

GLOBAL CORE™

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 – North America, Europe and Asia – supporting the equipment they serve, regardless of where it was originally manufactured, or where it is today.

Designed, built and tested to the ISO 18752 specifications, 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.

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	787	787
42 MPa / 6,000 psi	797	797	797	797	797	797	797	797	797

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



Leading the World.

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 their 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:

- 212° / 257° F 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 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 construction. It's a truer specification based on today's needs. Although the specification covers hoses ranging from 500 psi through 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 - 3,000 psi to 6,000 psi in sizes -4 through -32.

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

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.

Simple

The GlobalCore system is simple. With only five hoses, you'll enjoy selecting the right hose based on working pressure.

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

Agency Approvals

GlobalCore will carry the most common international agency approvals as requested by our customers. ABS, DNV, Lloyd's, MSHA, 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 agency approvals.



HYDRAULIC

387

Markets



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 specifications. Parker's 387 hose is unmatched in today's marketplace.

- 1/2 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

Performance



387 Hydraulic – Constant Working Pressure ISO 18752 - AC/BC/CC



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

Application: Petroleum base hydraulic fluids and lubricating oils.

Inner Tube: Synthetic rubber.

Reinforcement: One or two braided steel wire (4-spiral for size -20, -24 and -32).

Cover: Standard Cover: Synthetic rubber
 ToughCover: Synthetic rubber abrasion resistant
 SuperTough: Synthetic rubber super abrasion resistant

Fittings: 43 Series, sizes -4 to -20 - pg. B-25.
 77 Series, sizes -20 to -32 - pg. B-94.

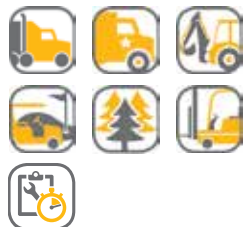
Temperature Range: Standard Cover: -40°F to +212°F (-40°C to +100°C)
 ToughCover & SuperTough: -40°F to +257°F (-40°C to +125°C)



HYDRAULIC

487

Markets



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

Performance



487 Hydraulic – Constant Working Pressure

ISO 18752 - AC/BC/CC



# Part Number	Standard Cover	TC Tough Cover	ST Super Tough	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp 43 Series	Parkrimp 77 Series
	487	487TC	487ST	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m		
487-4	AC	AC	AC	1/4	6,3	0.52	13,1	4000	28,0	2	50	0.20	0,30	●	
487-6	AC	AC	AC	3/8	10	0.68	17,2	4000	28,0	2-1/2	65	0.28	0,42	●	
487-8	AC	AC	AC	1/2	12,5	0.81	20,4	4000	28,0	3-1/2	90	0.35	0,52	●	
487-10	AC	AC	AC	5/8	16	0.94	23,9	4000	28,0	4	100	0.44	0,66	●	
487-12	AC	AC	AC	3/4	19	1.10	27,8	4000	28,0	4-3/4	120	0.58	0,86	●	
487-16	BC	CC	CC	1	25	1.49	37,8	4000	28,0	6	150	1.34	1,99	●	
487-20	BC	CC	CC	1-1/4	31,5	1.82	46,3	4000	28,0	8-1/4	210	1.74	2,59		●
487-24	BC	CC	CC	1-1/2	38	2.03	52,8	4000	28,0	10	250	2.07	3,08		●
487-32	BC	CC	CC	2	51	2.65	67,3	4000	28,0	12-1/2	320	4.35	6,47		●

Application: Petroleum base hydraulic fluids and lubricating oils

Inner Tube: Synthetic rubber

Reinforcement: One- or two-braid steel wire (four-spiral for sizes -16, -20,-24 and -32)

Cover: Standard Cover: Synthetic rubber
 ToughCover: Synthetic rubber abrasion resistant
 SuperTough: Synthetic rubber super abrasion resistant

Fittings: 43 Series, sizes -4 to -16 - pg. B-25.
 77 Series, sizes -20 to -32 - pg. B-94.

Temperature Range: Standard Cover: -40°F to +212°F (-40°C to +100°C)
 ToughCover & SuperTough: -40°F to +257°F (-40°C to +125°C)

HYDRAULIC

722

Markets



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, Tough Cover and Super Tough cover options. It is one-half the bend radius of 100R12 hose, making it easy to install and reducing the amount of hose needed. Meeting 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

Performance



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	28,0	2-1/2	65	0.40	0,60	●
722-8	BC	CC	CC	1/2	12,5	0.89	22,7	4000	28,0	3-1/2	90	0.54	0,80	●
722-10	BC	CC	CC	5/8	16	1.04	26,4	4000	28,0	4	100	0.74	1,10	●
722-12	BC	CC	CC	3/4	19	1.21	30,7	4000	28,0	4-3/4	120	0.94	1,40	●
722-16	BC	CC	CC	1	25	1.50	37,8	4000	28,0	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 - pg. B-25.

Temperature Range: Standard Cover: -40°F to +212°F (-40°C to +100°C) - BC
 ToughCover & SuperTough: -40°F to +257°F (-40°C to +125°C)

HYDRAULIC

787

A

Markets



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

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

B

Performance



C

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



D

# Part Number															
	Standard Cover	Tough Cover	Super Tough Cover	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp	Parkrimp
	787	787TC	787ST	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	43 Series	77 Series
787-4	AC	AC	AC	1/4	6,3	0.51	13,0	5000	35,0	2	50	0.21	0.31	●	
787-6	AC	AC	AC	3/8	10	0.68	17,2	5000	35,0	2-1/2	63	0.28	0.42	●	
787-8	BC	DC	DC	1/2	12,5	0.83	21,1	5000	35,0	3-1/2	90	0.45	0,67		●
787-10	BC	DC	DC	5/8	16	0.94	23,9	5000	35,0	4	100	0.54	0,80		●
787-12	BC	DC	DC	3/4	19	1.10	27,9	5000	35,0	4-3/4	120	0.78	1,16		●
787-16	BC	DC	DC	1	25	1.40	35,7	5000	35,0	6	150	1.17	1,74		●
787-20	BC	DC	DC	1-1/4	31,5	1.77	44,9	5000	35,0	8-1/4	210	1.95	2,89		●
787-24	BC	DC	DC	1-1/2	38	2.08	52,8	5000	35,0	10	255	2.66	3,96		●
787-32	BC	DC	DC	2	51	2.66	67,6	5000	35,0	12-1/2	318	4.37	6,50		●

E

Application: Petroleum-based hydraulic fluids, lubricating oils

Inner Tube: Proprietary synthetic rubber

Reinforcement: Two-braid steel wire for sizes -4 to -6, Four- or six-compact spiral steel wires for sizes -8 to -32

Cover: Standard Cover: Synthetic rubber
 ToughCover: Synthetic rubber abrasion resistant
 SuperTough: Synthetic rubber super abrasion resistant

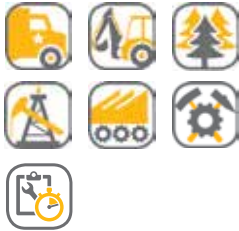
Fittings: 43 Series: sizes -4 to -6 - pg. B-25
 77 Series: sizes -8 to -32 - pg. B-94

Temperature Range: Standard Cover: -40°F to +212°F (-40°C to +100°C)
 ToughCover & SuperTough: -40°F to +257°F (-40°C to +125°C)
 (-4 to -6 rated to +212°F)

HYDRAULIC

797

Markets



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

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

Performance



797

Hydraulic – Constant Working Pressure
ISO 18752 - AC/BC/CC/DC



# Part Number	Standard Cover	Tough Cover	Super Tough Cover	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp 43 Series	Parkrimp 77 Series			
				797	797TC	797ST	inch	mm	inch	mm	psi	MPa	inch			mm	lbs/ft	kg/m
				ISO 18752 Performance			inch	mm	inch	mm	psi	MPa	inch			mm	lbs/ft	kg/m
797-4	AC	AC	AC	1/4	6,3	0.51	13,0	6000	42,0	2	50	0.21	0,31	•				
797-6	BC	CC	CC	3/8	10	0.66	17,0	6000	42,0	2-1/2	63	0.31	0,46	•				
797-8	BC	DC	DC	1/2	12,5	0.83	21,1	6000	42,0	4	100	0.45	0,67		•			
797-10	BC	DC	DC	5/8	16	0.94	23,9	6000	42,0	4-1/2	115	0.54	0,80		•			
797-12	BC	DC	DC	3/4	19	1.10	27,9	6000	42,0	5-1/4	135	0.78	1,16		•			
797-16	BC	DC	DC	1	25	1.40	35,7	6000	42,0	6-1/2	165	1.17	1,74		•			
797-20	BC	DC	DC	1-1/4	31,5	1.77	44,9	6000	42,0	8-3/4	225	1.95	2,89		•			
797-24	BC	CC	CC	1-1/2	38	2.08	52,8	6000	42,0	12	305	2.66	3,96		•			
797-32	BC	CC	CC	2	51	2.66	67,6	6000	42,0	15	380	4.37	6,50		•			

Application: Petroleum-based hydraulic fluids, lubricating oils

Inner Tube: Proprietary synthetic rubber

Reinforcement: Two-braid steel wire for sizes -4, Four- or six-compact spiral steel wires for sizes -6 to -32

Cover: Standard Cover: Synthetic rubber

ToughCover: Synthetic rubber abrasion resistant

SuperTough: Synthetic rubber super abrasion resistant

Fittings: 43 Series: sizes -4 to -6 - pg. B-25

77 Series: sizes -8 to -32 - pg. B-94

Temperature Range: Standard Cover: -40°F to +212°F (-40°C to +100°C)

ToughCover & SuperTough: -40°F to +257°F (-40°C to +125°C)

(-4 rated to +212°F)