

510D – SAE 100R7 Hydraulic Hose

Nylon Core Tube

Largest size selection
in a 100R7 hose.



Features

- Matte cover for low coefficient of friction
- Special order colors
- Twin or multi-line available
- Good chemical compatibility
- Approved for use with 51R-Series Field Attachable and Rapid Assembly connections

Construction

- Tube: Nylon: -3 to -12
Copolyester: -16
- Reinforcement: Fiber
- Cover: Polyurethane

Operating Parameters

- 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) {510D-16 only}
- Vacuum 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)

Compliance

- Meets/Exceeds SAE J517 100R7
- MSHA compliant cover
- DNV-GL Type Approved
- ISO 3949-R7-1

Fittings

- 56 Series – pg. E-33 51R Series - pg. E-24
- For most Parker products, Crimp Die Selection charts are found online at www.parker.com/crimpsource
- Access instructions are on pg. G-3

Notes

- Perforated cover
- For -2 hose needs, please reference HLBD02 on pg. A-62
- Field attachable fittings are not intended for use on hose that has been previously in service

Color

- ● Black

Series 510D

[Visit the webpage](#)

Part Number	Nominal I.D.		Maximum O.D.		Maximum Working Pressure		Minimum Bend Radius		Weight		Permanent Fitting Series	Field Attachable Fitting Series
	inch	mm	inch	mm	psi	MPa	inch	mm	lbs./ft.	kg/mtr		
510D-3	3/16	5	0.43	10.9	3,250	22.4	3/4	19.0	0.05	0.07	56	51R
510D-4	1/4	6.3	0.47	11.9	3,000	21.0	1-1/2	38.0	0.06	0.09	56	51R
510D-5	5/16	8	0.57	14.5	2,500	17.5	1-3/4	44.0	0.08	0.11	56	-
510D-6	3/8	10	0.64	16.3	2,250	15.8	2	51.0	0.10	0.14	56	51R
510D-8	1/2	12.5	0.81	20.6	2,250	15.8	3	76.0	0.15	0.22	56	51R
510D-10	5/8	16	0.98	24.9	2,750	19.2	6	152.0	0.21	0.31	56	-
510D-12	3/4	19	1.05	26.7	1,250	8.8	5	127.0	0.17	0.25	56	-
510D-16	1	25	1.32	33.5	1,000	7.0	8	203.0	0.27	0.40	56	-

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.