

FILLING YOUR NEEDS



BOTTELPOST

LVP

APPLICATIONS IN THE FIELD OF LARGE VOLUME PARENTERALS



bottelpack®

BLOW-FILL-SEAL TECHNOLOGY

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An important part of intravenous solution manufacturers worldwide have made their choice of manufacturing methods. It is the Blow-Fill-Seal Technology!

This is particularly true for multinational companies which have relied on the technologies' cost benefits and highest achievable sterility assurance level.

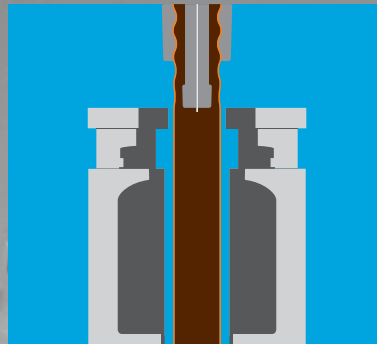
IV fluids are basic life saving drugs. World market growth is driven by population increases and constant improvements in health care delivery. A multitude of IV therapies are becoming increasingly essential in overall health care treatment.

The range of IV solutions is great: hydration agents, chemotherapy, pain management, antibiotics, plasma volume expanders, total parenteral nutrition and many others.

It has been reported that about 90% of hospitalized pre-and post-operation patients are given infusions. Many markets still rely on imported products. In some areas locally manufactured products are of poor quality and high in cost due to inefficient production methods. Lack of inexpensive IV solutions in some developing areas has led to fatalities from non-mortal injuries and diseases. The answer to this has a name - bottelpack®!

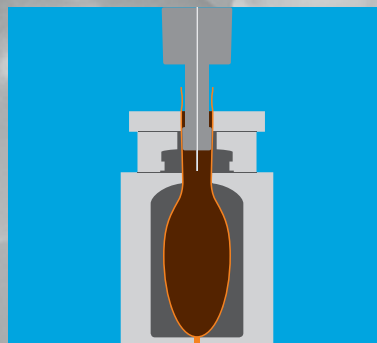
The highly automated process minimizes human interventions. The process eliminates the need for preformed containers or films that require storage, washing and sterilization prior to use. This gives bottelpack® to unrivaled low operation costs.

The completely closed manufacturing method results in the highest sterility assurance level (SAL) in this field of pharmaceuticals.



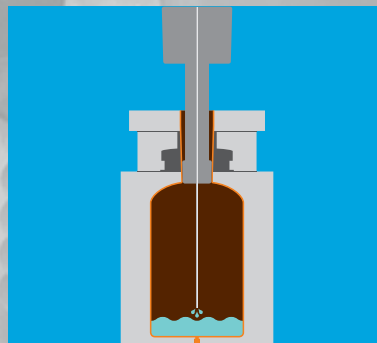
EXTRUDING

The plastic parison, extruded from polymer, is accepted by the opened blow mould and cut below the die of the parison head.



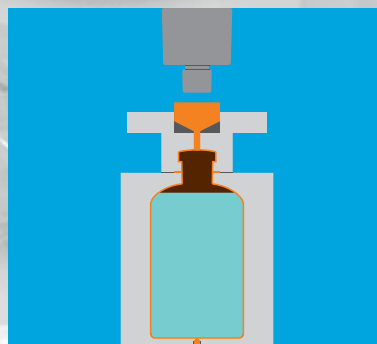
MOULDING

The main mould closes and simultaneously seals the bottom. The special mandrel unit settles onto the neck area and forms the parison into a container, using compressed air. Small containers are formed by vacuum.



FILLING

By way of the special mandrel unit, the product, precisely measured by the dosing unit, is filled into the container.



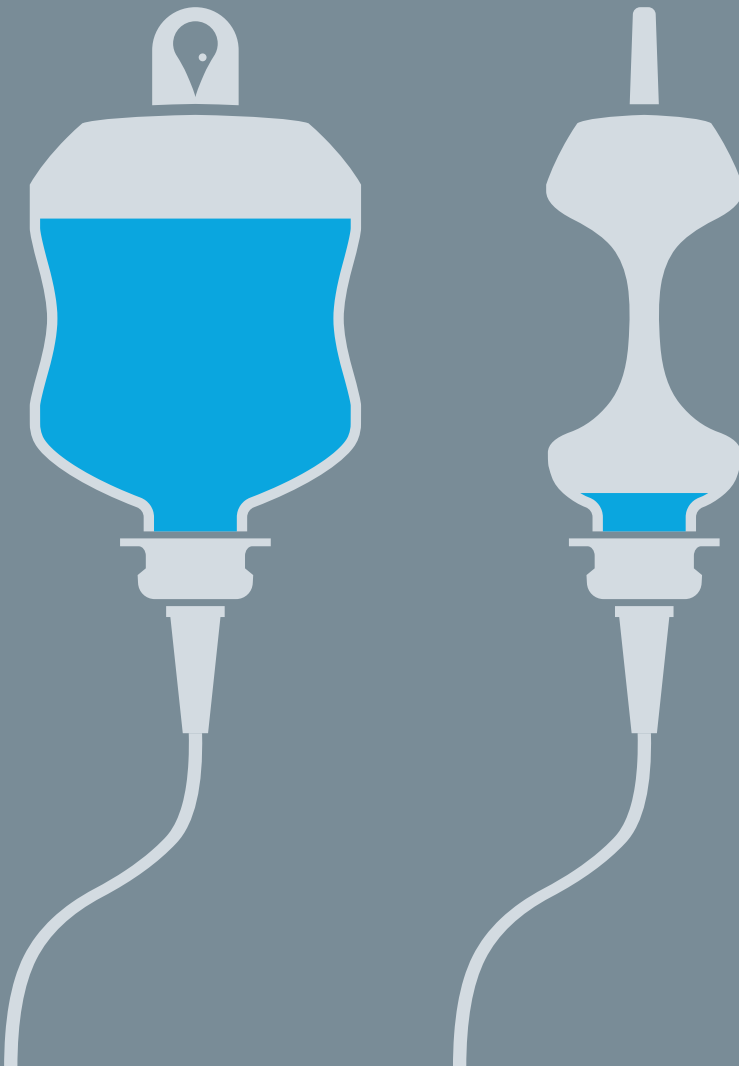
SEALING

After the special mandrel unit retracts, the head mould closes and forms the required seal by vacuum.



MOULD OPENING

With the opening of the blow mould, the container exits from the machine and the cycle repeats itself. Transfer for further processing is achieved by means of conveying systems.



WHY MANUFACTURERS OF IV SOLUTIONS CHOOSE BLOW-FILL-SEAL CONTAINERS MADE BY bottelpack®

- ✓ TRANSPARENT
- ✓ FULLY COLLAPSIBLE
- ✓ CLOSED SYSTEM
- ✓ UNVENTED USE
- ✓ LIGHT WEIGHT
- ✓ UNBREAKABLE
- ✓ GOOD GRIP
- ✓ SELF STANDING
- ✓ DRUG COMPATIBILITY
- ✓ INERT RAW MATERIAL
- ✓ NO CONTACT BETWEEN CAP AND SOLUTION
- ✓ RESEALING PORTS
- ✓ GOOD ADMIXTURE VOLUME
- ✓ PERMANENT IN CONTAINER BATCH AND EXPIRY INFORMATION
- ✓ LOW PRODUCTION COSTS



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