

# Hydraulic Hose A



A

## HOSE VISUAL INDEX

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	 ISO 18752	 ISO 18752	 ISO 18752
	797/TC/ST A-12	811 A-13	811HT A-14
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B

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## HOSE ACCESSORIES VISUAL INDEX

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1/4"

5/16"

3/8"

1/2"

5/8"

3/4"











1"

1-1/4"

1-1/2"

2"

# HOSE OVERVIEW CHART

Hose Size	Hose Reinforcement	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32	-40	-48	Standard Temp. Range °F	SAE	ISO	EN	Page
AG2R		3000		4000	3500	2750	2250	2000						-40/+212	J1942			A-5
HR2C/HR2CR		5000		4000	3500	2750								-40/+212				A-6
HTBR		7000		5500	5000	4000	4000	3500						-40/+212				A-7
387ST		3000		3000	3000	3000	3000	3000	3000	3000	3000			-40/+257		18752		A-8
487/TC/ST		4000		4000	4000	4000	4000	4000	4000	4000	4000			-40/+212/ +257		18752		A-9
722/TC/ST		4000		4000	4000	4000	4000	4000						-40/+212/ +257		18752		A-10
787/TC/ST		5000		5000	5000	5000	5000	5000	5000	5000	5000			-40/+212/ +267		18752		A-11
797/TC/ST		6000		6000	6000	6000	6000	6000	6000	6000	6000			-40/+212/ +267		18752		A-12
811							300	250	200	160	100	62		-40/+212	J517 100R4			A-13
811HT							300	250	200	160	100	62		-50/+257	J517 100R4/ J1942			A-14

1/4"

5/16"

3/8"

1/2"

5/8"

3/4"

1"

1-1/4"

1-1/2"

2"



A

## Catalog Sections

	Hydraulic Hose		Specialty Hose
	Hydraulic Hose Fittings		Crimping Equipment
	General Purpose Hose (Push-Lok Plus) & Fittings		Technical
	Refrigeration Hose & Fittings		

## Parker Hose Nomenclature

Example: 387ST-8

**387ST-8** - Hose Type**387ST-8** - Indicates the special feature of the hose (in this case, 'Tough Cover')**387ST-8** - Hose inside diameter dash size (in this case, 8/16" or 1/2")

B

## Hose Information

- Base part number
- Description
- SAE, ISO, and EN specifications

## Hose Inner Diameter

Measured in 1/16 inch increments identified by use of a "dash"(-) numbering system. i.e., 4/16" = 1/4" = -4.

## Hose Outer Diameter

A critical measurement when considering hose clamps and applications where envelope size is limited.

## Hose Working Pressure

Should have a working pressure rating meeting or exceeding the maximum operating pressure of the system. The maximum rating is listed below for where the hose is to be used.










Visually shows

**hose construction.**1  
2

### 387ST

Hydraulic - Constant Working Pressure  
ISO 18752



# Part Number	 Super Tough 387ST ISO 18752 Performance*	 Hose I.D.		 Hose O.D.		 Working Pressure		 Minimum Bend Radius		 Weight		 Vacuum Rating		 Parkrimp		 Parkrimp	
		inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa	43 Series	77 Series		
387ST-4	AC	1/4	6,3	0.53	13,4	3000	21,0	2	50	0,16	0,24	24	80	•			
387ST-6	AC	3/8	10	0.69	17,4	3000	21,0	2-1/2	65	0,23	0,34	24	80	•			
387ST-8	AC	1/2	12,5	0.82	20,7	3000	21,0	3-1/2	90	0,29	0,43	24	80	•			
387ST-10	AC	5/8	16	0.94	23,9	3000	21,0	4	100	0,33	0,49	24	80	•			
387ST-12	AC	3/4	19	1.10	27,8	3000	21,0	4-3/4	120	0,58	0,86	24	80	•			
387ST-16	AC	1	25	1.40	35,4	3000	21,0	6	150	0,79	1,17	24	80	•			
387ST-20	CC	1-1/4	31,5	1.82	46,3	3000	21,0	8-1/4	210	1,74	2,59	18	60	•	•		
387ST-24	CC	1-1/2	38	2.08	52,8	3000	21,0	10	250	2,01	2,99	18	60		•		
387ST-32	CC	2	51	2.61	66,2	3000	21,0	12-1/2	320	2,75	4,09	18	60		•		

**Application:** Petroleum base hydraulic fluids and lubricating oils.**Inner Tube:** Synthetic rubber.

**Reinforcement:** One-braid steel wire for sizes -4 to -8.  
Two-braid steel wire for sizes -10 to -16.  
Four-spiral steel wire for sizes -20 to -32.

**Cover:** Synthetic rubber super abrasion resistant.

For more information regarding hose application and temperature, see the Technical Section.

## Minimum Bend Radius

Is the smallest arc that the hose can be bent before its life is greatly reduced. Exceeding the bend radius can cause kinking, inner tube washout and excessive stress on reinforcement.

## Weight

Provided by the foot for instances where it is a critical parameter in the design of the system.

## Approved Fitting

To be used with the hose. Could be crimped or field attachable.

1/4"

5/16"

3/8"

1/2"

5/8"

3/4"

1"

1-1/4"

1-1/2"

2"

# HYDRAULIC AG2R

Parker's AG2R hose is a hydraulic industry standard hose that has a pressure range of 2500-5800 PSI, with a synthetic rubber inner tube which provides wide fluid compatibility. The two-wire braided construction offers more flexibility than the standard spiral counterpart in order to fit your needs. Sizes range from 1/4" to 1" in diameter.

- Designed as a cost competitive option for applications not requiring industry standard specifications
- 2-wire braided compact construction offers more flexibility
- Half SAE bend radius for ease of installation and low force to flex
- 2500-5800 PSI working pressure in different sizes
- Abrasion resistant synthetic rubber cover
- Approved with 43 Series fittings

## AG2R Hydraulic SAE J1942



# Part Number	Reel Length	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Vaccum Rating	
		inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa
AG2R-4	475	1/4	6.3	0.51	13	5800	40.0	2	50	0.20	0.30	28	95
AG2R-6	385	3/8	10	0.68	17	5000	35.0	2-1/2	65	0.28	0.42	28	95
AG2R-8	425	1/2	12.5	0.80	20	4250	29.7	3-1/2	90	0.35	0.52	28	95
AG2R-10	300	5/8	16	0.94	24	3625	25.0	4	100	0.44	0.66	28	95
AG2R-12	250	3/4	19	1.09	28	3125	21.5	4-3/4	120	0.58	0.86	24	80
AG2R-16	135	1	25	1.40	35	2500	17.5	6	150	0.79	1.17	24	80

**Application:** Petroleum base hydraulic fluids and lubricating oils.

**Inner Tube:** Synthetic rubber.

**Reinforcement:** Two braids steel wire.

**Cover:** Synthetic rubber, MSHA accepted.

**Temperature Range:** -40°F to +212°F (-40°C to +100°C).

### Parkrimp Crimper

Part Number	Fittings	Die	Die Ring
AG2R-4	43 Series	80C-A04	82C-R01 85C-R01 80C-R01
AG2R-6		80C-A06	
AG2R-8		80C-A08	
AG2R-10		80C-A10	
AG2R-12		80C-A12	
AG2R-16		80C-A16	

### Adjustable Crimper

Part Number	Crimp Diameter		Minimum Crimp Length		Hose Insertions	
	inch	mm	inch	mm	inch	mm
AG2R-4	0.66	16.76	1.97	50	.81	20.5
AG2R-6	0.84	21.34	2.56	65	1.13	28.7
AG2R-8	0.96	24.38	2.56	65	1.31	33.2
AG2R-10	1.07	27.18	2.56	65	1.56	39.6
AG2R-12	1.26	32.00	2.76	70	1.50	38.1
AG2R-16	1.60	40.64	2.76	70	1.75	44.4

**Crimp Diameter Tolerance:** +/- 0.010" (0.25 mm)

Die Ring varies by Parkrimp machine. Please visit <http://www.parker.com/crimpsource> for the latest data.



**WARNING:** This product can expose you to chemicals including Carbon Black, which is known to the State of California to cause cancer. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

1/4"

5/16"

3/8"

1/2"

5/8"

3/4"

1"

1-1/4"

1-1/2"

2"

# HYDRAULIC HR2C/HR2CR

The Pioneer®/Parflex HR2C/HR2CR brand hose has been serving the higher 100R2 pressures in the mobile equipment markets for more than 30 years, gaining the trust of operators, construction workers, rental yards and dealers. The durability of the product has proven the Hybrid® hose design stands out in all general hydraulic applications. The light weight, compact design of HR2C/HR2CR carries on the legacy of Hybrid® hose while offering eased force to flex, a tighter bend radius and improved core compatibility.

Like other Farmex hoses, the thermoplastic core still provides the cleanest fluid conveyance in the market and resists core tube washout and erosion.

- Meets/Exceeds SAE 100R2 and 100R16
- UV, ozone resistant
- MSHA accepted

## HR2C Hydraulic

SAE 100R2 / 100R16



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Vacuum Rating		Parkrimp 43 Series	Parkrimp HY Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa		
HR2CR04	1/4	6	0.54	13,72	5076	35,0	1.97	50,0	0.20	0,29	28	95	●	
HR2C06	3/8	10	0.68	17	4000	27,6	2-1/2	64	0.23	0,34	28	95	●	●
HR2C08	1/2	13	0.82	21	3500	24,1	3-1/2	89	0.29	0,43	28	95	●	●

**Application:** Petroleum base hydraulic fluids and lubricating oils.

**Inner Tube:** Copolyester.

**Reinforcement:** One- or two-braids of high tensile steel wire.

**Cover:** Smooth synthetic rubber

**Fittings:** 43 Series, pg. B-4.

**Temperature Range:** -40°F to +212°F (-40°C to +100°C).  
(Limited to +185°F (+85°C) for synthetic hydraulic fluids and water-based fluids).

**WARNING:** This product can expose you to chemicals including Chloroprene, which is known to the State of California to cause cancer. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

1/4"

5/16"

3/8"

1/2"

5/8"

3/4"

1"

1-1/4"

1-1/2"

2"







# HYDRAULIC HTBR

Designed for high pressure hydraulic applications, Pioneer®/Parflex HTBR Eliminator® Hybrid® hose offers superior performance. State of the art manufacturing and specially developed materials yield four-wire spiral hose performance in a two-wired braid construction. The combination of high pressure capability, more compact O.D. and low force to flex covers a wider range of applications while increasing ease of installation.

- Durable thermoplastic core provides the cleanest fluid conveyance available
- Exceptional chemical compatibility
- Specifically engineered rubber jacket for MSHA applications
- UV & ozone resistant

## HTBR Hydraulic



# Part Number											
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	
HTB06	3/8	10	0.76	19	5500	37,9	6	152	0.37	0,55	●
HTB08	1/2	13	0.90	23	5000	34,5	7	178	0.46	0,68	●
HTB10	5/8	16	1.03	26	4000	27,6	8	203	0.52	0,77	●
HTB12	3/4	19	1.20	30	4000	27,6	9-1/2	241	0.73	1,09	●
HTB16	1	25	1.50	38	3500	24,1	12	305	1.01	1,50	●

**Application:** Petroleum base hydraulic fluids and lubricating oils.

**Inner Tube:** Copolyester.

**Reinforcement:** One- or two-braids of high tensile steel wire.

**Cover:** Smooth synthetic rubber.

**Fittings:** 43 Series, pg. B-4.

**Temperature Range:** -40°F to +212°F (-40°C to +100°C).  
(Limited to +135°F (+57°C) for synthetic hydraulic fluids and water-based fluids).

**WARNING:** This product can expose you to chemicals including Chloroprene, which is known to the State of California to cause cancer. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

1/4"

5/16"

3/8"

1/2"

5/8"

3/4"

1"

1-1/4"

1-1/2"

2"

A

# HYDRAULIC 387ST

Parker's GlobalCore 387ST Hose provides 3,000 psi (21 MPa) constant working pressure in sizes -4 through -32. With a lightweight, flexible design, 387ST Hose improves routing capabilities and maximizes efficiency across sizes and markets.

- ½ ISO 18752 minimum bend radius
- Low force to flex for ease of installation
- Exceeds ISO 18752 performance specification (AC and CC)
- Synthetic rubber inner tube provides a wider range of fluid compatibility
- ST cover 450 times abrasion resistance when compared to standard covers

B

## Performance



C

## 387ST Hydraulic – Constant Working Pressure ISO 18752



D

# Part Number	Super Tough 387ST ISO 18752 Performance*	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Ug Vacuum Rating		Parkrimp	
		inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa	43 Series	77 Series
		387ST													
387ST-4	AC	1/4	6,3	0.53	13,4	3000	21,0	2	50	0.16	0,24	24	80	●	
387ST-6	AC	3/8	10	0.69	17,4	3000	21,0	2-1/2	65	0.23	0,34	24	80	●	
387ST-8	AC	1/2	12,5	0.82	20,7	3000	21,0	3-1/2	90	0.29	0,43	24	80	●	
387ST-10	AC	5/8	16	0.94	23,9	3000	21,0	4	100	0.33	0,49	24	80	●	
387ST-12	AC	3/4	19	1.10	27,8	3000	21,0	4-3/4	120	0.58	0,86	24	80	●	
387ST-16	AC	1	25	1.40	35,4	3000	21,0	6	150	0.79	1,17	24	80	●	
387ST-20	CC	1-1/4	31,5	1.82	46,3	3000	21,0	8-1/4	210	1.74	2,59	18	60	●	●
387ST-24	CC	1-1/2	38	2.08	52,8	3000	21,0	10	250	2.01	2,99	18	60		●
387ST-32	CC	2	51	2.61	66,2	3000	21,0	12-1/2	320	2.75	4,09	18	60		●

**Application:** Petroleum base hydraulic fluids and lubricating oils.

**Inner Tube:** Synthetic rubber.

**Reinforcement:** One-braid steel wire for sizes -4 to -8.  
Two-braid steel wire for sizes -10 to -16.  
Four-spiral steel wire for sizes -20 to -32.

**Cover:** Synthetic rubber super abrasion resistant.

**Fittings:** 43 Series, sizes -4 to -20 - pg. B-4.  
77 Series, sizes -20 to -32 - pg. B-30.

**Temperature Range:** -40°F to +257°F (-40°C to +125°C).

\*Refer to performance specification details under the Technical Section, page G-27. For additional information about GlobalCore, visit [www.parker.com/pioneer](http://www.parker.com/pioneer).

**WARNING:** This product can expose you to chemicals including Chloroprene, which is known to the State of California to cause cancer. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

1/4"

5/16"

3/8"

1/2"

5/8"

3/4"

1"

1-1/4"

1-1/2"

2"



# HYDRAULIC 487/TC/ST

Parker's GlobalCore 487/TC/ST Hose provides 4,000 psi (28 MPa) constant working pressure in sizes -4 through -32. Constructed for high performance, 487/TC/ST Hose is designed for easy installation and handling in even the toughest applications. Highly flexible across all sizes, 487/TC/ST Hose excels in multiple applications around the world.

- ½ ISO 18752 minimum bend radius
- Low force to flex for ease of installation
- Exceeds ISO 18752 performance specification (AC, BC & CC)
- TC cover provides 80 times and ST cover 450 times abrasion resistance when compared to standard covers

## Performance



## 487/TC/ST Hydraulic – Constant Working Pressure ISO 18752



#	Part Number	Standard Cover	Tough Cover	Super Tough	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp 43 Series	Parkrimp 77 Series
487	ISO 18752 Performance*	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:** Two-braid steel wire for sizes -4 to -12.  
Four-spiral steel wire for sizes -16 to -24.  
Six-spiral steel wire for size -32.

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

**Fittings:** 43 Series, sizes -4 to -16 - pg. B-4.  
77 Series, sizes -20 to -32 - pg. B-30.

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

\*Refer to performance specification details under the Technical Section, page G-27. For additional information about GlobalCore, visit [www.parker.com/pioneer](http://www.parker.com/pioneer).

**WARNING:** This product can expose you to chemicals including Carbon Black, which is known to the State of California to cause cancer. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

# HYDRAULIC 722/TC/ST

Parker's GlobalCore 722/TC/ST Hose provides 4,000 psi (28 MPa) constant working pressure in sizes -6 through -16. Designed for high-pressure, high-impulse applications, 722/TC/ST Hose delivers maximum performance and efficiency. The 4-spiral construction of 722/TC/ST Hose ensures ease of installation while reducing the amount of hose needed for your application.










- ½ ISO 18752 minimum bend radius
- 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 and ST cover 450 times abrasion resistance when compared to standard covers

## Performance



## 722/TC/ST Hydraulic – Constant Working Pressure ISO 18752



# Part Number														
	Standard Cover	Tough Cover	Super Tough	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp
	722	722TC	722ST	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	43 Series
	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 Cover: Synthetic rubber super abrasion resistant.

**Fittings:** 43 Series - pg. B-4.

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

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

\*Refer to performance specification details under the Technical Section, page G-27. For additional information about GlobalCore, visit [www.parker.com/pioneer](http://www.parker.com/pioneer).

**WARNING:** This product can expose you to chemicals including Carbon Black, which is known to the State of California to cause cancer. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

1/4"

5/16"

3/8"

1/2"

5/8"

3/4"

1"

1-1/4"

1-1/2"

2"

# HYDRAULIC 787/TC/ST

Parker's GlobalCore 787/TC/ST hose provides 5,000 psi (35 MPa) constant working pressure in sizes -4 through -32. With a Compact Spiral design that offers greater advantages in routing and installation, 787/TC/ST hose delivers superior performance in a lightweight, force-to-flex product.

- ½ ISO 18752 minimum bend radius
- 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
- Weighs less than SAE spiral hose
- TC cover provides 80 times and ST cover 450 times abrasion resistance when compared to standard covers

## Performance



## 787/TC/ST

### Hydraulic – Constant Working Pressure

ISO 18752



# Part Number															
				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	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		•

**Application:** Petroleum base hydraulic fluids and 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 Cover: Synthetic rubber super abrasion resistant.

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

77 Series: sizes -8 to -32 - pg. B-30.

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

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

(-4 to -6 rated to +212°F).

\*Refer to performance specification details under the Technical Section, page G-27. For additional information about GlobalCore, visit [www.parker.com/pioneer](http://www.parker.com/pioneer).

**WARNING:** This product can expose you to chemicals including Carbon Black, which is known to the State of California to cause cancer. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

1/4"

5/16"

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2"

A

# HYDRAULIC 797/TC/ST

Parker's GlobalCore 797 hose provides 6,000 psi (42 MPa) constant working pressure in sizes -4 through -32. Tested up to 2,000,000 cycles, 797 hose provides superior performance and service life with an easy-to-install compact spiral construction for high-pressure, high-impulse applications.

B

- 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
- Weighs less than SAE spiral hose
- TC cover provides 80 times and ST cover 450 times abrasion resistance when compared to standard covers

C

## Performance



## 797/TC/ST

### Hydraulic – Constant Working Pressure

ISO 18752



D

# Part Number															
	Standard Cover 797	Tough Cover 797TC	Super Tough Cover 797ST	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		Weight		Parkrimp 43 Series	Parkrimp 77 Series
	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 base hydraulic fluids and lubricating oils.

**Inner Tube:** Proprietary synthetic rubber.

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

**Cover:** Standard Cover: Synthetic rubber.

ToughCover: Synthetic rubber abrasion resistant.

SuperTough Cover: Synthetic rubber super abrasion resistant.

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

77 Series: sizes -8 to -32 - pg. B-30.

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

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

(-4 rated to +212°F).

\*Refer to performance specification details under the Technical Section, page G-27. For additional information about GlobalCore, visit [www.parker.com/pioneer](http://www.parker.com/pioneer).

**WARNING:** This product can expose you to chemicals including Carbon Black, which is known to the State of California to cause cancer. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

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5/16"

3/8"

1/2"

5/8"

3/4"

1"

1-1/4"

1-1/2"

2"



# HYDRAULIC 811

Parker's 811 hose is a suction and return line that has a working pressure range of 62-300 psi as well as a vacuum rating of 25 in/Hg.

- Up to one-half the SAE minimum bend radius for standard and high-temperature applications
- Meets or exceeds SAE 100R4 requirements
- Suitable for vacuum applications requiring 25 in/Hg
- Oil- and weather-resistant synthetic rubber cover

## Performance



### 811 Suction and Return Line 1/2 SAE Minimum Bend Radius SAE J517 100R4



# Part Number	Hose I.D.		Hose O.D.		Working Pressure				Minimum Bend Radius		Weight		Vacuum Rating		Parkrimp	Field Attachable
	inch	mm	inch	mm	81/88DB psi	81/88DB MPa	88HC psi	88HC MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa	81 Series	88 Series w/HC or DB
811-12	3/4	19,0	1.18	30,0	300	2,1	100	0,7	2-1/2	64	0,42	0,63	25	84	•	•
811-16	1	25,4	1.50	38,0	250	1,7	70	0,5	3	76	0,65	0,96	25	84	•	•
811-20	1-1/4	31,8	1.77	45,0	200	1,4	50	0,3	4	102	0,82	1,22	25	84	•	•
811-24	1-1/2	38,1	2.05	52,0	150	1	50	0,3	5	127	1,04	1,55	25	84	•	•
811-32	2	50,8	2.50	63,6	100	0,7	50	0,3	6	152	1,26	1,87	25	84	•	•
811-40	1-1/2	63,5	3.00	76,2	62	0,4	62	0,4	7	178	1,64	2,45	25	84	•	•

**Application:** Petroleum base hydraulic fluids and lubricating oils.

**Inner Tube:** Synthetic rubber.

**Reinforcement:** Multiple layers of fiber spiral and one helical wire.

**Cover:** Synthetic rubber.

**Temperature Range:** -40°F to +212°F (-40°C to +100°C).

**Fittings:** 81 Series.  
88 Series.

**WARNING:** This product can expose you to chemicals including Carbon Black, which is known to the State of California to cause cancer. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

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1/2"

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3/4"

1"

1-1/4"

1-1/2"

2"

# HYDRAULIC 811HT

Parker's 811HT hose is a suction and return line that has a working pressure range of 62-300 psi as well as a vacuum rating range of 28 in/Hg. Furthermore, the 811HT is specifically designed for high temperature applications.

- Up to one-half the SAE minimum bend radius for standard and high-temperature applications
- Meets or exceeds SAE 100R4 requirements
- Suitable for vacuum applications requiring 28 in/Hg
- Oil- and weather-resistant synthetic rubber cover

## Performance



### 811HT Suction and Return Line – High-Temperature 1/2 SAE Minimum Bend Radius

SAE J517 100R4 / SAE J1942



# Part Number	Hose I.D.		Hose O.D.		Working Pressure				Minimum Bend Radius		Weight		Vacuum Rating		Parkrimp	Field Attachable
	inch	mm	inch	mm	81/88DB psi	81/88DB MPa	88HC psi	88HC MPa	inch	mm	lbs/ft	kg/m	inches of Hg	kPa	81 Series	88 Series w/HC or DB
811HT-12	3/4	19,0	1.18	30,0	300	2,1	100	0,7	2-1/2	64	0.42	0,63	28	95	•	•
811HT-16	1	25,4	1.50	38,0	250	1,7	70	0,5	3	76	0.65	0,96	28	95	•	•
811HT-20	1-1/4	31,8	1.77	45,0	200	1,4	50	0,3	4	102	0.82	1,22	28	95	•	•
811HT-24	1-1/2	38,1	2.05	52,0	150	1	50	0,3	5	127	1.04	1,55	28	95	•	•
811HT-32	2	50,8	2.50	63,6	100	0,7	50	0,3	6	152	1.26	1,87	28	95	•	•
811HT-40	1-1/2	63,5	3.00	76,2	62	0,4	62	0,4	7	178	1.82	2,71	28	95	•	•

**Application:** Petroleum base hydraulic fluids and lubricating oils.

**Inner Tube:** Synthetic rubber.

**Reinforcement:** Multiple layers of fiber spiral and one helical wire.

**Cover:** Synthetic rubber, MSHA accepted.

**Temperature Range:** -50°F to +257°F (-46°C to +125°C).

**Fittings:** 81 Series,  
88 Series.

**WARNING:** This product can expose you to chemicals including DEHP, which is known to the State of California to cause cancer and birth defect or other reproductive harm. For more information go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

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