

Product PN GIS009A01S GIS010A01S

Mod. 984e-ext

Description HI-FLO IV Set Adult 0.2/1.2 µm

Rev. 07

HI-FLO IV Set Adult with 0.2/1.2 µm Filter and Roller

PRODUCT DESCRIPTION

Infusion set for infusion for intravascular applications. The device is sterile and is for gravity feed infusion only.

The set has a vented IV drip chamber (20 drops/ml) and a male luer lock outlet with ring and protective cap, compliant with ISO 80369-7.

The set is provided with a vented Speedflow® Adult filter, with a hydrophilic PES membrane with 0.2/1.2 µm pore size for particles retention and a hydrophobic PTFE membrane with 0,03 µm pore size.

The set also includes a roller to approximately regulate the flow rate.

The set is provided with a y-injection site, for administration of additional drugs by means of a syringe using the same infusion line, and with a clamp.

The approximate total length of the set is 3646 mm.

The set includes the following components:

- Drip Chamber (20 drops/ml);
- Roller
- Speedflow® Adult 0.2/1.2 µm IV Filter;
- Clamp;
- Y-Injection point;
- Male luer lock outlet with ring and protective cap.

CONFIGURATIONS

GIS009A01S 0.2 µm with roller
GIS010A01S 1.2 µm with roller

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 for intravascular applications.

The set can be connected via Luer Locks to all commercially available infusion administration sets compliant with ISO 80369-7.

The set is for gravity feed infusion.

The set with 0.2 µm filter is intended specifically to eliminate air bubbles and to retain particles and bacteria, while the set with 1.2 µm filter is intended specifically to eliminate air bubbles and to retain fungi and microorganisms.

The set is a single-use device that can be used applications that last:

- Devices with 0.2 µm filter: up to 96 hours;
- Devices with 1.2 µm filter: up to 24 hours.

The set has to be disposed after each therapy.

Sets with 0.2 µm filter cannot be used for infusion of hyper alimentation liquids, lipids, blood and/or blood derivatives.

Sets with 1.2 µm filter cannot be used for infusion of blood and/or blood derivatives.

The device should only be supervised and used by qualified healthcare personnel.

CLASS OF THE PRODUCT

Class IIa – sterile – single use
Rule 2 and 3 Annex VIII 2017/472/UE

REGISTRATION NUMBERS

Italian national database:

GIS009A01S 2439326

GIS010A01S 2439328

EMDN

A03010102 INFUSION CONTROLLERS WITH FILTER (ALSO TRANSFUSION CONTROLLERS)

MATERIALS

Filter media: PES Hydrophilic membrane / PTFE Hydrophobic membrane

Filter housing: MBS

Tubes: PVC (DEHP Free)



PRODUCT SPECIFICATION

CE 0051

Product PN GIS009A01S GIS010A01S

Mod. 984e-ext

Description HI-FLO IV Set Adult 0.2/1.2 µm

Rev. 07

	<p>Roller: HDPE</p> <p>Drip Chamber: ABS / PVC (DEHP Free) / LDPE / HDPE / PA6.6 / NY</p> <p>Y-injection: SEBS / MABS</p> <p>Clamp: PP / LDPE</p> <p>Luer Lock: MABS / 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/EU▪ 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>Approximate total length: 3646 mm</p> <p>Total internal volume of the set: 25.6 ml</p> <p>Weight (approx.): 36 g</p> <p>Input/output connectors: Male luer lock outlet with ring and protective cap 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>Biological:</p> <p>Biocompatibility: Compliant with ISO 10993-1</p> <p>Features:</p> <p>Type of administration: gravity</p> <p>Duration of the application: 0.2 µm up to 96 hours 1.2 µm up to 24 hours</p> <p>Filter: Speedflow Adult 0.2/1.2 µm vented</p> <p>Filter pore size: 0.2/1.2 µm</p> <p>Filter internal volume: < 2.4 ml</p> <p>Filter media: hydrophilic PES membrane and hydrophobic PTFE membrane</p> <p>Flow Regulator: No</p> <p>Drip Chamber: Yes – 20 drops / ml</p> <p>Roller: Yes</p> <p>Y-injection site: Yes</p> <p>Clamp: Yes</p> <p>Tubing: PVC tube – inner Ø 3.0 mm / outer Ø 4.1 mm</p>
PRODUCT SHELF LIFE	5 years
STERILIZATION	Sterile: Yes – EtO Suitable for Sterilization/Re-sterilization: No
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 8536-14 Infusion equipment for medical use — Part 14: Clamps and flow regulators for transfusion and infusion equipment without fluid contact</p> <p>EN ISO 10993-1 Biological evaluation of medical devices — Part 1: Evaluation and testing within a risk management process</p> <p>EN ISO 10993-4 Biological evaluation of medical devices — Part 4: Selection of tests for interactions with blood</p> <p>EN ISO 10993-5 Biological evaluation of medical devices — Part 5: Tests for in vitro cytotoxicity</p>



PRODUCT SPECIFICATION

CE 0051

Product PN GIS009A01S GIS010A01S

Mod. 984e-ext

Description HI-FLO IV Set Adult 0.2/1.2 µm

Rev. 07

	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
INSTRUCTIONS FOR USE	Available languages:	English / Italian / German / French / Spanish / Hungarian / Romanian
PACKAGING	Primary Packaging:	Devices are individually packed and label in medical paper bags. Bag Size: 150 X 250 mm
	Secondary Packaging:	Bags are placed inside a microperforated sack.
	Tertiary Packaging:	Carton Box. Box Size: 60 x 40 x 20 cm Box Weight: 2.5 Kg Devices per box: 70
CERTIFICATIONS	ISO 9001:2015 ISO 13485:2016 CE Certificate (2017/745/UE)	

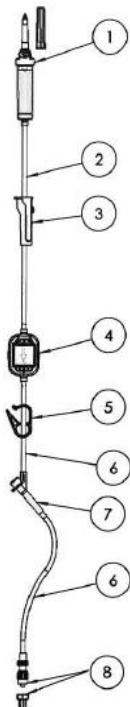
Product PN GIS009A01S GIS010A01S

Mod. 984e-ext

Description HI-FLO IV Set Adult 0.2/1.2 µm

Rev. 07

DRAWING



ID	Description
1	Drip Chamber 20 drops/ml
2	Tube 150 cm – inner Ø 3.0 mm / outer Ø 4.1 mm
3	Roller
4	'9' model: Speedflow Adult 0.2 µm IV filter '10' model: Speedflow Adult 1.2 µm IV filter
5	Clamp
6	Tube 15 cm – inner Ø 3.0 mm / outer Ø 4.1 mm
7	Y-Injection site
8	Male Luer Lock with ring and protective cap Ø 4.1 mm

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