

Safe

Simple



Cardiovascular
risk management

Diabetes
complications

High bleeding
risk management

Biocompatible and ergonomic BIOLINE



Advancing therapies

HOSPITAL

Made for you and your patients

Over the years, our company has worked in close cooperation with dialysis clinics, so we understand the crucial need for patient safety and clinician ease of use. We have extensive experience in researching, developing and manufacturing quality blood tubing sets that meet your individual clinic and patient needs.

Simpler handling and traceability

A clinician-inspired feature on Hospal bloodlines is the new packaging label, which can be peeled off and permanently attached to patient records. Also included is an electronic bar-code for online data management for complete traceability from production to patient.



Smart product features

Attention to detail is key and Hospal bloodlines contain many time-saving and ease-of-use features to minimize the time spent handling equipment. And maximize the time spent with patients.



Injection port

Latex-free protective wings to prevent needle sticks, validated for sharp or blunt needles.



Dialyzer connectors

A clear lining in the color-coded connectors of the dialyzers ensures that a patient's blood never comes in contact with chemical dyes or colorants.

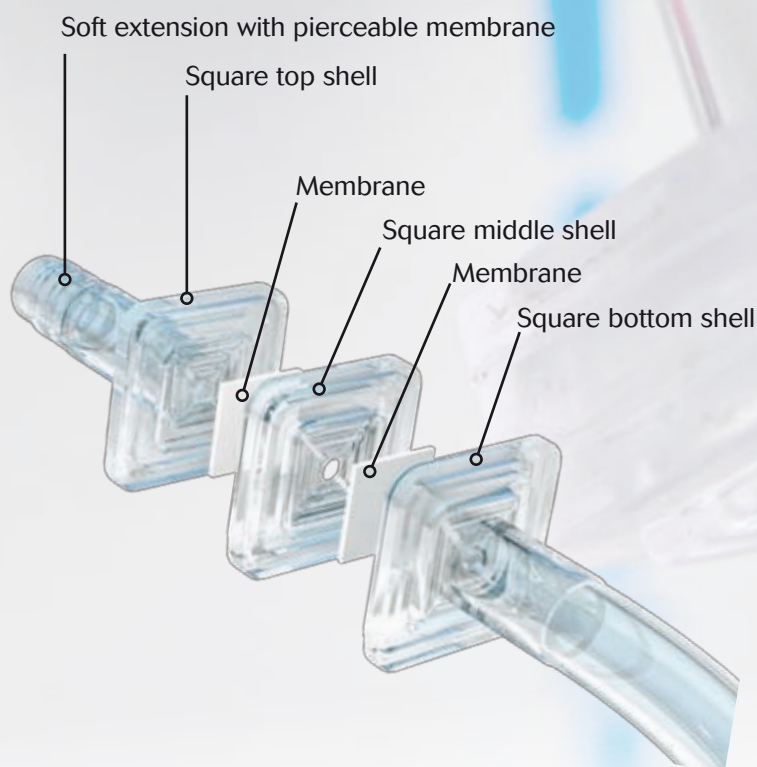


Pinch clamps

Easy to handle

State-of-the-art pressure transducer protector

Pressure transducer protectors are crucial components on bloodlines—as well as being an important pressure measuring connection point, they are a defence against blood contamination. Hospal offers secure pressure transducer connections with a two-membrane protector, the 2M PROTECT TP® transducer, ensuring even greater safety, as well as better handling for staff.



Assured quality

Manufacturing expertise

With over two decades of experience in the production of bloodlines, our company has developed a technical expertise that guarantees continuous product adaptation and a constantly high level of quality. Its technologically advanced production process is highly automated and includes a large number of quality control mechanisms.

Our company operates within the framework of a total quality system, the application of which, in accordance with ISO 13485, is certified by independent bodies such as BSI (EC Certificate N° 52479—notified body number 0086).

Complete vertical integration of the production chain

Thanks to complete vertical integration of production processes, we can assure high quality through each and every step in the manufacture of our blood tubing systems.



- **Main production site:** Gambro Dasco, Mirandola (Italy)
—1964 founded. One of the world's biggest producers of blood tubing with over 30 million pieces per year.
- **Location:** middle of the Italian "PVC Valley" (near Bologna)
—the world's biggest center of PVC processing for the medical sector.
- **Quality:** Complete in-house Quality Management system—from PVC compounding to sterilization.
- **New production site:** Gambro Czech Republic S.r.o, Meopta Industrial Park, Prerov. Manual and automatic final assembly of bloodlines.
- **Asia-Pacific production:** Gambro Shanghai, China. 5000 m² facility for extrusion, injection molding, assembly and sterilization (steam and ethylene oxide).

PVC
compounding



Tubing
extrusion



Component
molding



Components
assembly



Packaging



Sterilization



Storage

Medical grade materials

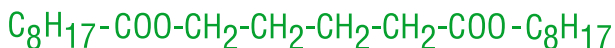
The polymers that our company has selected for the manufacturing of bloodline components meet the most stringent Pharmacopoeia and ISO standards for medical devices.

Moreover, as part of a strategy for DEHP plasticizer replacement, the majority of models in our bloodlines program have soft parts made using DEHP-free patented formulations. These materials, specifically developed for their intended use, include DEHA (Di-Ethyl-Hexyl-Adipate) as an alternative plasticizer and are free of any unnecessary additives, such as those used to make lines appear more attractive.

All the components, including injection sites, are latex-free so that sensitive patients will not be exposed to adverse sensitizing reactions. Raw materials are also selected by our company for their high mechanical stability (e.g. kink-resistance of the blood transportation tubing and improved flow rate performance of the pump segment), necessary to meet the challenges of today's hemodialysis.



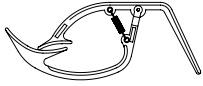
PVC + DEHA plasticizer



DI-Ethyl-Hexyl-Adipate

- PVC+DEHA (Di-Ethyl-Hexyl-Adipate)
- Sterilized by electron-beam (Beta) radiation
- Reduced plasticizer accumulation in patients' blood
- Improved mechanical stability
- No ethylene oxide (EtO) residues, non-radioactive source
- Innovative components

Accessories



DAS-260

101958

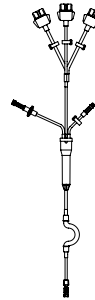
Fistula Pressing Clamp

Sterilization: Unsterile

DEHP-free

LATEX-free

Fistula compression tool to use when fistula needles are withdrawn to stop the bleeding



MH-270G

109351

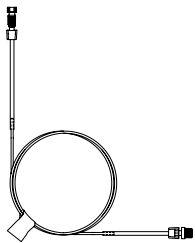
Re-Infusion Line

Sterilization: E-Beam

DEHP-free

LATEX-free

Re-infusion line to be used for AFB



HINT-395G

104295

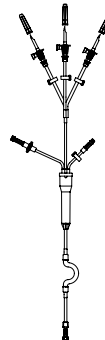
Extension Line

Sterilization: E-Beam

DEHP-free

LATEX-free

Heater line to be used with Integra external heater device



MH277/SP332G

109725

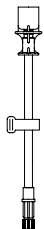
Re-Infusion Line

Sterilization: E-Beam

DEHP-free

LATEX-free

Re-infusion line for AFB/ low volume HDF with Integra machine, with spikes



MF-103

100304

Adaptor

Sterilization: EtO

DEHP-free

LATEX-free

Integra auto priming device for directing priming fluid from venous line to dialysis fluid side of dialyzer



SP-176

101422

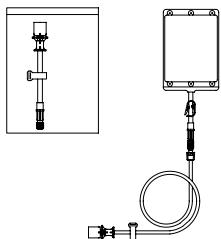
Spike

Sterilization: EtO

DEHP-free

LATEX-free

Spike air vented when bottles are used



MF-108BE

101040

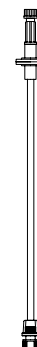
Rinsing Kit

Sterilization: EtO

DEHP-free

LATEX-free

Integra auto priming kit to prime the dialysis fluid side of the dialyzer with saline



SP-221

100583

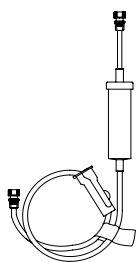
Transducer Protector

Sterilization: EtO

DEHP-free

LATEX-free

Line with pressure transducer protector (50 cm) when a transducer protector needs to be changed/added



SP-235

103223

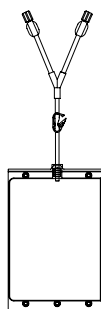
Infusion Line

Sterilization: EtO

DEHP-free

LATEX-free

Infusion line (120 cm) for priming/saline infusion



SP-C28

109228

Drain Bag

Sterilization: EtO

DEHP-free

LATEX-free

Priming waste bag with Y-connector, for priming recirculation



SP-27

101957

Adapter

Sterilization: EtO

DEHP-free

LATEX-free

Connector Female/Female luer (8 cm) to be used eg. when pause treatment (recirculation) is required



SP-C35

106024

Transducer Protector

Sterilization: EtO

DEHP-free

LATEX-free

Pressure transducer protector (rigid connection) when only the protector needs to be changed/added



SP-339G

107472

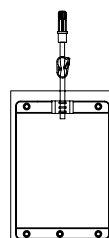
Infusion Line

Sterilization: E-Beam

DEHP-free

LATEX-free

Infusion line (100 cm) for priming/saline infusion



SP-C36

100922

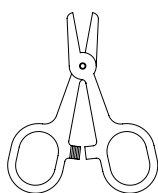
Drain Bag

Sterilization: EtO

DEHP-free

LATEX-free

Priming waste bag, 3 L



SP-39

101964

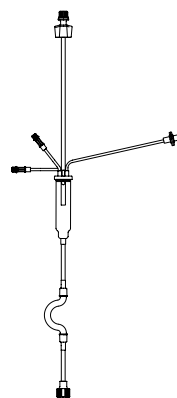
Klemmer

Sterilization: Unsterile

DEHP-free

LATEX-free

Occlusive Plastic Clamp



V-101G

100352

Double Pump Extension

Sterilization: E-Beam

DEHP-free

LATEX-free

Double pump extension for Integra machine to be used when urgently switching to single needle/double pump mode



SP-C13

101593

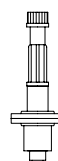
Spike

Sterilization: EtO

DEHP-free

LATEX-free

Spike unvented when bags are used



VP-2

101960

Transducer Protector

Sterilization: EtO

DEHP-free

LATEX-free

Pressure transducer protector (soft connection) when only the protector needs to be changed/added

A bloodline for every patient

Advancing therapies

INTEGRA (ALPHA) HD/HDF—Adult

	Machines	Treatment	Family	Total length (cm)	Total volume (cc)	Venous chamber diameter	Hemoscan couvette	2M-PROTECTOR-TP or double TP's	Sterilization
BIOA72/HINT-CAC1SG	INTEGRA (ALPHA)	HD	Arterial line	353	87	n.a.	N	N	E-Beam
HINT-CAC17 DG	INTEGRA (ALPHA)	HD	Arterial line	353	87.4	n.a.	Y	Y	E-Beam
HINT-CAC23DG	INTEGRA (ALPHA)	HD	Arterial line	339	85.2	n.a.	Y	Y	E-Beam
BIO-A74D	INTEGRA (ALPHA)	HD	Arterial line	338	85.2	n.a.	Y	Y	E-Beam
HINT-CAC9DG	INTEGRA (ALPHA)	HD	Arterial line	353	87.3	n.a.	Y	Y	E-Beam
BIO-V72/HINT-V1SG	INTEGRA (ALPHA)	HD	Venous line	291	73	Ø22 mm	N	N	E-Beam
BSM-V159DG	INTEGRA (ALPHA)	HD	Venous line	275	73	Ø22 mm	N	Y	E-Beam
BIO-V73D	INTEGRA (ALPHA)	HDF post-dilution	Venous line	291	73	Ø22 mm	N	Y	E-Beam
HINT-4DG	INTEGRA (ALPHA)	HD	A/V Set	708	166.9	Ø22 mm	Y	Y	E-Beam

Single needle double pump

BIO-V75	INTEGRA (ALPHA)	HD	Venous line	345	131	Ø22 mm	N	N	E-Beam
HINT-V6SNDG	INTEGRA (ALPHA)	HDF post-dilution	Venous line	345	131	Ø22 mm	N	Y	E-Beam
HINT-11G	INTEGRA (ALPHA)	HD	A/V Set	698	218.3	Ø22 mm	Y	N	E-Beam

HD—Pediatric

BIO-A76/V76	INTEGRA (ALPHA)	HD	A/V Set	642	103.4	Ø22 mm	Y	N	E-Beam
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Other monitors HD/HDF—Adult

FGH-4DG	AK 95, AK 96, AK 200 INTEGRA (ALPHA) / MTS 4008	HD	A/V Set	776.5	168.3	Ø22 mm	N	Y	E-Beam
GH-V10G	AK 200/ INTEGRA (ALPHA) / MTS 4008	HD	Venous line	335	79.6	Ø22 mm	N	Y	E-Beam
MTS-1 G	MTS 4008/2008 (Ø30mm)	HD	A/V Set	684	167	Ø30 mm	N	N	E-Beam
MTS-4G	MTS 4008/2008 (Ø22mm)	HD	A/V Set	709	158	Ø22 mm	N	N	E-Beam
NIKK-3 DG	NIKKISO DBB-03 / DBB-05	HDF pre-post-dilution	A/V Set	670	167	Ø30 mm	N	Y	E-Beam

Single needle double pump

MTS-18SN DG	MTS 4008/2008 (Ø22mm)	HD	A/V Set	853	213	Ø22 mm	N	Y	E-Beam
NIKK-2G	NIKKISO DBB-03 / DBB-05	HDF pre-dilution	A/V Set	791	231.6	Ø30 mm	N	N	E-Beam

Please check with your local sales office for the latest information about the bloodline models available.

AK 95, AK 96 and AK 200 are trademarks of Gambro Lundia AB.

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