

# ParLock Multispiral Hose R50TC/R56TC

50.0 MPa/56.0 MPa  
for Extreme Pressure



## Extra strong hoses for high performance

New hydrostatic drives require increased performance and higher pressure rates but with the same size of hydraulic hose.

The new ParLock R50TC/R56TC hoses offer high performance in this application for various kinds of mobile equipment, such as agricultural machinery, materials handling equipment, construction and mining machines. The flexible hose construction with 4-spiral up to size 16 and 6-spiral in size 20 allows installation even in tight spaces.

The use of 8000 psi flanges combined with the Interlock design withstands high working pressures and pulse rates and finally ensures the highest safety level.



## Contact

### Parker Hannifin Ltd.

Tachbrook Park Drive  
Tachbrook Park  
Warwick CV34 6TU  
United Kingdom

phone **+44 (0)1926 317 878**

**[www.parker.com](http://www.parker.com)**



## Product Features

- Outstanding performance in terms of working pressure **50.0 MPa/56.0 MPa**
- Impulse tested to **1 Mio. cycles at 120 % working pressure**
- Excellent flexibility combined with a bend radius according to **SAE 100 R15**
- Manufactured with the highly abrasion resistant **MSHA approved Parker Tough Cover (TC)**
- Reinforcement of four or six high tensile steel wires
- Interlock technology
- Hose is suitable for temporary immersion in mineral oil up to **70 °C** with frequent inspections

**ENGINEERING YOUR SUCCESS.**

# R50TC/R56TC ParLock Multispiral

## Exceeds ISO 3862 Type R15 – Parker Specifications

Part Number	Hose I.D.				Hose O.D. mm	Pressure Rating				min. bend radius mm	weight kg
	DN	Inch	Size	mm		max. working pressure MPa	psi	min. burst pressure MPa	psi		
R56TC-4	6	1/4	-4	6.4	18.1	56.0	8100	224.0	32400	120	0.80
R56TC-6	10	3/8	-6	9.5	21.8	56.0	8100	224.0	32400	130	1.10
R56TC-8	12	1/2	-8	12.7	25.6	56.0	8100	224.0	32400	180	1.40
R50TC-10	16	5/8	-10	15.9	28.5	50.0	7250	200.0	29000	225	1.50
R50TC-12	19	3/4	-12	19.1	32.0	50.0	7250	200.0	29000	270	1.85
R50TC-16	25	1	-16	25.4	38.4	50.0	7250	200.0	29000	300	2.70
R50TC-20	31	1 1/4	-20	31.8	52.6	50.0	7250	200.0	29000	450	5.00

Replace the hose when any deformation or damage on the hose cover are visible.  
The combination of high temperature and high pressure could reduce the hose life.

### Primary Applications

Mobile hydraulic equipment and agricultural machines with typically large constructions.

### Applicable Specifications

Exceeds ISO 3862 Type R15 – Parker Specifications

### Hose Construction

#### Inner tube:

Synthetic rubber

#### Reinforcement:

Four spirals of high-tensile steel wire from size -4 to -16 and six spirals only for size -20.

#### Cover:

High abrasion resistance, MSHA approved synthetic rubber



### Temperature Range

-40 °C up to +100 °C  
exception air max. +70 °C  
exception water max. +85 °C

### Recommended Fluids

Petroleum and water-glycol based fluids, lubricating oils, air and water.  
For air above 1.7 MPa, the hose cover must be pin-pricked.

### Fittings Series

Internal and external skiving

R56TC-4 up to R56TC-8



R50TC-10 up to -16



R50TC-20



Hose layline example

