



HICOFLEX® DISPOSABLE CONTAINMENT.

Low cost material handling solutions for powder transfer applications.

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I still use isolators to obtain samples. Is there a better way?

The Hicoflex® system is simple, effective and provides a safe working environment for minimal investment. It has been designed to provide a highly contained and disposable docking solution between the product handling bag and the process.

Flexible disposable bags provide a number of benefits compared with solid containers for handling small quantities of material in a production or R&D facility. Benefits include the following:

- lightweight and easy for a single operator to handle
- flexibility to allow poorly flowing materials to be manipulated out of the bag
- disposable, so no cleaning or validation
- low cost compared with solid transfer systems
- full yield discharge
- no cross-contamination
- instant protection for operator and product
- very fast installation
- simple/fast materials handling
- visual product transfer.

The Hicoflex® disposable containment technology consists of two identical couplings that are joined together to seal the external faces, thus enabling closed transfer; it is opened by applying a compression force to both ends to create an opening through which product flows. The Hicoflex® is attached to both a disposable containment bag (from 1–50 L) to transport material and to a disposable containment adapter that fits the inlet or outlet chute of the process to allow product transfer.

With containment performance from 1–10 µg/m³ (STTWA) as standard, and an optional extraction shroud to further improve containment levels down to <1 µg/m³ (STTWA), the system is more than suitable for both API and biotech manufacture, as well as secondary solid dosage production.

Hicoflex® Hicobox

The Hicobox unit has been designed for applications in which the process environment operates at a lower working pressure than the surrounding area.

In such situations, without a Hicobox in place, the flexible bags can collapse as a result of the negative differential pressure. This, in turn, prevents material (tablets) from flowing into the Hicoflex® Bag.

The Hicobox completely encapsulates the Hicoflex® Adapter, Hicoflex® Bag and the Hicoflex® Pneumatic Opening Tool and is put under the same pressure as the process area. This eliminates the pressure differential and guarantees material flow.

The Hicobox unit comprises a mobile cabinet with one or two chambers, each of which can accommodate a 25 L Hicoflex® Bag.

The dual chamber Hicobox means that when the first Hicoflex® Bag is full, production can be switched to the second one without halting the process, making it ideal for use with continuous processes. And, as the unit is mobile, it can easily be moved around the room to provide access to other areas.



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Further information

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