

# 510C – SAE 100R7 Hydraulic Hose

## Copolyester Core Tube

Hose  
A

Largest size range for a medium pressure hydraulic hose.



Tubing  
Thermoplastic  
B

### Features

- Excellent abrasion resistance
- Excellent flexibility
- Low coefficient of friction cover
- Medium pressure service for permanent and field attachable fittings

### Compliance

- Meets/Exceeds SAE J517 100R7 (excluding -2)
- MSHA compliant cover (excluding -4)
- DNV-GL Type Approved

### Construction

- Tube: Copolyester
- Reinforcement: Fiber
- Cover: Polyurethane

### Fittings

- 56 Series – pg. E-33      51 Series – pg. E-22
- For most Parker products, Crimp Die Selection charts are found online at [www.parker.com/crimpsource](http://www.parker.com/crimpsource)
- Access instructions are on pg. G-3

### Operating Parameters

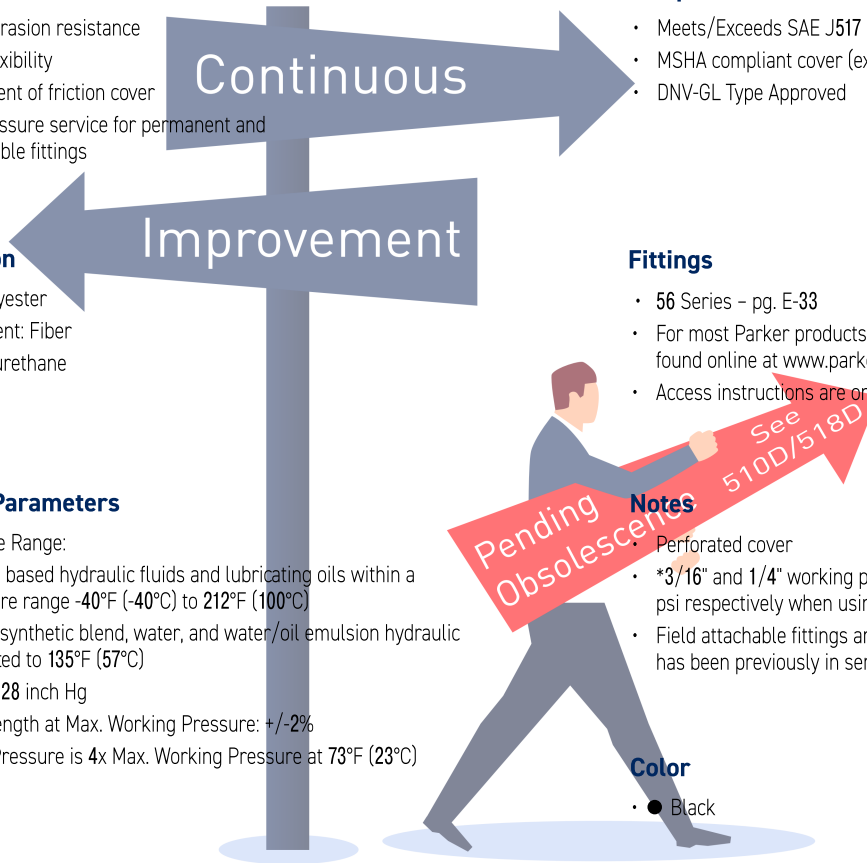
- Temperature Range:
  - Petroleum based hydraulic fluids and lubricating oils within a temperature range -40°F (-40°C) to 212°F (100°C)
  - Synthetic, synthetic blend, water, and water/oil emulsion hydraulic fluids limited to 135°F (57°C)
- Vac. Rating: 28 inch Hg
- Change in length at Max. Working Pressure: +/-2%
- Min. Burst Pressure is 4x Max. Working Pressure at 73°F (23°C)

### Notes

- Perforated cover
- \*3/16" and 1/4" working pressure reduced to 3,000 and 2,750 psi respectively when using field attachable fittings
- Field attachable fittings are not intended for use on hose that has been previously in service

### Color

- Black



Coiled Air Hose  
& Fittings  
C

Transportation  
D

Fittings  
E

### Series 510C

[Visit the webpage](#)

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series	F.A. Fitting Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr		
510C-2	1/8	3.2	0.34	8.6	2,500	17.2	1/2	13.0	0.03	0.05	56	–
510C-3	3/16	5	0.43	10.9	3,250	22.4	3/4	19.0	0.05	0.07	56	51*
510C-4	1/4	6.3	0.47	11.9	3,000	20.7	1-1/2	38.0	0.05	0.08	56	51*
510C-5	5/16	8	0.57	14.5	2,500	17.2	1-3/4	44.0	0.08	0.11	56	51
510C-6	3/8	10	0.64	16.3	2,250	15.5	2	51.0	0.10	0.14	56	51
510C-8	1/2	12.5	0.81	20.6	2,250	15.5	3	76.0	0.15	0.22	56	51
510C-12	3/4	19	1.09	27.7	1,250	8.7	5	127.0	0.21	0.31	56	51
510C-16	1	25	1.32	33.5	1,000	6.9	8	203.0	0.27	0.40	56	51

Tooling, Equipment  
& Accessories  
F



### WARNING

This product can expose you to chemicals including Nickel compounds, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

General Technical  
G