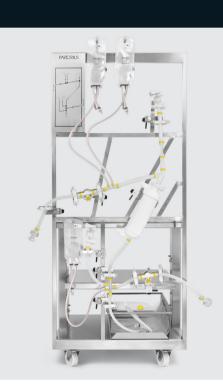
SARTURIUS

Filter Transfer Set Final Filling

Streamlined. Standardized. Simplified.



Product Introduction

By providing an industry-first, pre-designed solution for filtration in final filling, Sartorius filter transfer sets can reduce lead times by up to 80%. Standardized product design offers identical operating procedures to facilitate handling and mitigate the risk of operation errors, regardless of filter type and size. Further, the qualified, sterile filter transfer set for final filling is regulatory compliant and optimized for PUPSIT.

Key Features & Benefits

- Pre-designed: Fast availability
- Regulatory Compliant: PUPSIT optimized
- High Standardization: Promotes usability and mitigates risks
- Stainless Steel Holder: Engineered to limit product loss
- Full Flexibility: Various filter types and sizes, single and redundant filtration

Relevant Applications

- Filtration of bulk drug substance into the bag (e.g., Celsius) or stainless steel cryovessel
- Filtration of drug products into a header bag of a filling machine

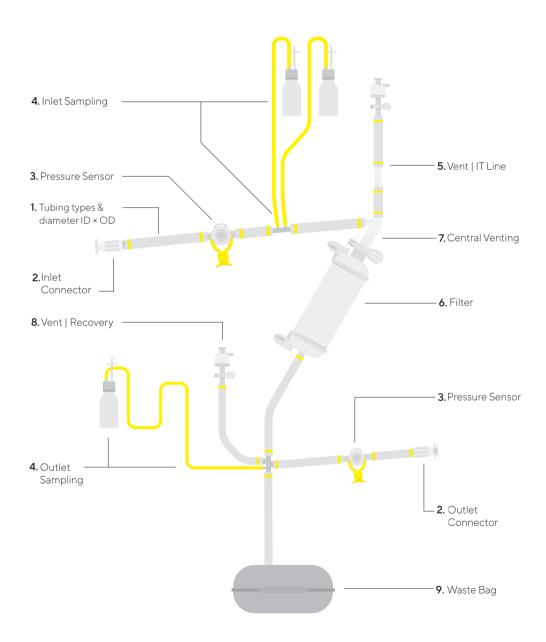
Relevant Process Steps

- Sterile Filtration
- Fill & Finish



Technical Specifications

Single-Use Assembly



	Inlet	Outlet	Comment
1. Tubing types Tube diameter ID×OD	 TuFlux® Sil ½" × ¾" TuFlux® TPE ½" × ¾" C-Flex® 374 ½" × ¾" Sani-Tech® STHT®-R ½" × ¾" (Filter integrity test area only) 	■ TuFlux® Sil ½" × ¾" ■ TuFlux® TPE ½" × ¾" ■ C-Flex® 374 ½" × ¾"	
2. Connector	 OPTA® SFT AseptiQuik® G TPE tube with plug for sterile weld 	 OPTA® SFT AseptiQuik® G TPE tube with plug for sterile weld 	
3. Pressure Sensor	BioPAT® Pressure	BioPAT® Pressure	Optional
4. Sampling	O or 1 or 2	0 or 1	Optional
Vessel Volume Tubing type ID length	Flexsafe® 2D bag 150 or 250 [mL] TuFlux® TPE ¼" 770 mm or Mycap® botte 125 or 250 [mL] C-Flex® 374 ¼" 770 mm	Flexsafe® 2D bag 150 or 250 [mL] TuFlux® TPE / ¼" 770 mm or Mycap® botte 125 or 250 [mL] C-Flex® 374 ¼" 770 mm	 Flexsafe® 2D bag with outlet TuFlux® TPE ¼" 150 mm, MPC female with sealing cap MyCap® with Quickseal and Minisart® vent filter
5. Vent IT Line			Mandatory
Filter Type Filter Size	Sartopore® Air 0.2 μm size 4		
Tubing types Tube diameter ID×OD	½" × ⅓"		
Sight glass	Transparent medical grade Copolyester ½" inner diameter		
6. Filter	Filter Type	Filter Size	Comment
	 Sartopore® Platinum 0.2 μm Sartopore® Platinum HB 0.2 μm Sartopore® 2 0.2 μm Sartopore® 2 XLG 0.2 μm Sartopore® 2 XLI 0.2 μm Sartopore® 2 XLM 0.1 μm 	Midicaps® size 7, 8, 9, 0 Maxicaps® 10"	
	Sartobran® P 0.2 μm	Midicaps® size 7, 8, 9	Filter Tansfer Set required
7. Central venting	Gamma variant	HD-Variant	
	 Transparent Copolyester TC 1.5" × ½" × ½" 	TEE-Connector Polypropylene ½" × ½" × ½"	
8. Vent Recovery			Optional
Filter type filter size	■ Sartopore® Air 0.2 µm size 4		
Tubing types tube diameter ID×OD	 TuFlux® Sil ½" × ¾" TuFlux® TPE ½" × ¾" C-Flex® 374 ½" × ¾" 		
9. Waste bag	Flexsafe® 2 D 10 L or 20 L Inlet: TuFlux® TPE % × %" 1,000 mm Outlet: TuFlux® TPE ½ × ½;" 150 mm MI	PC female with sealing cap	

General Product Specifications

Manufacturing environment	ISO 7 cleanroom		
Sterilization method	Gamma irradiation		
Max. operation pressure Filter integrity test pressure (Depending on filter, sensor, tubing, connector combination)	1, 2 5 [barg] 14.5 72.5 [psig]		
Weight			
Filter Transfer Set (Single use assembly)	3 kg 6.6 lbs		
Including packaging (max.)	5 kg 11 lbs		
Minimum order quantity	4 and multiples of 4		
Total length Filter Transfer Set, provided by customer	535 mm 21.1"		
Total shelf life	1 Year		
Storage conditions	 Storage in a closed, dry area No direct solar radiation No direct contact with moisture 		
Temperature	5°C-40°C		
Relative humidity	10%-75%		
Packaging	Туре	Material	Size
Primary packaging	Packaging blister	Transparent PET-G	1050 × 650 × 115 [mm] 41.3 × 25.5 × 4.5 ["]
	Double bags	PA PE bags	N A
Secondary packaging	Cardboard box	Double wall carton	1182 × 762 × 250 [mm] 46.5 × 30 × 9.9 ["]
	Cushion set	LDPE	N A

Certificate of Release

Statements	
Biological safety (USP Class VI)	USP <87> & USP <88>
Physicochemical	Flexsafe® bags pass current USP <661> for plastic Containers. The contact layer of the S80 film passes current EP 3.1.5 (Polyethylene with additives) and complies with U.S. FDA 21CFR177.1520
TSE-BSE	Compliance with EMA/410/01 and EP 5.2.8
Monitoring	
Endotoxin	USP <85> and EP 2.6.14
Sub visible particles	USP < 788 > and EP 2.9.19
Bioburden	ISO 11737
Sterility	ISO 11737 Sterilization of medical devices
Batch testing	
Visual inspection	100% inspection
Leak test	100% of bags are leak tested
Product conformity	Technical drawing compliance and batch record review
Gamma irradiation	25 kGy minimum, Gamma irradiation certificate enclosed
Particles prevention program	
Visible particles	Representative product analyzed for particles with sizes $\geq 100~\mu m$

Product Validation, Qualification & Tests

(ASTM D4332) Seal seam of pouches Based on EN ISO 11607 Box compression DIN 55441-1	-Use Post Sterilization Integrity Test (PUPSIT)	According to product wetting protocol, post gamma and after 1 year shelf life		
Packaging validation Based on ASTM D7386, enhanced by pre-conditioning at a tropical of (ASTM D4332) Seal seam of pouches Based on EN ISO 11607 Box compression DIN 55441-1	inection qualification	Tightness according to Sartorius test protocol, after 3 years shelf life		
(ASTM D4332) Seal seam of pouches Based on EN ISO 11607 Box compression DIN 55441-1	robial immersion test	According to ASTM standard E3251-20		
Box compression DIN 55441-1	kaging validation	Based on ASTM D7386, enhanced by pre-conditioning at a tropical climate (ASTM D4332)		
	seam of pouches	Based on EN ISO 11607		
Others REACH and RoHs compliance	compression	DIN 55441-1		
	ers	REACH and RoHs compliance		
Extractables • Extractable data for components available • Product specific extractable data available via extractables simulat	actables	 Extractable data for components available Product specific extractable data available via extractables simulator 		

Peripherals and Accessories

Item	Order No.	Single Filtration	Redundant Filtration	Comment
Pressure sensor w holder 1/2" 0 - 4 bar	4ZF0119	2	2	Required for each pressure measurement
Tube holder for system rail ½"	4ZF0039	8	16	Single: 8× required (-1 per pressure sensor) Redundant: 16× required (-1 per pressure sensor)
System Rack PUPSIT, single	FIA500001	1	-	Required for single filtration & redundant
System Rack PUPSIT, redundant	FIA500002	-	1	Required for redundant filtration
Capsule clamp D100	4ZF0016	2	2	Clamp for Maxicaps®
Capsule clamp D72	BB-34164020	2	2	Clamp for Maxicaps®
Flexboy® Tray + Lid 10 L	FFA102715	1	1	
Flexboy® Tray + Lid 20 L	FFA102716	1	1	
Laboratory cart	4ZF0021	1	1	Required for System rack PUPSIT single redundant
Sampling holder bottle and bag	FIA500003	1	1	Required for each sampling
Digital Indicator for BioPAT® Pressure Transmitter	BPD0101	2	2	Required for each pressure measurement

Used | Recommended Tube Clamps

Item	Manufacturer	Manufacturer Part Number	Manufacturer Product Name	Comment
Tube Clamp (Large)	Saint-Gobain Performance Plastics	PFTCL250	Pure-Fit [®] TCL	2× required, for high-pressure area (part of supply or separate purchase at manufacturer)
Tube Clamp	W. L. Gore & Associates, Inc.	AMS-4232	AME-CLAMP	Up to 7× required, depending on configuration (part of supply or separate purchase at manufacturer)
Sampling holder bottle and bag	FIA500003	1	1	Required for each sampling
Digital Indicator for BioPAT® Pressure Transmitter	BPD0101	2	2	Required for each pressure measurement

Germany USA

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- For more information about Sterile Filtration Process, visit www.sartorius.com/en/products/process-filtration/sterile-filtration
- For more information about Sartocheck® 5 Plus Filter Integrity Tester, visit www.sartorius.com/en/products/process-filtration/hardware/integrity-testing/sartocheck-5
- For more information about Validation Service, visit www.sartorius.com/en/services/validation-service
- For more information about Commercial Scale Freezing Solutions, visit
 www.sartorius.com/en/products/fluid-management/frozen-storage-shipping/commercial-scale-solutions
- For more information about Filling Solutions in Barrier Isolated Filling Lines, visit www.sartorius.com/en/products/fluid-management/final-filling