

# Filter & Sensor Transfer Sets

Pre-Assembled, Pre-Sterilized  
& Ready to Use



## Product Information

Sterile Filter & Sensor Transfer Sets are pre-assembled, pre-sterilized and fully pre-qualified ready to use assemblies for connection and integration to single-use processing solutions. They consist of a filter or pressure | flow pipe with tubing and connector for immediate connection to single-use or hybrid stainless steel systems. Our configurable assemblies are shipped within only a few weeks.

## Flexibility

Sartorius offers options according to your requirements:

- Pre-Designed Solutions (PDS)  
Standardized assemblies that are quickly available
- Configure-to-order (CTO)  
Configurable solutions with a broad range of options
- Engineer-to-order (ETO)  
Customized solutions for your specific needs

## Easy Integration

Filter & Sensor Transfer Sets allow an easy integration of any Sartorius filter, pressure or flow measurement into a single-use set up.

A secure connection of the Filter & Sensor Transfer Set can be realized in the following ways:

- Sterile connectors, such as Opta®, AseptiQuik® and others
- Connection to stainless steel equipment using Steam-Thru® connector
- Aseptic connection (under laminar flow) using a TriClamp, MPX® or MPC quick coupler
- Sterile welding of TPE Tubing (C-Flex®) using the Biowelder® TC

Filter & Sensor Transfer Sets are intended for single-use. They can be easily configured by our team according to your needs.

Multi-use components like the pressure transducer and the clamp-on for flow pipes can be connected to any control devices.

## Complete Process Control

By combining the Sensor with a Filter Transfer Set you can monitor for example the pressure upstream of the filter and enable immediate shut-off of the pumps in the event of critical pressure increase.

Please contact your local sales representative or application specialist for an instant quote and technical drawing of a configurable Sterile Filter or Sensor Transfer Set.

## Quality

- Sartorius follows strict regulatory compliance standards
- 100% visual inspection and batch record review
- 100% integrity tested filter elements
- All connections are pre-qualified according to Sartorius quality standards

## Modularity

By splitting your assemblies into modules, e.g. Filter Transfer Sets, Bags, Sensor Transfer Sets you can:

- Produce several products with the same pool of equipment
- Reduce the amount of part numbers
- Optimize the warehousing footprint

# Technical Data

|  | Filter Transfer Set<br>Autoclave   | Filter Transfer Set<br>Gamma   | Virus Filter Transfer Set<br>Gamma   | Sensor Transfer Set<br>Gamma  |
|--|--|--|--|---|
| Tubing types  <br>Tube diameter<br>ID × OD   | Pharma-50  <br>3/8" × 5/8", 1/2" × 3/4"<br>Pharma-80  <br>1/2" × 3/4"<br>Tuflux® Silicone  <br>3/8" × 5/8", 1/2" × 3/4"<br>Sani-Tech® STHT®-R  <br>1/2" × 7/8" | Pharma-50  <br>3/8" × 5/8", 1/2" × 3/4"<br>Tuflux® Silicone  <br>3/8" × 5/8", 1/2" × 3/4"<br>C-Flex® 374  <br>3/8" × 5/8", 1/2" × 3/4" | Sani-Tech® STHT®-R  <br>3/8" × 5/8", 1/2" × 7/8"   | Pharma-50  <br>3/8" × 5/8", 1/2" × 3/4"<br>Pharma Advanced<br>Pump Tubing  <br>1/2" × 7/8"<br>Tuflux® Silicone  <br>3/8" × 5/8", 1/2" × 3/4"<br>C-Flex® 374  <br>3/8" × 5/8", 1/2" × 3/4" |
| Tubing length Inlet  | 100, 300 [mm]<br>3.94, 11.81 ["]   | 150, 300, 500,<br>1000 [mm]<br>5.91, 11.81, 19.69,<br>39.37 ["]  | 150, 300, 500, 1000 [mm]<br>5.91, 11.81, 19.69, 39.37 ["]  | 150, 300, 500, 750,<br>1000, 1500 [mm]<br>5.91, 11.81, 19.69,<br>29.53, 39.37, 59.06 ["]  |
| Tubing length<br>Outlet  | 100, 300 [mm]<br>3.94, 11.81 ["]   | 150, 300, 500, 1000,<br>1500, 3000, 5000 [mm]<br>5.91, 11.81, 19.69,<br>39.37, 59.06, 118.11,<br>196.85 ["]                            | 150, 300, 500, 1000 [mm]<br>5.91, 11.81, 19.69, 39.37 ["]  | 150, 300, 500, 750,<br>1000, 1500, 2000,<br>2500 [mm]<br>5.91, 11.81, 19.69,<br>29.53, 39.37, 59.06,<br>78.74, 98.43 ["]  |
| Connectors<br>Inlet & Outlet   | AseptiQuik® G<br>KPC<br>Opta® SFT<br>Quick Coupler MPX®   MPC<br>TriClamp 1½"<br>TriClamp ¾"<br>Steam-Thru® (STCII)<br>Presto                                  | AseptiQuik® G<br>KPC<br>Opta® SFT<br>Quick Coupler MPC<br>TriClamp 1½"<br>TriClamp ¾"<br>Steam-Thru® (STCII)<br>Plug-in                | AseptiQuik® G<br>Opta® SFT<br>TriClamp 1½"   | AseptiQuik® G<br>KPC<br>Opta® SFT<br>Quick Coupler MPC<br>TriClamp 1½"<br>TriClamp ¾"<br>Stream-Thru® (STCII)<br>Plug-in  |
| Venting line<br>Tubing type<br>Tubing diameter<br>ID × OD<br>Tubing length<br>Filter Connector             | -  | -  | Virosart® HF<br>Sani-Tech® STHT®-R<br>1/2" × 7/8"<br>300 [mm]<br>11.81 ["]<br>Sartopore® Air<br>0.2 µm<br>1/2" hose barb | Virosart® Media<br>Sani-Tech® STHT®-R<br>3/8" × 5/8", 1/2" × 7/8"<br>300, 500 [mm]<br>11.81, 19.69 ["]<br>-<br>AseptiQuik® G,<br>Opta® SFT  |
| Option Valve Inlet<br>Maxicaps®<br>Connector<br>Tubing type<br>Tubing diameter<br>ID × OD<br>Tubing length | -<br>AseptiQuik® G<br>Opta® SFT<br>Quick Coupler MPC<br>Tuflux® Silicone<br>Pharma-50<br>1/4" × 7/16"<br>100 [mm]  | -  | -  | -   |
| Option Valve Outlet<br>Maxicaps®<br>Filter<br>Tubing type<br>Tubing diameter<br>ID × OD<br>Tubing length   | -<br>Midisart® 2000<br>Tuflux® Silicone<br>Pharma-50<br>1/4" × 7/16"<br>100 [mm]   | -  | -  | -   |

|  | Filter Transfer Set<br>Autoclave  | Filter Transfer Set<br>Gamma   | Virus Filter Transfer Set<br>Gamma              | Sensor Transfer Set<br>Gamma            |
|--|---|--|---|---|
| Filter   Sensor<br>Options   | Sartofluor®   0.2 [µm]<br>Sartolon   0.45 + 0.2 [µm]  | Sartopore Evo®  <br>0.8 + 0.2 [µm]   | Virosart® HF   20 nm<br>Virosart® Media   20 nm | BioPAT® Pressure<br>BioPAT® Flow        |
| Pore Size  <br>Retention Rate  | Sartobran® P   0.45 + 0.2,<br>0.45 + 0.1, 0.65 + 0.45 [µm]<br>Sartoclean® CA  <br>3.0 + 0.8, 0.8 + 0.65 [µm]<br>Sartoclean® GF  <br>3.0 + 0.8, 0.8 + 0.65 [µm]<br>Sartoguard GF  <br>0.2 + 0.1, 0.8 + 0.2 [µm]<br>Sartopure® GF Plus  <br>1.2, 0.65 [µm]<br>Sartopure® PP3  <br>0.45, 0.65, 1.2, 3, 5, 8,<br>20, 50, 100 [µm]<br>Virosart® Max   0.1 [µm] | Sartopore® Platinum  <br>0.45 + 0.2 [µm]<br>Sartopore® 2  <br>0.45 + 0.2 [µm]<br>Sartopore® 2 XLG  <br>0.8 + 0.2 [µm]<br>Sartopore® 2 XLM  <br>0.2 + 0.1 [µm]<br>Sartopore® 2 XLI  <br>0.35 + 0.2 [µm]<br>Sartopore® Air   0.2 [µm]<br>Sartoguard PES  <br>1.2 + 0.2, 0.8 + 0.1 [µm] |   |   |
| Sterilization Method   | Autoclave   | Gamma irradiation  | Gamma irradiation                               | Gamma irradiation                       |
| Max. operation<br>pressure  <br>IT pressure<br>(Depending on<br>filter, sensor, tubing,<br>connector<br>combination) | 0.5*, 1, 1.5, 2, 3   3, 4 [barg]<br>7.3, 14.5, 22, 29, 43.5  <br>43.5, 58 [psig]<br>* open Maxicaps® valve  | 1, 1.5, 2 [barg]<br>14.5, 22, 29 [psig]  | 3   2.5 [barg]<br>43.5   36.2 [psig]            | 1, 1.5, 2 [barg]<br>14.5, 22, 29 [psig] |
| Packaging  | Double Tyvek bags   | Double PA   PE bags  | Double PA   PE bags                             | Double PA   PE bags                     |
| Min. order<br>quantities   | 8   | 4  | 1   | 4                                       |

## Oetiker® Metal Clamp

All Filter and Sensor Transfer Sets use Oetiker® clamps. The metal clamps are wrapped with an innovative silicone rubber band to protect the user and the packaging.



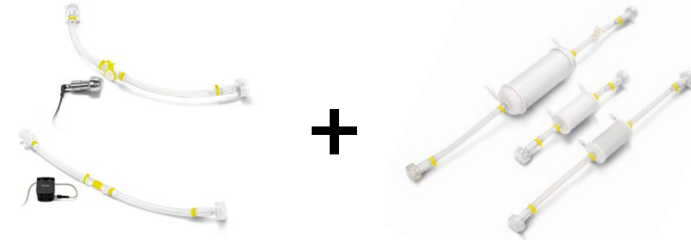
## Closed System Configuration for Autoclavable Maxicaps® Filter Capsules

Filter Transfer Sets with autoclavable Maxicaps® filter capsules are available in a closed system configuration which enables sterile operation even for critical applications.



## Combine Sensor and Filter Transfer Sets

Design a complete single-use functional unit!



Single-Use Pressure or Flow Pipe + Multi-use Transmitter

Single-Use Filter Transfer Set

## Technical Reference

|  |             |
|--|-------------|
| Validation Guide                           | 2630981-000 |
| Datasheet for Pressure Sensor & Transducer | 2475299-000 |
| Datasheet for Flow Pipes & Clamp-On        | 2475279-000 |
| Datasheet for Virus Filter Transfer Units  | 1000048434  |

## Regulatory Compliance

All Filters & Sensors as well as tubing meet the requirements of the current USP Biological Reactivity test <88> and all other product contact materials have passed USP <87> or ISO10993 as a minimum requirement.

Sterile Filter & Sensor Transfer Sets are in compliance with the European guidance on minimizing the risk of transmitting animal spongiform encephalopathy agents via human and veterinary product (EMA/410/01).

Sterile Filter & Sensor Transfer Sets are subject to bioburden, endotoxin and particulate matter control on a regular basis.

All Sterile Transfer Sets are sterilized using a validated process in accordance with DIN EN ISO 11137 or ISO 17665 regulations.

100% of the products undergo visual inspection and are subject to batch record.

## Ordering Information

### For Pre-Designed Solutions (PDS)

| Filter Format         | Part Number                   |                                  |                                |                                  | Lot size | Tubing & Outlet Connector                                   |
|-----------------------|-------------------------------|----------------------------------|--------------------------------|----------------------------------|----------|---|
|                       | Sartopore® 2<br>0.45   0.2 µm | Sartopore® 2 XLM<br>0.2   0.1 µm | Sartopore Evo®<br>0.8   0.2 µm | Sartopore® 2 XLG<br>0.8   0.2 µm |          |   |
| Capsule size 4        | –                             | –                                | FFU501720                      | –                                | 4        | ½" ID Clear<br>C-Flex® 500 mm<br>Opta® male ½"              |
| Midicaps® size 7      | FFU500214                     | FFU500268                        | FFU501706                      | FFU500220                        | 4        |   |
| Midicaps® size 8      | FFU500215                     | FFU500269                        | FFU501707                      | FFU500221                        | 4        |   |
| Midicaps® size 9      | FFU500216                     | FFU500270                        | FFU501708                      | FFU500222                        | 4        |   |
| Midicaps® size 0      | FFU500217                     | FFU500271                        | FFU501709                      | FFU500223                        | 4        |   |
| Maxicaps® T-Style 10" | FFU500249                     | FFU500272                        | FFU501710                      | FFU500259                        | 4        |   |
| Maxicaps® T-Style 20" | FFU500250                     | FFU500273                        | FFU501711                      | FFU500260                        | 4        |   |
| Maxicaps® T-Style 30" | FFU500251                     | FFU500274                        | FFU501712                      | FFU500261                        | 4        |   |
| Capsule size 4        | –                             | –                                | FFU501723                      | –                                | 4        | ½" ID Clear<br>C-Flex® 500 mm<br>MPX® male +<br>sealing cap |
| Midicaps® size 7      | FFU500252                     | FFU500275                        | FFU501713                      | FFU500262                        | 4        |   |
| Midicaps® size 8      | FFU500253                     | FFU500276                        | FFU501714                      | FFU500263                        | 4        |   |
| Midicaps® size 9      | FFU500254                     | FFU500277                        | FFU501715                      | FFU500264                        | 4        |   |
| Midicaps® size 0      | FFU500255                     | FFU500278                        | FFU501716                      | FFU500172                        | 4        |   |
| Maxicaps® T-Style 10" | FFU500256                     | FFU500226                        | FFU501717                      | FFU500265                        | 4        |   |
| Maxicaps® T-Style 20" | FFU500257                     | FFU500279                        | FFU501718                      | FFU500266                        | 4        |   |
| Maxicaps® T-Style 30" | FFU500258                     | FFU500225                        | FFU501719                      | FFU500267                        | 4        |   |

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