PRODUCT SPECIFICATION

Product P/N	**2200/02**	**Mod. 984A Rev. 06**
Description	**Suction Filter**	

2200/02

Suction Filter

PRODUCT DESCRIPTION	Connectors- OD 8mm (approx.) hose barbed and ID 4mm (approx.) - both sides Approx. Dimensions 65mm diameter x 51.5mm length Flow direction indicated by IN marking on filter face Weight 17gm (approx.) Unidirectional filter
MANUFACTURER NAME	**GVS Filter Technology UK** NFC House Vickers Industrial Estate Mellishaw Lane, Morecambe Lancashire LA3 3EN - United Kingdom **Information** Tel. +44 (0) 1524 847600 e-mail: gvsuk@gvs.com
INTENDED USE / APPLICATION	The hydrophobic filter protects surgical suction vacuum pump equipment from contamination.
CLASS OF THE PRODUCT	Disposable medical device - Class IIa Rule 2 Annex IX 93/42 / EEC Rule 2 Annex VIII MDR 2017/745
MATERIALS	**Filter media:** ***Hydrophobic PTFE 1.0µm*** **Frame/Housing Polymer:** ***Clear Styrene-Butadiene Copolymer*** **Colour:** ***Transparent Clear*** **Regulatory Documentation Required:** - Biocompatibility according ISO 10993-1 - ROHS - BSE/TSE - DEHP plasticizer Free and latex free - Aging - REACH - Conflict minerals -
PRODUCT CHARACTERISTICS	**Appearance/Visual** As shown on drawing.

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	Physical/Mechanical Approx. Dimensions: ***65mm diameter x 51.5mm length*** Weight: ***17gm (approx.)*** Interfaces (ex: Input / Output connectors): ***OD 8mm (approx.) and ID 4mm (approx.) hose barbed connectors on both sides*** Operating temperature Range: ***N/A*** Storage temperature Range: ***5 °C to 40 °C*** ***Unidirectional Filter. Flow direction indicated by IN marking on filter face.*** **Biological** Pyrogenicity: ***<0.3 EU/ml*** ***Biocompatibility to ISO10993*** ***Category – Surface device*** ***Contact – Intact skin*** ***Contact Duration - <24hr*** **Functional** Air Flow Rate: ***Min. 37.3l/min @ 5PSI*** (REP 0613/15 with 20% Factor of Safety applied to Min.) Water Break Through Pressure: ***0.8bar (600mmHG) Vacuum for 20s*** (REP 0621/15) Filtration Efficiency: *Filter Efficiency @ 30L/min using DEHS@0.3µm:* ***Min.99.99%*** (REP 0696/16 with Factor of Safety applied to Min.) Pressure Drop: *N/A* Internal Volume: *N/A* Operating Lifetime: ***Refer to Instructions for Use.*** Shelf Lifetime: ***5 years from the date of manufacture.*** *Bacterial Filtration Efficiency in accordance with ASTM F2101-07:* ***Min. 99.999%*** *(Staphylococcus aureus @ 30L /minute)* REP: EXT846022-S01 *Viral Filtration Efficiency in accordance with ASTM F2101-07:* ***Min. 99.999%*** *(Bacteriophage @ 30L/ minute)* REP: EXT846021-S01 **Cleanliness** Device assembled within Class 8 Cleanroom. **Testing** Burst test: ***Min. 32psi*** (REP 0617/15 with 20% Factor of Safety applied to Min.)
INSTRUCTIONS / WARNINGS	*Multi-language IFU available.*
PRODUCT SHELF LIFE	*5 years from the date of manufacture.* *Expiration date and date of manufacture are detailed on the product labelling.*
STERILIZATION	*N/A*

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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.* *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 – Part 1: General requirements - ISO 15223-1.* *High Efficiency Air Filters – BS EN 1822.*
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* ✓ *Product Date* ✓ *Lot Number (OL and 5-digit batch number to trace back to raw materials used)* ✓ *Operator Code* *Different lots in one box are separately closed and separately labelled.* *Bulk products will be packaged in double PE bags*
CERTIFICATE OF COMPLIANCE	*With each shipment, GVS UK Customer Service will send the CofC to the Customer, based on the lot numbers and date of manufacture.* *Conformity declaration is printed on every invoice and Certificate is according to UNI EN 10204 type 2.1.* *The Quality management system is in compliance with ISO 9001, ISO 13485.*
DRAWING	*The attached drawing is part of this product specification and must not be duplicated or made accessible to a third party without written permission from GVS Filter Technology UK Ltd.*

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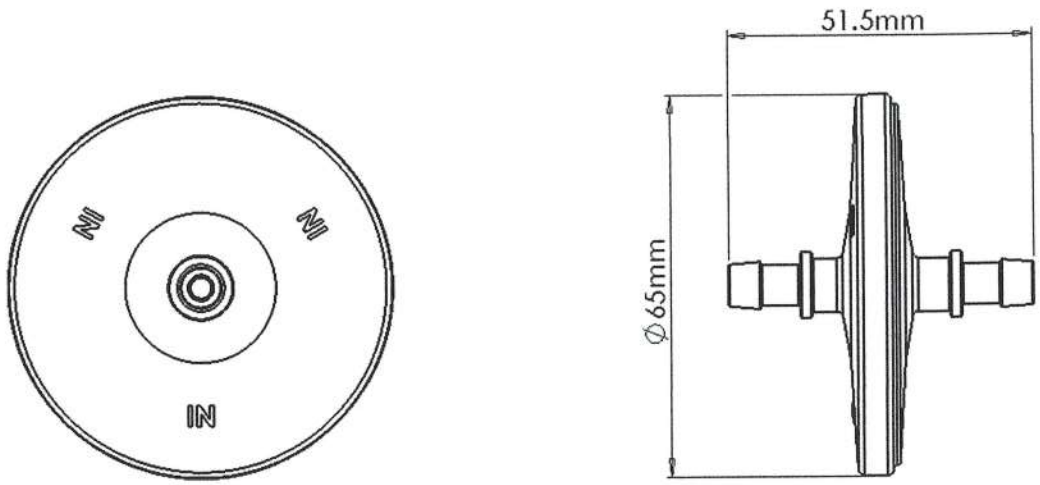

Approximate dimensions for reference only

ACCEPTABLE QUALITY LEVEL

AQL: with sampling Plan: 0.65 AQL to ISO 2859-1

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.

	Acceptance Requirement	AQL	Sampling Plan
1	Black particle contamination	0.65	ISO 2859 Part 1 General Inspection Level 1
2	Damaged/broken item	0.65	
3	Blocked connector/luer	0.65	
4	Short fill moulding	0.65	
5	Rough surface or edges	0.65	
6	Pronounced injection gate	0.65	
7	Deformation/distortion	0.65	
8	Crack	0.65	

	9	Oil/grease	0.65	
	10	Wrong colour	0.65	
	11	Weld fault	0.65	
	12	Weld marks	0.65	

GENERAL SAFETY AND PERFORMANCE REQUIREMENTS

Special characteristic: *Product characteristic which can affect safety or compliance with regulations, fit, function, performance or subsequent processing of product.*

Special Characteristic # 01: *Air Flow rate at 5psi*

Special Characteristic # 02: *Filter Efficiency @ 30L/min using DEHS @ 0.3µm in accordance with High Efficiency Air Filters – BS EN 1822.*

Special Characteristic # 03: *Bacterial Filtration Efficiency in accordance with ASTM F2101-07*

Viral Filtration Efficiency in accordance with ASTM F2101-07

Special Characteristic # 04: *Burst Pressure*

This material specification describes the properties of product above indicated. This document contains general requirements, material description, drawing references, defect specification, biological material requirements.

REVISIONS AND APPROVALS:

DATE	REV.	REASON FOR CHANGE	ISSUED AND CONTROLLED BY: (NAME/FUNCTION/SIGNATURE)	APPROVED BY: (NAME/FUNCTION/SIGNATURE)
29/05/2020	1	Initial release.	Kinga Gawdzik - Engineering Support Technician	Andrew Pearce – Quality Manager

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CUSTOMER APPROVAL:

We accept this material specification as a part of the agreed terms of delivery.

Company Name:

Approved by:

NAME/FUNCTION

SIGNATURE

DATE

COMPANY STAMP

Please send back this document signed for approval. If we will not receive this specification signed, we consider the first order placed as implicit approval.