

# 510D / 518D

SAE 100R7 / ISO 3949-R7 product range



These hose types combine due to their design and materials many beneficial hose characteristics. The result is an excellent multi purpose hose for challenging hose application requirements in many different industries such as

- Industrial machinery
- Transportation
- Off highway mobile machines
- Aerial lifts
- Fluid transfer and handling
- Gas
- Pneumatic
- General hydraulic systems



## Contact Information

EMEA Product Information Centre  
Free phone: 00 800 27 27 5374  
(from AT, BE, CH, CZ, DE, DK, EE, ES, FI, FR, IE, IL, IS, IT, LU, MT, NL, NO, PL, PT, RU, SE, SK, UK, ZA)

## Features & Benefits

- **High quality cover material:**  
*Excellent abrasion, UV, ozone and seawater resistance for a long life time in tough applications*
- **Chemical resistant inner core:**  
*One multipurpose hose for many media*
- **Very low weight = reduced machine weight:**  
*Reduced power requirements and fuel costs, increased payload*
- **Textile reinforced design:**  
*Noise and vibration dampening*
- **Wide temperature range:**  
*Multipurpose hose for many applications*
- **Pinpricked cover and low permeation version 510D:**  
*Suitable for many air and gas applications*
- **Very small bend radius:**  
*Ideal for tight installation areas*
- **Cleanliness in operation:**  
*Minimized contamination of hydraulic systems*
- **Twin and multiple hose designs:**  
*No hose tangling or abrasion between hoses, easy installation and clean routing*
- **Electrical non conductive version 518D:**  
*Avoids unwanted conductivity via hose assembly*



ENGINEERING YOUR SUCCESS.

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## SAE 100R7 / ISO 3949-R7 product range

### Hose Construction

#### Inner tube:

Polyamide size -2 to -12

Polyester Elastomer size -16

#### Reinforcement:

High tensile synthetic fibre

#### Cover:

Abrasion resistant Polyurethane

510D: Black - pinpricked

518D: Orange - non pinpricked

### Operating Parameters

#### Temperature Range:

- 40 °C up to + 100 °C \*

#### Certifications:

SAE 100R7

ISO 3949 Type R7

MSHA compliant cover

518D electrical non conductive

acc. to SAEJ517 and ISO 3949



Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				Min. bend radius mm	Weight kg/m	Fittings	
	DN	Inch	Size	mm		Max. working pressure MPa	psi	Min. burst pressure MPa	psi				
510D-2		3	1/8	-2	3.2	8.6	21.0	3,000	84.0	12,000	13.0	0.05	56
510D-3	518D-3	5	3/16	-3	5	10.7	22.4	3,250	89.6	13,000	19.0	0.07	56
510D-4	518D-4	6	1/4	-4	6.3	11.7	21.0	3,000	84.0	12,000	38.0	0.09	56
510D-5	518D-5	8	5/16	-5	8	14.3	17.5	2,500	70.0	10,000	44.0	0.11	56
510D-6	518D-6	10	3/8	-6	10	16.0	15.8	2,250	63.2	9,000	51.0	0.14	56
510D-8	518D-8	12	1/2	-8	12.5	20.5	15.8	2,250	63.2	9,000	76.0	0.22	56
510D-10	518D-10	16	5/8	-10	16	24.6	15.8	2,250	63.2	9,000	102.0	0.31	56
510D-12	518D-12	19	3/4	-12	19	27.4	8.8	1,250	35.2	5,000	127.0	0.31	56
510D-16	518D-16	25	1	-16	25	33.4	7.0	1,000	28.0	4,000	203.0	0.40	56

- Twin and multiple hoses available
  - Use 510D for air and gas applications
  - Preforming possibility: Flexible solution with customized shape
- \* Size -16 only: Max + 57 °C for synthetic and water based hydraulic fluids