SVISCISVS

Product Datasheet

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

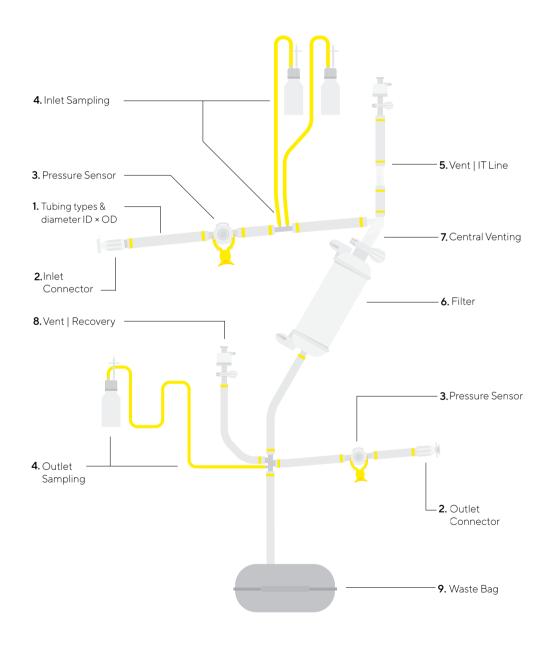
Relevant Process Steps

- Sterile Filtration
- Fill & Finish





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" × ½" (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	0 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" × %"		
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 ¾ × ½" 1,000 mm Outlet: TuFlux® TPE ¼ × ¼₀" 150 mm MI	PC female with sealing cap	

General Product Specifications

Filter Assembly

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 Ibs		
Minimum order quantity	4 and multiples of 4		
Total length Filter Transfer Set, provided by customer	535 mm 21.1"		
Total shelf life	3 Years		
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	NIA

Filter Holder

Main construction material	316 or 304			
Surface finishing	Ra 1.2 µm			
Dimension (W×D×H)	Single: 810×970×1,900 [mm] 32×38×75 ["] Redundant: 1,050×940×1,900 [mm] 41×37×75 ["]			
Total weight	Single: 110 kg 243 lbs Redundant: 125 kg 276 lbs			

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 ≥ 100 μm				

Product Validation, Qualification & Tests

Pre-Use Post Sterilization Integrity Test (PUPSIT)	According to product wetting protocol, post gamma and after 3 years shelf life		
Connection qualification	Tightness according to Sartorius test protocol, after 3 years shelf life		
Microbial immersion test	According to ASTM standard E3251-20		
Packaging validation	Based on ASTM D7386, enhanced by pre-conditioning at a tropical climate (ASTM D4332)		
Seal seam of pouches	Based on EN ISO 11607		
Box compression	DIN 55441-1		
Others	REACH and RoHs compliance		
Extractables	 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 ^{½"} 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 Midicaps®
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)

Germany

USA

Sartorius Stedim Biotech GmbHSartorius Stedim North America Inc.August-Spindler-Strasse 11565 Johnson Avenue37079 GoettingenBohemia, NY 11716Phone +49 551 308 0Toll-Free +1 800 368 7178

- ₭ 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