

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: <ul style="list-style-type: none"> ▪ 0.2 µm filter is intended specifically to eliminate air bubbles and to retain particles and bacteria, ▪ 1.2 µm filter is intended specifically to eliminate air bubbles and to retain fungi and microorganisms, ▪ 0.2+ µm filter is intended specifically to eliminate air bubbles and to retain particles, bacteria and endotoxins, ▪ 5.0 µm filter is intended specifically to eliminate air bubbles and to retain particles. The device is a single-use device that can be used applications that last: <ul style="list-style-type: none"> ▪ Devices with 0.2 µm filter: up to 96 hours; ▪ Devices with 1.2 µm filter: up to 24 hours; ▪ Devices with 0.2+ µm filter: up to 120 hours. The device has to be disposed after each therapy. Devices with 0.2/0.2+ µm filter cannot be used for infusion of hyper alimentation liquids, lipids, blood and/or blood derivatives. Devices with 1.2 µm filter cannot be used for infusion of blood and/or blood derivatives. Devices with 5.0 µm filter cannot be used for infusion therapy without further bacterial retention filter. The device should only be supervised and used by qualified healthcare personnel.
CLASS OF THE PRODUCT	Class IIa – sterile – single use Rule 3 Annex VIII 2017/472/UE
REGISTRATION NUMBERS	Italian national database: GMD003A01S 2439205 GMD004A01S 2439207 GMD005A01S 2439208 GMD006A01S 2439210
EMDN	A04010101 WITHDRAWL AND ADMINISTRATION FILTERS (0.2-1.2 MICRONS) A04010102 ASPIRATION AND TRANSFER FILTERS (>= 5 MICRONS)



PRODUCT SPECIFICATION

CE 0051

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MATERIALS	<p>Filter media: PES Hydrophilic membrane / PTFE Hydrophobic membrane / 0.2+ filters include also Polyethylenimine</p> <p>Filter housing: MBS / PP</p> <p>Caps: HDPE</p> <p>Regulatory Compliance:</p> <ul style="list-style-type: none">▪ Biocompatibility according to ISO 10993-1▪ RoHS directive 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	<p>Physical/Mechanical:</p> <p>Dimensions (LxWxH): 30x67x9.6 mm</p> <p>Total internal volume of the set: < 2.4 ml</p> <p>Weight: 8.86 g</p> <p>Input/output connectors: Female luer lock with vented cap inlet and rotating male luer lock with vented cap outlet, compliant with ISO 80369-7</p> <p>Operating temperature Range: From 5 °C to 40 °C</p> <p>Storage temperature Range: From 0 °C to 40 °C</p> <p>Maximum applicable pressure: 3.2 bar</p> <p>Flow Rate:</p> <ul style="list-style-type: none">0.2 µm: ≥ 20 ml/min @ 80 cm (31.5 in) water head pressure1.2 µm: ≥ 180 ml/min @ 80 cm (31.5 in) water head pressure0.2 µm+: ≥ 20 ml/min @ 80 cm (31.5 in) water head pressure5.0 µm: ≥ 340 ml/min @ 80 cm (31.5 in) water head pressure <p>Bubble point:</p> <ul style="list-style-type: none">0.2 µm: 3.7 ÷ 4.8 bar1.2 µm: 0.7 ÷ 1.0 bar0.2+ µm: 3.7 ÷ 4.8 bar5.0 µm: 0.15 ÷ 0.3 bar <p>Biological:</p> <p>Biocompatibility: Compliant with ISO 10993-1</p> <p>Features:</p> <p>Type of administration: gravity / pressure</p> <p>Duration of the application:</p> <ul style="list-style-type: none">0.2 µm up to 96 hours1.2 µm up to 24 hours0.2+ µm up to 120 hours <p>Filter: Speedflow Adult 0.2/1.2/0.2+/5.0 µm vented</p> <p>Filter pore size: 0.2/1.2/0.2+/5.0 µm</p> <p>Filter internal volume: < 2.4 ml</p> <p>Filter media: hydrophilic PES membrane and hydrophobic PTFE membrane, 0.2+ filters include also Polyethylenimine</p>
PRODUCT SHELF LIFE	5 years
STERILIZATION	<p>Sterile: Yes – EtO</p> <p>Suitable for Sterilization/Re-sterilization: No</p>
APPLICABLE STANDARDS AND REGULATIONS	<p>Product Certification: CE mark</p> <p>Applicable Standards and Technical Regulations:</p> <p>EN 556-1 Sterilization of medical devices — Requirements for medical devices to be designated "STERILE" — Part 1: Requirements for terminally sterilized medical devices</p> <p>EN ISO 8536-4 Infusion equipment for medical use — Part 4: Infusion sets for single use, gravity feed</p> <p>EN ISO 8536-11 Infusion equipment for medical use — Part 11: Infusion filters for single use with pressure infusion equipment</p> <p>EN ISO 8536-13 Infusion equipment for medical use — Part 13: Graduated flow regulators for single use with fluid contact</p>



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INSTRUCTIONS FOR USE PACKAGING	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
	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	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
CERTIFICATIONS	Available languages:	English / Italian / German / French / Spanish / Hungarian / Romanian
	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
ISO 9001:2015 ISO 13485:2016 CE Certificate (2017/745/UE)		

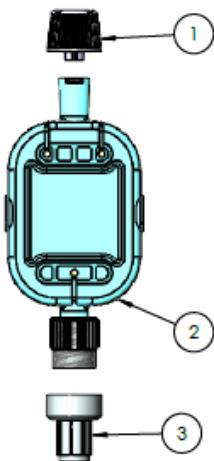
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DRAWING



ID	Description
1	Vented male rotating cap for female Luer Lock
2	'3' model: Speedflow Adult 0.2 µm IV filter vented '4' model: Speedflow Adult 1.2 µm IV filter vented '5' model: Speedflow Adult 0.2+ µm IV filter vented '6' model: Speedflow Adult 5.0 µm IV filter vented
3	Vented protecting cap for rotating male Luer Lock

REVISIONS AND APPROVALS:

DATE	REV.	REASON FOR CHANGE	ISSUED BY: (name/function/signature)	VERIFIED BY: (name/function/signature)	APPROVED BY: (name/function/signature)
14/02/2025	02	Added Hungarian and Romanian translations on labels and IFU	Barbara Palmieri RA Specialist 	Barbara Finessi QA Manage 	Luca Zanini VP Healthcare and Lifescience