



Medical Bags

Customized care, engineered for life



www.gvs.com

Why Choose GVS?

At GVS, our **direct supply chain model** and extensive portfolio of medical bags and components allow us to swiftly respond to customer requests with **ready-to-market solutions** tailored to each client's unique needs.

This **customized approach** enables us to deliver comprehensive, flexible solutions, establishing GVS as a trusted partner across a wide range of healthcare applications.



Eco-Friendly Materials

Polyolefins PP, PE Multilayer-Based (Non-PVC)

Our bags are available in 100% Non-PVC options using multilayer polypropylene (PP) and polyethylene (PE) materials. This choice prioritizes patient safety while reducing environmental impact.

EVA (Ethylene Vinyl Acetate)

Our EVA bags are crafted from flexible, durable material that is free from harmful chemicals, offering an ideal choice for a variety of medical applications.

EVOH Layer

To provide optimal protection, our bags can include an inner EVOH layer, ensuring enhanced oxygen barrier properties that help preserve product integrity.

PVC

For applications requiring PVC, we use only DEHP-free and phthalate-free options, ensuring our materials comply with the highest standards of medical safety and environmental regulations.



Versatile Solutions for healthcare applications

Wide range of applications

Our medical bags serve a wide range of applications, including **IV fluids, irrigation, dialysis, antibiotics, specialty drug delivery**, and **enteral/parenteral nutrition**. We also offer **oncology, cell culture, biotech**, and **multi-chamber bags**, all designed with reinforced seals and customization options to ensure safe, effective use across diverse healthcare needs.

Customizable solutions

We offer full customization in size and port configurations



Superior Quality and Compliance

ISO 13485 - Quality System Certification

Our production facilities are ISO 13485 certified, adhering to strict quality control standards.

Medical-Grade Materials

Manufactured from medical-grade raw materials that meet the highest standards of purity, strength, and reliability.

Certified Quality Worldwide

CE marking

GVS maintains an up-to-date ISO 13485-certified quality management system, as well as CE certifications with Regulation (EU) 2017/745 (MDR) for several families of Medical Devices.

The various families include Class I, Sterile I and Class IIa products.

FDA

FDA Establishment registration for both Mirandola and Borgocarbonara sites and products for US market with 510K (I.V. Container), for the marketing of TPN and infusion bags.



QUALITY Management System

GVS holds multiple certifications that reinforce its commitment to quality, safety, and environmental standards in the medical devices industry. Our products meet ISO 13485 standards for medical devices, guaranteeing rigorous quality management throughout production.

ISO 13485

All products are designed, manufactured and sold in strict compliance with the ISO 13485 quality system, ensuring full compliance with the essential safety requirements of the medical sector.



MDSAP

Haemotronic, a GVS company, is MDSAP (Medical Device Single Audit Program) certified by TÜV SÜD for the marketing of Medical Devices in the USA, Brazil, Australia and Canada.

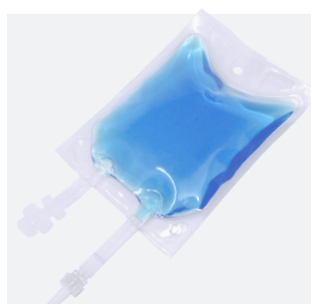


GVS offers an extensive selection of **high-quality** medical bags to address a wide array of needs in the healthcare industry. Our products combine **engineering innovation** with **manufacturing precision**, positioning us as a global leader in medical bags and accessories. We proudly supply all major players in the finished dosage form sector.

Our extensive knowledge in medical pouch welding, precision extrusion and injection molding make us the partner of choice for “off the shelf” bags and accessories, as well as **custom solutions** designed to customer specifications.

GVS manufacturing sites and processes are certified according to **ISO standards** to ensure the highest levels of **quality and performance**.

Our product range



Non-PVC Multi-layer IV Bags

- Standard IV
- API's - finished dosage formulations
- Irrigation
- Haemodialysis
- Peritoneal Dialysis
- Antibiotics
- Specialty Drugs Delivery
- Multi-Chamber
- EVOH Material



EVA bags

- Parenteral Solutions
- Enteral Solutions
- Oncology
- Cell Culture
- Biotech



PVC Bags

- DEHP-Free
- Large Volume Parenterals (LVPs)
- Injectable Solutions
- Pharmaceutical Applications
- Biotechnological Applications



Accessories

- Spike port (Twist-off)
- Injection port
- Clamp
- Bag Connector
- Cap
- Needle Free valve



Tubes

- Medical applications
- Pharmaceutical applications
- PP, EVA-PVC or DEHP-free PVC Materials

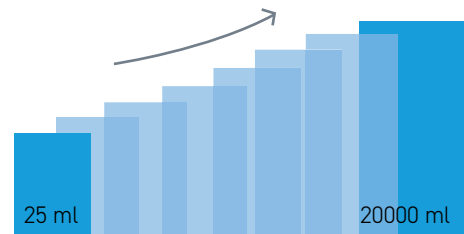
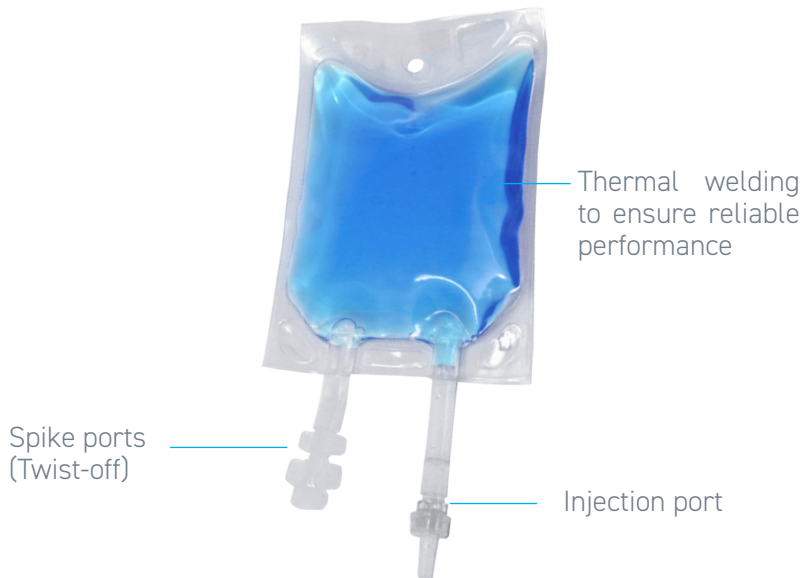
Non-PVC Multi-layer IV Bags

Non-PVC bags are **durable**, **biocompatible**, and **highly transparent** for easy content inspection. They provide a **safe**, **eco-friendly** solution for fluid storage, drug delivery, dialysis, and other critical healthcare applications.

Manufactured using our in-house developed **thermal welding machines**, these bags can accommodate a **wide variety** of models, sizes, and custom designs.



Non-PVC bags material solutions designed to support modern healthcare applications and flexible product configurations.



Ranging in sizes from 25 ml to 20000 ml

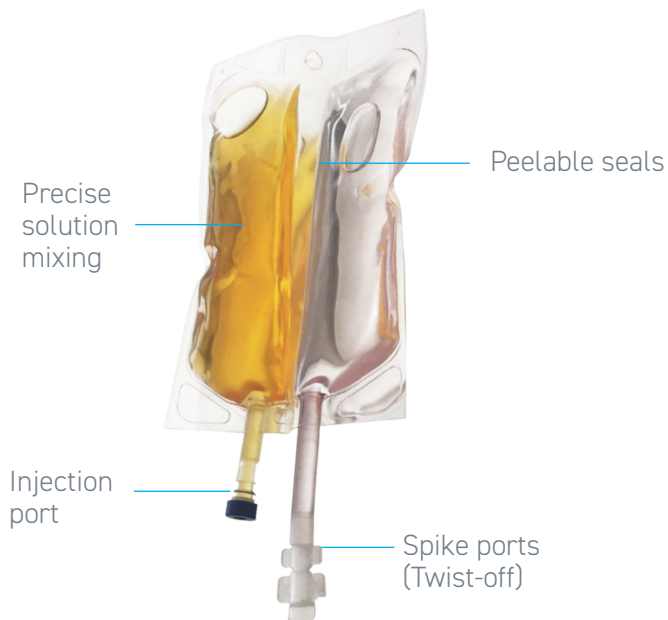
Features

- **Eco-Friendly:** Free from PVC and phthalates, reducing environmental and health risks.
- **Biocompatibility:** Designed to be safe for sensitive applications in healthcare.
- **Customization:** Customizable sizes, configurations, and additional options for specific medical needs.
- **Oxygen Barrier:** Gas barrier ensured by introducing a EVOH layer in the multilayer film solutions.
- **Precision thermal welding:** Ensures secure, leak-proof seals in our medical bags, enhancing durability and resistance into sterility processes.



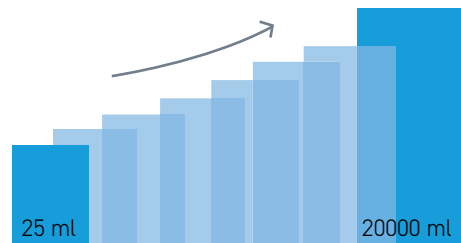
Multi-chamber Non-PVC Multi-layer IV Bags

Our **multi-chamber** solutions feature peelable seals designed to keep the fluids separated during storage and enable controlled mixing before use. Before patient infusion, full mixing of the components can be achieved by simply pressing the chambers, allowing the peelable seals to open to create a single infusion chamber.



A practical and efficient solution in modern healthcare, enhancing the safety, effectiveness, and convenience:

- on-demand mixing supports fresh preparation and reduces waste compared to premixed solutions.
- Consolidating multiple solutions in one bag reduces the need for separate containers, saving space and reducing medical waste.



Ranging in sizes from 25 ml to 20000 ml

Features

- **Design:** high-quality, high-performance design, full customization
- **Materials:** a broad range of flexible bags to satisfy the strictest medical regulations and latest quality requirements
- **Customization:** Customizable sizes, configurations, and additional options for specific medical needs
- **UV Protection:** closures matching the latest USP regulations, offering a best performing UV protection
- **Precision thermal welding:** Ensures secure, leak-proof seals in our medical bags, enhancing durability and resistance



PVC Bags

PVC Bags are flexible containers made from polyvinyl chloride (PVC), a versatile and reliable thermoplastic widely used in pharmaceutical and biotechnological applications. Thanks to their excellent chemical, physical, and biological properties, PVC bags are ideal for storing a wide range of Large Volume Parenterals (LVPs) and injectable solutions.

Fully autoclavable at 121°C, they are available in sizes from 25 ml up to 5.0 L, with customization options such as printed or unprinted surfaces, one or two tubes, and pre-assembled closures.

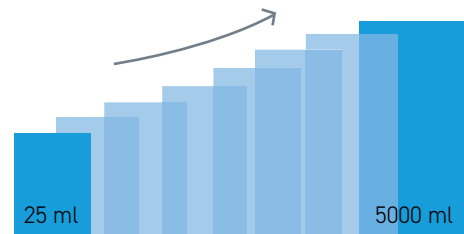
Flexibility, chemical resistance, and liquid-tight protection

Spike ports (Twist-off)

Bag connector



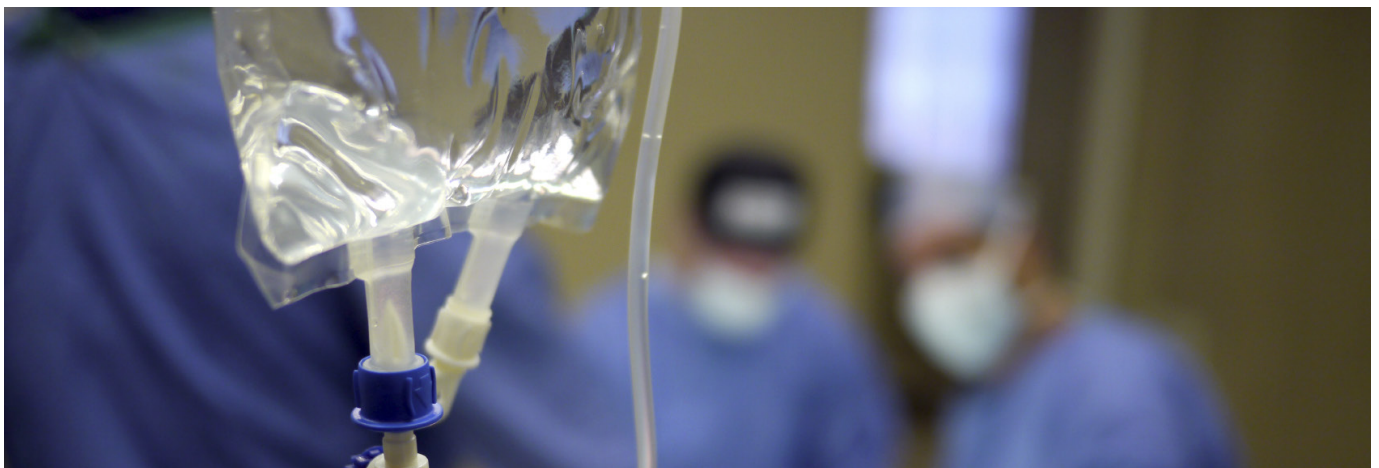
PVC bags are flexible containers made from polyvinyl chloride, a trusted material known for its versatility. They offer key benefits such as flexibility, chemical resistance, and liquid-tight protection, making them ideal for medical and industrial applications.



Ranging in sizes from 25 ml to 5000 ml

Features

- **Flexibility:** PVC can be plasticized for multiple applications.
- **Chemical Resistance:** Excellent protection against acids and chemical agents.
- **Impermeability:** Complete barrier to liquids for maximum safety.
- **Sterilizable:** Safe sterilization up to 121°C.
- **Customization:** Options include printing, single or double tubing, and closures.
- **Durability & Stability:** Maintains properties over time, even under critical conditions.
- **Cost-Effective:** Reliable solution with an excellent price-performance ratio.



EVA bags

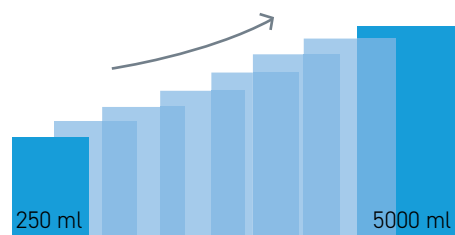
EVA containers are well suited for compounding and storage of enteral and parenteral nutrition solutions, cell culture and biotech applications. Manufactured using our in-house developed **RF welding machines**, these bags can accommodate a **wide variety** of models, sizes, and custom designs.



RF welding preserves physical properties



Superior low temperature performance, ideal for cryopreservation and cold storage. Strong and reliable seals that are resistant to cracking or leakage under stress, making them well-suited for fluid transportation and storage



Ranging in sizes from 250 ml to 5000 ml

Features

- **RF welding** to preserve physical features of the material.
- **Biocompatible:** Suitable for direct medical use with no harmful interactions.
- **Durability:** Resistant to tearing and punctures, ensuring safe storage and handling.
- **Transparency:** Allows for easy visual inspection of contents.
- **UV Retentive:** Light resistant solutions matching the latest USP regulations, offering a best performing UV protection and always ensuring the see-through requirement.
- **Oxygen Barrier:** Gas barrier feature guaranteed by introducing an EVOH layer in the multilayer film solutions.
- **Customization:** Option to customize size and specifications according to client requirements.
- **Multiple Bag Sizes:** Available in multiple sizes and configurations to meet diverse application needs.



Accessories

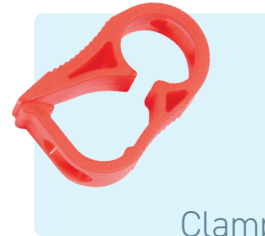
Medical bags, in combination with accessories, form a system that addresses the most diverse and complex applications. GVS offers an extensive range of components to address all configurations.



Spike port
(Twist-off)



Injection
port



Clamp



Bag
Connector



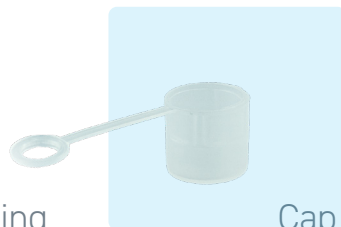
Breakable
connector



Large Bore
connector



Non-Reopening
Clamp



Cap



Needle Free
valve



Tubes

GVS offers a wide variety of **extruded** and **lay-flat** tubing for medical and pharmaceutical applications.

Our Quality System and USP Class VI certificated polymers guarantee exceptional product performances with a wide selection of materials.

Our co-extrusion technology produces tubes and lay flats consisting of multiple layers of different thicknesses. Product properties can be adjusted to guarantee specific physical and chemical performances.

This technology is available in a range of polymer materials and layer combinations.

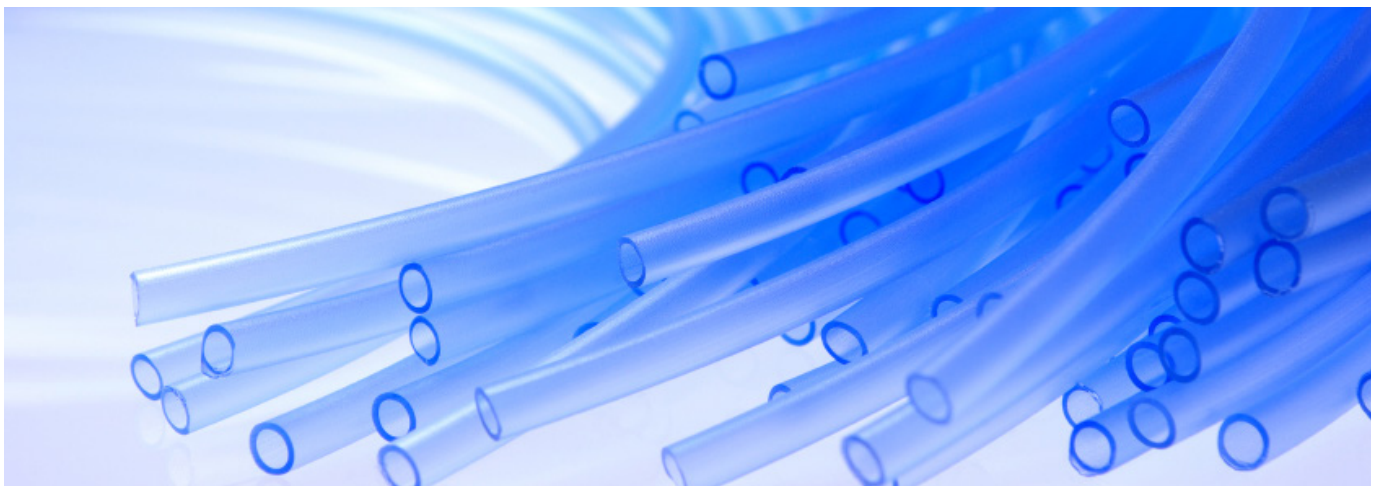
Our tubes are available in a variety of material options to meet different application needs: PP for strength and lightness, EVA-PVC for flexibility and transparency, or DEHP-free PVC for maximum safety and regulatory compliance.



Single layer



Co-extruded





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