



Product PN GSS013A02S GSS013B02S GSS014A02S GSS014B02S

Mod. 984e-ext

Rev. 07

# HI-FLO Extension Set Pediatric with 0.2/1.2 µm Filter

PRODUCT DESCRIPTION	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 ('A' model) or male luer lock with ring and protective cap ('B' model) outlet, compliant with ISO 80369-7  The set is provided with a vented Speedflow® Pediatric filter, with an 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 approximate total length of the set is 437 mm.  The set includes the following components:  Female luer lock with vented cap inlet;  Speedflow Pediatric 0.2/1.2 µm IV Filter;  Male luer lock with cap/with ring and protective cap outlet.		
CONFIGURATIONS	GSS013A02S GSS014A02S GSS014B02S 0.2 μm with male luer lock with cap outlet 1.2 μm with male luer lock with cap outlet 0.2 μm with male luer lock with ring and protective cap outlet 1.2 μm with male luer lock with ring and protective cap outlet		
MANUFACTURER NAME	GVS SpA Via Roma, 50 40069 Zola Predosa (BO) – ITALY Phone: +39.051.6176311 – Fax: +39.051.6176200 e-mail: gvs@gvs.it – website: www.gvs.com		
INTENDED USE / APPLICATION	Infusion of Drugs (including chemotherapy), Anesthetics, Nutritional Solutions and Saline Solutions 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 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	A03020101 LOW PRESSURE EXTENSION LINES		
MATERIALS	Filter media: PES Hydrophilic membrane / PTFE Hydrophobic membrane Filter housing: MBS Tubes: PVC (DEHP Free) Luer Lock: PVC / MABS Caps: HDPE  Regulatory Compliance:  Biocompatibility according to ISO 10993-1 Rohs directive 2011/65/UE DEHP plasticizer Free		





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		07/2006/CE (hazardous su	bstances regulation) abelling and packaging of substances and mixtures)		
PRODUCT CHARACTERISTICS	Physical/Mechanical:		437 mm 10 ml 10.5 g Female luer lock with vented cap inlet compliant with ISO 80369-7 'A' model: Male luer lock with cap outlet compliant with ISO 80369-7 'B' model: Male luer lock with ring and protective cap outlet compliant		
	Operating temperature Range: Storage temperature Range: Maximum applicable pressure:		with ISO 80369-7 From 5°C to 40°C From 0°C to 40°C 3,2 bar		
	Biological: Biocompatibility:		Compliant with ISO 10993-1		
	Features: Type of administra Duration of the ap  Filter: Filter pore size: Filter internal volu Filter media: Flow Regulator: Drip Chamber: Roller: Y-injection site: Clamp: Tubing:	plication:	gravity / pressure 0.2 µm up to 96 hours 1.2 µm up to 24 hours Speedflow Pediatric 0.2/1.2 µm vented 0.2/1.2 µm <1.3 ml hydrophilic PES membrane and hydrophobic PTFE membrane No No No No No No PVC tube – inner Ø 3.0 mm / outer Ø 4.1 mm		
PRODUCT SHELF LIFE	5 years				
STERILIZATION	Sterile:		Yes – EtO		
	Suitable for Sterilization/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"  — Part 1: Requirements for terminally sterilized medical devices				
	EN ISO 8536-4	•	nedical 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			
	EN ISO 8536-11	Infusion equipment for medical use — Part 11: Infusion filters for single use with pressure infusion equipment			
	EN ISO 10993-1	Biological evaluation of medical devices — Part 1: Evaluation and testing within a risk managemen process			
	EN ISO 10993-4	Biological evaluation of medical devices — Part 4: Selection of tests for interactions with blood			
	EN ISO 10993-5	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	•	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				
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	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			
PACKAGING	Primary Packaging:  Devices are individually packed and label in medical paper bags.  Bag Size: 130 X 200 mm  Secondary Packaging:  Bags are placed inside a microperforated sack.			
	Tertiary Packaging	Carton Box.  Box Size: 60 x 40 x 20 cm  Box Weight: 1.75 Kg  Devices per box: 100		
CERTIFICATIONS	ISO 9001:2015 ISO 13485:2016 CE Certificate (201	7/745/UE)		





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DRAWING		ID	Description
		1	Vented male rotating cap for Female Luer Lock
	(2)	2	Female Luer Lock connector Ø 4.1 mm
		3	Tube 15 cm – inner Ø 3.0 mm / outer Ø 4.1 mm
		4	'3' model: Speedflow Pediatric 0.2 μm IV filter '4' model: Speedflow Pediatric 1.2 μm IV filter
	3 (4)	5	'A' model: Male luer lock with cap 'B' model: Male luer lock with ring and protective cap
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#### **REVISIONS AND APPROVALS:**

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