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**Parker Legris**  
**Carstick® and Carstick+ Cartridges**

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ENGINEERING YOUR SUCCESS.

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# Parker Legris

Provider of Low Pressure Fluid Handling Solutions

For more than 60 years, we design, manufacture and customise safe and reliable quick connection solutions, distributed anywhere across the globe.

Inventor of push-to-connect technology, Parker Legris supports you in the development of complete systems including coupling or fitting connections. Parker Legris has developed the range of patented **Carstick®** cartridges as part of the Legris Push-In Fittings offer.

## Key Figures



7 locations  
in Europe



100M  
finished goods/year



IATF 16949, ISO 9001  
ISO 14001  
REACH & RoHS

## In House Capabilities



In-House R&D  
Laboratory



Plastic Injection



Automatic assembly



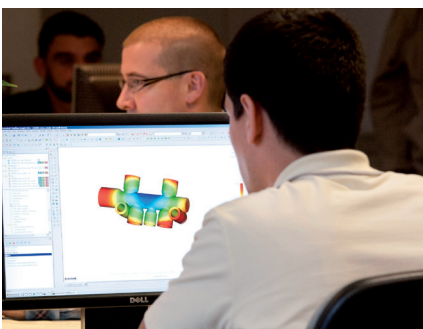
Cleanroom



Products 100% tested

### + PLASTIC INJECTION EXPERTISE:

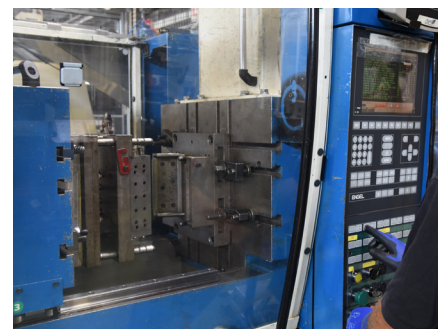
- Customized design and production
- Rheology simulation tools
- High variety of plastic materials (PA, PC, PPS, PP, PPSU...)
- 100% quality checked



Engineering Simulation



Injections Lines



Press Injection Moulding

# Carstick® and Carstick+ : Your Push-In Cartridge Solution



**Carstick®** is a fully integrated cartridge providing instant connection between the housing and the tubing. It can be inserted in elastic polymers, brass, aluminum cavities. This is the right connection solution for energy, space and time saving.



**Carstick+** is an extended version of Carstick®. This push-in fitting can be inserted with a low effort. It is suitable for a large range of housing materials including non-elastic polymers. It is removable without damaging its cavity, making it reusable.

## Product Benefits

### Carstick® and Carstick+

- **Productivity Saving**  
Single component product for reduced insertion time  
2 to 3 times faster than standard cartridge solutions
- **Space Saving**  
The most compact cartridge on the market
- **Fluid Integrity**  
Only the seal is in contact with the conveyed fluid
- **Ready-to-use Packaging**  
Smart and Safe Packaging  
Fully adapted to automated production process

### Carstick+

- + **Low insertion effort**  
Insertion effort < 20 daN
- + **One cavity design**  
One single cavity for every raw materials (brass, aluminium, non-elastic polymers)
- + **Removable / Reusable Cavity**  
The cartridge is removable without damaging the cavity



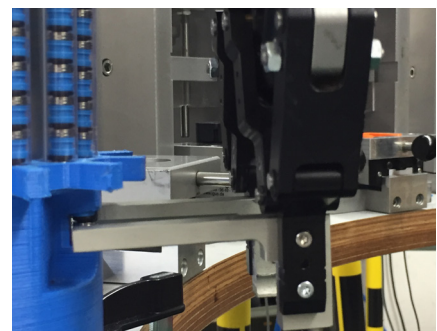
“ **55% to 75%**  
assembly time reduction  
with Carstick+ ”



Carstick® Tubepack® packaging



Carstick® insertion line



Automated insertion process

# Carstick® and Carstick+:

An Adapted Push-In Solution for Every Application

## Industrial & Automation



Packaging manufacturing  
Robotic  
In-plant automotive



Compressed air & inert gas  
Cooling liquids (industrial waters, glycols, dielectric, etc)

## Thermal Management



Semiconductors manufacturing  
Data centers  
Supercomputers  
Power generation  
Welding devices/robots



Cooling liquids  
(industrial waters, glycols, dielectric)

## Food & Beverage



Coffee machines  
Water dispensers  
Water treatments



Drinking waters, steam, beverages

## Transportation



Pneumatic suspension  
Auxiliary pneumatic systems



Compressed air in extreme environments

## Life Science



Medical respiratory devices  
Anaesthesia machines  
Dental chairs



Oxygen & Medical fluids



# THIS IS MORE PRODUCTIVITY

*Carstick+, the enhanced  
Carstick® range*

*Productivity saving  
Inventory saving  
Removable cartridge*

Parker enables its partners to increase productivity and profitability, while protecting the environment. This reflects Parker's commitment to helping solve the world's greatest engineering challenges.






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

ENGINEERING YOUR SUCCESS.

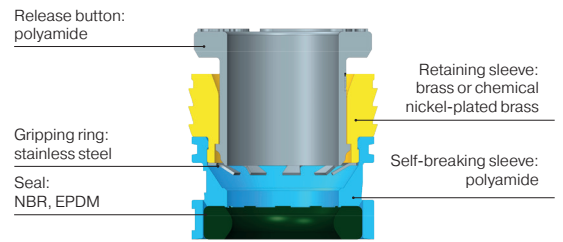
# Carstick® Cartridges

## Technical Characteristics

	Carstick® NBR	Carstick® EPDM	Carstick® NBR Low temperature
	Compressed air Inert gases	Food fluids Inert gases	Compressed air
	Vacuum to 20 bar	Vacuum to 16 bar	Vacuum to 16 bar
	-20°C to +80°C	-20°C to +95°C (+ 130°C for O.D. 4, 6, 8 mm)	-40°C to +80°C

Reliable performance is dependent upon the type of fluid conveyed, component materials and tubing being used. Guaranteed for use with a vacuum of 755 mm Hg (99% vacuum).

### Component Materials



### Regulations

#### Carstick® NBR

- ISO 14743
- REACH - RoHS
- PED

#### Carstick® EPDM

- 1935/2004/CE
- FDA: 21 CFR
- NSF
- ACS
- DM 174
- WRAS

- KTW
- REACH - RoHS
- PED

### Operation Manuals are available on [parker.com](http://parker.com)

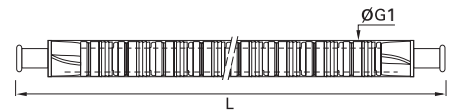
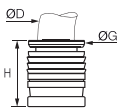
It includes:

- Cavity drawings
- Tooling drawings
- Insertion instruction



### \*Carstick+ Tubepack® dimensions

- 50 cartridges per Tubepack®
- Plastic tube protects cartridges and allows automatization of the insertion process




## 3100

Carstick® NBR

Metric




ØD		G	G1*	H	L*	kg
4	<a href="#">3100 04 00</a>	8	11	10	554	0.001
6	<a href="#">3100 06 00</a>	10	14.5	11.5	629	0.002
8	<a href="#">3100 08 00</a>	13	15	15	794	0.002
10	<a href="#">3100 10 00</a>	15.5	19.5	17	930	0.005
12	<a href="#">3100 12 00</a>	19.5	21	19.5	1038	0.010
14	<a href="#">3100 14 00</a>	21	24.5	22.5	1110	0.013

## 3100

Carstick® NBR

Inch



ØD		G	G1*	H	L*	kg
1/8	<a href="#">3100 53 00 99</a>	7	10	9	508	0.002
5/32	<a href="#">3100 04 00 99</a>	8	11	10	554	0.001
1/4	<a href="#">3100 56 00 99</a>	10.5	14.5	12	600	0.003
5/16	<a href="#">3100 08 00 99</a>	13	15	15	794	0.002
3/8	<a href="#">3100 60 00 99</a>	15.5	19	16.5	930	0.006

## 6300

Carstick® EPDM



Metric



ØD		G	G1*	H	L*	kg
4	<a href="#">6300 04 00</a>	8	11	10	554	0.002
6	<a href="#">6300 06 00</a>	10	14.5	11.5	629	0.002
8	<a href="#">6300 08 00</a>	13	15	15	794	0.003
10	<a href="#">6300 10 00</a>	15.5	19.5	17	930	0.005
12	<a href="#">6300 12 00</a>	18.5	21	19.5	1038	0.010


## 6300

Carstick® EPDM



Inch




ØD		G	G1*	H	L*	kg
5/32	<a href="#">6300 04 00</a>	8	11	10	554	0.002
1/4	<a href="#">6300 56 00</a>	10.5	14.5	12.5	600	0.002
5/16	<a href="#">6300 08 00</a>	13	15	15	794	0.003
3/8	<a href="#">6300 60 00</a>	15.5	19	17	930	0.005
1/2	<a href="#">6300 62 00</a>	22	25	23	1038	0.011

## 3100

Carstick® Low Temperature NBR




Metric



ØD		G	G1*	H	L*	kg
4	<a href="#">3100 00 00 54</a>	8	11	10	554	0.002
6	<a href="#">3100 00 00 55</a>	10	14.5	11.5	629	0.002
8	<a href="#">3100 00 00 56</a>	13	15	15	794	0.003
10	<a href="#">3100 00 00 57</a>	15.5	19.5	17	930	0.005

# Carstick+ Cartridges

## Technical Characteristics

	Carstick+ EPDM	Carstick+ FKM
	Drinking water, beverage, steam, glycol, deionized water, coolants, compressed air, inert gas. <i>Other fluids: please contact us</i>	
	Up to 16 bar at room temperature	
	10 bar up to +120°C	10 bar up to +140°C

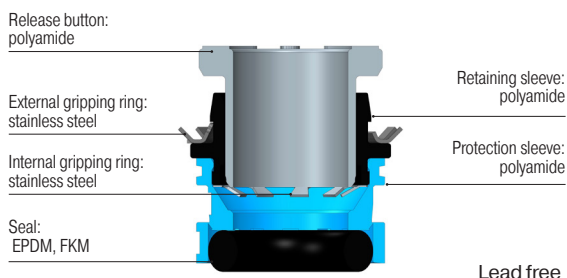
Reliable performance is dependent upon the type of fluid conveyed, component materials and tubing being used. Guaranteed for use with a vacuum of 755 mm Hg (99% vacuum).

### Regulations

#### Carstick® EPDM

- ISO 14743
- REACH - RoHS
- PED
- FDA: 21 CFR
- 1935/2004/EC
- ACS
- DM174 (on request)
- WRAS (on request)
- NSF 51
- KTW

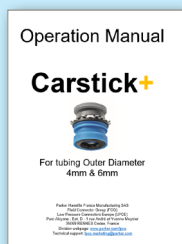
### Component Materials



### Operation Manual is available on parker.com

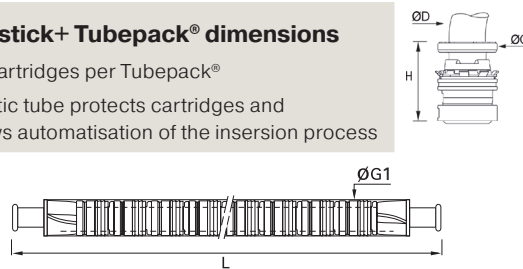
It includes:

- Cavity drawings
- Tooling drawings
- Insertion instruction



### \*Carstick+ Tubepack® dimensions


- 50 cartridges per Tubepack®
- Plastic tube protects cartridges and allows automatization of the insertion process



## 6300

### Carstick+ Cartridge EPDM




ØD		G	G1*	H	L*	kg
4	<b>6300 04 01 24</b>	8.1	10.3	10.4	520	0.001
6	<b>6300 06 01 24</b>	9.9	15.3	11.8	590	0.002

## 6300

### Carstick+ Cartridge FKM



ØD		G	G1*	H	L*	kg
4	<b>6300 04 01 26</b>	8.1	10.3	10.4	520	0.001
6	<b>6300 06 01 26</b>	9.9	15.3	11.8	590	0.002

## Complementary products

- LF 3000® push-in fittings
- LIQUIfit push-in fittings
- Tubing : Polyamide, polyurethane and Advanced PE



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