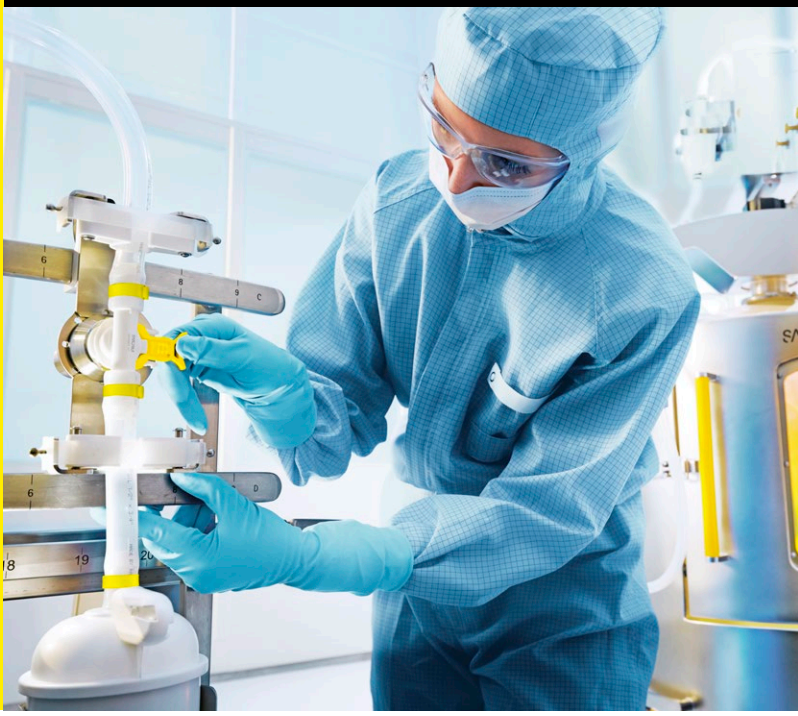
SARTORIUS

Product Datasheet



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 Autoclave	Filter Transfer Set Gamma	Virus Filter Transfer Set Gamma		Sensor Transfer Set Gamma
Tubing types | Tube diameter ID × OD	Pharma-50 | ⅜" × ⅝", ½" × ¾" Pharma-80 | ½" × ¾" Tuflux® Silicone | ⅜" × ⅝", ½" × ¾" Sani-Tech® STHT®-R | ½" × ⅞"	Pharma-50 | ⅜" × ⅝", ½" × ¾" Tuflux® Silicone | ⅜" × ⅝", ½" × ¾" C-Flex® 374 | ⅜" × ⅝", ½" × ¾"	Sani-Tech® STHT®-R | ⅜" × ⅝", ½" × ⅞"		Pharma-50 | ⅜" × ⅝", ½" × ¾" Pharma Advanced Pump Tubing | ½" × ⅞" Tuflux® Silicone | ⅜" × ⅝", ½" × ¾" C-Flex® 374 | ⅜" × ⅝", ½" × ¾"
Tubing length Inlet	100, 300 [mm] 3.94, 11.81 ["]	150, 300, 500, 1000 [mm] 5.91, 11.81, 19.69, 39.37 ["]	150, 300, 500, 1000 [mm] 5.91, 11.81, 19.69, 39.37 ["]		150, 300, 500, 750, 1000, 1500 [mm] 5.91, 11.81, 19.69, 29.53, 39.37, 59.06 ["]
Tubing length Outlet	100, 300 [mm] 3.94, 11.81 ["]	150, 300, 500, 1000, 1500, 3000, 5000 [mm] 5.91, 11.81, 19.69, 39.37, 59.06, 118.11, 196.85 ["]	150, 300, 500, 1000 [mm] 5.91, 11.81, 19.69, 39.37 ["]		150, 300, 500, 750, 1000, 1500, 2000, 2500 [mm] 5.91, 11.81, 19.69, 29.53, 39.37, 59.06, 78,74, 98.43 ["]
Connectors Inlet & Outlet	AseptiQuik® G KPC Opta® SFT Quick Coupler MPX® | MPC TriClamp 1½" TriClamp ¾" Steam-Thru® (STCII) Presto	AseptiQuik® G KPC Opta® SFT Quick Coupler MPC TriClamp 1½" TriClamp ¾" Steam-Thru® (STCII) Plug-in	AseptiQuik® G Opta® SFT TriClamp 1½"		AseptiQuik® G KPC Opta® SFT Quick Coupler MPC TriClamp 1½" TriClamp ¾" Stream-Thru® (STCII) Plug-in
Venting line	–	–	Virosart® HF	Virosart® Media	-
Tubing type			Sani-Tech® STHT®-R	Sani-Tech® STHT®-R	
Tubing diammeter ID × OD			½" × ⅞"	⅜" × ⅝", ½" × ⅞"	
Tubing length			300 [mm] 11.81 ["]	300, 500 [mm] 11.81, 19.69 ["]	
Filter Connector			Sartopore® Air 0.2 µm ½" hose barb	– AseptiQuik® G, Opta® SFT	
Option Valve Inlet Maxicaps®		–	–		–
Connector	AseptiQuik® G Opta® SFT				
Tubing type	Quick Coupler MPC Tuflux® Silicone Pharma-50				
Tubing diammeter ID × OD	¼" × 7/16"				
Tubing length	100 [mm]				
Option Valve Outlet Maxicaps®		–	–		–
Filter	Midisart® 2000				
Tubing type	Tuflux® Silicone Pharma-50				
Tubing diammeter ID × OD	¼" × 7/16"				
Tubing length	100 [mm]				

	Filter Transfer Set Autoclave	Filter Transfer Set Gamma	Virus Filter Transfer Set Gamma	Sensor Transfer Set Gamma
Filter | Sensor Options Pore Size | Retention Rate	Sartofluor® | 0.2 [µm] Sartolon | 0.45 + 0.2 [µm] Sartobran® P | 0.45 + 0.2, 0.45 + 0.1, 0.65 + 0.45 [µm] Sartoclean® CA | 3.0 + 0.8, 0.8 + 0.65 [µm] Sartoclean® GF | 3.0 + 0.8, 0.8 + 0.65 [µm] Sartoguard GF | 0.2 + 0.1, 0.8 + 0.2 [µm] Sartopure® GF Plus | 1.2, 0.65 [µm] Sartopure® PP3 | 0.45, 0.65, 1.2, 3, 5, 8, 20, 50, 100 [µm] Virosart® Max | 0.1 [µm]	Sartopore Evo® | 0.8 + 0.2 [µm] Sartopore® Platinum | 0.45 + 0.2 [µm] Sartopore® 2 | 0.45 + 0.2 [µm] Sartopore® 2 XLG | 0.8 + 0.2 [µm] Sartopore® 2 XLM | 0.2 + 0.1 [µm] Sartopore® 2 XLI | 0.35 + 0.2 [µm] Sartopore® Air | 0.2 [µm] Sartoguard PES | 1.2 + 0.2, 0.8 + 0.1 [µm]	Virosart® HF | 20 nm Virosart® Media | 20 nm	BioPAT® Pressure BioPAT® Flow
Sterilization Method	Autoclave	Gamma irradiation	Gamma irradiation	Gamma irradiation
Max. operation pressure | IT pressure (Depending on filter, sensor, tubing, connector combination)	0.5*, 1, 1.5, 2, 3 | 3, 4 [barg] 7.3, 14.5, 22, 29, 43.5 | 43.5, 58 [psig] * open Maxicaps® valve	1, 1.5, 2 [barg] 14.5, 22, 29 [psig]	3 | 2.5 [barg] 43.5 | 36.2 [psig]	1, 1.5, 2 [barg] 14.5, 22, 29 [psig]
Packaging	Double Tyvek bags	Double PA | PE bags	Double PA | PE bags	Double PA | PE bags
Min. order 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 endephalopathy 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 0.45 | 0.2 µm	**Sartopore® 2 XLM 0.2 | 0.1 µm**	**Sartopore Evo® 0.8 | 0.2 µm**	**Sartopore® 2 XLG 0.8 | 0.2 µm**		
Capsule size 4	–	–	FFU501720	–	4	½" ID Clear C-Flex® 500 mm **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 C-Flex® 500 mm **MPX® male + 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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