



Product PN GMD003A01S GMD004A01S GMD005A01S GMD006A01S

Mod. 984e-ext

Description Speedflow® IV Filter Adult 0.2/1.2/0.2+/5.0 μm

Rev. 07

Speedflow® Filter Adult 0.2/1.2/0.2+/5.0 µm



PRODUCT DESCRIPTION	Vented filter for infusion and anaesthesia. The device is sterile and can be used in combination with an infusion set or an infusion device (pump or syringe). The connections are a female luer lock with vented cap inlet and a rotating male luer lock with vented cap outlet, compliant with ISO 80369-7. The device is provided with a vented Speedflow® Adult filter, with an hydrophilic PES membrane with 0.2/1.2/0.2+/5.0 µm pore size for particles retention and a hydrophobic PTFE membrane with 0,03 µm pore size. The filter size (LxWxH) is 30x67x9.6 mm.		
CONFIGURATIONS	GMD003A01S 0.2 μm GMD004A01S 1.2 μm GMD005A01S 0.2+ (positively charged) μm GMD006A01S 5.0 μm		
MANUFACTURER NAME	GVS S.p.A. Via Roma, 50 – 40069 Zola Predosa (BO) – Italy Phone: +39.051.6176311 – Fax: +39.051.6176200 email: gvs@gvs.it – website: www.gvs.com		
INTENDED USE / APPLICATION	Infusion of Drugs (including chemotherapy), Anesthetics, Nutritional Solutions and Saline Solutions. The set can be connected via Luer Locks to all commercially available infusion administration sets compliant with ISO 80369-7. The filter can be used in combination with an infusion set or an infusion device (pump or syringe). The device is intended to retain different particles depending on its filter pore size:		
CLASS OF THE PRODUCT	Class IIa – sterile – single use Rule 3 Annex VIII 2017/472/UE		
EMDN	A04010101 WITHDRAWL AND ADMINISTRATION FILTERS (0.2-1.2 MICRONS) A04010102 ASPIRATION AND TRANSFER FILTERS (>= 5 MICRONS)		
MATERIALS	Filter media: PES Hydrophilic membrane / PTFE Hydrophobic membrane / 0.2+ filters include also Polyethylenimine Filter housing: MBS / PP Caps: HDPE		





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Regulatory Compliance:				
	Biocompatibility a			
	Rohs directive 20			

according to ISO 10993-1

ve 2011/65/UE

DEHP plasticizer Free

Latex free

Reach 1907/2006/CE (hazardous substances regulation)

Reg. 1272/2008/CE (classification, labelling and packaging of substances and mixtures)

PRODUCT CHARACTERISTICS Physical/Mechanical:

Dimensions (LxWxH): 30x67x9.6 mm Total internal volume of the set: $< 2.4 \, \text{ml}$ Weight: 8.86 g

Input/output connectors: Female luer lock with vented cap inlet and rotating male luer lock with

vented cap outlet, compliant with ISO 80369-7

From 5 °C to 40 °C From 0 °C to 40 °C Operating temperature Range: Storage temperature Range:

Maximum applicable pressure: 3.2 bar

≥ 20 ml/min @ 80 cm (31.5 in) water head pressure Flow Rate: 0.2 µm:

1.2 µm: ≥ 180 ml/min @ 80 cm (31.5 in) water head pressure 0.2 µm+: ≥ 20 ml/min @ 80 cm (31.5 in) water head pressure 5.0 μ m: \geq 340 ml/min @ 80 cm (31.5 in) water head pressure

Bubble point: $0.2 \, \mu m$: $3.7 \div 4.8 \, bar$ 1.2 μ m: 0.7 ÷ 1.0 bar 0.2+ µm: 3.7 ÷ 4.8 bar

 $5.0 \, \mu \text{m}$: $0.15 \div 0.3 \, \text{bar}$

Biological:

Biocompatibility: Compliant with ISO 10993-1

Features:

Type of administration: gravity / pressure Duration of the application: 0.2 µm up to 96 hours 1.2 µm up to 24 hours 0.2+ µm uo to 120 hours

Speedflow Adult 0.2/1.2/0.2+/5.0 µm vented

Filter pore size: 0.2/1.2/0.2+/5.0 µm

Filter internal volume: < 2.4 ml

Filter media: hydrophilic PES membrane and hydrophobic PTFE membrane, 0.2+

filters include also Polyethylenimine

PRODUCT SHELF LIFE 5 years

Filter:

STERILIZATION

Sterile: Yes - EtO

Suitable for Sterilization/Re-sterilization: Nο

APPLICABLE STANDARDS AND REGULATIONS

Product Certification:

CE mark

Applicable Standards and Technical Regulations:

EN 556-1 Sterilization of medical devices — Requirements for medical devices to be designated "STERILE"

Part 1: Requirements for terminally sterilized medical devices

EN ISO 8536-4 Infusion equipment for medical use — Part 4: Infusion sets for single use, gravity feed

EN ISO 8536-11 Infusion equipment for medical use — Part 11: Infusion filters for single use with pressure infusion

equipment

EN ISO 8536-13 Infusion equipment for medical use — Part 13: Graduated flow regulators for single use with fluid

contact

EN ISO 8536-14 Infusion equipment for medical use — Part 14: Clamps and flow regulators for transfusion and

infusion equipment without fluid contact

EN ISO 10993-1 Biological evaluation of medical devices — Part 1: Evaluation and testing within a risk management

process





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	EN ISO 10993-4	Biological evaluation of medical devices — Part 4: Selection of tests for interactions with blood					
	EN ISO 10993-5	Biological evaluation of medical devices — Part 5: Tests for in vitro cytotoxicity					
	EN ISO 10993-7	Biological evaluation of medical devices — Part 7: Ethylene oxide sterilization residuals					
	EN ISO 10993-10	Biological evaluation of medical devices — Part 10: Tests for irritation and skin sensitization					
	EN ISO 10993-11	Biological evaluation of medical devices — Part 11: Tests for systemic toxicity					
	EN ISO 10993-18	Biological evaluation of medical devices — Part 18: Chemical characterization of materials					
	EN ISO 10993-23	Biological evaluation of medical devices — Part 23: Tests for irritation					
	EN ISO 11135	Sterilization of health-care products — Ethylene oxide — Requirements for the development, validation and routine control of a sterilization process for medical devices					
	EN ISO 11607-1	Packaging for terminally sterilized medical devices — Part 1: Requirements for materials, sterile barrier systems and packaging systems					
	EN ISO 11607-2	Packaging for terminally sterilized medical devices — Part 2: Validation requirements for forming, sealing and assembly processes					
	EN ISO 13485	Medical devices — Quality management systems — Requirements for regulatory purposes					
	EN ISO 14971	Medical devices — Application of risk management to medical devices					
	EN ISO 15223-1	Medical devices — Symbols to be used with medical device labels, labelling and information to be supplied — Part 1: General requirements					
	EN ISO 20417	Medical devices — Information to be supplied by the manufacturer					
	IEC 62366-1	Medical devices — Part 1: Application of usability engineering to medical devices					
	EN ISO 80369-1	1 Small-bore connectors for liquids and gases in healthcare applications — Part 1: General requirements					
	EN ISO 80369-7	Small-bore connectors for liquids and gases in healthcare applications — Part 7: Connectors for intravascular or hypodermic applications					
	EN ISO 80369-20	Small-bore connectors for liquids and gases in healthcare applications — Part 20: Common test methods					
INSTRUCTIONS FOR USE							
PACKAGING Primary Packaging: Devices are individually packed and label in medical paper bags. Bag Size: 100 X 145 mm							
	Secondary Packaging: Bags are placed inside a microperforated sack.						
	Tertiary Packaging:						
		Carton Box.					
		Box Size: 60 x 40 x 20 cm Box Weight: 6 kg					
		Devices per box: 300					
CERTIFICATIONS	ISO 9001:2015 ISO 13485:2016 CE Certificate (201	7/745/UE)					



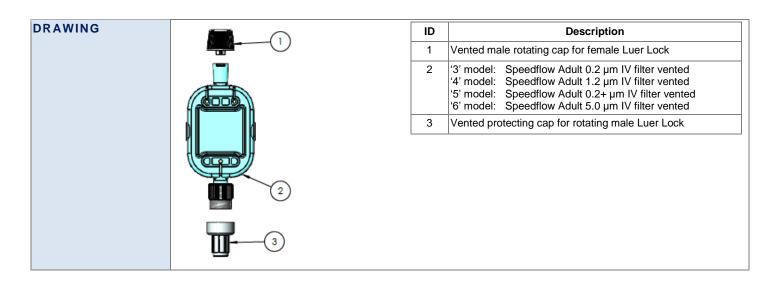


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REVISIONS AND APPROVALS:

DATE	REV.	REASON FOR CHANGE			APPROVED BY: (name/function/signature)
26/02/2023	00	First issue	Barbara Palmieri RA Specialist Bouloudalis	Barbara Finessi QA Manage Fedore Fines	Luca Zanini VP Healthcare and Lifesience