Devices and Tubings

- ReadyLyzer
- Xpress Dialyzer
- Xpress Equilibrium Dialyzer
- MEMBRA-CEL® Dialysis Membranes
- SERVAPOR® Dialysis Membranes
- Spectra/Por® Dialysis Membranes
Dialysis

Dialysis is a simple, fast and efficient method for purification of proteins, peptides, DNA, RNA and oligonucleotides. It is a process where substances in solution are separated by their differences in molecular weight.

Applications in Dialysis
- Buffer exchange, re-buffering
- pH and buffer adjustment of sample solution, protein extract or cell extract
- Removal of salts, surfactants, solvents and detergents
- Sample concentration
- Sample preparation for mass spectrometry and other downstream applications
- Separation of high molecular weight macromolecules from low molecular weight substances

Special Applications in Equilibrium Dialysis
- Protein-drug binding assays
- Receptor binding assays
- Protein-protein and protein-DNA interaction
- Serum-protein binding
Dialysis membranes are semipermeable, made of regenerated cellulose or cellulose ester having a gel-like structure. The driving force is the concentration difference between two solutions on opposite sides of the membrane. Since the porous membrane selectively allows smaller solutes to pass while retaining larger species, dialysis can effectively be used as a separation process based on size rejection.

Since the dialysis membrane consists of a spongy matrix of crosslinked polymers, the pore rating referred to as Molecular Weight Cut Off (MWCO), is an indirect measure of the retention performance. The membrane MWCO is determined as the solute size that is retained by at least 90%. However, since a solute’s permeability is also dependent upon molecular shape, degree of hydration, ionic charge and polarity, it is recommended to select a MWCO that is half the size of the MW of the species to be retained and/or twice the size of the MW of the species intended to pass through.

For dialysis of large volumes and general applications sturdy and economical dialysis tubings are still a good choice. Ready-to-use dialysis devices are easy-to-handle, allow fast and efficient dialysis of small volumes and high-throughput experiments.
Ready-to-Use Dialysis Devices

Dialysis is the easiest and gentlest method for purification of nucleic acids and proteins. There is no need for additional chemicals or expensive lab equipment. However, due to laborious handling of dialysis tubings, unsuitability for small volumes or high-throughput and long dialysis time many users avoid the method.

Ready-to-use dialysis devices overcome these hurdles: easy handling and fast dialysis with high recovery rates of small sample volumes make them ideal for high-throughput.

A. ReadyLyzer

**ReadyLyzers** allow not only fast and efficient dialysis of small volumes, but as well of large volumes up to 20 ml. Tubes are simply opened and closed with a screw cap enabling easy sample withdrawal during dialysis.

- High Recovery > 97 %, minimal sample dilution
- Ultra-pure, low-binding regenerated cellulose
- No struggling with closures, no leaking knots, no risk of puncturing the membrane
- Delivered with a flotation ring for improved buoyancy and vertical orientation

### ReadyLyzer Dialysis Devices

<table>
<thead>
<tr>
<th>Type</th>
<th>MWCO (kDa)</th>
<th>Volume</th>
<th>Size</th>
<th>Cat. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ReadyLyzer 0.25</td>
<td>6 - 8</td>
<td>10 – 250 µl</td>
<td>10 pieces</td>
<td>44620.01</td>
</tr>
<tr>
<td></td>
<td>12 – 14</td>
<td>10 – 250 µl</td>
<td>10 pieces</td>
<td>44621.01</td>
</tr>
<tr>
<td>ReadyLyzer 0.8</td>
<td>1</td>
<td>50 – 800 µl</td>
<td>5 pieces</td>
<td>44622.01</td>
</tr>
<tr>
<td></td>
<td>3.5</td>
<td>50 – 800 µl</td>
<td>10 pieces</td>
<td>44623.01</td>
</tr>
<tr>
<td></td>
<td>6 - 8</td>
<td>50 – 800 µl</td>
<td>10 pieces</td>
<td>44624.01</td>
</tr>
<tr>
<td>ReadyLyzer 3</td>
<td>3.5</td>
<td>0.1 – 3 ml</td>
<td>5 pieces</td>
<td>44625.01</td>
</tr>
<tr>
<td></td>
<td>6 - 8</td>
<td>0.1 – 3 ml</td>
<td>5 pieces</td>
<td>44626.01</td>
</tr>
<tr>
<td></td>
<td>12 - 14</td>
<td>0.1 – 3 ml</td>
<td>5 pieces</td>
<td>44627.01</td>
</tr>
<tr>
<td>ReadyLyzer 10</td>
<td>1</td>
<td>10 ml</td>
<td>5 pieces</td>
<td>44628.01</td>
</tr>
<tr>
<td></td>
<td>3.5</td>
<td>10 ml</td>
<td>10 pieces</td>
<td>44630.01</td>
</tr>
<tr>
<td></td>
<td>6 - 8</td>
<td>10 ml</td>
<td>10 pieces</td>
<td>44632.01</td>
</tr>
<tr>
<td></td>
<td>12 - 14</td>
<td>10 ml</td>
<td>10 pieces</td>
<td>44634.01</td>
</tr>
<tr>
<td>ReadyLyzer 20</td>
<td>1</td>
<td>20 ml</td>
<td>5 pieces</td>
<td>44629.01</td>
</tr>
<tr>
<td></td>
<td>3.5</td>
<td>20 ml</td>
<td>10 pieces</td>
<td>44631.01</td>
</tr>
<tr>
<td></td>
<td>6 - 8</td>
<td>20 ml</td>
<td>10 pieces</td>
<td>44633.01</td>
</tr>
<tr>
<td></td>
<td>12 - 14</td>
<td>20 ml</td>
<td>10 pieces</td>
<td>44635.01</td>
</tr>
</tbody>
</table>
B. Xpress Micro and Mini Dialyzer

The Xpress Micro and Mini Dialyzer are highly innovative ready-to-use dialysis devices for small sample volumes. The unique geometry allows extremely fast dialysis with very small volume change of protein, RNA and DNA samples. Due to low-binding plastic and small membrane surface area, the devices show excellent sample recovery compared to ultrafiltration and resin systems.

- High-quality, low binding regenerated cellulose membranes or Bio-Xell® biocellulose for high MWCO of 140 kDa
- Sample volumes of 10 µl – 100 µl (MD100), 50 µl – 300 µl (MD300) or 150 µl – 1 ml (MD1000)
- Fastest dialysis system on the market – desalting in 30 min
- High yield – up to 98% sample recovery, minimal sample dilution
- Easy handling – sample loading and retrieval with standard micropipettes
- Flexible – scalable from 1 to 96 samples (Micro Dialyzer) or 1 to 48 samples (Mini Dialyzer)
- Automation compatible – conforms to SBS Microplate Standard

Xpress Micro Dialyzer MD100, sample volume 10 µl – 100 µl

<table>
<thead>
<tr>
<th>MWCO (kDa)</th>
<th>Content</th>
<th>Size</th>
<th>Cat. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>8-micro dialyzer strip, detachable</td>
<td>8 pieces</td>
<td>46088.01</td>
</tr>
<tr>
<td></td>
<td>12x 8-micro dialyzer strips, 96 deep well plate</td>
<td>1 kit</td>
<td>46089.01</td>
</tr>
<tr>
<td>20</td>
<td>8-micro dialyzer strip, detachable</td>
<td>8 pieces</td>
<td>46090.01</td>
</tr>
<tr>
<td></td>
<td>12x 8-micro dialyzer strips, 96 deep well plate</td>
<td>1 kit</td>
<td>46091.01</td>
</tr>
<tr>
<td>140</td>
<td>8-micro dialyzer strip, detachable</td>
<td>8 pieces</td>
<td>46092.01</td>
</tr>
<tr>
<td></td>
<td>12x 8-micro dialyzer strips, 96 deep well plate</td>
<td>1 kit</td>
<td>46093.01</td>
</tr>
<tr>
<td>3,5</td>
<td>single dialyzer in micro tube</td>
<td>12 pieces</td>
<td>46100.01</td>
</tr>
<tr>
<td></td>
<td>single dialyzer in micro tube, universal rack</td>
<td>56 pieces</td>
<td>46101.01</td>
</tr>
<tr>
<td></td>
<td>single dialyzer in micro tube, universal rack</td>
<td>280 pieces</td>
<td>46102.01</td>
</tr>
<tr>
<td></td>
<td>8-micro dialyzer strip, detachable</td>
<td>8 pieces</td>
<td>46103.01</td>
</tr>
<tr>
<td></td>
<td>12x 8-micro dialyzer strips, 96 deep well plate</td>
<td>1 kit</td>
<td>46104.01</td>
</tr>
<tr>
<td></td>
<td>6x 8-micro dialyzer strips, 48 deep well plate, incl. grid</td>
<td>1 kit</td>
<td>46105.01</td>
</tr>
<tr>
<td>6 – 8</td>
<td>single dialyzer in micro tube</td>
<td>12 pieces</td>
<td>46106.01</td>
</tr>
<tr>
<td></td>
<td>single dialyzer in micro tube, universal rack</td>
<td>56 pieces</td>
<td>46107.01</td>
</tr>
<tr>
<td></td>
<td>single dialyzer in micro tube, universal rack</td>
<td>280 pieces</td>
<td>46108.01</td>
</tr>
<tr>
<td></td>
<td>8-micro dialyzer strip, detachable</td>
<td>8 pieces</td>
<td>46109.01</td>
</tr>
<tr>
<td></td>
<td>12x 8-micro dialyzer strips, 96 deep well plate</td>
<td>1 kit</td>
<td>46110.01</td>
</tr>
<tr>
<td></td>
<td>6x 8-micro dialyzer strips, 48 deep well plate, incl. grid</td>
<td>1 kit</td>
<td>46111.01</td>
</tr>
<tr>
<td>12 – 14</td>
<td>single dialyzer in micro tube</td>
<td>12 pieces</td>
<td>46112.01</td>
</tr>
<tr>
<td></td>
<td>single dialyzer in micro tube, universal rack</td>
<td>56 pieces</td>
<td>46113.01</td>
</tr>
<tr>
<td></td>
<td>single dialyzer in micro tube, universal rack</td>
<td>280 pieces</td>
<td>46114.01</td>
</tr>
<tr>
<td></td>
<td>8-micro dialyzer strip, detachable</td>
<td>8 pieces</td>
<td>46115.01</td>
</tr>
<tr>
<td></td>
<td>12x 8-micro dialyzer strips, 96 deep well plate</td>
<td>1 kit</td>
<td>46116.01</td>
</tr>
<tr>
<td></td>
<td>6x 8-micro dialyzer strips, 48 deep well plate, incl. grid</td>
<td>1 kit</td>
<td>46117.01</td>
</tr>
</tbody>
</table>
### Xpress Micro Dialyzer MD300, sample volume 50 µl – 300 µl

<table>
<thead>
<tr>
<th>MWCO (kDa)</th>
<th>Content</th>
<th>Size</th>
<th>Cat. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>8-micro dialyzer strip, detachable</td>
<td>8 pieces</td>
<td>46094.01</td>
</tr>
<tr>
<td></td>
<td>12x 8-micro dialyzer strips, 96 deep well plate</td>
<td>1 kit</td>
<td>46095.01</td>
</tr>
<tr>
<td>20</td>
<td>8-micro dialyzer strip, detachable</td>
<td>8 pieces</td>
<td>46096.01</td>
</tr>
<tr>
<td></td>
<td>12x 8-micro dialyzer strips, 96 deep well plate</td>
<td>1 kit</td>
<td>46097.01</td>
</tr>
<tr>
<td>140</td>
<td>8-micro dialyzer strip, detachable</td>
<td>8 pieces</td>
<td>46098.01</td>
</tr>
<tr>
<td></td>
<td>12x 8-micro dialyzer strips, 96 deep well plate</td>
<td>1 kit</td>
<td>46099.01</td>
</tr>
<tr>
<td>3.5</td>
<td>single dialyzer in micro tube</td>
<td>12 pieces</td>
<td>46118.01</td>
</tr>
<tr>
<td>6 – 8</td>
<td>8-micro dialyzer strip, detachable</td>
<td>8 pieces</td>
<td>46119.01</td>
</tr>
<tr>
<td>12 – 14</td>
<td>8-micro dialyzer strip, detachable</td>
<td>8 pieces</td>
<td>46120.01</td>
</tr>
<tr>
<td></td>
<td>12x 8-micro dialyzer strips, 96 deep well plate</td>
<td>1 kit</td>
<td>46121.01</td>
</tr>
<tr>
<td></td>
<td>6x 8-micro dialyzer strips, 48 deep well plate, incl. grid</td>
<td>1 kit</td>
<td>46122.01</td>
</tr>
</tbody>
</table>

### Xpress Mini Dialyzer MD1000, sample volumes of 150 µl – 1 ml

<table>
<thead>
<tr>
<th>MWCO (kDa)</th>
<th>Content</th>
<th>Size</th>
<th>Cat. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.5</td>
<td>single dialyzer in 25 ml tubes</td>
<td>6 pieces</td>
<td>46130.01</td>
</tr>
<tr>
<td></td>
<td>single dialyzer in 25 ml tubes plus 6 tubes</td>
<td>6 pieces</td>
<td>46131.01</td>
</tr>
<tr>
<td></td>
<td>48 single dialyzer in 48 deep well plate</td>
<td>1 kit</td>
<td>46132.01</td>
</tr>
<tr>
<td>6 – 8</td>
<td>single dialyzer in 25 ml tubes</td>
<td>6 pieces</td>
<td>46133.01</td>
</tr>
<tr>
<td></td>
<td>single dialyzer in 25 ml tubes plus 6 tubes</td>
<td>6 pieces</td>
<td>46134.01</td>
</tr>
<tr>
<td></td>
<td>48 single dialyzer in 48 deep well plate</td>
<td>1 kit</td>
<td>46135.01</td>
</tr>
<tr>
<td>12 – 14</td>
<td>single dialyzer in 25 ml tubes</td>
<td>6 pieces</td>
<td>46136.01</td>
</tr>
<tr>
<td></td>
<td>single dialyzer in 25 ml tubes plus 6 tubes</td>
<td>6 pieces</td>
<td>46137.01</td>
</tr>
<tr>
<td></td>
<td>48 single dialyzer in 48 deep well plate</td>
<td>1 kit</td>
<td>46138.01</td>
</tr>
<tr>
<td>2</td>
<td>single dialyzer in 25 ml tubes</td>
<td>6 pieces</td>
<td>46144.01</td>
</tr>
<tr>
<td></td>
<td>48 single dialyzer in 48 deep well plate</td>
<td>1 kit</td>
<td>46145.01</td>
</tr>
<tr>
<td>20</td>
<td>single dialyzer in 25 ml tubes</td>
<td>6 pieces</td>
<td>46146.01</td>
</tr>
<tr>
<td></td>
<td>48 single dialyzer in 48 deep well plate</td>
<td>1 kit</td>
<td>46147.01</td>
</tr>
<tr>
<td>140</td>
<td>single dialyzer in 25 ml tubes</td>
<td>6 pieces</td>
<td>46148.01</td>
</tr>
<tr>
<td></td>
<td>48 single dialyzer in 48 deep well plate</td>
<td>1 kit</td>
<td>46149.01</td>
</tr>
</tbody>
</table>
C. Xpress Equilibrium Dialyzer

**Equilibrium dialysis** is a special dialysis method ideal for studying the binding of small molecules and ions by macromolecules. It is a simple method without the need to use fluorescent or radiolabeled tags. Simply place a receptor and a ligand on opposite sides of a semipermeable membrane. Only the ligand can pass through the membrane and redistributes between the two compartments until its concentration across the membrane is at equilibrium. If the receptor binds the ligand, an excess of ligand will accumulate in the receptor compartment. The total ligand concentration on both sides of the membrane is measured after equilibration and the excess ligand concentration in the receptor compartment correlates with its binding to the receptor. Equilibrium dialysis provides therefore quite simply information about the stoichiometry of the ligand-macromolecule complex formed and the binding affinities of the interacting components.

The design of the ED300 Xpress Equilibrium Dialyzer is optimized for fast and easy equilibrium dialysis.

- High yield - up to 98% sample recovery
- Easy handling - sample loading and retrieval with standard micropipettes
- Flexible – scalable from 1 to 96 samples
- Ideally suited for dialysis in liquid handling systems

Xpress Equilibrium Dialyzer ED300, sample volume 50 µl – 300 µl

<table>
<thead>
<tr>
<th>MWCO (kDa)</th>
<th>Content</th>
<th>Size</th>
<th>Cat. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>12x 8-equilibrium dialyzer strips, 96 deep well plate</td>
<td>1 kit</td>
<td>46163.01</td>
</tr>
<tr>
<td>3.5</td>
<td>8-equilibrium dialyzer strip, detachable</td>
<td>8 pieces</td>
<td>46164.01</td>
</tr>
<tr>
<td></td>
<td>12x 8-equilibrium dialyzer strips, 96 deep well plate</td>
<td>1 kit</td>
<td>46165.01</td>
</tr>
<tr>
<td>6 – 8</td>
<td>8-equilibrium dialyzer strip, detachable</td>
<td>8 pieces</td>
<td>46166.01</td>
</tr>
<tr>
<td></td>
<td>12x 8-equilibrium dialyzer strips, 96 deep well plate</td>
<td>1 kit</td>
<td>46167.01</td>
</tr>
<tr>
<td>12 – 14</td>
<td>8-equilibrium dialyzer strip, detachable</td>
<td>8 pieces</td>
<td>46168.01</td>
</tr>
<tr>
<td></td>
<td>12x 8-equilibrium dialyzer strips, 96 deep well plate</td>
<td>1 kit</td>
<td>46169.01</td>
</tr>
<tr>
<td>20</td>
<td>12x 8-equilibrium dialyzer strips, 96 deep well plate</td>
<td>1 kit</td>
<td>46171.01</td>
</tr>
<tr>
<td>140</td>
<td>12x 8-equilibrium dialyzer strips, 96 deep well plate</td>
<td>1 kit</td>
<td>46173.01</td>
</tr>
</tbody>
</table>
D. Xpress Dialysis Magnetic Mixing Box

All-in-one kit for accelerated dialysis. The especially designed dialysis box allows a greater buffer volume and better mixing through a magnetic stirrer bar compared to dialysis in a microtiter plate. This enables high-throughput dialysis of small sample volumes with reduced handling and accelerated dialysis time. Because the samples are in connection via the dialysis buffer the dialysis device is especially suitable for samples with the same or similar salt content or buffer.

- Reduced handling time and accelerated dialysis speed
- Each kit contains:
  - 12 cartridges (detachable 8-micro dialyzer strip)
  - dialysis box, handling box
  - magnetic stirring bar
  - sealing film, self adhesive positioning bumpons
- 12 cartridges in handling box as refill available

---

### Xpress Dialysis Magnetic Mixing Box MD100

<table>
<thead>
<tr>
<th>MWC0 (kDa)</th>
<th>Type</th>
<th>Size</th>
<th>Cat. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Magnetic Mixing Box</td>
<td>1 kit</td>
<td>46150.01</td>
</tr>
<tr>
<td></td>
<td>Refill</td>
<td>1 kit</td>
<td>46151.01</td>
</tr>
<tr>
<td>3.5</td>
<td>Magnetic Mixing Box</td>
<td>1 kit</td>
<td>46152.01</td>
</tr>
<tr>
<td></td>
<td>Refill</td>
<td>1 kit</td>
<td>46153.01</td>
</tr>
<tr>
<td>6-8</td>
<td>Magnetic Mixing Box</td>
<td>1 kit</td>
<td>46154.01</td>
</tr>
<tr>
<td></td>
<td>Refill</td>
<td>1 kit</td>
<td>46155.01</td>
</tr>
<tr>
<td>12 - 14</td>
<td>Magnetic Mixing Box</td>
<td>1 kit</td>
<td>46156.01</td>
</tr>
<tr>
<td></td>
<td>Refill</td>
<td>1 kit</td>
<td>46157.01</td>
</tr>
<tr>
<td>20</td>
<td>Magnetic Mixing Box</td>
<td>1 kit</td>
<td>46158.01</td>
</tr>
<tr>
<td></td>
<td>Refill</td>
<td>1 kit</td>
<td>46159.01</td>
</tr>
<tr>
<td>140</td>
<td>Magnetic Mixing Box</td>
<td>1 kit</td>
<td>46160.01</td>
</tr>
<tr>
<td></td>
<td>Refill</td>
<td>1 kit</td>
<td>46161.01</td>
</tr>
</tbody>
</table>
Dialysis Tubings

For dialysis of large volumes or if cost-effectiveness plays a role, dialysis tubings are still a good choice. They are made of regenerated cellulose, which is a clear, flexible and resilient dialysis membrane. Offering a good chemical compatibility, dialysis tubings made of regenerated cellulose can be used with dilute strong acids and bases, concentrated weak acids and bases, most alcohols and some mild or dilute organics, including DMSO. They resist temperatures up to 121°C and are autoclavable. SERVA offers a broad selection of molecular weight cut-offs for a wide range of applications.

A. MEMBRA-CEL® Dialysis Membranes

- Packed dry, with glycerol as protection for embrittlement
- Contain low level of heavy metal and sulfide impurities
- Highly resistant against chemicals
- Suitable for pH range 2 – 12 and temperatures 4 – 60 °C

MEMBRA-Cel® Dialysis Tubing, MWCO 3500

<table>
<thead>
<tr>
<th>Nominal Dry Flat Width (mm)</th>
<th>Nominal Dry Diameter (mm)</th>
<th>Approx. Filling Volume (ml/cm)</th>
<th>Nominal Dry Wall Thickness (µm)</th>
<th>Size</th>
<th>Cat. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>16</td>
<td>2.0</td>
<td>25</td>
<td>5 m</td>
<td>44310.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>30 m</td>
<td>44310.02</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>152 m</td>
<td>44310.03</td>
</tr>
<tr>
<td>34</td>
<td>22</td>
<td>3.4</td>
<td>25</td>
<td>5 m</td>
<td>44311.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>30 m</td>
<td>44311.02</td>
</tr>
</tbody>
</table>

MEMBRA-Cel® Dialysis Tubing, MWCO 7000

<table>
<thead>
<tr>
<th>Nominal Dry Flat Width (mm)</th>
<th>Nominal Dry Diameter (mm)</th>
<th>Approx. Filling Volume (ml/cm)</th>
<th>Nominal Dry Wall Thickness (µm)</th>
<th>Size</th>
<th>Cat. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>16</td>
<td>2.0</td>
<td>28</td>
<td>5 m</td>
<td>44313.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>30 m</td>
<td>44313.02</td>
</tr>
<tr>
<td>34</td>
<td>22</td>
<td>3.4</td>
<td>30</td>
<td>5 m</td>
<td>44314.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>30 m</td>
<td>44314.02</td>
</tr>
</tbody>
</table>
B. SERVAPOR® Dialysis Membranes

- Packed dry, with glycerol as protection for embrittlement
- Contain low level of heavy metal and sulfide impurities
- Highly resistant against chemicals
- Suitable for pH range 2 – 12 and temperatures 4 – 121°C

SERVAPOR® 3 Dialysis Tubing*, MWCO 3500

<table>
<thead>
<tr>
<th>Nominal Dry Flat Width (mm)</th>
<th>Nominal Dry Diameter (mm)</th>
<th>Approx. Filling Volume (ml/cm)</th>
<th>Nominal Dry Wall Thickness (µm)</th>
<th>Size</th>
<th>Cat. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>16</td>
<td>2.0</td>
<td>20</td>
<td>15 m</td>
<td>44558.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>30 m</td>
<td>44558.02</td>
</tr>
<tr>
<td>44</td>
<td>28</td>
<td>6.2</td>
<td>20</td>
<td>15 m</td>
<td>44559.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>30 m</td>
<td>44559.02</td>
</tr>
<tr>
<td>55</td>
<td>35</td>
<td>9.6</td>
<td>25</td>
<td>15 m</td>
<td>44560.01</td>
</tr>
</tbody>
</table>

SERVAPOR® 6 Dialysis Tubing*, MWCO 6000 – 8000

<table>
<thead>
<tr>
<th>Nominal Dry Flat Width (mm)</th>
<th>Nominal Dry Diameter (mm)</th>
<th>Approx. Filling Volume (ml/cm)</th>
<th>Nominal Dry Wall Thickness (µm)</th>
<th>Size</th>
<th>Cat. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>16</td>
<td>2.0</td>
<td>20</td>
<td>15 m</td>
<td>44561.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>30 m</td>
<td>44561.02</td>
</tr>
<tr>
<td>34</td>
<td>22</td>
<td>3.8</td>
<td>23</td>
<td>15 m</td>
<td>44562.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>30 m</td>
<td>44562.02</td>
</tr>
<tr>
<td>44</td>
<td>28</td>
<td>6.2</td>
<td>20</td>
<td>15 m</td>
<td>44563.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>30 m</td>
<td>44563.02</td>
</tr>
<tr>
<td>55</td>
<td>35</td>
<td>9.6</td>
<td>25</td>
<td>15 m</td>
<td>44564.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>30 m</td>
<td>44564.02</td>
</tr>
</tbody>
</table>

SERVAPOR® Dialysis Tubing, MWCO 12.000 – 14.000

<table>
<thead>
<tr>
<th>Nominal Dry Flat Width (mm)</th>
<th>Nominal Dry Diameter (mm)</th>
<th>Approx. Filling Volume (ml/cm)</th>
<th>Nominal Dry Wall Thickness (µm)</th>
<th>Size</th>
<th>Cat. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>6</td>
<td>0.3</td>
<td>50</td>
<td>5 m</td>
<td>44139.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>25 m</td>
<td>44139.02</td>
</tr>
<tr>
<td>34</td>
<td>21</td>
<td>3.4</td>
<td>25</td>
<td>5 m</td>
<td>44144.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>25 m</td>
<td>44144.02</td>
</tr>
<tr>
<td>25</td>
<td>16</td>
<td>2.0</td>
<td>20</td>
<td>5 m</td>
<td>44145.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>25 m</td>
<td>44145.04</td>
</tr>
<tr>
<td>45</td>
<td>29</td>
<td>6.5</td>
<td>20</td>
<td>5 m</td>
<td>44146.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>25 m</td>
<td>44146.04</td>
</tr>
<tr>
<td>80</td>
<td>50</td>
<td>18.5</td>
<td>40</td>
<td>5 m</td>
<td>44148.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>25 m</td>
<td>44148.02</td>
</tr>
</tbody>
</table>

*For protection packed in a carton with the membrane attached to the side. Delivered with a pair free of charge dialysis membrane closures and manual.
C. SERVAPOR® HMF Dialysis Membranes

- Highly pure membranes without any trace metals like heavy metals, sulfides
- Pre-wetted
- Ready-to-use, no soaking for removal of glycerol necessary
- Highly resistant against chemicals
- Suitable for pH range 2 – 12 and temperatures 4 – 121 °C
- Supplied either as pieces of 50 cm length packed in individual vials or 5 m rolls

SERVAPOR® HMF Dialysis Tubing, MWCO 1000

<table>
<thead>
<tr>
<th>Nominal Dry Flat Width (mm)</th>
<th>Nominal Dry Diameter (mm)</th>
<th>Approx. Filling Volume (ml/cm)</th>
<th>Nominal Dry Wall Thickness (µm)</th>
<th>Size</th>
<th>Cat. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>16</td>
<td>2.0</td>
<td>20</td>
<td>5 vials</td>
<td>44576.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10 vials</td>
<td>44576.02</td>
</tr>
<tr>
<td>44</td>
<td>28</td>
<td>6.2</td>
<td>20</td>
<td>5 vials</td>
<td>44577.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10 vials</td>
<td>44577.02</td>
</tr>
</tbody>
</table>

SERVAPOR® HMF Dialysis Tubing, MWCO 2000

<table>
<thead>
<tr>
<th>Nominal Dry Flat Width (mm)</th>
<th>Nominal Dry Diameter (mm)</th>
<th>Approx. Filling Volume (ml/cm)</th>
<th>Nominal Dry Wall Thickness (µm)</th>
<th>Size</th>
<th>Cat. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>16</td>
<td>2.0</td>
<td>20</td>
<td>5 vials</td>
<td>44578.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10 vials</td>
<td>44578.02</td>
</tr>
<tr>
<td>44</td>
<td>28</td>
<td>6.2</td>
<td>20</td>
<td>5 vials</td>
<td>44579.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10 vials</td>
<td>44579.02</td>
</tr>
</tbody>
</table>

SERVAPOR® HMF Dialysis Tubing, MWCO 3500

<table>
<thead>
<tr>
<th>Nominal Dry Flat Width (mm)</th>
<th>Nominal Dry Diameter (mm)</th>
<th>Approx. Filling Volume (ml/cm)</th>
<th>Nominal Dry Wall Thickness (µm)</th>
<th>Size</th>
<th>Cat. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>16</td>
<td>2.0</td>
<td>20</td>
<td>5 m</td>
<td>44601.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5 m</td>
<td>44602.01</td>
</tr>
<tr>
<td>44</td>
<td>28</td>
<td>6.2</td>
<td>20</td>
<td>5 m</td>
<td>44602.01</td>
</tr>
</tbody>
</table>

SERVAPOR® HMF Dialysis Tubing, MWCO 5000

<table>
<thead>
<tr>
<th>Nominal Dry Flat Width (mm)</th>
<th>Nominal Dry Diameter (mm)</th>
<th>Approx. Filling Volume (ml/cm)</th>
<th>Nominal Dry Wall Thickness (µm)</th>
<th>Size</th>
<th>Cat. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>16</td>
<td>2.0</td>
<td>20</td>
<td>5 vials</td>
<td>44580.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10 vials</td>
<td>44580.02</td>
</tr>
<tr>
<td>34</td>
<td>22</td>
<td>3.8</td>
<td>23</td>
<td>5 vials</td>
<td>44581.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10 vials</td>
<td>44581.02</td>
</tr>
<tr>
<td>44</td>
<td>28</td>
<td>6.2</td>
<td>20</td>
<td>5 vials</td>
<td>44582.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10 vials</td>
<td>44582.02</td>
</tr>
</tbody>
</table>

SERVAPOR® HMF Dialysis Tubing, MWCO 8000

<table>
<thead>
<tr>
<th>Nominal Dry Flat Width (mm)</th>
<th>Nominal Dry Diameter (mm)</th>
<th>Approx. Filling Volume (ml/cm)</th>
<th>Nominal Dry Wall Thickness (µm)</th>
<th>Size</th>
<th>Cat. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>16</td>
<td>2.0</td>
<td>20</td>
<td>5 m</td>
<td>44603.01</td>
</tr>
<tr>
<td>34</td>
<td>22</td>
<td>3.8</td>
<td>23</td>
<td>5 m</td>
<td>44604.01</td>
</tr>
<tr>
<td>44</td>
<td>28</td>
<td>6.2</td>
<td>20</td>
<td>5 m</td>
<td>44605.01</td>
</tr>
<tr>
<td>55</td>
<td>35</td>
<td>9.6</td>
<td>25</td>
<td>5 m</td>
<td>44606.01</td>
</tr>
</tbody>
</table>
### SERVAPOR® HMF Dialysis Tubing, MWCO 10,000

<table>
<thead>
<tr>
<th>Nominal Dry Flat Width (mm)</th>
<th>Nominal Dry Diameter (mm)</th>
<th>Approx. Filling Volume (ml/cm)</th>
<th>Nominal Dry Wall Thickness (µm)</th>
<th>Size</th>
<th>Cat. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>6</td>
<td>0.3</td>
<td>51</td>
<td>5 vials</td>
<td>44607.01</td>
</tr>
<tr>
<td>25</td>
<td>16</td>
<td>2.0</td>
<td>20</td>
<td>5 m</td>
<td>44583.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10 vials</td>
<td>44583.02</td>
</tr>
<tr>
<td>34</td>
<td>22</td>
<td>3.8</td>
<td>23</td>
<td>5 vials</td>
<td>44585.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10 vials</td>
<td>44585.02</td>
</tr>
<tr>
<td>44</td>
<td>28</td>
<td>6.2</td>
<td>20</td>
<td>5 vials</td>
<td>44587.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10 vials</td>
<td>44587.02</td>
</tr>
</tbody>
</table>

### SERVAPOR® HMF Dialysis Tubing, MWCO 15,000

<table>
<thead>
<tr>
<th>Nominal Dry Flat Width (mm)</th>
<th>Nominal Dry Diameter (mm)</th>
<th>Approx. Filling Volume (ml/cm)</th>
<th>Nominal Dry Wall Thickness (µm)</th>
<th>Size</th>
<th>Cat. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>6</td>
<td>0.3</td>
<td>51</td>
<td>5 vials</td>
<td>44597.01</td>
</tr>
<tr>
<td>25</td>
<td>16</td>
<td>2.0</td>
<td>20</td>
<td>5 m</td>
<td>44590.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10 vials</td>
<td>44590.02</td>
</tr>
<tr>
<td>34</td>
<td>22</td>
<td>3.8</td>
<td>23</td>
<td>5 vials</td>
<td>44593.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10 vials</td>
<td>44593.02</td>
</tr>
<tr>
<td>44</td>
<td>28</td>
<td>6.2</td>
<td>20</td>
<td>5 vials</td>
<td>44595.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10 vials</td>
<td>44595.02</td>
</tr>
</tbody>
</table>

### SERVAPOR® HMF Dialysis Tubing, MWCO 25,000

<table>
<thead>
<tr>
<th>Nominal Dry Flat Width (mm)</th>
<th>Nominal Dry Diameter (mm)</th>
<th>Approx. Filling Volume (ml/cm)</th>
<th>Nominal Dry Wall Thickness (µm)</th>
<th>Size</th>
<th>Cat. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>6</td>
<td>0.3</td>
<td>51</td>
<td>5 vials</td>
<td>44597.01</td>
</tr>
<tr>
<td>25</td>
<td>16</td>
<td>2.0</td>
<td>20</td>
<td>5 m</td>
<td>44590.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10 vials</td>
<td>44590.02</td>
</tr>
<tr>
<td>34</td>
<td>22</td>
<td>3.8</td>
<td>23</td>
<td>5 vials</td>
<td>44593.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10 vials</td>
<td>44593.02</td>
</tr>
<tr>
<td>44</td>
<td>28</td>
<td>6.2</td>
<td>20</td>
<td>5 vials</td>
<td>44600.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10 vials</td>
<td>44600.02</td>
</tr>
</tbody>
</table>
D. Spectra/Por® Dialysis Membranes

- Contain low level of heavy metal and sulfide impurities
- Highly resistant against chemicals
- Suitable for pH range 2 – 12 and temperatures 4 – 121 °C

Spectra/Por® 1, 3 Dialysis Tubing:
- Packed dry, with glycerol as protection for embrittlement

Spectra/Por® 6 Dialysis Tubing:
- Pre-wetted (containing 0.1 % sodium azide)
- Ready-to-use, no soaking for removal of glycerol necessary

---

<table>
<thead>
<tr>
<th>Size</th>
<th>Cat. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 m</td>
<td>44170.01</td>
</tr>
<tr>
<td>5 m</td>
<td>44171.01</td>
</tr>
<tr>
<td>30 m</td>
<td>44172.01</td>
</tr>
<tr>
<td>5 m</td>
<td>44173.01</td>
</tr>
<tr>
<td>30 m</td>
<td>44174.01</td>
</tr>
<tr>
<td>5 m</td>
<td>44175.01</td>
</tr>
<tr>
<td>15 m</td>
<td>44176.01</td>
</tr>
</tbody>
</table>

---

<table>
<thead>
<tr>
<th>Size</th>
<th>Cat. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 m</td>
<td>44183.01</td>
</tr>
<tr>
<td>5 m</td>
<td>44184.01</td>
</tr>
<tr>
<td>15 m</td>
<td>44185.01</td>
</tr>
<tr>
<td>5 m</td>
<td>44186.01</td>
</tr>
</tbody>
</table>

---

<table>
<thead>
<tr>
<th>Size</th>
<th>Cat. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 m</td>
<td>44192.01</td>
</tr>
<tr>
<td>5 m</td>
<td>44193.01</td>
</tr>
<tr>
<td>15 m</td>
<td>44194.01</td>
</tr>
<tr>
<td>5 m</td>
<td>44195.01</td>
</tr>
<tr>
<td>10 m</td>
<td>44196.01</td>
</tr>
</tbody>
</table>

---

<table>
<thead>
<tr>
<th>Size</th>
<th>Cat. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 m</td>
<td>44199.01</td>
</tr>
<tr>
<td>5 m</td>
<td>44200.01</td>
</tr>
<tr>
<td>10 m</td>
<td>44201.01</td>
</tr>
</tbody>
</table>
### Spectra/Por® 6 Dialysis Tubing, MWCO 8000

<table>
<thead>
<tr>
<th>Size</th>
<th>Nominal Dry Flat Width (mm)</th>
<th>Nominal Dry Diameter (mm)</th>
<th>Approx. Filling Volume (ml/cm)</th>
<th>Nominal Dry Wall Thickness (µm)</th>
<th>Cat. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 m</td>
<td>8</td>
<td>5.1</td>
<td>0.20</td>
<td>60 - 65</td>
<td>44202.01</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>7.5</td>
<td>0.45</td>
<td>60 - 65</td>
<td>44203.01</td>
</tr>
<tr>
<td></td>
<td>18</td>
<td>11.5</td>
<td>1.1</td>
<td>60 - 65</td>
<td>44204.01</td>
</tr>
<tr>
<td></td>
<td>24</td>
<td>15</td>
<td>1.8</td>
<td>60 - 65</td>
<td>44205.01</td>
</tr>
<tr>
<td></td>
<td>32</td>
<td>20.4</td>
<td>3.3</td>
<td>60 - 65</td>
<td>44206.01</td>
</tr>
<tr>
<td></td>
<td>40</td>
<td>25.5</td>
<td>5.1</td>
<td>60 - 65</td>
<td>44207.01</td>
</tr>
<tr>
<td></td>
<td>50</td>
<td>32</td>
<td>7.9</td>
<td>60 - 65</td>
<td>44208.01</td>
</tr>
</tbody>
</table>

### Spectra/Por® 6 Dialysis Tubing, MWCO 10,000

<table>
<thead>
<tr>
<th>Size</th>
<th>Nominal Dry Flat Width (mm)</th>
<th>Nominal Dry Diameter (mm)</th>
<th>Approx. Filling Volume (ml/cm)</th>
<th>Nominal Dry Wall Thickness (µm)</th>
<th>Cat. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 m</td>
<td>8</td>
<td>5.1</td>
<td>0.20</td>
<td>60 - 65</td>
<td>44209.01</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>7.5</td>
<td>0.45</td>
<td>60 - 65</td>
<td>44210.01</td>
</tr>
<tr>
<td></td>
<td>18</td>
<td>11.5</td>
<td>1.1</td>
<td>60 - 65</td>
<td>44211.01</td>
</tr>
<tr>
<td></td>
<td>24</td>
<td>15</td>
<td>1.8</td>
<td>60 - 65</td>
<td>44212.01</td>
</tr>
<tr>
<td></td>
<td>32</td>
<td>20.4</td>
<td>3.3</td>
<td>60 - 65</td>
<td>44213.01</td>
</tr>
<tr>
<td></td>
<td>45</td>
<td>29</td>
<td>6.4</td>
<td>60 - 65</td>
<td>44214.01</td>
</tr>
</tbody>
</table>

### Spectra/Por® 6 Dialysis Tubing, MWCO 15,000

<table>
<thead>
<tr>
<th>Size</th>
<th>Nominal Dry Flat Width (mm)</th>
<th>Nominal Dry Diameter (mm)</th>
<th>Approx. Filling Volume (ml/cm)</th>
<th>Nominal Dry Wall Thickness (µm)</th>
<th>Cat. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 m</td>
<td>8</td>
<td>5.1</td>
<td>0.20</td>
<td>60 - 65</td>
<td>44215.01</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>7.5</td>
<td>0.45</td>
<td>60 - 65</td>
<td>44216.01</td>
</tr>
<tr>
<td></td>
<td>18</td>
<td>11.5</td>
<td>1.1</td>
<td>60 - 65</td>
<td>44217.01</td>
</tr>
<tr>
<td></td>
<td>24</td>
<td>15</td>
<td>1.8</td>
<td>60 - 65</td>
<td>44218.01</td>
</tr>
<tr>
<td></td>
<td>32</td>
<td>20.4</td>
<td>3.3</td>
<td>60 - 65</td>
<td>44219.01</td>
</tr>
<tr>
<td></td>
<td>45</td>
<td>29</td>
<td>6.4</td>
<td>60 - 65</td>
<td>44220.01</td>
</tr>
</tbody>
</table>

### Spectra/Por® 6 Dialysis Tubing, MWCO 25,000

<table>
<thead>
<tr>
<th>Size</th>
<th>Nominal Dry Flat Width (mm)</th>
<th>Nominal Dry Diameter (mm)</th>
<th>Approx. Filling Volume (ml/cm)</th>
<th>Nominal Dry Wall Thickness (µm)</th>
<th>Cat. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 m</td>
<td>8</td>
<td>5.1</td>
<td>0.20</td>
<td>60 - 65</td>
<td>44221.01</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>7.5</td>
<td>0.45</td>
<td>60 - 65</td>
<td>44222.01</td>
</tr>
<tr>
<td></td>
<td>18</td>
<td>11.5</td>
<td>1.1</td>
<td>60 - 65</td>
<td>44223.01</td>
</tr>
<tr>
<td></td>
<td>24</td>
<td>15</td>
<td>1.8</td>
<td>60 - 65</td>
<td>44224.01</td>
</tr>
<tr>
<td></td>
<td>28</td>
<td>18</td>
<td>2.5</td>
<td>60 - 65</td>
<td>44225.01</td>
</tr>
<tr>
<td></td>
<td>34</td>
<td>22</td>
<td>3.7</td>
<td>60 - 65</td>
<td>44226.01</td>
</tr>
</tbody>
</table>

### Spectra/Por® 6 Dialysis Tubing, MWCO 50,000

<table>
<thead>
<tr>
<th>Size</th>
<th>Nominal Dry Flat Width (mm)</th>
<th>Nominal Dry Diameter (mm)</th>
<th>Approx. Filling Volume (ml/cm)</th>
<th>Nominal Dry Wall Thickness (µm)</th>
<th>Cat. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 m</td>
<td>10</td>
<td>6.4</td>
<td>0.32</td>
<td>60 - 65</td>
<td>44227.01</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>7.5</td>
<td>0.45</td>
<td>60 - 65</td>
<td>44228.01</td>
</tr>
<tr>
<td></td>
<td>28</td>
<td>18</td>
<td>2.5</td>
<td>60 - 65</td>
<td>44229.01</td>
</tr>
<tr>
<td></td>
<td>34</td>
<td>22</td>
<td>3.7</td>
<td>60 - 65</td>
<td>44230.01</td>
</tr>
</tbody>
</table>

---

Molecular weight cut-off range from 1000 Da up to 50,000 Da
E. SERVAPOR® Closures

SERVAPOR® Closures, are a reliable seal for all dialysis tubing types and thicknesses. It is recommended to select closures with a sealing width 4 to 10 mm longer than the flat width of the dialysis tubing. This assures a leak-proof seal without the risk of membrane tearing. Closures are made from polyamide, autoclavable and do not float.

- Reliable, leak-proof seal
- Autoclavable

Closures

<table>
<thead>
<tr>
<th>Width</th>
<th>Size</th>
<th>Cat. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SERVAPOR® Closure, 50 mm</td>
<td>10 pieces</td>
<td>44608.01</td>
</tr>
<tr>
<td>SERVAPOR® Closure, 70 mm</td>
<td>10 pieces</td>
<td>44609.01</td>
</tr>
<tr>
<td>SERVAPOR® Closure, 110 mm</td>
<td>10 pieces</td>
<td>44610.01</td>
</tr>
</tbody>
</table>