



Safety flows
through

me

BD PosiFlush™ - Because so much is on the line

Step inside our manufacturing plant to experience the quality of BD PosiFlush™ Prefilled Saline Syringes



IV catheter-related infections – patients at risk

Approximately 80% of all hospital patients receive IV therapy¹ and it is the most common way to administer medication in healthcare facilities.² However, IV catheter failure may cause pain, dissatisfaction, extended length of care and vein depletion.²

Did you know?



60-90% of all patients admitted to hospital receive a vascular access device²



Around 40% of healthcare-associated bloodstream infections in Europe are catheter related²



The additional cost of catheter-related infections per patient in the United Kingdom is estimated at £2,949-£6,209 (€4,392-€9,251)³

BD PosiFlush™ – focusing on product quality, enhancing patient safety

The BD PosiFlush™ Prefilled Saline Syringe is a solution that is part of the BD vascular access management portfolio. The polypropylene syringe contains a sterile 0.9% sodium chloride solution used to flush in-situ vascular access devices. This may minimise the risk of IV complications such as catheter contamination.⁴

Step inside the BD plant in Fraga, Spain

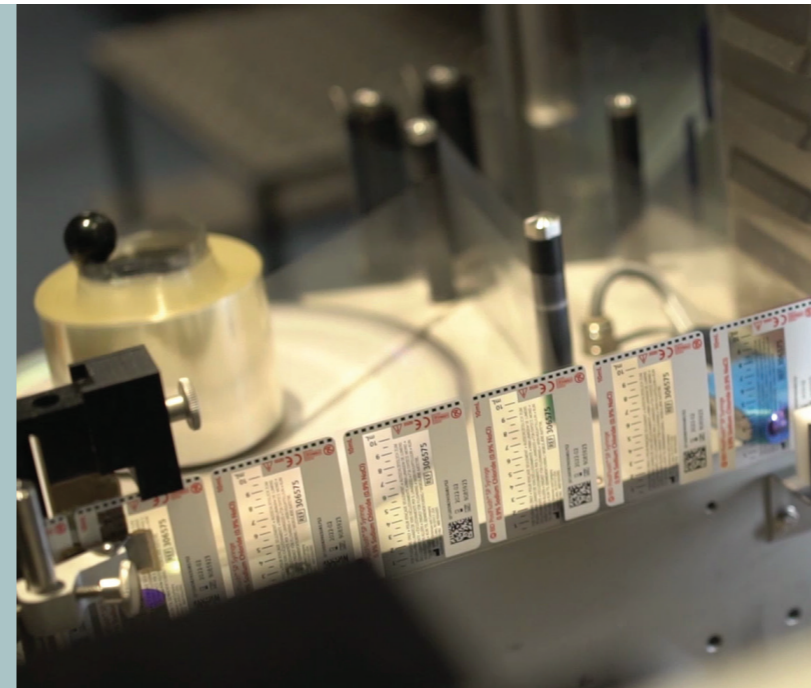
The BD PosiFlush™ team follows the International Organisation for Standardisation (ISO) 13485 standard on Medical devices – Quality management systems – Requirements for regulatory purposes.



Manufacturing quality for patient safety

A “hands free” process - ensuring quality at each step

- From raw material to finished syringe, there is no human contact, to maximise product safety
- Regular inspections throughout the process
- Chemical and biological laboratory testing
- Each and every syringe is inspected



Quality from production line to IV line

Our ownership of saline compounding and syringe production ensures quality and consistency in supply.

Using a fully automated production process from start to finish limits interruptions in production due to lapses in the supply chain, and allows us to have control over all steps involved in making pre-filled syringes, such as:

- Quality of raw material
- Optimised syringe design for flushing
- Extended shelf-life
- Sterile saline solution

The largest medical device sterilisation centre in Europe

The Fraga plant is the largest medical device sterilisation centre in Europe.⁵ BD PosiFlush™ Prefilled Saline Syringes are sterilised using moist heat, which eliminates microorganisms.⁶

Tests are performed at the end of each production cycle to ensure each syringe contains the least amount of defects possible and is ready to be used for effective patient care.



What makes BD PosiFlush™ Syringes different

BD PosiFlush™ Syringes are designed and manufactured to help clinicians deliver quality care to patients



“Quality is a matter of trust.”

Javier Pardiño, BD Fraga plant director



“We make the best product possible, so that healthcare workers can focus on the patient.”

Alberto Villalba, BD PosiFlush™ production manager



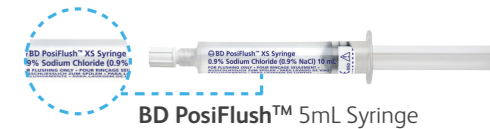
BD Luer-Lok™ Tip Cap

Luer lok tip cap ensures closure integrity for the 3 years shelf life, helping prevent touch contamination and infection



Carton shelf pack

Easy-to-open packaging with individually wrapped syringes in an internal box, simplifying inventory management and allowing for convenient placement on shelves



Clear labeling

Supports easy identification of syringe volume, lot number and expiration date

Patented, unique* stubby design that reduces PSI force

Same syringe diameter regardless of volume

BD PosiFlush™ Prefilled Saline Syringes come in three volumes (3 mL, 5 mL and 10 mL) of equal diameter (10 mL syringe). Because the BD PosiFlush™ 3-mL Syringe has the same diameter as a standard 10-mL syringe, it generates less pressure than smaller diameter syringes and reduces the risk of catheter damage.⁷



BD PosiFlush™ 3-mL Syringe

Standard 3-mL syringe

* As of March 2020

** pounds per square inch

BD offers a comprehensive flush portfolio to meet your patients' needs



BD PosiFlush™ SP Prefilled Saline Syringes

Catheter type and size, medication as well as some of the patient characteristics should determine the flush volume being used in order to properly maintain catheter patency and reduce medication interactions.⁸

BD PosiFlush™ XS Prefilled Saline Syringes

This syringe is terminally sterilized in its peel pouch, enabling it to be aseptically presented to a sterile field.





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2. Helm RE, Klausner JD, Klemperer JD, Flint LM, Huang E. Accepted but unaccountable: peripheral IV catheter failure. *J Infus Nurs.* 2015;38(3):189–203.
3. Tacconelli E, Smith G, Hieke K et al. Epidemiology, medical outcomes and costs of catheter-related bloodstream infections in intensive care units of four European countries: literature and registry-based estimates. *Journal of Hospital Infection.* 2009;72(2):97-103.
4. Sacha G, Rogers JA, Miller RL. Pre-filled syringes: a review of the history, manufacturing and challenges. *Pharm Dev Technol.* 2015;20(1):1-11. doi: 10.3109/10837450.2014.982825.
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Discover BD Patient Safety: eu.bd.com/patient-safety

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