

Customization

Sartorius Stedim Biotech Key Account Managers, and Application Engineers are happy to work with you to define the best adapted bag design for your process needs.

Custom Design

The Sartorius Stedim Biotech Custom Bag Design program offers a whole range of services, including a wide variety of:

- Tubing options
- Connection types
- Sartopore 2 Filter Capsule
- Q.C. Sampling requirements
- Filter integrity testing designs
- Tube connection/disconnection methods
- Development of specific user instructions and protocols for use within your specific single-use disposable bag system

Tubing Options: Materials and Specifications

Several tubing materials are proposed by Sartorius Stedim Biotech. These materials are fully characterized in accordance with USP Class VI.

The choice of the appropriate tubing (specifications and dimensions) is carried out by Sartorius Stedim Biotech in partnership with the client. Points to consider in tubing selection are:

- Sartorius Stedim Biotech product features according to the process description and the expected performance of the system
- The connection/disconnection methods used in the process
- Flow rate requirements: type of tube/type of pump.

Disconnection

Disconnection of bags and manifolds can be accomplished simply by cutting. However, in order to maintain sterility it is necessary to seal a section of tubing prior to cutting. Radio-frequency (RF) sealing is utilised to fuse the layers of film in a tube in order to create a seal. The technique is widely applicable and is commonly used for PVC, EVA, or polyurethane sealing. RF sealing is the use of radio waves (typically at 40.68 MHz) directed through the tube plastic to induce localised heating.

Sartorius Stedim Biotech supply the following RF sealing products manufactured by Sebra:

Omni™ Sealer System

Compact RF generator and sealing head package

Industrial Sealer System

Separate RF generator and sealing heads for large applications

Typical applications for SEBRA sealers include controlled removal of :

- Bags from a manifold
- Filters or Q.C. bags from a bag