



# NEEDLELESS INJECTION VIAL

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Revolution in needle-free stoppers

# INTERNATIONAL PATENT





# NEEDLELESS INJECTION VIAL

The hermetic vial stopper that allows access with or without a needle.

Most drugs, including antibiotics and chemotherapy drugs, are stored in glass vials and its withdrawal is done with a syringe with a needle. The vial stopper protects the content from external contamination and must be perforated to allow access to the drug.

When accessing the drug, it is essential that the appropriate procedures are followed to avoid contamination and ensure the correct dosage of the drug required.

**Safety** NIV® was created in response to the need to ensure ever greater safety for the healthcare professional during the preparation and dosage of the drug, before administration.

**Innovative material** Unlike common butyl-rubber stoppers, NIV® is composed by an innovative material developed after many years of studies and compatibility tests with different molecules.

**Hermetic closure** Thanks to its particular patented geometry and the innovative material with which it is made, NIV® allows a hermetic closure of the vial, avoiding the dispersion of particles inside the solution and the leaks of liquid or aerosols that occurs with use of stoppers made with other materials.

**Vial access with or without needle** NIV® can be used both with a syringe equipped with a needle and with a syringe without a needle: this allows it to be used safely, avoiding the risk of accidental needle sticks.



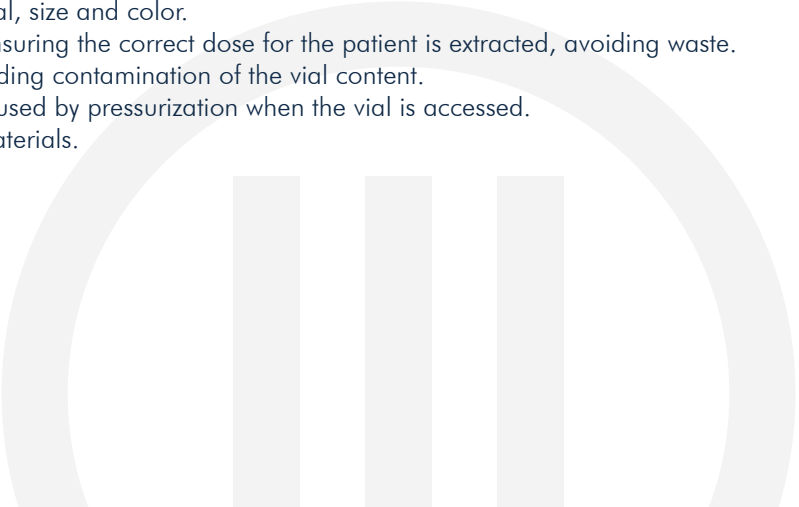


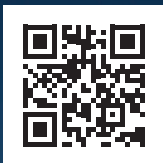
GOLD AWARD WINNER FOR BEST INNOVATION  
AT CPHI PHARMA AWARDS 2012

## ABOUT NEEDLEFREE CONNECTIONS

Every day, health care workers are exposed to dangerous and deadly bloodborne pathogens (like HIV, Hepatitis C and B and other deadly diseases) through contaminated needlesticks. Furthermore, there can be inadvertent contaminations or exposures to sometimes-toxic drugs, including needlesticks during the preparation of hazardous drugs. Needlestick injuries may occur for a variety of reasons, including the types of device used and procedures undertaken, lack of training on safe use and disposal of needles, and lack of knowledge of the consequences of such injuries. It is one of the greatest risks faced by the frontline health care worker. FDA regulations and market tendencies are moving towards needlefree systems which are more secure to care givers for avoiding needle sticks accidents and to patient for improving the safety: there is solid evidence that needleless devices with safety features significantly reduce needlestick injuries.

## THE ADVANTAGES OF NIV®

- Needlefree device, in compliance with the most advanced quality standards.
  - Possibility of being customized in terms of material, size and color.
  - Minimizes foaming during drug reconstitution, ensuring the correct dose for the patient is extracted, avoiding waste.
  - Hermetic closure both during and after use, avoiding contamination of the vial content.
  - Prevents the leakage of aerosols and droplets caused by pressurization when the vial is accessed.
  - Manufactured with innovative pharmaceutical materials.
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