Advanced Pharmaceutical Packaging

Bags, Components & Customized Solutions for Pharmaceutical Fluid Management



www.gvs.com

Why Choose GVS Advanced Pharmaceutical Packaging?

GVS combines material expertise, bag manufacturing and component capabilities to provide standard and customized solutions for pharmaceutical fluid management.

Eco-Friendly Materials

PVC-Free Solutions (PP / PE Multilayer-Based)
Medical-grade PP/PE multilayer structures provide PVC-free options. **EVOH barrier layers** can be incorporated according to application requirements.

EVA Solutions
Flexible constructions for **nutrition**, specialty pharmaceutical and selected low-temperature applications.

PVC Options
DEHP-free and **phthalate-free PVC** remains available where the application requires it.

Integrated Manufacturing Capabilities

Precision welding, extrusion, injection molding and component manufacturing support standard products and customer-specific configurations.

Versatile Solutions for healthcare applications

Wide range of applications
IV fluids, irrigation, dialysis, specialty drug delivery, enteral and parenteral nutrition, plus selected multi-chamber applications

Customizable solutions
Bag size, geometry, components and port configurations can be adapted around customer requirements.

Superior Quality and Compliance

ISO 13485 - Quality System
Manufacturing activities are supported by an established medical-device quality management system.

Medical-Grade Materials
Raw materials and polymer constructions are selected around purity, performance and application requirements.

Quality Management System

Quality and regulatory foundations supporting medical-device manufacturing and international market requirements.

ISO 13485

Quality management system

MDSAP

Medical Device Single Audit Program

Certified Quality Worldwide

CE marking

Selected medical device families

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

FDA

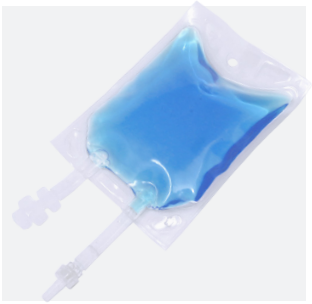
Registered sites and applicable products

Our Solution

A portfolio built around the complete bag configuration: materials, bags, components, tubing and customized solutions.

GVS combines bag manufacturing, polymer processing and component capabilities to support standard products and customer-specific configurations.

Our product range



Non-PVC Multi-layer IV Bags

- IV fluids and irrigation
- Haemodialysis and peritoneal dialysis
- Specialty drug delivery
- Customized configurations



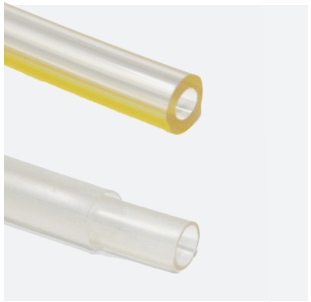
EVA bags Solutions

- Parenteral and enteral nutrition
- Specialty pharmaceutical applications
- Selected cold-storage applications
- Selected life-science applications



Components & Tubing

- Twist-off ports and injection sites
- Clamps, connectors and caps
- Single-layer and co-extruded tubing
- Customized component configurations

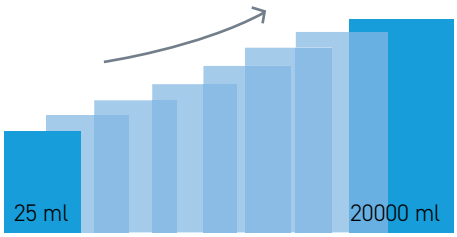


Non-PVC Multi-layer IV Bags

Non-PVC bags based on medical-grade PP/PE multilayer structures combine transparency, durability and configurable barrier performance.
EVOH layers can be incorporated where enhanced oxygen-barrier performance is required. Precision thermal welding supports multiple sizes and customized configurations.



Non-PVC bags are easier to recycle and dispose of safely. PVC incineration can release harmful dioxins, whereas PVCfree alternatives reduce environmental hazards.



Ranging in sizes from 25 ml to 20000 ml

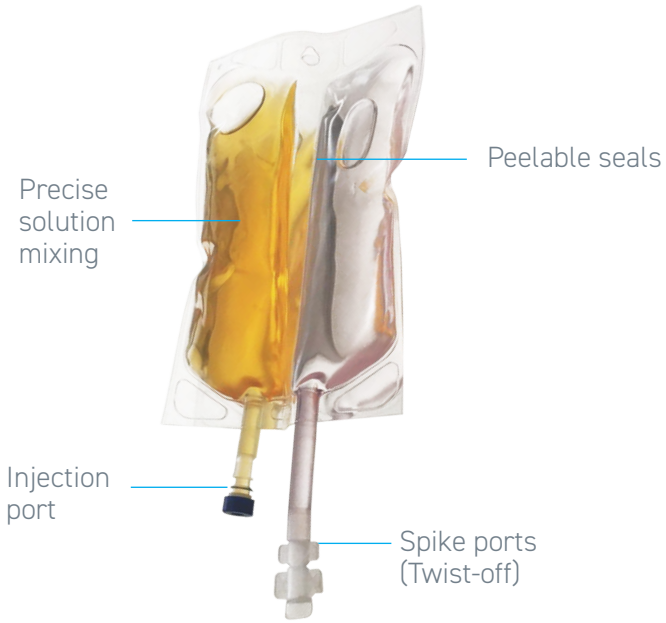
Features

- **PVC-Free Construction:** Medical-grade PP/PE multilayer structures without PVC.
- **Barrier Options:** EVOH layers available according to application requirements.
- **Configurable Design:** Bag size, geometry and port configuration can be customized.
- **Precision Thermal Welding:** Supports secure, consistent seals and reliable bag performance.



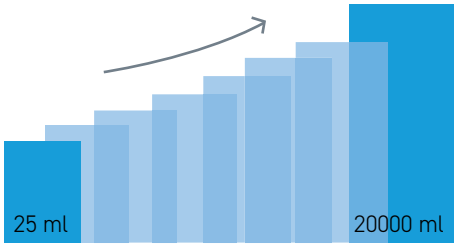
Multi-chamber Non-PVC Multi-layer IV Bags

Multi-chamber configurations support separated storage and pressure-activated mixing before use. Peelable seals enable the chambers to open into a single solution chamber. Non-PVC PP/PE multilayer constructions, bag geometry, ports and connectors can be configured around the application.



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

- On demand mixing ensures fresh preparation and reducing 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

- **Multi-Chamber Design:** Single- and multi-chamber configurations for separated storage.
- **Non-PVC Materials:** PP/PE multilayer structures with optional barrier layers.
- **Customized Configuration:** Chambers, bag sizes, ports and connectors adapted to the application.
- **Peelable-Seal Technology:** Supports controlled opening and on-demand mixing before use.

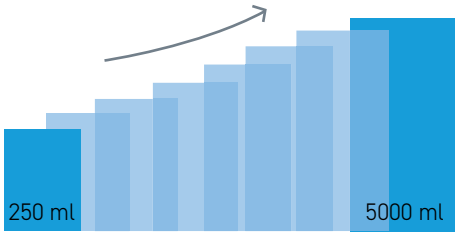


EVA bag Solutions

EVA containers are suited to nutrition, specialty pharmaceutical and selected low-temperature applications. RF welding supports strong seals while preserving the physical characteristics of the material. Available options include customized sizes, single- and multi-chamber designs, and EVOH barrier structures where required.



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

- **High frequency 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.
- **Light resistant:** 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 a EVOH layer in the multilayer film solutions.
- **Customization:** Option to customize size and specifications according to client requirements.
- **Multiple Bag Sizes:** Available in various sizes, single and multi-chamber, to meet diverse clinical needs.



Components & Tubing

Medical bags, components and tubing can be configured together around the application. GVS offers ports, injection sites, clamps, connectors, caps and extruded tubing solutions.



Spike port (Twist-off)



Injection port



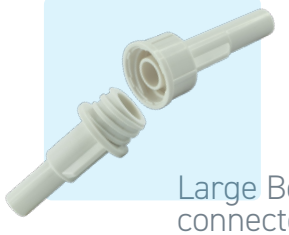
Clamp



Bag Connector



Breakable connector



Large Bore connector



Non-Reopening Clamp



Cap

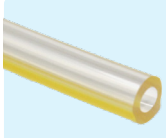


Needle Free valve

Tubing Solutions

GVS offers extruded and lay-flat tubing for medical and pharmaceutical applications. Single-layer and co-extruded structures are available in a range of polymer and layer combinations.

Co-extrusion enables multilayer constructions with properties adjusted around specific physical and chemical requirements.



Single layer



Co-extruded

Global Reach. Specialized Pharmaceutical Expertise.

International presence combined with focused pharmaceutical packaging capabilities.

GVS Global presence



Global Presence

An established international footprint supporting customers across key pharmaceutical and healthcare markets.

Specialized Manufacturing Capabilities

Bag manufacturing, polymer processing, extrusion, welding and component manufacturing capabilities.

Application Engineering

Standard and customized configurations developed around material, bag design, components and application requirements.The various families include Class I, Sterile I and Class IIa products.

Quality & Regulatory Foundations

Established quality systems and regulatory foundations supporting medical and pharmaceutical applications.

Let's design the right solution around your application.

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