PRODUCT SPECIFICATION

CE₀₀₅₁

Rev. 07

Mod. 984e-ext

Product PN GIS009A01S GIS010A01S

Description HI-FLO IV Set Adult 0.2/1.2 µm

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 an hydrophilic PES membrane with 0.2/1.2 µm pore siz 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: <u>gvs@gvs.it</u> – website: <u>www.gvs.com</u>				
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. 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				
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) Roller: HDPE Drip Chamber: ABS / PVC (DEHP Free) / LDPE / HDPE / PA6.6 / NY Y-injection: SEBS / MABS Clamp: PP / LDPE				



CE₀₀₅₁

Rev. 07

Mod. 984e-ext

Product PN GIS009A01S GIS010A01S

Description HI-FLO IV Set Adult 0.2/1.2 µm

		MABS / PP HDPE					
	Regulatory Compliance: 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	Physical/Mechanical:						
CHARACTERISTICS			3646 mm 25.6 ml 36 g Male luer lock outlet with ring and protective cap compliant with ISO 80369-7 From 5 °C to 40 °C				
	Storage temperature Range:		From 0 °C to 40 °C				
	Biological: Biocompatibility:		Compliant with ISO 10993-1				
	Features: Type of administration: Duration of the application:		gravity 0.2 μm up to 96 hours 1.2 μm up to 24 hours				
	Filter: Filter pore size: Filter internal volume:		Speedflow Adult 0.2/1.2 µm vented				
			0.2/1.2 μm < 2.4 ml				
	Filter media:		hydrophilic PES membrane and hydrophobic PTFE membrane				
	Flow Regulator:		No				
	Drip Chamber: Roller:		Yes – 20 drops / ml Yes				
	Y-injection site:		Yes				
	Clamp: Tubing:		Yes PVC tube – inner Ø 3.0 mm / outer Ø 4.1 mm				
PRODUCT SHELF LIFE	5 years						
STERILIZATION	Sterile:		Yes – EtO				
	Suitable for Steriliz	zation/Re-sterilization:	No				
APPLICABLE STANDARDS AND	Product Certification: CE mark						
REGULATIONS	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 8536-14	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 n	nedical devices — Part 4: Selection of tests for interactions with blood				
	EN ISO 10993-5	•	nedical devices — Part 5: Tests for in vitro cytotoxicity				
	EN ISO 10993-7	Biological evaluation of n	nedical devices — Part 7: Ethylene oxide sterilization residuals				
	EN ISO 10993-4 EN ISO 10993-5	process Biological evaluation of n Biological evaluation of n	nedical devices — Part 4: Selection of tests for interactions with blood nedical devices — Part 5: Tests for in vitro cytotoxicity				



CE₀₀₅₁

Product PN GIS009A01S GIS010A01S

Mod. 984e-ext

Rev. 07

Description HI-FLO IV Set Adult 0.2/1.2 µm

r	-					
	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	SO 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					
PACKAGING	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 (201					



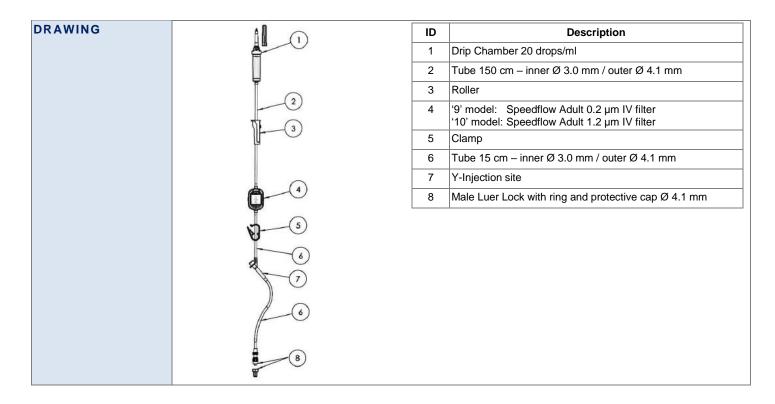
CE 0051

Product PN GIS009A01S GIS010A01S

Mod. 984e-ext

Rev. 07

Description HI-FLO IV Set Adult 0.2/1.2 µm



REVISIONS AND APPROVALS:

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