

Bellows

(protections and manipulators)

Customized or catalog **accessories** for **isolators** and **industries**





material categories

PIERCANTECH bellows performance

Thanks to the exceptional knowledge of the PIERCAN Group in glove box gloves, PIERCANTECH offers high-quality customized bellows for the protection of mechanical arms in isolators and other industrial applications. Shapes and bellows materials can be adapted to each use by perfectly matching your specifications.

Areas of application



HEALTH – PHARMACEUTICAL



HEALTH – HOSPITAL



SEMICONDUCTOR INDUSTRY



UNIVERSITY – RESEARCH



NUCLEAR



OTHER INDUSTRIES

HEY TRUSTED US...
They use PiercanTech bellows



Bellows for remote handling: the options available according to material

HIGH TEMPERATURE NATURAL RUBBER

Good mechanical and elastic properties. Good resistance at high temperatures (1h at 175 °C / 20h at 120 °C) and high pressure (up to 14 bars). Very easy transformation. The least expensive of similar elastomers; much more economical than silicones.

Dexterity



Mechanical properties



Temperature resistance



Price



OPTIONS

- Standard sizes, possibility of tailor-made
- Color: pale yellow

NEOPRENE*

Polychloroprene material. Good mechanical protection. Good resistance to chemicals (versatility). Great flexibility and excellent dexterity. It also has oil resistance and also **self-extinguishing** properties.

Flexibility



Mechanical properties



Chemical resistance



Price



OPTIONS

- Standard sizes, possibility of tailor-made
- Color: black

* Antistatic neoprene possible.

OTHER MATERIALS

PIERCANTECH also offers multi-models in many materials for bellows.

- > Natural rubber latex
- > Silicone
- > Nitrile
- > Polyurethane
- > Viton

SHORE HARDNESS

- 30 Shore A to 90 Shore A

TRANSFORMATION TECHNOLOGY

- Dipping, Compression, Vacuum casting, ...

OPTIONS

- Standard sizes, possibility of customizing
- Color: variable according to the materials



OUR STRONG POINTS

- + Wide choice of molds and shapes
- + Great control of the physiochemical properties of monolayer or multilayer elastomers
- + Protection of operators, safety of preparations and installations
- + Compatible with cleaning agents and surface decontamination
- + Traceability
- + Storage guarantee

From the study to the realization of the bellows

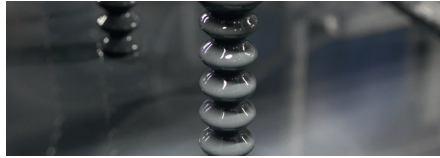
PIERCANTECH masters a wide range of elastomer processing techniques to realize your bellows and offers you the most suitable processes for your project.

THE STUDY



- **Design office:** It analyzes your requests and assists you in finding the most suitable solution.
- **Molds and prototypes:** Realization of the prototypes thanks to the specific equipment and the production unit dedicated to the technical parts.
- **Economic optimization:** The study of solutions adapted to your needs integrates the factors of quality, time and production costs.
- **R & D laboratory:** It brings its scientific expertise to the development of products: materials tests, measurement of physiochemical properties ... etc.

MANUFACTURING



- **Dipping:** It involves immersing the mold in baths to create a piece that, after drying and curing, is demolded. An exceptional knowledge of the brand.
- **Calendering:** The elastomer passes between two cylinders to be conformed to the desired thickness, and then vulcanized
- **Injection:** The elastomer is heated then injected into a mold and vulcanized. The piece is then demolded.
- **Compression:** The preform (sheet, plate ...) is placed in a mold and then compressed, vulcanized and demolded.
- **Extrusion:** The heated elastomer is pushed through a die. A profile is formed continuously, solid or hollow.

CONTROL IN THREE STEPS

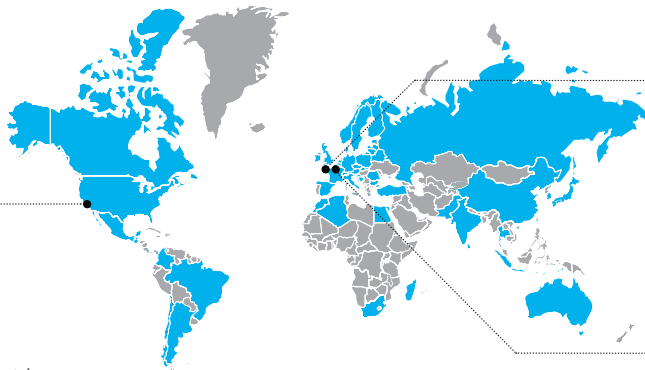


- **Prior inspection**
Raw materials and tools with verification of dimensions on plan via our production management software.
- **Control during production**
Physiochemical parameters by the quality control laboratory and production parameters by the operators.
- **Control of the finished product**
Two types of checks can be made according to the customer's requirements: PIERCAN standard control or plan control. The following checks are carried out: 100% visual inspection, dimensional inspection, marking for total traceability.

PIERCANTECH around the world



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San Diego
USA



Headquarters Piercan • Factory
Port-en-Bessin
France



Piercan Sales Department
• Plastunion **Bondy** Factory
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Piercan products are sold in 62 countries



IN NEED OF INFORMATION?

Do not hesitate to call or write us an email. Piercan is at the service of your projects:

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