

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



<b>PRODUCT DESCRIPTION</b>	<p>Vented filter for infusion and anaesthesia.</p> <p>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.</p> <p>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.</p> <p>The filter size (LxWxH) is 30x67x9.6 mm.</p>								
<b>CONFIGURATIONS</b>	<table> <tr> <td><b>GMD003A01S</b></td><td>0.2 µm</td></tr> <tr> <td><b>GMD004A01S</b></td><td>1.2 µm</td></tr> <tr> <td><b>GMD005A01S</b></td><td>0.2+ (positively charged) µm</td></tr> <tr> <td><b>GMD006A01S</b></td><td>5.0 µm</td></tr> </table>	<b>GMD003A01S</b>	0.2 µm	<b>GMD004A01S</b>	1.2 µm	<b>GMD005A01S</b>	0.2+ (positively charged) µm	<b>GMD006A01S</b>	5.0 µm
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<b>MANUFACTURER NAME</b>	<p><b>GVS S.p.A.</b> Via Roma, 50 – 40069 Zola Predosa (BO) – Italy Phone : +39.051.6176311 – Fax: +39.051.6176200 email: <a href="mailto:gvs@gvs.it">gvs@gvs.it</a> – website: <a href="http://www.gvs.com">www.gvs.com</a></p>								
<b>INTENDED USE / APPLICATION</b>	<p>Infusion of Drugs (including chemotherapy), Anesthetics, Nutritional Solutions and Saline Solutions.</p> <p>The set can be connected via Luer Locks to all commercially available infusion administration sets compliant with ISO 80369-7.</p> <p>The filter can be used in combination with an infusion set or an infusion device (pump or syringe).</p> <p>The device is intended to retain different particles depending on its filter pore size:</p> <ul style="list-style-type: none"> <li>0.2 µm filter is intended specifically to eliminate air bubbles and to retain particles and bacteria,</li> <li>1.2 µm filter is intended specifically to eliminate air bubbles and to retain fungi and microorganisms,</li> <li>0.2+ µm filter is intended specifically to eliminate air bubbles and to retain particles, bacteria and endotoxins,</li> <li>5.0 µm filter is intended specifically to eliminate air bubbles and to retain particles.</li> </ul> <p>The device is a single-use device that can be used applications that last:</p> <ul style="list-style-type: none"> <li>Devices with 0.2 µm filter: up to 96 hours;</li> <li>Devices with 1.2 µm filter: up to 24 hours;</li> <li>Devices with 0.2+ µm filter: up to 120 hours.</li> </ul> <p>The device has to be disposed after each therapy.</p> <p>Devices with 0.2/0.2+ µm filter cannot be used for infusion of hyper alimentation liquids, lipids, blood and/or blood derivatives.</p> <p>Devices with 1.2 µm filter cannot be used for infusion of blood and/or blood derivatives.</p> <p>Devices with 5.0 µm filter cannot be used for infusion therapy without further bacterial retention filter.</p> <p>The device should only be supervised and used by qualified healthcare personnel.</p>								
<b>CLASS OF THE PRODUCT</b>	<p>Class IIa – sterile – single use</p> <p>Rule 3 Annex VIII 2017/472/UE</p>								
<b>REGISTRATION NUMBERS</b>	<p><b>Italian national database:</b></p> <table> <tr> <td><b>GMD003A01S</b></td><td>2439205</td></tr> <tr> <td><b>GMD004A01S</b></td><td>2439207</td></tr> <tr> <td><b>GMD005A01S</b></td><td>2439208</td></tr> <tr> <td><b>GMD006A01S</b></td><td>2439210</td></tr> </table>	<b>GMD003A01S</b>	2439205	<b>GMD004A01S</b>	2439207	<b>GMD005A01S</b>	2439208	<b>GMD006A01S</b>	2439210
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<b>EMDN</b>	<table> <tr> <td><b>A04010101</b></td><td>WITHDRAWAL AND ADMINISTRATION FILTERS (0.2-1.2 MICRONS)</td></tr> <tr> <td><b>A04010102</b></td><td>ASPIRATION AND TRANSFER FILTERS (&gt;= 5 MICRONS)</td></tr> </table>	<b>A04010101</b>	WITHDRAWAL AND ADMINISTRATION FILTERS (0.2-1.2 MICRONS)	<b>A04010102</b>	ASPIRATION AND TRANSFER FILTERS (>= 5 MICRONS)				
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# PRODUCT SPECIFICATION



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MATERIALS	<p><b>Filter media:</b> PES Hydrophilic membrane / PTFE Hydrophobic membrane / 0.2+ filters include also Polyethylenimine</p> <p><b>Filter housing:</b> MBS / PP</p> <p><b>Caps:</b> HDPE</p> <p><b>Regulatory Compliance:</b></p> <ul style="list-style-type: none"><li>▪ Biocompatibility according to ISO 10993-1</li><li>▪ Rohs directive 2011/65/UE</li><li>▪ DEHP plasticizer Free</li><li>▪ Latex free</li><li>▪ Reach 1907/2006/CE (hazardous substances regulation)</li><li>▪ Reg. 1272/2008/CE (classification, labelling and packaging of substances and mixtures)</li></ul>
PRODUCT CHARACTERISTICS	<p><b>Physical/Mechanical:</b></p> <p><b>Dimensions (LxWxH):</b> 30x67x9.6 mm</p> <p><b>Total internal volume of the set:</b> &lt; 2.4 ml</p> <p><b>Weight:</b> 8.86 g</p> <p><b>Input/output connectors:</b> Female luer lock with vented cap inlet and rotating male luer lock with vented cap outlet, compliant with ISO 80369-7</p> <p><b>Operating temperature Range:</b> From 5 °C to 40 °C</p> <p><b>Storage temperature Range:</b> From 0 °C to 40 °C</p> <p><b>Maximum applicable pressure:</b> 3.2 bar</p> <p><b>Flow Rate:</b></p> <p>0.2 µm: ≥ 20 ml/min @ 80 cm (31.5 in) water head pressure</p> <p>1.2 µm: ≥ 180 ml/min @ 80 cm (31.5 in) water head pressure</p> <p>0.2 µm+: ≥ 20 ml/min @ 80 cm (31.5 in) water head pressure</p> <p>5.0 µm: ≥ 340 ml/min @ 80 cm (31.5 in) water head pressure</p> <p><b>Bubble point:</b></p> <p>0.2 µm: 3.7 ÷ 4.8 bar</p> <p>1.2 µm: 0.7 ÷ 1.0 bar</p> <p>0.2+ µm: 3.7 ÷ 4.8 bar</p> <p>5.0 µm: 0.15 ÷ 0.3 bar</p> <p><b>Biological:</b></p> <p><b>Biocompatibility:</b> Compliant with ISO 10993-1</p> <p><b>Features:</b></p> <p><b>Type of administration:</b> gravity / pressure</p> <p><b>Duration of the application:</b></p> <p>0.2 µm up to 96 hours</p> <p>1.2 µm up to 24 hours</p> <p>0.2+ µm up to 120 hours</p> <p>Speedflow Adult 0.2/1.2/0.2+/5.0 µm vented</p> <p><b>Filter:</b></p> <p><b>Filter pore size:</b> 0.2/1.2/0.2+/5.0 µm</p> <p><b>Filter internal volume:</b> &lt; 2.4 ml</p> <p><b>Filter media:</b> hydrophilic PES membrane and hydrophobic PTFE membrane, 0.2+ filters include also Polyethylenimine</p>
PRODUCT SHELF LIFE	5 years
STERILIZATION	<p><b>Sterile:</b> Yes – EtO</p> <p><b>Suitable for Sterilization/Re-sterilization:</b> No</p>
APPLICABLE STANDARDS AND REGULATIONS	<p><b>Product Certification:</b> CE mark</p> <p><b>Applicable Standards and Technical Regulations:</b></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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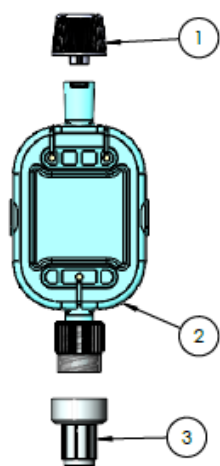


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<b>INSTRUCTIONS FOR USE  PACKAGING</b>	EN ISO 8536-14	Infusion equipment for medical use — Part 14: Clamps and flow regulators for transfusion and infusion equipment without fluid contact
	EN ISO 10993-1	Biological evaluation of medical devices — Part 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
<b>CERTIFICATIONS</b>	<b>Available languages:</b>	English / Italian / German / French / Spanish / Hungarian / Romanian
	<b>Primary Packaging:</b>	Devices are individually packed and label in medical paper bags. Bag Size: 100 X 145 mm
	<b>Secondary Packaging:</b>	Bags are placed inside a microperforated sack.
<b>CERTIFICATIONS</b>	<b>Tertiary Packaging:</b>	Carton Box. Box Size: 60 x 40 x 20 cm Box Weight: 6 kg Devices per box: 300
	<b>ISO 9001:2015</b> <b>ISO 13485:2016</b> <b>CE Certificate (2017/745/UE)</b>	

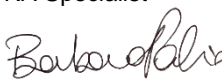
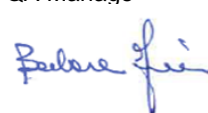
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## DRAWING



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 Lifesience 