Configurable Flexel® Bag
for LevMixer® | Magnetic Mixer 50 L – 1,000 L

Description
Flexel® Bag for LevMixer® and Magnetic Mixer contains an in center magnetic impeller assembly. Its unique sided K-weld design simplifies installation and facilitates the unfolding and folding of the bag during filling and draining operations. The patented protection cap prevents contact of the impeller with the film during transport. It also offers a large diameter port for powder transfer. Configurable Flexel® Bag for LevMixer® and Magnetic Mixer are designed from a database of pre qualified components and proven functionalities using a web-based and interactive Product Configurator tool. The user friendly Product Configurator tool provides the flexibility needed for the application-based single use configuration whilst improving design and quotation turn around times, manufacturing lead times, security of supply, product reliability, safety and robustness.

Applications
Flexel® Bag for Magnetic Mixer is based on a magnetic coupling between magnets in the impeller and similar magnets in the drive unit. Ceramic bearings are used to control particulates generation. Flexel® Bag for Magnetic Mixer with a magnetic impeller generates high mixing forces with an impeller speed up to 300 rpm for high viscosity materials and dissolution | dispersion of concentrated powders in liquid.
Standard applications are:
– Buffer Preparation
– Media Preparation
– Feed Preparation
– Large-scale Homogenization

Flexel® Bag for LevMixer® is based on non-contact magnetic coupling between conventional permanent magnets in the impeller and superconducting materials in the drive unit. Flexel® Bag for LevMixer® with a levitating impeller generates moderate mixing forces with an impeller speed up to 210 rpm for ultra clean liquids blending, re-homogenization and dissolution of highly soluble powders in liquid.
Standard applications are:
– Cell harvest re-suspension
– pH adjustment of intermediate bulk
– Product collection from chromatography columns
– Formulation of adjuvant and final bulk formulation

Product Information
Flexel® Bag for LevMixer® or Magnetic Mixer assemblies are a single-use alternative to traditional stainless steel vessels for a large variety of mixing applications from buffer and media preparation to product formulation.
Flexibility
Configurable Flexel® Bag for LevMixer® or Magnetic Mixer are configured from pre-qualified components and proven functionalities including a variety of tubing, connectors, filter and sampling methods for a streamlined incorporation into your process. Multiple configurations are available with thermoweldable TPE tubing, compatible with BioWelder® and BioSealer® for aseptic connection | disconnections, silicone TuFlux® tubing compatible with Clipster® Aseptic Disconnector and qualified for peristaltic pumping and EVA tubing for RF sealing with Vante™ sealers. An extensive range of filters (Sartopore® 2, Sartopore® Platinum, Sartopore® 2 XLG, XLM and Sartoguard NF) are proposed with an optional flush bag. Needle free sampling port or sampling bags may be used for easy and convenient sampling. Quick couplers, tri-clamps, Steam thru valves and Sterile-to-sterile connectors are provided for optimal connection flexibility in a production environment.

Security of Supply
Sartorius Stedim Biotech expertise in designing Single Use solutions combined with collaborative supplier management and customer demand planning assures a state of the art product supported by a robust supply chain that can cope with strong market growth.

Validation
Flexel® Bags for LevMixer® or Magnetic Mixer have been qualified applying the most comprehensive and innovative test regimes. Biological, chemical and physical tests combined with extensive extractable testing provide users of Configurable Flexel® Bags for LevMixer® or Magnetic Mixer with data representing the widest range of process fluids in a variety of processing conditions. Full compliance with ISO11137 allows for a validated claim of sterility on all Sartorius Stedim Biotech single-use products with a sterility assurance level of 10⁻⁶ over the shelf life.

Quality Assurance
Sartorius Stedim Biotech Quality Systems for Single-use products follow applicable ISO and FDA regulations. Design, Manufacture and Sterilization processes are conducted under conditions that mirror biopharmaceutical operations and meet cGMP requirements. Flexel® Bags for LevMixer® or Magnetic Mixer are tested for compliance to:
- USP <85>: Bacterial Endotoxins Test
- USP <87>: Biological reactivity tests, in Vitro
- USP <88>: Biological reactivity tests, in Vivo
- USP <661>: Tests for plastic
- USP <788> and E.P. 2.9.19: Particulates
- ISO 11737: Bioburden
- ISO 11137: Sterilization of Medical Devices

Supply Chain
Configurable Flexel® Bags for LevMixer® or Magnetic Mixer are available as Configured to Order products. Pre-configured products based on application knowledge allow savings on engineering time and production preparation, thus providing reduced lead-times compared to classical fully customized processes.
### Configurable Flexel® Bag for LevMixer® | Magnetic Mixer

<table>
<thead>
<tr>
<th>Bag Chamber</th>
<th>Multiple layer film, including EVOH gas barrier layer and PE contact layer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tubing</td>
<td>Silicone TuFlux or Silicone (Pt) compatible with Clipster® Aseptic Disconnector, TPE compatible with BioWelder® and BioSealer®</td>
</tr>
<tr>
<td>End Connectors</td>
<td>Quick Couplers</td>
</tr>
<tr>
<td></td>
<td>Triclamp and Mini-Triclamp</td>
</tr>
<tr>
<td></td>
<td>Luer® Locks</td>
</tr>
<tr>
<td></td>
<td>Steam thru valves for SIP connections</td>
</tr>
<tr>
<td></td>
<td>Sterile-to-sterile connectors, including Opta® sterile connector</td>
</tr>
<tr>
<td>Filters</td>
<td>Sartopore® 2 0.2µm Gamma MidiCaps® sizes 7, 8, 9, 0, MaxiCaps® T-Style sizes 1, 2, 3</td>
</tr>
<tr>
<td></td>
<td>Sartopore® Platinum 0.2 µm Gamma MidiCaps® sizes 7, 8, 9, 0, MaxiCaps® T-Style sizes 1, 2, 3</td>
</tr>
<tr>
<td></td>
<td>Sartopore® XLG 0.8</td>
</tr>
<tr>
<td></td>
<td>Sartopore® XLM 0.2</td>
</tr>
<tr>
<td></td>
<td>Sartoguard® NF MidiCaps® sizes 8, 9, 0, MaxiCaps® T-Style sizes 1, 2, 3</td>
</tr>
<tr>
<td>Sampling</td>
<td>Needleless sampling site</td>
</tr>
<tr>
<td></td>
<td>Manifolded Flexboy® or Flexel® sampling bags</td>
</tr>
<tr>
<td></td>
<td>TPE tubing for tube-to-tube welding</td>
</tr>
<tr>
<td>Volumes</td>
<td>50 L – 1,000 L</td>
</tr>
<tr>
<td>Number of Ports</td>
<td>1 large 8” top port for powder addition</td>
</tr>
<tr>
<td></td>
<td>2 top ports – 4 bottom ports</td>
</tr>
<tr>
<td>Sterilization</td>
<td>By Gamma Irradiation</td>
</tr>
</tbody>
</table>
Technical Data

Flexel® Bag for LevMixer® | Magnetic Mixer

Generic description for 4 bottom ports

Functionalities
Mixing application for liquid | liquid blending, homogenization and powder dissolution

Specifications

Volume
50 L, 100 L, 200 L, 400 L, 650 L, 1,000 L

Number of Ports
- 2 or 4 top ports
- 4 bottom ports or 2 EZ drain valves

Type of Ports
- 1 top UPS2 port with 1 to 2 hose barbs (¼”, ½”, plug)
- 1 bottom UPS4 with 2 to 4 hose barbs (¼”, ⅜”, ⅝”, ¾”, plug)

Option

<table>
<thead>
<tr>
<th>No sensor</th>
<th>Thermowell</th>
<th>Conductivity</th>
<th>pH &amp; Thermowell</th>
<th>Conductivity &amp; Thermowell</th>
<th>2 top ports</th>
<th>4 top ports</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canotier with TC clamp</td>
<td>● ●</td>
<td>● ●</td>
<td>● ●</td>
<td>● ●</td>
<td>● ●</td>
<td>● ●</td>
</tr>
<tr>
<td>Closed canotier</td>
<td>● ●</td>
<td>● ●</td>
<td>● ●</td>
<td>● ●</td>
<td>● ●</td>
<td>● ●</td>
</tr>
<tr>
<td>2 bottom EZ drain valves</td>
<td>● (except 50L bag)</td>
<td>● (except 50L bag)</td>
<td>● (except 50L bag)</td>
<td>● (except 50L bag)</td>
<td>● (except 50L bag)</td>
<td>● (except 50L bag)</td>
</tr>
<tr>
<td>4 ports bottom lines</td>
<td>● ● ● ●</td>
<td>● ●</td>
<td>● ●</td>
<td>● ●</td>
<td>● ●</td>
<td>● ●</td>
</tr>
</tbody>
</table>

Type of Lines

<table>
<thead>
<tr>
<th>Port</th>
<th>P1</th>
<th>P2</th>
<th>P3</th>
<th>P4</th>
<th>P5</th>
<th>P6</th>
<th>P7</th>
<th>P8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line</td>
<td>Line 1</td>
<td>Line 2</td>
<td>Line 3</td>
<td>Line 4</td>
<td>Line 5</td>
<td>Line 6</td>
<td>Line 7</td>
<td>Line 8</td>
</tr>
<tr>
<td>Function</td>
<td>Fill</td>
<td>Drain</td>
<td>Addition</td>
<td>Addition</td>
<td>Addition</td>
<td>Addition</td>
<td>Addition</td>
<td>Addition</td>
</tr>
<tr>
<td>Normal Flow Rate with Filter</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Normal Flow Rate</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Small Flow Rate</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>High Flow Rate</td>
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<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Sampling</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Transfer to Filter</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Titration</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Not Used</td>
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<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>
Line Type “Normal Flow Rate with Filter”

Generic Description

Functionalities
- Filling trough large choice of filters
- Optional filter flush bag
- Filter disconnection with a MPX Quick Coupler (additional MPX plug provided in a PE pouch) or Clipster®

Specifications

Flow Rate
Maximum flow-rate with peristaltic pumping = 780 L/hr.
Flow rate varies with discharge pressure, suction and viscosity and product filterability

<table>
<thead>
<tr>
<th>Type of tubing</th>
<th>Tubing Diameters</th>
<th>Tubing lengths</th>
<th>Disconnection</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicone TuFlux® or Silicone (Pt)</td>
<td>ID × OD = ½” × ¾” (12.70 mm × 19.05 mm)</td>
<td>1,500 mm (59”)</td>
<td>Clipster® disconnection on Silicone (Pt)</td>
<td>Transfer with Peristaltic pumping ≥ 1,000 mm length (10 hr maximum)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3,000 mm (118”)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Filter range with inlet TriClamp flange 1–½”

<table>
<thead>
<tr>
<th>Filter type</th>
<th>Size of filter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sartopore® 2 0.2 µm Gamma</td>
<td>MidiCaps® sizes 7, 8, 9, 0</td>
</tr>
<tr>
<td></td>
<td>MaxiCaps® T-Style sizes 1, 2, 3</td>
</tr>
<tr>
<td>Sartopore® Platinum 0.2 µm Gamma</td>
<td>MidiCaps® sizes 7, 8, 9, 0</td>
</tr>
<tr>
<td></td>
<td>MaxiCaps® T-Style sizes 1, 2, 3</td>
</tr>
<tr>
<td>Sartopore® 2 XLG 0.8</td>
<td>0.2 µm Gamma</td>
</tr>
<tr>
<td></td>
<td>MaxiCaps® T-Style sizes 1, 2, 3</td>
</tr>
<tr>
<td>Sartopore® 2 XLM 0.2</td>
<td>0.1 µm Gamma</td>
</tr>
<tr>
<td></td>
<td>MaxiCaps® T-Style sizes 1, 2, 3</td>
</tr>
<tr>
<td>Sartoguard NF</td>
<td>MidiCaps® sizes 8, 9, 0</td>
</tr>
<tr>
<td></td>
<td>MaxiCaps® T-Style sizes 1, 2, 3</td>
</tr>
</tbody>
</table>

With optional flush bags: 5 L, 10 L & 20 L
Line Type “Normal Flow Rate”

Generic Description

![Functionality Diagram]

Functionalties
- Bag filling or bag drainage
- Transfer with a peristaltic pump or by gravity
- Tube to tube welding
- Tube sealing
- Aseptic connection
- Generic connection with a Triclamp or a Quick Coupler

Specifications

Flow Rate
Maximum flow-rate with a peristaltic pump = 780 L/hr.
Flow rate varies with discharge pressure, suction and viscosity.

<table>
<thead>
<tr>
<th>Type of tubing</th>
<th>Tubing Diameters</th>
<th>Tubing lengths</th>
<th>Disconnection</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicone TuFlux® or Silicone (Pt)</td>
<td>ID × OD = ½&quot; × ¾&quot; (12.70 mm × 19.05 mm)</td>
<td>300 mm (12&quot;)</td>
<td>Clipster® disconnection on Silicone (Pt)</td>
<td>Transfer with Peristaltic pumping ≥ 1,000 mm length (10 hr maximum)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>500 mm (19&quot;)</td>
<td>1,000 mm (39&quot;)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,500 mm (59&quot;)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3,000 mm (118&quot;)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Silicone TuFlux® or Silicone (Pt)</td>
<td>ID × OD = ½&quot; × ¾&quot; (12.70 mm × 19.05 mm)</td>
<td>1,000 mm (39&quot;) silicone + 500 mm (19&quot;) TPE</td>
<td>BioSealer® or Biowelder® or Clispter® disconnection</td>
<td>Transfer with Peristaltic pumping ≥ 1,000 mm length (10 hr maximum) for silicone tubing</td>
</tr>
<tr>
<td>with TPE tubing extension</td>
<td></td>
<td>2,500 mm (98&quot;) silicone + 500 mm (19&quot;) TPE</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Distal Connectors
- TriClamp (1½" or ¾” flange) with or without a triclamp cap, gasket and union
- Quick Coupler with plug – MPX (Male or Female or Double Female)
- OPTA® SFT – aseptic connection (Male or Female)
- STC & STC II - CPC Steamthru™ connection (with 1½” and ¾” triclamp flanges or with ¾” + ¾” triclamp flanges)
- Aseptiquick® Genderless HT
- Plug (for TPE only)
- KPC HT – Male or Female – Kleenpak™ Sterile Connectors

(Disclaimer: Please refer to the third party user manual and validation documentation)
Line Type “High Flow Rate”

Generic Description

Functionalities
- Bag filling or bag drainage
- Transfer with a peristaltic pump or by gravity
- Generic connection with a Triclamp or a Quick Coupler

Specifications

Flow Rate
Maximum flow-rate with a peristaltic pump = 1,500 L/hr.
Flow rate varies with discharge pressure, suction and viscosity.

Tubing Diameters
ID × OD = ¾” × 1 ⅛” (19.05 mm × 28.58 mm)

Tubing Materials
- Silicone TuFlux® or Si(Pt) for 10 hr maximum operation with a peristaltic pump

Tubing Lengths
- 1,500 mm (59”)
- 3,000 mm (118”)

Distal Connectors
- TriClamp (1 ½” or ¾” flange) with or without a triclamp cap, gasket and union
- Quick Coupler with plug – MPU (Male or Female)
- Opta® SFT - Aseptic connection (Male or Female)
- Aseptiquick® Genderless HT

Accessory
- External pinch clamp
Line Type “Small Flow Rate”

Generic Description

<table>
<thead>
<tr>
<th>Functionalities</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Bag filling or bag drainage</td>
</tr>
<tr>
<td>- Transfer with a peristaltic pump or by gravity</td>
</tr>
<tr>
<td>- Tube to tube welding</td>
</tr>
<tr>
<td>- Tube sealing</td>
</tr>
<tr>
<td>- Aseptic connection</td>
</tr>
<tr>
<td>- Generic connection with a Triclamp or a Quick Coupler</td>
</tr>
</tbody>
</table>

Specifications

Flow Rate
Maximum flow-rate with a peristaltic pump = 420 L/hr.
Flow rate varies with discharge pressure, suction and viscosity.

<table>
<thead>
<tr>
<th>Type of Tubing</th>
<th>Tubing Lengths</th>
<th>Disconnection</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicone TuFlux® or Silicone (Pt)</td>
<td>300 mm (12&quot;)</td>
<td>Clipster® disconnection</td>
<td>Transfer with Peristaltic pumping</td>
</tr>
<tr>
<td>ID × OD = 3/8” × 5/8”</td>
<td>500 mm (19&quot;)</td>
<td>on Silicone TuFlux®</td>
<td>≥1,000 mm length (10hr maximum)</td>
</tr>
<tr>
<td>(9.53 mm × 15.88 mm)</td>
<td>1,000 mm (39&quot;)</td>
<td>or Silicone (Pt)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,500 mm (59&quot;)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3,000 mm (118&quot;)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Silicone TuFlux® or Silicone (Pt)</td>
<td>1,000 mm (39&quot;)</td>
<td>BioSealer® or</td>
<td>Transfer after tube-to-tube welding</td>
</tr>
<tr>
<td>with TPE tubing extension</td>
<td>+ 500 mm (19&quot;) TPE</td>
<td>Biowelder® or</td>
<td></td>
</tr>
<tr>
<td>ID × OD = 3/8” × 5/8”</td>
<td>2,500 mm (98&quot;) silicone</td>
<td>Clipster® disconnection</td>
<td></td>
</tr>
<tr>
<td>(9.53 mm × 15.88 mm)</td>
<td>+ 500 mm (19&quot;) TPE</td>
<td>on Silicone TuFlux®</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>or Silicone (Pt)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>≥1,000 mm length</td>
<td></td>
</tr>
</tbody>
</table>

Distal Connectors

- TriClamp (1½" or ¾" flange) with or without a triclamp cap, gasket and union
- Quick Coupler with plug – MPC (Male, Female or double Female)
- OPTA® SFT – aseptic connection (Male or Female)
- STC & STC II – CPC Steamthru™ connection – (with 1½” and ¾” triclamp flanges or with ¼” + ¼” triclamp flanges)
- KPC HT – Male or Female – Kleenpak™ Sterile Connectors
- Lynx® Valve ST ½” – Lynx® ST Connector
- Aseptiquick® Genderless HT
- Plug (for TPE only)

(Disclaimer: Please refer to the third party user manual and validation documentation)
Line Type “Sampling”

Generic Description

Functionalities
- Sampling from the top of the Flexel® Bag
- Luer Needleless sampling port
- Tube welding
- Sampling bags

Specifications

Flow Rate
Maximum flow-rate with a peristaltic pump = 780 L/hr.
Flow rate varies with discharge pressure, suction and viscosity and product filterability.

Tubing diameter
1D × OD = ¼” × ⅜” (6.35 mm × 11.1 mm)
Silicone tubing ¼” × ⅜” (6.35 mm × 9.53 mm)
TPE tubing

Tubing Materials
- Silicone TuFlux® or Silicone (Pt) for needleless sampling port
- TPE (thermoplastic tubing) for welding, sampling, sealing operations
- EVA section for sealing sampling bags

Tubing Lengths
- 100 mm (4”) for Si(Pt)TuFlux® or Si(Pt)
- 1,000 mm (39”) for TPE tubing
- 150mm for sampling bag volume < 1L
- 300mm for sampling bag volume = 1L

Distal Connectors
- Luer Needleless sampling port (Silicone or Silicone TuFlux®)
- Plug (TPE only)

Sampling bags
- 2 or 4 × 50 mL Flexboy®
- 2 or 4 × 150 mL Flexboy®
- 2 or 4 × 500 mL Flexboy®
- 2 or 4 × 1,000 mL Flexboy®
- 2 or 4 × 500 mL Flexel®
- 2 or 4 × 1,000 mL Flexel®
**Line Type “Transfer to Filter”**

**Generic Description**

- **Flow Rate**
  - Maximum flow-rate with a peristaltic pump = 780 L/hr.
  - Flow rate varies with discharge pressure, suction and viscosity and product filterability.

- **Tubing Diameters**
  - ID × OD = ½” × ⅜” (12.7 mm × 22.2 mm)

- **Tubing Materials**
  - Specifically formulated platinum-cured silicone tubing for peristaltic pump applications, providing up to six times the pump life of standard platinum-cured silicone tubing.

- **Functionalities**
  - Drain and transfer with a peristaltic pump to a filter (pressure rating of the line: 1.5 bar maximum)

**Specifications**

- **Flow Rate**
  - Maximum flow-rate with a peristaltic pump = 780 L/hr.
  - Flow rate varies with discharge pressure, suction and viscosity and product filterability.

- **Tubing Diameters**
  - ID × OD = ½” × ⅜” (12.7 mm × 22.2 mm)

- **Tubing Materials**
  - Specifically formulated platinum-cured silicone tubing for peristaltic pump applications, providing up to six times the pump life of standard platinum-cured silicone tubing.

**Distal Connectors**

- TriClamp (1 ½” flange) with a triclamp cap, gasket and union
- OPTA® SFT – aseptic connection (Male or Female)

**Line Type “Titration”**

**Generic Description**

- **Flow Rate**
  - To be defined depending on the pumping mode on transfer sets connected to the titration line.

- **Tubing Diameters**
  - ¼” × ⅞” (6.35 mm × 9.53 mm) TPE tubing

- **Tubing Materials and Lengths**
  - Silicone or Silicone TuFlux®: 150 mm (6”) and 300 mm (12”)
  - TPE: 1,000 mm (39”)

- **Functionalities**
  - Top acid | base addition for pH adjustment

**Specifications**

- **Flow Rate**
  - To be defined depending on the pumping mode on transfer sets connected to the titration line.

- **Tubing Diameters**
  - ¼” × ⅞” (6.35 mm × 9.53 mm) TPE tubing

- **Tubing Materials and Lengths**
  - Silicone or Silicone TuFlux®: 150 mm (6”) and 300 mm (12”)
  - TPE: 1,000 mm (39”)

- **Distal Connectors**
  - Quick Coupler with plug – MPC – Male or Female (Male, Female or double Female, in polysulfone (PSU) for high concentration of acid or base or in polycarbonate (PC))
  - OPTA® SFT – aseptic connection (Male or Female)
  - KPC HT – Male or Female – Kleenpak TM Sterile Connectors
  - Aseptiquick® Genderless HT
  - Plug
# Functionalities of the Flexel® Bag for LevMixer® | Magnetic Mixer 50 L – 1,000 L

<table>
<thead>
<tr>
<th>Function</th>
<th>Normal Flow Rate with Filter</th>
<th>Normal Flow Rate</th>
<th>High Flow Rate</th>
<th>Small Flow Rate</th>
<th>Sampling</th>
<th>Transfer to Filter</th>
<th>Titration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port</td>
<td>Sterile Fill</td>
<td>Fill Drain</td>
<td>Fill Drain</td>
<td>Fill Drain</td>
<td>Sampling</td>
<td>Drain to filter</td>
<td>Top addition</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Addition</td>
<td>Addition</td>
<td>Addition</td>
<td></td>
<td></td>
<td>(Titration)</td>
</tr>
<tr>
<td>Tube Dim.</td>
<td></td>
<td>½&quot; – ¾&quot;</td>
<td>½&quot; – ¾&quot;</td>
<td>¾&quot; – 1 ½&quot;</td>
<td>½&quot; – ¾&quot;</td>
<td></td>
<td>½&quot; – ¾&quot;</td>
</tr>
<tr>
<td>Tube Length</td>
<td></td>
<td>1,500 (59&quot;)</td>
<td>300 (12&quot;)</td>
<td>300 (12&quot;)</td>
<td>100 (4&quot;)</td>
<td>1,500 (59&quot;)</td>
<td>150 (6&quot;)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3,000 (118&quot;)</td>
<td>500 (19&quot;)</td>
<td>500 (19&quot;)</td>
<td>150 (6&quot;)</td>
<td>3,000 (118&quot;)</td>
<td>300 (12&quot;)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,000 (39&quot;)</td>
<td>1,000 (39&quot;)</td>
<td>1,000 (39&quot;)</td>
<td>1,000 (39)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,500 (59&quot;)</td>
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<td>1,500 (59)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3,000 (118&quot;)</td>
<td>3,000 (118&quot;)</td>
<td>3,000 (118&quot;)</td>
<td>3,000 (118)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Tube Length
- 1,500 (59")
- 3,000 (118")

### Tubing Materials
- Si(Pt) TuFlux®
- Si(Pt) TuFlux®
- (not for P5)
- Si(Pt) TuFlux®
- Si(Pt) TuFlux®
- Si(Pt) TuFlux®
- Si(Pt) TuFlux®
- (not for P5)
- Si(Pt) TuFlux®
- Si(Pt) TuFlux®
- Si(Pt)
- Si(Pt)

### Standard Connectors
- TC 1 ½+cap
- TC ¾+cap
- TC 1/2+cap
- TC ¾+cap
- TC 1/2+cap

### Aseptic Connectors
- Opta®
- SFT-M/F
- STC & STCII
- 1 ½, ¾
- Aseptiquick®
- Opta®
- SFT-M/F
- STC & STCII
- 1 ½, ¾
- Aseptiquick®

### Other Connectors
- KPC HT – M/F
- Lynx® ST

### Sampling Bags
- 2 or 4 x 50 mL Flexboy®
- 2 or 4 x 150 mL Flexboy®
- 2 or 4 x 500 mL Flexboy®
- 2 x 1,000 mL Flexboy®
- 2 or 4 x 150 mL Flexel®
- 2 or 4 x 500 mL Flexel®
- 2 x 1,000 mL Flexel®
**Normal Flow Rate with Filter**

<table>
<thead>
<tr>
<th>Filters</th>
<th>MidiCaps® sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sartopore® 2 0.2 µm</td>
<td>7, 8, 9, 0</td>
</tr>
<tr>
<td>MaxiCaps® T-Style sizes 1, 2</td>
<td></td>
</tr>
<tr>
<td>Sartopore® Platinum 0.2 µm</td>
<td>7, 8, 9, 0</td>
</tr>
<tr>
<td>MaxiCaps® T-Style sizes 1, 2</td>
<td></td>
</tr>
<tr>
<td>Sartopore® 2 XLG 0.8</td>
<td>0.2 µm</td>
</tr>
<tr>
<td>MaxiCaps® T-Style sizes 1, 2</td>
<td></td>
</tr>
<tr>
<td>Sartopore® 2 XLM 0.2</td>
<td>0.1µm</td>
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<tr>
<td>MaxiCaps® T-Style sizes 1, 2</td>
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<tr>
<td>Sartoguard® NF</td>
<td>8, 9, 0</td>
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<tr>
<td>MaxiCaps® T-Style sizes 1, 2</td>
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</tbody>
</table>

Flush bag 5L, 10L et 20L