451TC/ST, 451TC Twin Tough

Markets























B

C

D

Parker 451TC and 451ST hydraulic hoses are what to specify when abrasion resistance and ease of use are required. Plus, you can choose the cover that provides the abrasion resistance for your application.

- One-half SAE 100R1 minimum bend radius flexible, easy to work with and install
- Specially engineered TC and ST covers prolong hose life and minimize downtime
- 3,000 psi constant working pressure in all sizes
- Exceeds SAE 100R17 specification

Parker TOUGH COVER 451TC-12 W

Performance







451TC

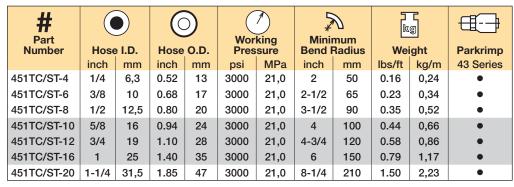
Hydraulic - Tough Cover

SAE 100R17, J1942 / ISO 11237 - 1 TYPE R17 - Constant Working Pressure / USCG HF / ABS

451ST

Hydraulic - Super Tough Cover

SAE 100R17 / ISO 11237 - 1 TYPE R17 - Constant Working Pressure



Application: Petroleum base hydraulic fluids and lubricating oils.

Inner Tube: Synthetic rubber.

Reinforcement: One or two braid steel wire (4-spiral for size -20). Cover: Synthetic rubber abrasion resistant, MSHA accepted.

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

Fittings: 43 Series - pg. B-25.

• See Section C for Parkrimp Assembly Instructions.

Parker T()) EH cons 4511

• Temperature Range of other media listed in Section E.

A-18











Twin Tough hoses eliminate the labor and material costs required to manually bundle two separate hoses using tie straps or plastic sleeves. Plus, Parker's Twin Tough saves valuable time in the field.

- 3,000 psi constant working pressure in -6-6 and -8-8
- One-wire braided construction
- Abrasion-resistant TC cover



Performance



451TC

Hydraulic – Twin Tough Cover

SAE 100R17, J1942 / ISO 11237 - 1 TYPE R17 - Constant Working Pressure / USCG HF / ABS

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		kg Weight		Parkrimp
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	43 Series
451TC-6-6	3/8	10	0.68	17	3000	21,0	2-1/2	65	0.46	0,68	•
451TC-8-8	1/2	12,5	0.80	20	3000	21,0	3-1/2	90	0.70	1,04	•

For assembly instructions see page C-16.

Application: Petroleum base hydraulic fluids and lubricating oils.

Inner Tube: Synthetic rubber.

Reinforcement: One braid steel wire.

 $\label{eq:cover:Synthetic rubber abrasion resistant, MSHA accepted.}$ Temperature Range: -40°F to +212°F (-40°C to +100°C).

Fittings: 43 Series - pg. B-25.

- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.

4\

В

C

D

Ξ

711

Α

Markets









711 hose is a medium-pressure, 4-wire spiral constructed hose offered in two large I.D. sizes. Designed for high-impulse, long-life applications like injection molding.

• 3000 psi constant working pressure

711

Hydraulic

J1942 / USCG HF / DNV / ABS



# Part					Wor	king	≨\ Minimum		i C kg		
Number	Hose	Hose I.D.		Hose O.D.		Pressure		Radius	Wei	ght	Parkrimp
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	71 Series
711-24	1-1/2	38,0	2.07	53	3000	21,0	22	560	2.01	2,99	•
711-32	2	51,0	2.59	66	3000	21,0	28	710	2.75	4,09	•

Application: Petroleum base hydraulic fluids and lubricating oils.

Inner Tube: Synthetic rubber.

Reinforcement: Four spiral steel wire. **Cover:** Synthetic rubber, MSHA accepted.

Temperature Range: $-40^{\circ}F$ to $+212^{\circ}F$ ($-40^{\circ}C$ to $+100^{\circ}C$).

Fittings: 71 Series - pg. B-69.

B

E

See Section C for Parkrimp Assembly Instructions.

Temperature Range of other media listed in Section E.

351TC/ST

Markets















351TC – Braided construction offering 4000 psi is more flexible than its standard spiral counterpart.

- Specifically engineered TC and ST covers prolong hose life and minimize downtime
- 4000 psi constant working pressure in all sizes
- Exceeds SAE 100R19, J517 specifications



Performance







351TC

Hydraulic – Tough Cover SAE 100R19, J517 – Constant Working Pressure

351ST

Hydraulic – Super Tough Cover SAE 100R19, J517 – Constant Working Pressure



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		_	g ight	Parkrimp
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	43 Series
351TC/ST-4	1/4	6,3	.51	13	4000	28	2	50	0.20	0,30	•
351TC/ST-6	3/8	10	.67	17	4000	28	2-1/2	65	0.28	0,42	•
351TC/ST-8	1/2	12,5	.80	20	4000	28	3-1/2	90	0.35	0,52	•
351TC/ST-10	5/8	16	.93	24	4000	28	4	100	0.44	0,66	•
351TC/ST-12	3/4	19	1.09	28	4000	28	4-3/4	120	0.58	0,86	•

Application: Petroleum base hydraulic fluids and lubricating oils.

Inner Tube: Synthetic rubber.

Reinforcement: Two braids steel wire.

Cover: Synthetic rubber abrasion resistant, MSHA accepted. **Temperature Range:** -40°F to +212°F (-40°C to +100°C).

Fittings: 43 Series - pg. B-25.

- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.



Hydraulic Hose: 351TC/ST



B

Ξ

772TC/ST

Markets

















Durable four-spiral construction with synthetic rubber inner tube providing a wider range of fluid compatibility.

- Synthetic rubber inner tube provides a wider range of fluid compatibility
- Meets SAE 100R12 specifications

Performance

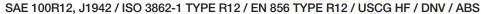


B



772TC

Hydraulic - Tough Cover



772ST



# Part Number	Hose I.D.		Hose I.D. Hose O.D		Working Pressure		Minir Bend F	num	kg Weight		Parkrimp
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	71 Series
772TC/ST-6	3/8	10	0.79	20	4000	28,0	5	125	0.40	0,60	•
772TC/ST-8	1/2	12,5	0.94	24	4000	28,0	7	180	0.62	0,93	•
772TC/ST-10	5/8	16	1.08	27	4000	28,0	8	200	0.74	1,10	•
772TC/ST-12	3/4	19	1.21	31	4000	28,0	9-1/2	240	0.94	1,40	•
772TC/ST-16	1	25	1.50	38	4000	28,0	12	300	1.34	1,99	•
772TC/ST-20	1-1/4	31,5	1.84	46	3000	21,0	16-1/2	420	1.74	2,59	•
772TC/ST-24	1-1/2	38	2.07	53	2500	17,5	20	500	2.01	2,99	•
772TC/ST-32	2	51	2.59	66	2500	17,5	25	630	2.75	4,09	•

Application: Petroleum base hydraulic fluids and lubricating oils.

Inner Tube: Synthetic rubber.

Reinforcement: Four spiral steel wire.

Cover: Synthetic rubber abrasion resistant, MSHA accepted. Temperature Range: -40°F to +257°F (-40°C to +125°C).

Fittings: 71 Series - pg. B-69.

[•] See Section C for Parkrimp Assembly Instructions.

Temperature Range of other media listed in Section E.

Hydraulic Hose: 781, P35

HYDRAULIC

Markets















781

Designed for high-pressure applications and for high-impulse, high-duty cycles.

- 4- or 6-wire spiral construction
- Constant working pressure 5000 psi in all sizes
- Meets SAE 100R13 specifications

781

Hydraulic

SAE 100R13, J1942 / ISO 3862-1 TYPE R13 / EN856 TYPE R13 / USCG HF / DNV / ABS

# Part Number	Hose I.D.		Hose O.D. Working Pressure		Mini	imum Radius	kg Weight		Parkrimp		
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	78 Series
781-12	3/4	19	1.26	32	5000	35,0	9-1/2	240	1.07	1,59	•
781-16	1	25	1.52	39	5000	35,0	12	300	1.48	2,20	•
781-20	1-1/4	31,5	1.96	50	5000	35,0	16-1/2	420	2.48	3,69	•
781-24	1-1/2	38	2.26	57	5000	35,0	20	500	3.22	4,79	•

Application: Petroleum base hydraulic fluids and lubricating oils.

Inner Tube: Synthetic rubber.

Reinforcement: Four or six spiral steel wire. Cover: Synthetic rubber, MSHA accepted.

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

Fittings: 78 Series - pg. B-114.

Markets















P35

Large-bore 2 inch size for high-pressure applications.

- Meets SAE 100R13, ISO 3862-1 Type R13 and EN 856 Type R13 specifications
- No-Skive design eliminates the need to remove the hose cover before crimping
- Approved with S6 Series fittings
- MSHA accepted cover

P35

Hydraulic

SAE 100R13, J1942 / ISO 3862-1 TYPE R13 / EN856 TYPE R13 / USCG HF / DNV / ABS / BV

# Part Number	Hose	Hose I.D. Hose O.D.			king	Minimum Bend Radius		kg Weight		Parkrimp	
Humber	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	9	S6 Series
P35-32	2	51	2.80	71	5000	35,0	25	630	5.03	7,48	•

NOTE: P35-32 Hose must be crimped with S6 Series fittings.

Application: Petroleum base hydraulic fluids and lubricating oils.

Inner Tube: Synthetic rubber.

Reinforcement: Four or six spiral steel wire. Cover: Synthetic rubber, MSHA accepted.

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

Fittings: S6 Series - pg. B-123.

- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.

782TC/ST

Markets













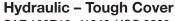


Performance









• Meets SAE 100R13 specification

SAE 100R13, J1942 / ISO 3862-1 TYPE R13 / EN856 TYPE R13 / USCG HF / DNV / ABS / BV

Robust construction with synthetic rubber inner tube providing wider fluid compatibility.

782ST

Hydraulic - Super Tough Cover

SAE 100R13 / ISO 3862-1 TYPE R13 / EN856 TYPE R13

• Synthetic rubber inner tube for wide fluid compatibility

• 5000 psi constant working pressure in all sizes



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		kg Weight		Parkrimp
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	78 Series
782TC/ST-12	3/4	19	1.26	32	5000	35,0	9-1/2	240	1.07	1,59	•
782TC/ST-16	1	25	1.52	39	5000	35,0	12	300	1.48	2,20	•
782TC/ST-20	1-1/4	31,5	1.96	50	5000	35,0	16-1/2	420	2.48	3,69	•
782TC/ST-24	1-1/2	38	2.26	57	5000	35,0	20	500	3.22	4,79	•

Application: Petroleum base hydraulic fluids and lubricating oils.

Inner Tube: Synthetic rubber.

Reinforcement: Four or six spiral steel wire.

Cover: Synthetic rubber abrasion resistant, MSHA accepted. **Temperature Range:** -40°F to +257°F (-40°C to +125°C).

Fittings: 78 Series - pg. B-114.

[•] See Section C for Parkrimp Assembly Instructions.

Temperature Range of other media listed in Section E.

791TC

Markets















Designed for up to 6000 psi high-impulse, high-duty cycle applications.

- One-half minimum bend radius
- 6000 psi constant working pressure in all sizes
- Exceeds SAE 100R15 specification

Performance

791TC



SAE 100R15, J1942 / ISO 3862-1 TYPE R15 / USCG HF / DNV / ABS

# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		kg Weight		Parkrimp
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	79 Series
791TC-12	3/4	19	1.26	32	6000	42,0	8	200	1.07	1,59	•
791TC-16	1	25	1.52	39	6000	42,0	10	250	1.48	2,20	•
791TC-20	1-1/4	31,5	1.97	50	6000	42,0	10	250	2.48	3,69	•
791TC-24	1-1/2	38	2.28	58	6000	42,0	12	305	3.22	4,79	•

Application: Petroleum base hydraulic fluids and lubricating oils.

Inner Tube: Synthetic rubber.

Reinforcement: Four or six spiral steel wire.

Cover: Synthetic rubber abrasion resistant, MSHA accepted. **Temperature Range:** -40°F to +257°F (-40°C to +125°C).

Fittings: 79 Series - pg. B-127.

Hydraulic Hose: 791TC

[•] See Section C for Parkrimp Assembly Instructions.

[•] Temperature Range of other media listed in Section E.

Hydraulic Hose: 792TC/ST

792TC/ST

Markets



















Designed for up to 6000 psi high-impulse, high-duty cycle applications with a synthetic rubber inner tube providing wider fluid compatibility.

- One-half minimum bend radius
- 6000 psi constant working pressure in all sizes
- Exceeds SAE 100R15 specification

Performance





792TC

Hydraulic – Tough Cover SAE 100R15, J1942 / ISO 3862-1 TYPE R15 / USCG HF / DNV / ABS

792ST

Hydraulic – Super Tough SAE 100R15 / ISO 3862-1 TYPE R15



# Part Number	Hose I.D.		Hose O.D.		Working Pressure		Minimum Bend Radius		k Wei	了	Parkrimp
1101111001	inch	mm	inch	mm	psi	MPa	inch	mm	lbs/ft	kg/m	79 Series
792TC/ST-12	3/4	19	1.26	32	6000	42,0	10-1/2	265	1.07	1,59	•
792TC/ST-16	1	25	1.52	39	6000	42,0	13	330	1.48	2,20	•

Application: Petroleum base hydraulic fluids and lubricating oils.

Inner Tube: Synthetic rubber.

Reinforcement: Four or six spiral steel wire.

Cover: Synthetic rubber abrasion resistant, MSHA accepted. **Temperature Range:** -40°F to +257°F (-40°C to +125°C).

Fittings: 79 Series - pg. B-127.

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- See Section C for Parkrimp Assembly Instructions.
- Temperature Range of other media listed in Section E.