



Parker Legris

Carstick® and Carstick+ Cartridges



ENGINEERING YOUR SUCCESS.

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



Injection 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

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).

Regulations

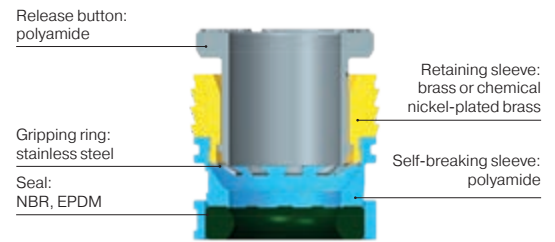
Carstick® NBR

- ISO 14743
- REACH - RoHS
- PED

Carstick® EPDM

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

Component Materials



Operation Manuals are available on parker.com

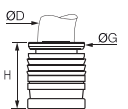
It includes:

- Cavity drawings
- Tooling drawings
- Insertion instruction



*Carstick+ Tubepack® dimensions

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



3100

Carstick® NBR

Metric



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

3100

Carstick® NBR

Inch



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

6300

Carstick® EPDM



Metric



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

6300

Carstick® EPDM



Inch



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

3100

Carstick® Low Temperature NBR

Metric



ØD		G	G1*	H	L*	kg
4	3100 00 00 54	8	11	10	554	0.002
6	3100 00 00 55	10	14.5	11.5	629	0.002
8	3100 00 00 56	13	15	15	794	0.003
10	3100 00 00 57	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

Release button:
polyamide

External gripping ring:
stainless steel

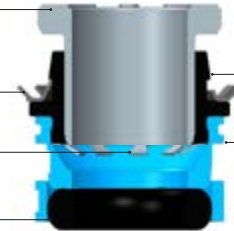
Internal gripping ring:
stainless steel

Seal:
EPDM, FKM

Retaining sleeve:
polyamide

Protection sleeve:
polyamide

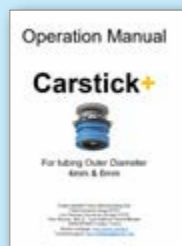
Lead free



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	6300 04 01 24	8.1	10.3	10.4	520	0.001
6	6300 06 01 24	9.9	15.3	11.8	590	0.002

6300

Carstick+ Cartridge FKM



ØD		G	G1*	H	L*	kg
4	6300 04 01 26	8.1	10.3	10.4	520	0.001
6	6300 06 01 26	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

