

Product P/N	4222/01DFK	Mod. 984A
Description	Eco slimline, Luer Lid + Expandable Tube	Rev. 06

4222/01DFK

Eco slimline, Luer Lid + Expandable Tube



PRODUCT	Inlat/Outlat Open asters of 4000/04, 00mm Mala /45mm Famala - 00mm Famala /45mm Mala 100
PRODUCT	Inlet/Outlet Connectors of <b>4222/01</b> : 22mm Male/15mm Female – 22mm Female/15mm Male ISO
DESCRIPTION	and Ø4.3mm ISO Luer Port.
	Approx. dimensions: 68.5mm diameter x 67.1mm height.
	Weight: 25g (approx.). Bidirectional Filter.
	Bidirectional Fliter.
	Inlet/Outlet Connectors of catheter mount A626/60 - DFK:
	- connector 22mm Male / 15mm Female-15mm Male;
	- collapsible tube with connector sizes 14.3mm and 21.5mm (approx.).
MANUFACTURER	GVS Filter Technology UK
NAME	NFC House
	Vickers Industrial Estate
	Mellishaw Lane, Morecambe
	Lancashire LA3 3EN - United Kingdom
	La farme e Cara
	Information
	Tel. +44 (0) 1524 847600
	e-mail: gvsuk@gvs.com
INTENDED USE /	Filters protect the patient's airways effectively from exogenous microbial loads, thus reducing the
APPLICATION	risk of extrinsic colonisation and infection. Used to help reduce cross contamination between
	patient and machine. The luer port connector is used for monitoring respiratory and/or
	anaesthesia gases.
CLASS OF THE	Disposable medical device - Class IIa
PRODUCT	Rule 2 Annex IX 93/42 / EEC
	Rule 5 Annex VIII MDR 2017/745
MATERIALS	Filter media: Electrostatic Blended Synthetic Fiber
	Frame/Housing Polymer: 4222/01: Transparent Clear Polypropylene (PP)
	A626/60 - DFK: Clear Styrene - Butadiene Copolymer (SBC)
	and Clear Polypropylene (PP)
	Colour: Transparent White
	Regulatory Documentation Required:
	- Biocompatibility according ISO 10993-1
	- ROHS



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	<ul> <li>BSE/TSE</li> <li>DEHP plasticizer Free and latex free</li> <li>Aging</li> <li>REACH</li> </ul>		
	- Conflict minerals		
PRODUCT CHARACTERISTICS	Appearance/Visual As shown on drawing.		
	Physical/Mechanical Approx. dimensions of 4222/01: 68mm diameter x 67.1mm height. Weight: 25g (approx.).		
	Interfaces (ex: Input / Output connectors): 4222/01: <b>22mm Male/15mm Female – 22mm Female/15mm Male ISO and Ø4.3m</b> A626/60 - DFK: - connector 22mm Male / 15mm Female-15mm Male; - collapsible tube with connector sizes 14.3mm and 21.5mm (approx.).	m ISO Luer Port.	
	Operating temperature Range: <i>N/A</i> Storage temperature Range: <i>5 °C to 40 °C</i> <i>Bidirectional Filter.</i>		
	Biological Pyrogenicity: <0.3 EU/mI Biocompatibility to ISO10993 Category – Surface device Contact – Skin Contact Duration - <24hrs		
	For kit performance characteristics for 4222/01DFK – Please refer to 4222/0 sheet. Functional Air Flow Rate: <i>30I/min, 60I/min, 90I/min.</i>	01 Technical data	
	Filtration Efficiency: NaCl Filter Efficiency @ 30L/min using TSI 8130: <b>Min. 98.5%</b> (Ref.4222/700 REP: 0840/16 with factor of safety applied to Min.)		
	Pressure Drop: Flow Resistance @ 30I/min in accordance with EN ISO 9360-1: Max.99Pa Flow Resistance @ 60I/min in accordance with EN ISO 9360-1: Max.231Pa Flow Resistance @ 90I/min in accordance with EN ISO 9360-1: Max.363Pa (REP:0827/16 with 10% of safety margin added to Max.)		
	Internal Volume: 29ml (approx.)		
	Operating Lifetime: Refer to Instructions for Use.		
	Shelf Lifetime: 5 years from the date of manufacture.		



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	Bacterial Filtration Efficiency in accordance with ASTM F2101-07: <b>Min. 99.999%</b> (Staphylococcus aureus @ 30L /minute) REP: EXT439447.
	Viral Filtration Efficiency in accordance with ASTM F2101-07: <b>Min. 99.9 %</b> (Bacteriophage @ 30L/ minute) REP: EXT439446.
	Gas leakage in accordance with EN9360: Max.0.0 ml/min (REP:1524/18)
	<b>Cleanliness</b> Device assembled within Class 8 Cleanroom.
	Testing Leak test at 3PSI.
INSTRUCTIONS / WARNINGS	Multi-language IFU available.
PRODUCT SHELF LIFE	5 years from the date of manufacture.
STERILIZATION	Expiration date and date of manufacture are detailed on the product labelling.
APPLICABLE STANDARDS AND REGULATIONS	Product Certification required: - CE mark - FDA
	Applicable Standards and Technical Regulations: Biological evaluation of Medical Devices - Part 1: Evaluation and Testing - ISO 10993-1.
	Respiratory protective devices - Method for test - Part 7: Determination of particle filter penetration - BS EN 13274-7.
	Medical devices- Application of risk management to medical devices - BS EN ISO 14971.
	Medical devices – symbols to be used with medical device labels, labelling and information to be supplied - Part1: General requirements - ISO 15223-1.
	Breathing system filters for anaesthetic and respiratory use — Part 1: Salt test method to assess filtration performance - ISO 23328-1.
	Anaesthetic and respiratory equipment – conical connectors – part 1: Cones and sockets – ISO 5356-1.
PACKAGING AND LABELING	Number of pcs per bag is determined by the sales order.
	The first barcode label is applied to the outside of the bags.
	The second barcode label is applied onto the outside of the box.
	Each bag is labelled with the following traceability information: ✓ Quantity
	✓ Product description
	<ul> <li>✓ Product Date</li> <li>✓ Lot Number (OL and 5-digit batch number to trace back to raw materials used)</li> </ul>



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	✓ Operator Code
	✓ Operator Code Different lots in one box are separately closed and separately labelled.
	Bulk products will be packed in double PE bags.
CERTIFICATE OF	With each shipment, GVS UK Customer Service will send the CofC to the Customer, based or
COMPLIANCE	the lot numbers and date of manufacture.
	Conformity declaration is printed on every invoice and Certificate is according to UNI EN 1020-
	type 2.1.
DRAWING	The Quality management system is in compliance with ISO 13485.           The attached drawing is part of this product specification and must not be duplicated or made
DIAMINO	accessible to a third party without written permission from GVS Filter Technology UK Ltd.
	22 Female / 15 Male Connector
	in accordance with EN ISO 5356

	22 Male / 15 Female Connector in accordance with EN ISO 5356
	Approximate dimensions for reference only
ACCEPTABLE QUALITY LEVEL	AQL: 0.65 with sampling Plan: ISO2859.
VISUAL REQUIREMENTS	Visual acceptance requirements apply when inspected under below conditions: Magnification: Unaided eye at a distance of approximately 35-40cm. Light type: Lighting level must be reasonable for visual detection. Timings: Maximum inspection period per item is 25 seconds. For detailed defect list, refer to product control plan.



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		Acceptance Requirement	AQL	Sampling Plan
	1	Black particle contamination	0.65	
	2	Damaged/broken item	0.65	-
	3	Blocked connector/luer	0.65	-
	4	Weld marks	0.65	-
	5	Short fill moulding	0.65	-
	6	Rough surface or edges	0.65	ISO 2859 Part 1
	7	Pronounced injection gate	0.65	General Inspection
	8	Deformation/distortion	0.65	-
	9	Crack	0.65	-
	10	Oil/grease	0.65	-
	11	Wrong colour	0.65	-
	12	Weld fault	0.65	-
GENERAL SAFETY AND PERFORMANCE REQUIREMENTS	regula	al characteristic: Product characteristic which can affect safe ntions, fit, function, performance or subsequent processing of p		mpliance with
		al Characteristic # 01:		
		Resistance @ 30L/min in accordance with EN ISO 9360-1, Resistance @ 60L/min in accordance with EN ISO 9360-1,		
		Resistance @ 90L/min in accordance with EN ISO 9360-1,		
		al Characteristic # 02: NaCl Filter Efficiency @ 30L/min usin	a TSI 8	130 in accordance
	-	N 13274-7.	<i>y</i> 1010	
		al Characteristic # 03: Bacterial Filtration Efficiency in accord	dance w	ith ASTM F2101-0
	-	Filtration Efficiency in accordance with ASTM F2101-07.		
		al Characteristic # 04: Conical connectors compliant in accor	dance v	vith EN5356
	-	al Characteristic # 05: Gas Leakage compliant in accordance		
This material specifica	ation de	escribes the properties of product above indicated. This do	ocumer	t contains genera
		ription, drawing references, defect specification, biologica		



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#### **REVISIONS AND APPROVALS:**

DATE	REV.	REASON FOR CHANGE	ISSUED AND CONTROLLED BY: (NAME/FUNCTION/SIGNATURE)	APPROVED BY: (NAME/FUNCTION/SIGNATURE)
03/08/2021	3	Functional characteristics updated.	Kinga Gawdzik – Engineering Support Technician	Andrew Pearce – Quality Manager

CUSTOMER APPROVAL:		
We accept this	s material specification as a part of the agreed terms of delivery.	
Company Nam	ne:	
Approved by:		
	NAME/FUNCTION	
	SIGNATURE	
	DATE	
	COMPANY STAMP	
Please send l	back this document signed for approval. If we will not receive this specification signed, we consider the first order placed as implicit approval.	