PRODUCT SPECIFICATION

CE

Product PN	**GSS016A02S GSS017A02S GSS018A02S GSS019A02S GSS016B02S GSS017B02S GSS018B02S GSS019B02S**	**Mod. 984e-ext**
Description	**HI-FLO Extension Set Easydrop®/Eurodrop® single/double scale**	**Rev. 07**

HI-FLO Extension Set with Regulator

PRODUCT DESCRIPTION	Infusion extension set for infusion for intravascular applications. The device is sterile and is for gravity feed infusion only. The connections are a female luer lock with vented cap inlet and a male luer lock with cap ('A') or male luer lock with ring and protective cap ('B' model) outlet, compliant with ISO 80369-7. The set is provided with a flow regulator Easydrop®/Eurodrop® single/double scale, to approximately regulate the flow rate. The approximate total length of the set is 435 mm. The set includes the following components: ▪ Female luer lock with vented cap inlet; ▪ Flow regulator Easydrop®/Eurodrop® single/double scale, ▪ Male luer lock with cap/with ring and protective cap outlet.
CONFIGURATIONS	**GSS016A02S** Easydrop® single scale with male luer lock with cap outlet **GSS017A02S** Easydrop® double scale with male luer lock with cap outlet **GSS018A02S** Eurodrop® single scale with male luer lock with cap outlet **GSS019A02S** Eurodrop® double scale with male luer lock with cap outlet **GSS016B02S** Easydrop® single scale with male luer lock with ring and protective cap outlet **GSS017B02S** Easydrop® double scale with male luer lock with ring and protective cap outlet **GSS018B02S** Eurodrop® single scale with male luer lock with ring and protective cap outlet **GSS019B02S** Eurodrop® double scale 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 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 is a single-use device and has to be disposed after each therapy. The device should only be supervised and used by qualified healthcare personnel.
CLASS OF THE PRODUCT	Class Is – sterile – single use Rule 2 Annex VIII 2017/472/UE
REGISTRATION NUMBERS	**Italian national database:** **GSS016A02S** 2548918 **GSS017A02S** 2439494 **GSS018A02S** 2439495 **GSS019A02S** 2439496 **GSS016B02S** 2439497 **GSS017B02S** 2439498 **GSS018B02S** 2439499 **GSS019B02S** 2439500
EMDN	**A03020101** LOW PRESSURE EXTENSION LINES
MATERIALS	**Tubes:** PVC (DEHP Free) **Flow Regulator:** SEBS / ABS / Alkyl Polysiloxane **Luer Lock:** MABS

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	Caps: HDPE / PE **Regulatory Compliance:** ▪ Biocompatibility according to ISO 10993-1 ▪ Rohs directive 2011/65/UE ▪ 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	**Physical/Mechanical:** **Approximate total length:** 435 mm **Total internal volume of the set:** 7 ml **Weight:** 13.9 g **Input/output connectors:** 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 with ISO 80369-7 **Operating temperature Range:** 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:** gravity **Duration of the application:** N.A. The device must be disposed after each therapy. **Filter:** No **Flow Regulator:** Easydrop®/Eurodrop® single/double scale **Drip Chamber:** No **Roller:** No **Y-injection site:** No **Clamp:** No **Tubing:** 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 — Infusion equipment for medical use — Part 4: Infusion sets for single use, gravity feed EN ISO 8536-13 — Infusion equipment for medical use — Part 13: Graduated flow regulators for single use with 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

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	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 Kg Devices per box: 100
CERTIFICATIONS	**ISO 9001:2015** **ISO 13485:2016** **CE Certificate (2017/745/UE)**	

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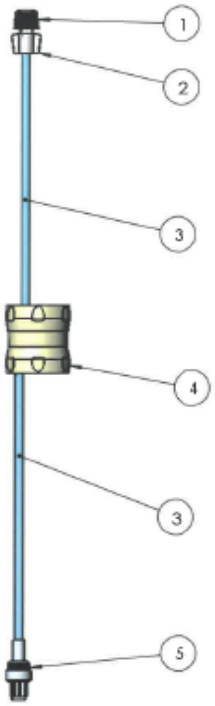
DRAWING



ID	Description
1	Vented male rotating cap for female Luer Lock
2	Female Luer Lock connector Ø 4.1 mm
3	Tube 15 cm – inner Ø 3.0 mm / outer Ø 4.1 mm
4	'16' model: Flow Regulator Easydrop® single scale '17' model: Flow Regulator Easydrop® double scale '18' model: Flow Regulator Eurodrop® single scale '19' model: Flow Regulator Eurodrop® double scale
5	Y-Injection site
6	'A' model: Male luer lock with cap Ø 4.1 mm 'B' model: 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