

Mod. 984
Rev. 05

2200/16 Suction Filter



PRODUCT	Suction Filter	
PRODUCT		
DESCRIPTION	Connectors – 11mm to 15mm hose barbed both sides	
SUMMARY	Flow direction indicated by IN marking on filter face	
	Dimensions: 65mm diameter x 56mm length (Approx.)	
200 C C C C C C C C C C C C C C C C C C	Weight 17g (approx.)	
MANUFACTURER GVS Filter Technology UK		
NAME	NFC House	
	Vickers Industrial Estate	
	Mellishaw Lane, Morecambe	
	Lancashire LA3 3EN - United Kingdom	
	· ·	
	Information	
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	C Hall gvsake gvs.com	
INTENDED USE /	The hydrophobic filter protects surgical suction vacuum pump equipment from contamination.	
APPLICATION		
CLASS OF THE	Disposable medical device - Class IIa	
PRODUCT	Rule 2 Annex IX 93/42 / EEC	
PRODUCT	Rule 6 Annex VIII 2017/745	
MATERIALS	Filter media: Hydrophobic PTFE 1.0um	
Frame/Housing Polymer: Clear Styrene-Butadiene Copolymer		
	Regulatory Documentation Required:	
	I Biocompatibility according ISO 10993-1	
	ITI IMDS	
IFI ROHS		
IVI BSE/TSE		
I♥ DEHP plasticizer Free and latex free		
I□l Aging		
	I⊽I REACH	
All and the second second	Other:	
	IFI N/A IFI Specify:	



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PRODUCT CHARACTERISTICS	Appearance/Visual Aesthetic part: F Yes; F No Finishing: F Trim finishing mirror polished surfaces F Trim finishing mirror polished surfaces F Gross roughness surfaces F As shown on drawing Presence of graphics/Artwork: F No; F Specify: Flash bears admitted: F N/A F Specify: Smaller than 0.15mm Injection gate vestige: F N/A F Specify: Smaller than 0.15mm Black spots admitted (size/area): F N/A F Specify: Refer to the defect list Infiltration into insert admitted: F N/A F Specify: Other: F N/A F Specify: Physical/Mechanical Dimensions: 65mm diameter x 56mm length (approx.) Weight: 17g (approx.) Interfaces (ex: Input / Output connectors): F N/A F Specify: Hose barb OD 11mm and ID 7.9mm (approx.) connectors on both sides Operating temperature Range: N/A Storage temperature Range: 5°C to 40°C Other: F N/A F Specify: Mono-directional filter
	Flow direction indicated by IN marking on filter face Chemical Compatibility to solvents: □ N/A □ Specify: Resistance to weathering: □ N/A □ Specify: Other: □ N/A □ Specify: Biological Sterility: □ N/A □ Specify: Pyrogenicity: □ N/A □ Specify: <0.25 Eu/ml Haemolysis: □ N/A □ Specify:

Toxicity:



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IFIN/A ITI Specify:

Biocompatibility to ISO10993

Category - Surface medical device

Contact - Intact Skin

Contact Duration - < 24hr

Functional

Air Flow Rate:

□ N/A □ Specify: Min 37.3 I/min @ 5PSI (REP 0613/15 with 20% Factor of Safety)

Water Break Through Pressure:

□ N/A □ Specify: **0.8bar (600mmHG) Vacuum for 20s** (REP 0621/15)

Liquid Flow Rate:

IFIN/A ITI Specify:

Bubble Point Pressure:

MN/A MSpecify:

Filtration Efficiency:

□N/A □ Specify:

Filter Efficiency @ 30L/min using DEHS@0.3μm: **Min. 99.99%** (REP 0696/16 with Factor of Safety)

Pressure Drop:

IFIN/A ITI Specify:

Dead Volume:

IFIN/A ITI Specify:

Operating Lifetime:

MN/A IT Specify:

Shelf Lifetime:

□ N/A □ Specify: 5 years from the date of manufacture.

Other:

□N/A □ Specify:

Bacterial Filtration Efficiency in accordance with ASTM F2101-07: Min - 99.999%

(Staphylococcus aureus @ 30L/minute) Lab 846022-S01

Viral Filtration Efficiency in accordance with ASTM F2101-07: Min - 99.999%

(Bacteriophage @ 30L/minute) Lab 846021-S01

Cleanliness

Part cleanliness:

N/A □ Specify:

Clean-room Production required:

□N/A □ Specify: Class 8

Testing

Insert embedding Test:

□N/A □ Specify:

Burst test:

□ N/A □ Specify: *Min. 32psi* (REP 0617/15 with 20% Factor of Safety applied to Minimum)

Leakage:

IPIN/A I□I Specify:

Other:

IVIN/A I Specify:



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INSTRUCTIONS / WARNINGS	IFU – 『N/A 『Required: Specify Languages: 『English 『French 『Italian 『I Spanish 『Portuguese 『German 『Chinese 』 Japanese 『Korean 『Russian 『Other (Specify): Dutch, Swedish, Danish, Norwegian, Finnish, Polish	
PRODUCT SHELF LIFE	5 years from the date of manufacture. Expiration date and date of manufacture are detailed on the product	
STERILIZATION	IFINot required; IFIEtO; IFIGamma; IFIBeta; IFISteam; IFIe-beam	
APPLICABLE STANDARDS AND REGULATIONS	Product Certification required: I CE mark I FDA I Canadian Health I Brazil ANVISA I Argentina ANMAT I NIOSH I Japan I Korea I China I Russia I Other (Specify): 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 Customer Specific Requirements: No Is the Product a safety product? I Yes I No Environment Impact: Have atmosphere emissions, liquid effluents, underground leachables been considered? I Yes I No Energy released (heat, vibration): I Yes I No No I Yes I No I N	
INTELECTUAL PROPERTY AND FUNDING	Intellectual Property: Patents that have been granted or applied for that must be considered. INA ISpecify: Grants: Is the project (partially) funded by public institutions? INA ISpecify:	
PACKAGING AND LABELING	Packaging I Primary: Refer to individual Part Numbers I Secondary: Refer to individual Part Numbers Labelling: I Standard; I Customer specific: Refer to customer specific artwork and labelling UDI: I N/A; I No; I Yes (Specify):	



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	Number of pcs per bag is determined by the Sales order. The first bar-code label is outside the bags. The second bar-code label is stuck outside the box. Each bag is labelled with the following traceability information: Valuantity Product Description Product Date Lot Number (OL and 5 digit batch number to trace back to raw materials used) Poperator 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.	
ACCEPTABLE QUALITY LEVEL	IFI AQL: 0.65 with sampling Plan: ISO 2859 IFI PPM: smaller than IFI Other:	
DRAWING	The attached drawing is part of this material specification and must not be duplicated or made accessible to a third party without prior written permission from GVS Filter Technology UK Ltd. 14.6 ±0.2mm 11.2 ±0.2mm 65.0 ±0.2mm	



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VISUAL REQUIREMENTS

Visual acceptance requirements apply when inspected under the conditions below: Magnification: Unaided eye at a distance of approximately 35-40cm. Illumination: Lighting level must be reasonable for visual detection i.e. 1000Lux Timings: Maximum inspection period per item 25s

	Acceptance Requirement	AQL	Sampling Plan
1	Black particle contamination - loose (≥0.2mm2)	0.65	
2	Surface damage	0.65	
3	Blocked connector / luer	0.65	
4	Weld marks	0.65	
5	Short fill moulding (functional)	0.65	
6	Short fill moulding (non-functional)	0.65	
7	Rough surface or edges	0.65	
8	Pronounced injection gate	0.65	ISO 2859 Part 1
9	Bubble in moulding (max 3 air bubbles)	0.65	
10	Deformation / Distortion	0.65	General Inspection Level 1
11	Crack	0.65	
12	Wrong colour	0.65	
13	Flash	0.65	
14	Weld fault	0.65	
15	Oil / grease	0.65	
16	Flow marks / marbling	0.65	
17	Wrong artwork / printing	0.65	
18	Incomplete or missing membrane	0.65	

GENERAL SAFETY & PERFORMANCE REQUIREMENTS

Bulleted drawing reference:

I N/A I Specify:

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

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.



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REVISIONS AND APPROVALS:

DATE	REV.	REASON FOR CHANGE	ISSUED AND CONTROLLED BY: (NAME/FUNCTION/SIGNATURE)	APPROVED BY: (NAME/FUNCTION/SIGNATURE)
24/10/2019	1	Product characteristics updated	Kinga Gawdzik – Engineering Support Technician	Andrew Pearce – Quality Manager
			Kinga Gandis	

CUSTOMER APPROVAL:					
We accept this material specification as a part of the agreed terms of delivery.					
Company Name	e:				
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.