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Product PN GSS051A01S GSS053A01S GSS052A01S GSS054A01S

Mod. 984e-ext

Description HI-FLO Extension Set Neonatal 0.2/0.2+/1.2/5.0 μm

Rev. 07

HI-FLO Extension Set Neonatal with 0.2/0.2+/1.2/5.0 µm Filter



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Infusion extension set for infusion for intravascular applications.

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 male luer lock with cap outlet, compliant with ISO 80369-7

The set is provided with a vented Speedflow® Neonatal filter, with an hydrophilic PES membrane with 0.2/0.2+/1.2/5.0 µm pore size for particles retention and a hydrophobic PTFE membrane with 0,03 µm pore size.

The set is provided with a plate clamp.

The approximate total length of the set is 209 mm.

The set includes the following components:

- Female luer lock with vented cap inlet;
- Clamp;
- Rotating male luer lock with cap outlet.

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GSS051A01S 0.2 µm filter 0.2+ µm filter 0.2+ µm filter 1.2 µm filter 5.0 µm filter

MANUFACTURER NAME

GVS SpA

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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 can be used either for gravity or in combination with an infusion set or an infusion device (pump or syringe). The set is intended to retain different particles depending on its filter pore size:

- 0.2 µm filter is intended specifically to eliminate air bubbles and to retain particles and bacteria,
- 0.2+ μm filter is intended specifically to eliminate air bubbles and to retain particles, bacteria and endotoxins,
- 1.2 µm filter is intended specifically to eliminate air bubbles and to retain fungi and microorganisms,
- 5.0 µm filter is intended specifically to eliminate air bubbles and to retain particles.

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;
- Devices with 0.2+ μm filter: up to 120 hours.

The set has to be disposed after each therapy.

Sets with 0.2/0.2+ 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.

Sets 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 2 and 3 Annex VIII 2017/472/UE





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EMDN	A03020101 LOW PRESSURE EXTENSION LINES					
MATERIALS	Filter housing: Tubes: Luer Lock: Caps: Regulatory Complia Biocompatil Rohs direct DEHP plast Latex free Reach 1907	atibility according to ISO 10993-1 ective 2011/65/UE asticizer Free				
 Reach 1907/2006/CE (hazardous se 		ength: ne of the set: ctors: ure Range: e Range: e pressure: ion: lication:				
PRODUCT SHELF LIFE	Tubing: 5 years					
STERILIZATION	Sterile:		Yes – EtO			
	Suitable for Steriliza	ation/Re-sterilization:	No			
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"					
			for terminally sterilized medical devices redical use — Part 4: Infusion sets for single use, gravity feed			
	EN ISO 8536-9 Infusion equipment for medical use — Part 9: Fluid lines for single use with pressure infusion equipment					





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ISO 9001:2015							
	Tertiary Packaging	Carton Box. Box Size: 60 x 40 x 20 cm Box Weight: 3 kg Devices per box: 300					
	Secondary Packaging: Bags are placed inside a microperforated sack.						
, nonnomo	Devices are individually packed and label in medical paper bags. Bag Size: 130 X 200 mm						
PACKAGING	Primary Packaging						
INSTRUCTIONS FOR USE	Available languages English / Italiar	s: n / German / French / Spanish					
	EN ISO 80369-20	Small-bore connectors for liquids and gases in healthcare applications — Part 20: Common test methods					
	EN ISO 80369-7	Small-bore connectors for liquids and gases in healthcare applications — Part 7: Connectors for intravascular or hypodermic applications					
	EN ISO 80369-1	Small-bore connectors for liquids and gases in healthcare applications — Part 1: General requirements					
	IEC 62366-1	Medical devices — Part 1: Application of usability engineering to medical devices					
	EN ISO 20417	Medical devices — Information to be supplied by the manufacturer					
	EN ISO 15223-1	5223-1 Medical devices — Symbols to be used with medical device labels, labelling and information to be supplied - Part 1: General requirements					
	EN ISO 14971	Medical devices — Application of risk management to medical devices					
	EN ISO 13485	Medical devices — Quality management systems — Requirements for regulatory purposes					
	EN ISO 11607-2	Packaging for terminally sterilized medical devices — Part 2: Validation requirements for forming, sealing and assembly processes					
	EN ISO 11607-1	Packaging for terminally sterilized medical devices — Part 1: Requirements for materials, sterile barrier systems and packaging systems					
	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 10993-23	Biological evaluation of medical devices — Part 23: Tests for irritation					
	EN ISO 10993-18	Biological evaluation of medical devices — Part 18: Chemical characterization of materials					
	EN ISO 10993-11	Biological evaluation of medical devices — Part 11: Tests for systemic toxicity					
	EN ISO 10993-10	Biological evaluation of medical devices — Part 10: Tests for irritation and skin sensitization					
	EN ISO 10993-7	Biological evaluation of medical devices — Part 7: Ethylene oxide sterilization residuals					
	EN ISO 10993-5	Biological evaluation of medical devices — Part 5: Tests for in vitro cytotoxicity					
	EN ISO 10993-4	Biological evaluation of medical devices — Part 4: Selection of tests for interactions with blood					
	EN ISO 10993-1	Biological evaluation of medical devices — Part 1: Evaluation and testing within a risk management process					
	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 8536-11	Infusion equipment for medical use — Part 11: Infusion filters for single use with pressure infusion equipment					



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DRAWING	1	ID	Description
		1	Vented male rotating cap for Female Luer Lock
	3 1 2	2	Female luer lock connector Ø 2
		3	Tube 5 cm – inner Ø 1.0 mm / outer Ø 2.0 mm
		4	'51' model: Speedflow Neonatal 0.2 μm IV filter '52' model: Speedflow Neonatal 0.2+ μm IV filter '53' model: Speedflow Neonatal 1.2 μm IV filter '54' model: Speedflow Neonatal 5.0 μm IV filter
		5	Tube 10 cm – inner Ø 1.0 mm / outer Ø 2.0 mm
	0.1700	6	Plate clamp
		7	Male luer lock connector Ø 2 mm
		8	Cap for male luer lock
	7		

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 Boulouglalis	Barbara Finessi QA Manage	Luca Zanini VP Healthcare and Lifesience