C	120°C (250°F)	133% and 120%	500,000								
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.

b Maximum working pressure.

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.

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.

 $<sup>^{\</sup>rm c}$  120% of the MWP shall be used for classes 350, 420 and 560 instead of 133%.

## 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

<sup>\*1]</sup> Not part of GlobalCore family. See Parker catalog CAT/4400 for alternative product.

### **Cover Options**

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



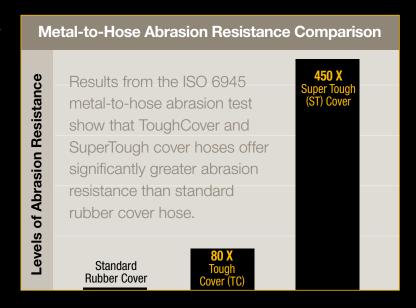
Our Standard cover is a durable synthetic rubber that provides protection from light abrasion, as well as other harmful environmental conditions (UV, ozone).



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.



<sup>\*2]</sup> Available also with 43 series

<sup>\*3] 48</sup> series under development

## 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 for the latest list of hose and classification body type approvals.



## 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





Part Number	Standard Cover 487	Tough Cover 487TC	Super Tough 487ST		Hose I.D.				max work pres	king	it sure	min. bend radius	weight	
	ISO 187	752 Perfor	mance	DN	Inch	Size	mm	mm	MPa	psi	MPa	psi	mm	kg
487 <b>XX</b> -4	AC	AC	AC	6	1/4	-4	6.4	13.1	28.0	4000	112.0	16000	50	0.30
487 <b>XX</b> -6	AC	AC	AC	10	3/8	-6	9.5	17.2	28.0	4000	112.0	16000	65	0.42
487 <b>XX</b> -8	AC	AC	AC	12	1/2	-8	12.7	20.4	28.0	4000	112.0	16000	90	0.52
487 <b>XX</b> -10	AC	AC	AC	16	5/8	-10	15.9	23.9	28.0	4000	112.0	16000	100	0.66
487 <b>XX</b> -12	AC	AC	AC	19	3/4	-12	19.1	27.8	28.0	4000	112.0	16000	120	0.86
487 <b>XX</b> -16	BC	CC	CC	25	1	-16	25.4	37.8	28.0	4000	112.0	16000	150	1.99
487 <b>XX</b> -20	BC	CC	CC	31	1 1/4	-20	31.8	46.3	28.0	4000	112.0	16000	210	2.59
487 <b>XX</b> -24	BC	CC	CC	38	1 1/2	-24	38.1	52.8	28.0	4000	112.0	16000	250	3.08
487 <b>XX</b> -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 mimimum 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: **487** Hose with **TC** cover:

487 Hose with ST cover:

leave xx blank replace xx by TC replace xx by ST

## 387 / 387TC / 387ST Hose

#### Delivering value and performance for high-pressure systems



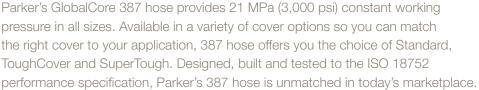




















- Low force to flex for ease of installation
- 21 MPa (3,000 psi) constant working pressure in all sizes
- Exceeds ISO 18752 performance specification (AC, BC and CC)
- Synthetic rubber inner tube provides a wider range of fluid compatibility
- TC cover provides 80 times the abrasion resistance compared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





#### 387 / 387TC / 387ST





Part Number	Standard Cover 387	Tough Cover 387TC	Super Tough 387ST		Hose I.D.				max work pres	king	e Rating min. burs pres		min. bend radius	weight
	ISO 187	52 Perfor	mance	DN	Inch	Size	mm	mm	MPa	psi	MPa	psi	mm	kg
387 <b>XX</b> -4	AC	AC	AC	6	1/4	-4	6.4	13.4	21.0	3000	84.0	12000	50	0.24
387 <b>xx</b> -6	AC	AC	AC	10	3/8	-6	9.5	17.4	21.0	3000	84.0	12000	65	0.34
387 <b>xx</b> -8	AC	AC	AC	12	1/2	-8	12.7	20.7	21.0	3000	84.0	12000	90	0.43
387 <b>xx</b> -10	AC	AC	AC	16	5/8	-10	15.9	23.9	21.0	3000	84.0	12000	100	0.49
387 <b>XX</b> -12	AC	AC	AC	19	3/4	-12	19.1	27.8	21.0	3000	84.0	12000	120	0.86
387 <b>XX</b> -16	AC	AC	AC	25	1	-16	25.4	35.4	21.0	3000	84.0	12000	150	1.17
387 <b>XX</b> -20	BC	CC	CC	31	1 1/4	-20	31.8	46.3	21.0	3000	84.0	12000	210	2.59
387 <b>XX</b> -24	BC	CC	CC	38	1 1/2	-24	38.1	52.8	21.0	3000	84.0	12000	250	2.99
387 <b>XX</b> -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

## 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





	<b>©</b>	TC	ST		<b>(</b>	$\triangleright$		<b>(</b>		Pressur	e Rating		5	
Part Number	Standard Cover 722	Tough Cover 722TC	Super Tough 722ST		Ho I.	ose D.		Hose O.D.	max work pres	king	min. burs pres		min. bend radius	weight
	ISO 187	752 Perfoi	rmance	DN	Inch	Size	mm	mm	MPa	psi	MPa	psi	mm	kg
722 <b>XX</b> -6	BC	CC	CC	10	3/8	-6	9.5	19.9	28.0	4000	112.0	16000	65	0.60
722 <b>XX</b> -8	BC	CC	CC	12	1/2	-8	12.7	22.7	28.0	4000	112.0	16000	90	0.80
722 <b>XX</b> -10	BC	CC	CC	16	5/8	-10	15.9	26.4	28.0	4000	112.0	16000	100	1.10
722 <b>XX</b> -12	BC	CC	CC	19	3/4	-12	19.1	30.7	28.0	4000	112.0	16000	120	1.40
722 <b>XX</b> -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

Water ..... max. +85 °C

#### 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

How to order



#### Temperature Range

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

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

722 Hose with ST cover:

## 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.



- ½ 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-Slive Compact Spiral™



	0	TC		<b>(</b>	$\triangleright$		$\odot$		Pressur	e Rating		5	
Part Number	Standard Cover 797	Tough Cover 797TC		Ho I.I	<del>- -</del> ose D.		Hose O.D.	max work pres	king	min. burs pres		min. bend radius	weight
	ISO 18752 F	erformance	DN	Inch	Size	mm	mm	MPa	psi	MPa	psi	mm	kg
797 <b>XX</b> -8	BC	DC	12	1/2	-8	12.7	21.1	42.0	6000	168.0	24000	100	0.67
797 <b>XX</b> -10	BC	DC	16	5/8	-10	15.9	23.9	42.0	6000	168.0	24000	115	0.80
797 <b>XX</b> -12	BC	DC	19	3/4	-12	19.1	27.9	42.0	6000	168.0	24000	135	1.16
797 <b>XX</b> -16	BC	DC	25	1	-16	25.4	35.7	42.0	6000	168.0	24000	165	1.74
797 <b>XX</b> -20	BC	DC	31	1 1/4	-20	31.8	44.9	42.0	6000	168.0	24000	225	2.89
797 <b>XX</b> -24	BC	CC	38	1 1/2	-24	38.1	52.8	42.0	6000	168.0	24000	305	3.96
797 <b>xx</b> -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:797 Hose with TC cover:

leave xx blank 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-Slive Compact Spiral™



	<b>©</b>	TC		<b>(</b>	$\bigcirc$		lacktriangle		Pressur	e Rating		5	
Part Number	Standard Cover 787	Tough Cover 787TC		Ho I.I	se		Hose O.D.	max work pres	king	min. burs pres	it	min. bend radius	weight
	ISO 18752 F	erformance	DN	Inch	Size	mm	mm	MPa	psi	MPa	psi	mm	kg
787 <b>XX</b> -8	BC	DC	12	1/2	-8	12.7	21.1	35.0	5000	140.0	20000	90	0.67
787 <b>XX</b> -10	BC	DC	16	5/8	-10	15.9	23.9	35.0	5000	140.0	20000	100	0.80
787 <b>XX</b> -12	BC	DC	19	3/4	-12	19.1	27.9	35.0	5000	140.0	20000	120	1.16
787 <b>XX</b> -16	BC	DC	25	1	-16	25.4	35.7	35.0	5000	140.0	20000	150	1.74
787 <b>XX</b> -20	BC	DC	31	1 1/4	-20	31.8	44.9	35.0	5000	140.0	20000	210	2.89
787 <b>XX</b> -24	BC	DC	38	1 1/2	-24	38.1	52.8	35.0	5000	140.0	20000	255	3.96
787 <b>XX</b> -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

Water ..... max. +85 °C

#### 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

#### How to order

787 Hose with **standard** cover: leave **xx blank** 787 Hose with **TC** cover: replace **xx** by **TC** 



## 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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