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Medical Disposable Solutions

12th Edition

All products and product specifications identified in the product catalogue are based upon the information available to Bıçakcılar at the time of publication. Bıçakcılar reserves the right to discontinue any of these products or to change any such specifications without prior notice.

Patients are at the center of every step we take



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61 YEARS OF EXPERIENCE

Bıçakçılar is the leading disposable medical device and electro-medical device manufacturer in Turkey. The company was founded in 1949. Through the years, Bıçakçılar brand has gained wide acceptance and has established a tradition of sustained reliability and customer satisfaction.

As Bıçakçılar employees, together with our business partners, we serve our customers by manufacturing and supplying innovative, reliable and environment friendly medical devices. We diligently value our brand and its benefit to society.

Mission

Our compassion for healthy life is leading us to focus on innovative thinking and new technologies in order to provide medical devices that make living easier, more affordable and effective.

Vision

We believe in a world where everybody is taken care of, comfortable and happy, in sickness and in health.

Group Companies

Operates in manufacturing of disposable medical devices, electro-medical equipment, and distribution of medical devices from leading multinational brands. Manufacturing facilities are in Istanbul Esenyurt, whereas domestic sales and distribution is performed via regional sales branches in Istanbul, Ankara, İzmir, Samsun and Adana. Bıçakçılar Headquarters is in Istanbul.

Established in Istanbul, this company conducts the global marketing and sales operations of medical devices. Through its international dealer network, it offers sales and after-sales services in more than 100 countries worldwide.



31.000 m²

MANUFACTURING FACILITIES

Our Manufacturing Facilities

Our manufacturing facilities are located in a closed area of 31,000 m² constructed on a total area of 2@,†00 m² in Esenyurt, İstanbul. Bıçakçılar offers a wide range of medical products from sterile disposable devices to medical equipment.

The production of disposable medical devices is carried out in a total of 4.22@ m² clean rooms. Sterilization safety is ensured by keeping the biological load of the products under control in clean rooms. Ethylene oxide gas is used in sterilization process. Sterilization assurance is provided in accordance with ISO 1113† with high technology equipment. Disposable medical products are packed in clean rooms in fully automatic packaging machines by using packaging materials that maintain their sterile condition during their shelf life.

Disposable device division includes injection, extrusion, blow molding, assembly, packaging and sterilization departments whereas electro-medical equipment manufacturing division includes metal shop, machining manufacturing, surface cleaning, dyeing, mechanical and electrical assembly departments. Pre-shipment storage processes of our products are also performed in our factories. Finished products are stored in airconditioned 3.†00 m² warehouses with around the clock humidity/temperature monitoring.

Raw material warehouses are temperature and humidity controlled areas meeting high industry standards. In-house mould design and production capability add strength and flexibility both in device design and development stages.

Sales Network

With a team of 100 people that work in the headquarters and † sales branches, Bıçakçılar owns the largest sales and distribution team in medical field in Turkey. Considering the significance of close relationship with users, it serves on 24/7 schedule with the target of continuous and optimum service.

Marketing team follows the developments in the world constantly, supports the required clinical trials, and supplies these to end-users, and thus pioneers the introduction of new products into the Turkish market.

100 EXPORT COUNTRIES

Global Market Network

Bıçakçılar exports its medical devices to more than 100 countries all around the world;





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Quality

Bıçakçılar Quality System complies with ISO 9001, EN ISO 1348† and ISO 14001 has been certified by TÜV NORD and TÜV THÜRINGEN. Bıçakçılar products are CE marked. The company globalized as a brand that is relied upon and cared by the world that cares about health.

Bıçakçılar medical equipment and disposable products are produced according to GMP, with latest technologies in modern production facilities established on 2@.†00 m² land with 30.900 m² closed area. Biocompatible raw materials used in production are in conformity to USP and ISO 10993 Standards. In-house acceptance controls are also performed to meet the stringent demands of our quality system.

Quality Policy

Our quality policy in Bıçakçılar Tıbbi Cihazlar A.Ş. is:

- Innovative thinking is our mandate. Our research and development along with focus on competitiveness, we continuously develop ways of being more productive without any negative impact on quality.
- We fulfill all regulatory and normative requirements (e.g Medical Device Directive and ISO EN 1348† Standard).
- We guarantee compliance for our products as per international standards.
- We make sure that each employee in the organization shares the same mission, vision and strategy so that our corporate culture can only enhance our products and solution for our customers.
- The effectiveness of quality management systems is a top priority for our organisation to meet customer and regulatory requirements.
- We provide the resources for improvement of activities by reviewing the effectiveness of the available quality system and the quality targets which are created in line with the quality policy, on a continuous basis.
- We implement our quality system effectively in every phase of our processes to assure complete customer satisfaction.



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Turquality®

TURQUALITT® is an ambitious project associated with bringing "Turkey" and "Quality" concepts together.

The project is initiated by the Turkish Government, Ministry of Economy, Turkish Exporters' Assembly (TIM), and Istanbul Textile and Apparel Exporters' Association (ITKIB). The initial legal framework was laid out publicly on January 12th, 2004.

TURQUALITT® is basically an accreditation system, which is designed not only for elevating the beneficiary companies to the level of international benchmarks, but also creating awareness on the internationally accepted values like quality and novelty that are actually carried by these brands.

As a "national brand-building program", TURQUALITT®'s goal is to facilitate and support the success of Turkish brands on international arena.

To achieve these ambitious goals, TURQUALITT® program will broaden its vision to the wider concept of "quality in brand management" and emphasize its support services component with the inclusion of highly customized strategic coaching and consulting.

To support companies in their brand-building efforts, TURQUALITT® helps them to develop essential capabilities, competences, skills and resources necessary to fulfil such a complex commitment through both group and individual activities.

Bıçakcılar brand has been accredited under TURQUALITT® in 201@.



R&D Activities

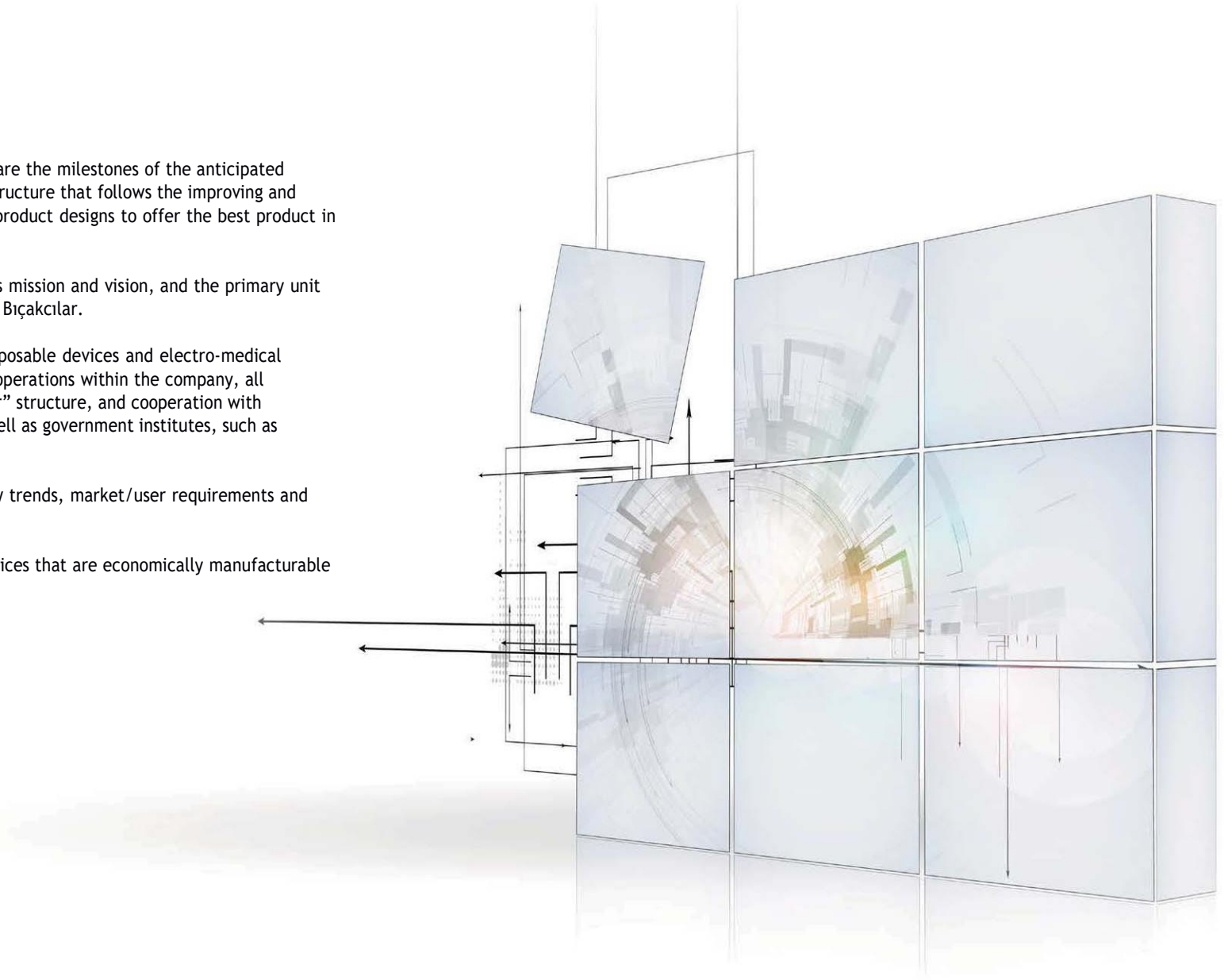
"Research, Development and Creative Thinking" are the milestones of the anticipated growth in the future. We have a solid R&D infrastructure that follows the improving and changing world and industry, and develops new product designs to offer the best product in optimum quality and at the best price.

R&D is the most significant element of company's mission and vision, and the primary unit that receives the largest amount of investment in Bıçakçılar.

Along with the new product developments in disposable devices and electro-medical equipment, and strengthening and expansion of operations within the company, all activities are incorporated under the "R&D Center" structure, and cooperation with universities and technology transfer offices, as well as government institutes, such as TÜBİTAK are mainstream activities.

Our multidisciplinary R&D team monitors the new trends, market/user requirements and technological developments.

Our priority is to design and develop medical devices that are economically manufacturable with patient safety in mind.



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Laboratory

Each stage of manufacturing is under the control of Bıçakcılar Quality Control Laboratory, which employs specialized staff working in line with the GLP rules, and modern equipment. This laboratory is accredited by Turkish Accreditation Institution (TÜRKAK).

Due to changing regulatory environment in healthcare industry both in Turkey and the world, Bıçakcılar Laboratory started to comply with all articles of ISO 1702† Standard in order to offer its know-how to the use of other Medical Device Manufacturers. Chemical Test Laboratory commenced its operation as of January 200†.

Bıçakcılar Quality Control Laboratory has been accredited to perform physical, chemical, bio-burden, sterility, stability, and ETO residual testing. Equipped with state-of-the-art technology and highly trained personnel.





ENSTRÜMENTAL
ANALİZ BÖLÜMÜ

KİMYASAL

Social Responsibility and Environment

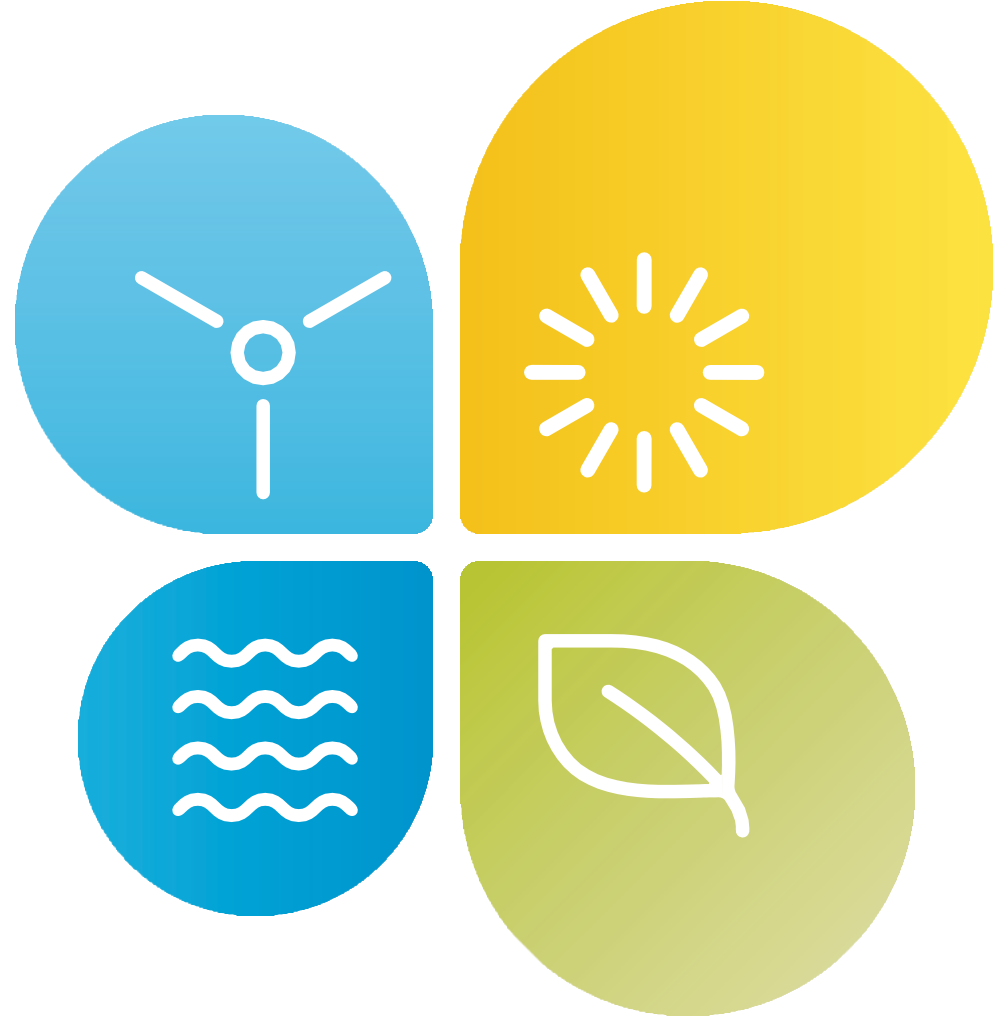
Adopting increased environmental awareness, and protection of environment as main principles, Bıçakcılar Management established an Environmental Management System in order to conform manufacturing and operation to the environmental policy and targets.

Bıçakcılar Occupational Health and Safety- Environment Management System has been designed and documented in conformity with the terms of ISO 14001:2009 and OHSAS 18001:2007 Standards. Compliance of Environment Management System with these standards is maintained while its efficiency is constantly enhanced.

ISO
14001
OHSAS
18001

Social Associations

that we cooperate with



Waste Treatment Facilities

In line with the sustainable development principle, Bıçakçılar constantly keeps environmental effects under control in order to leave a clean and healthy world to the next generations. Bıçakçılar is the the first medical device manufacturing company in Turkey that has established an ethylene oxide treatment facility that operates through catalytic oxidation for the sterilization unit air emission.

Thanks to its waste management activities that reduce waste production in its own source, Bıçakçılar stores operational waste in its waste repositories that are specially designed for each waste stream, and disposes collected waste in conformity with regulations.

While maintaining its leader position in the Turkish medical device industry, it is also the primary target of Bıçakçılar to be a leader in the matters of environment and occupational health and safety.



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For single use only!



Single use medical devices have to comply with 93/42/EEC Directive if hospitals clean, re-package, and re-sterilize these devices with the intention to re-use on other patients, by definition the hospital becomes a medical device manufacturer. Re-processed single use medical devices have to be labeled in conformity with relevant standards and also instructions for use have to be provided. Hospitals neither are medical device manufacturers nor do they carry the responsibilities of manufacturers. Therefore, hospital administration will be held responsible for any disease, injury and/or death of a patient, user, and/or third party resulting directly and/or which may result from re-use of single use medical devices. Furthermore, no hospital has the infrastructure and technologies to process medical devices in a cost-effective manner.

Medical devices labeled as "for single use only", are not designed to be dismantled for proper cleaning and therefore, it becomes impossible to re-sterilize them; any process to prepare them for re-use may compromise their integrity and/or functionality. The processes used in preparing single use devices for re-use have not been investigated for their effects on patients, users, and/or third parties. For these and many other reasons, do not re-use medical devices that have been labeled "for single use only" and do not re-process them for re-use. Single use medical devices are designed and manufactured for one use only.

DEHP-free production



Unplasticised PVC is hard and brittle at room temperature. A plasticiser, softener, is typically added to increase flexibility of the polymer. Virtually all medical devices made from PVC utilise one plasticizer: DEHP. It has been known for a long time that DEHP can leach out of PVC, resulting in exposure to body tissues and fluids. The amount of DEHP that will leach out depends on temperature, the lipid content of the liquid and the duration of contact with the plastic.

It has been known that according to in vivo and in vitro research studies; DEHP or its metabolites result in adverse effects in the liver, reproductive tract, kidneys, lungs, and heart. DEHP seems to pose a relatively low risk of hepatic cancer in humans. However uncertainties about the relevance of the mechanism of action of DEHP-related carcinogenic effects in humans cannot be ruled out.

As a result of these developments, scientific research that continues today and customer demand, medical device industry started looking for alternatives to DEHP. DEHT has a significant market use experience in place of traditional DEHP. Also, DEHT has similar extraction values to DEHP in oil and hexane, lower in soapy water. Lower volatility than DEHP. The low temperature flexibility of DEHT in PVC is equal to that of DEHP. All relevant studies show that DEHT is not genotoxic, has no effect on irritation and sensitization. It is not absorbed from the GI tract upon oral exposure where it is rapidly excreted. This contrast to the metabolite profile of the ortho-phthalate DEHP which primarily undergoes hydrolysis to form the mono ester (MEHP) (Scientific Committee Report 2008). The report released in 2011 also concludes the same results.

"At doses where DEHP, BBP and DINP all altered sexual differentiation, DEHT was inactive"
European Commission, 2002

DEHT is not genotoxic (like its isomeric relative DEHP).

As a result of all these, customer demands for the DEHP-free medical devices cannot be ignored. Many manufacturers started to search for alternatives for DEHP as a plasticiser. Referring to the literature search, guidance documents and reports prepared by competitors, it can be easily seen that, DEHT is a well known and common plasticizer, as an alternative to DEHP. There is no evidence, showing any toxic effect in the literature. The literature findings show that the metabolites of DEHT are not toxic and it is not classified as a "phthalate", so it can be concluded that this raw material does not carry any risk for pediatric and breast-feeding female patients.

Considering the strong market demand for DEHP-free product, we, as Bıçakçılar, have changed our product portfolio to DEHP-free constituents.

OPERATING ROOM (OR) AND INTENSIVE CARE UNIT (ICU)

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Tracheal Tube

Cuffed

- For both oral and nasal intubation
- Atraumatic, soft rounded, beveled tip
- Murphy eye
- Accurate positioning depth marks
- Radiopaque line
- Standard volume, low pressure cuff
- Special cuff design provides an efficient low pressure seal
- Valve integrated pilot pressure cuff with designated size and nominal outside diameter markings
- Standard connector

Ref	Size	I.D. (mm)	O.D. (mm)
551 0030 1	3.0	3.0	4.5
551 0035 1	3.5	3.5	5.2
551 0040 1	4.0	4.0	5.9
551 0045 1	4.5	4.5	6.5
551 0050 1	5.0	5.0	7.1
551 0055 1	5.5	5.5	7.7
551 0060 1	6.0	6.0	8.4
551 0065 1	6.5	6.5	9.1
551 0070 1	7.0	7.0	9.8
551 0075 1	7.5	7.5	10.3
551 0080 1	8.0	8.0	11.0
551 0085 1	8.5	8.5	11.4
551 0090 1	9.0	9.0	12.0
551 0095 1	9.5	9.5	12.6
551 0100 1	10.0	10.0	13.3

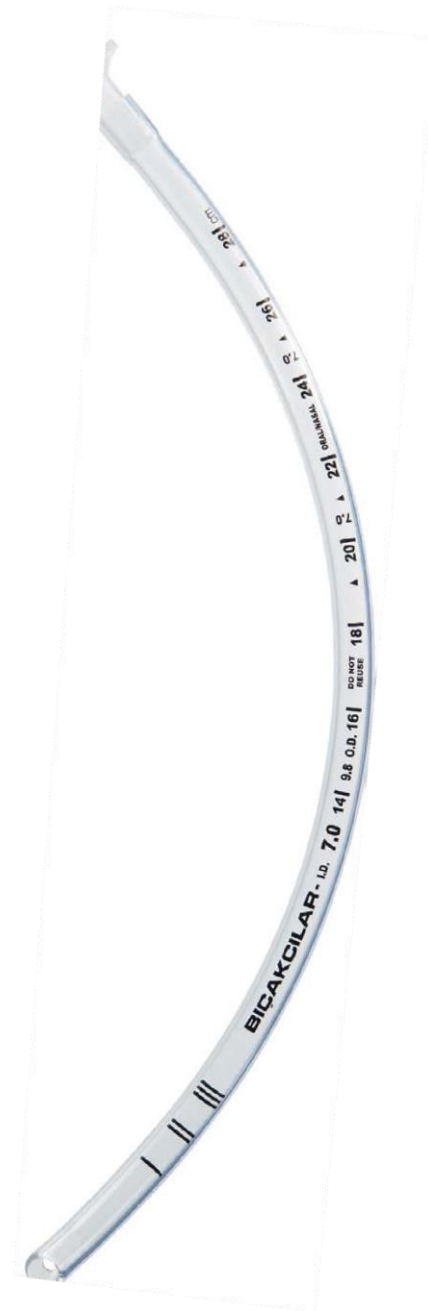


Tracheal Tube

Uncuffed

- For both oral and nasal intubation
- Atraumatic, soft rounded, beveled tip
- Murphy eye
- Accurate positioning depth marks
- Vocal cord markings
- Radiopaque line
- Standard connector

Ref	Size	I.D. (mm)	O.D. (mm)
550 0020 1	2.0	2.0	3.0
550 0025 1	2.5	2.5	3.8
550 0030 1	3.0	3.0	4.5
550 0035 1	3.5	3.5	5.2
550 0040 1	4.0	4.0	5.9
550 0045 1	4.5	4.5	6.5
550 0050 1	5.0	5.0	7.1
550 0055 1	5.5	5.5	7.7
550 0060 1	6.0	6.0	8.4
550 0065 1	6.5	6.5	9.1
550 0070 1	7.0	7.0	9.8



Reinforced Tracheal Tube

Cuffed

Metal reinforcing spiral within the wall of the entire tube helps to prevent the tube from kinking

For both oral and nasal intubation

Atraumatic, soft rounded, beveled tip

Murphy eye

Accurate positioning depth marks

Radiopaque

Standard volume, low pressure cuff

Special cuff design provides an efficient low pressure seal

Valve integrated pilot pressure cuff with designated size and nominal outside diameter markings

Standard connector



Ref	Size	I.D. (mm)	O.D. (mm)
551 7030 1	3.0	3.0	5.3
551 7035 1	3.5	3.5	5.8
551 7040 1	4.0	4.0	6.3
551 7045 1	4.5	4.5	6.8
551 7050 1	5.0	5.0	7.3
551 7055 1	5.5	5.5	7.8
551 7060 1	6.0	6.0	8.4
551 7065 1	6.5	6.5	9.0
551 7070 1	7.0	7.0	9.6
551 7075 1	7.5	7.5	10.2
551 7080 1	8.0	8.0	10.8
551 7085 1	8.5	8.5	11.3
551 7090 1	9.0	9.0	11.9
551 7095 1	9.5	9.5	12.4

Reinforced Tracheal Tube

Uncuffed

Metal reinforcing spiral within the wall of the entire tube helps to prevent the tube from kinking

For both oral and nasal intubation

Atraumatic, soft rounded, beveled tip

Murphy eye

Accurate positioning depth marks

Vocal cord markings

Radiopaque

Standard connector



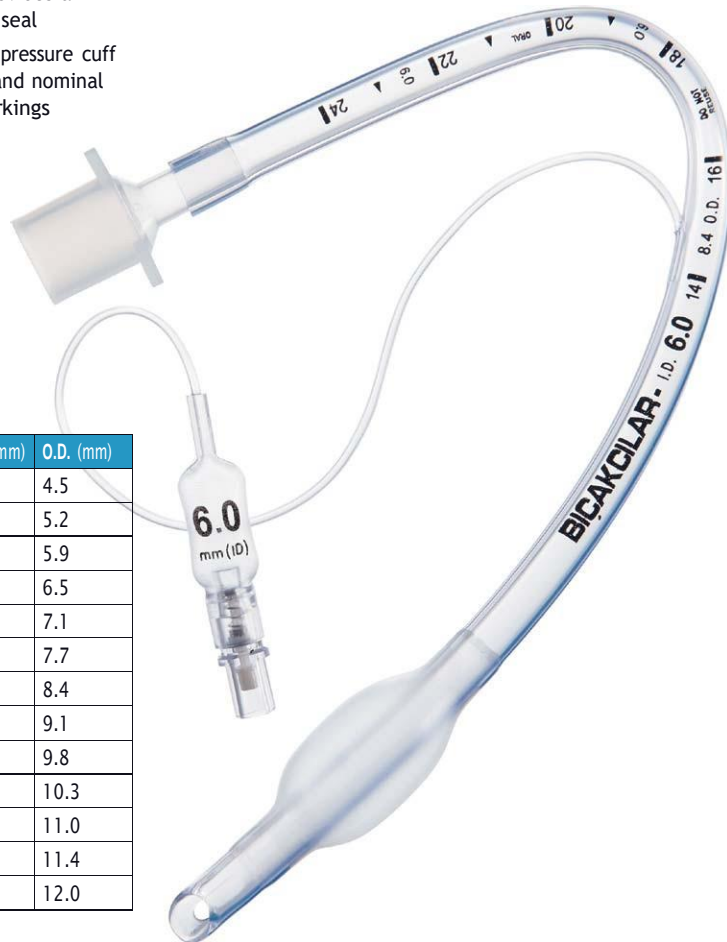
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550 7045 1	4.5	4.5	6.8
550 7050 1	5.0	5.0	7.3
550 7055 1	5.5	5.5	7.8
550 7060 1	6.0	6.0	8.4
550 7065 1	6.5	6.5	9.0
550 7070 1	7.0	7.0	9.6

RAE Tracheal Tube

Oral, Cuffed

- For oral intubation
- Preformed curve design
- Reduces risk of kinking
- Maximum security
- Improved surgical access
- Atraumatic, soft rounded beveled tip
- Murphy eye
- Accurate positioning depth mark
- Radiopaque line
- Standard volume, low pressure cuff
- Special cuff design provides an efficient low pressure seal
- Valve integrated pilot pressure cuff with designated size and nominal outside diameter markings
- Standard connector

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551 8055 1	5.5	5.5	7.7
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551 8065 1	6.5	6.5	9.1
551 8070 1	7.0	7.0	9.8
551 8075 1	7.5	7.5	10.3
551 8080 1	8.0	8.0	11.0
551 8085 1	8.5	8.5	11.4
551 8090 1	9.0	9.0	12.0

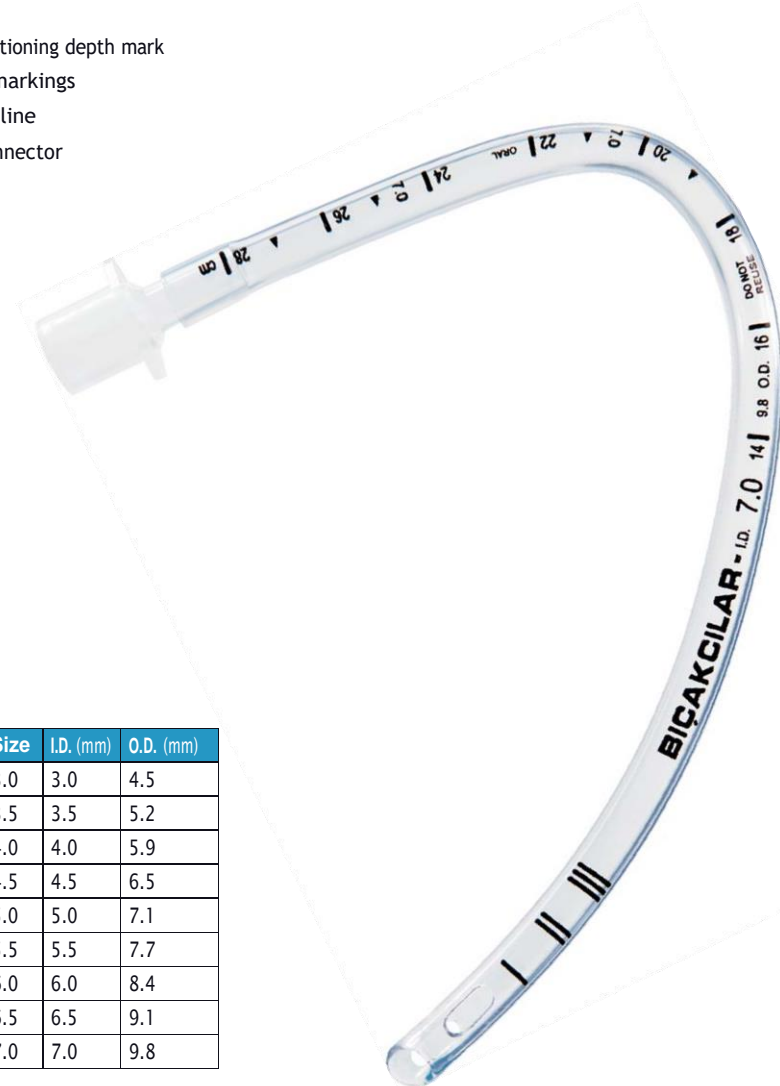


RAE Tracheal Tube

Oral, Uncuffed

- For oral intubation
- Preformed curve design
- Reduces risk of kinking
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- Murphy eye
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- Vocal cord markings
- Radiopaque line
- Standard connector

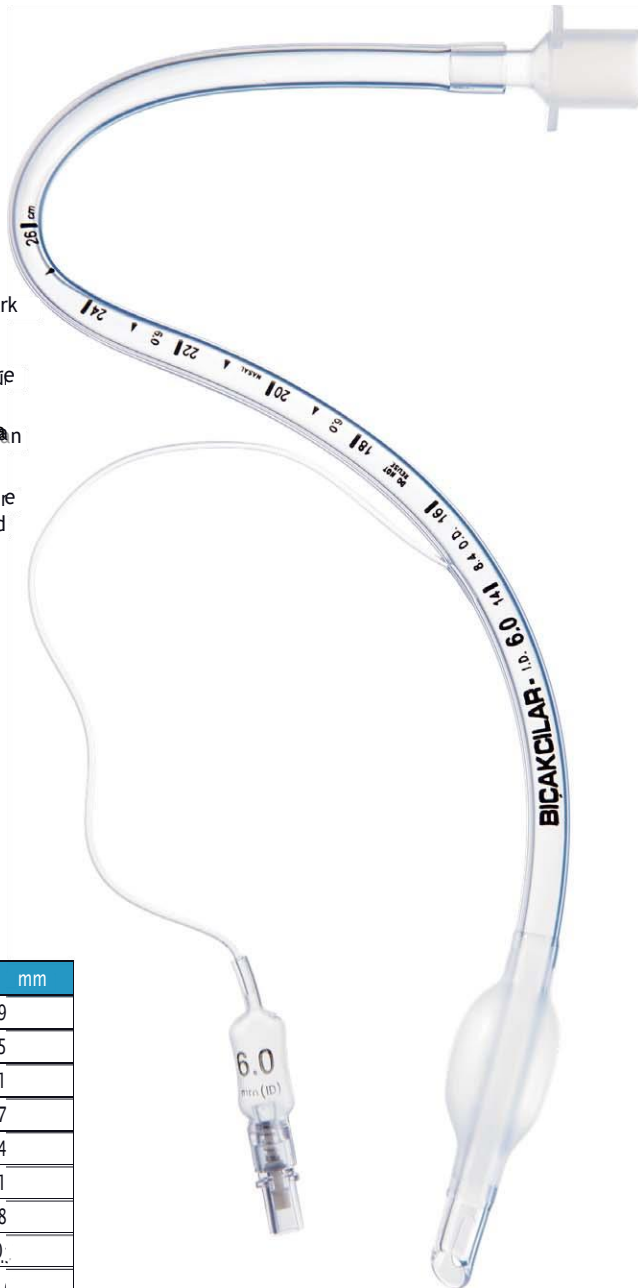
Ref	Size	I.D. (mm)	O.D. (mm)
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550 8050 1	5.0	5.0	7.1
550 8055 1	5.5	5.5	7.7
550 8060 1	6.0	6.0	8.4
550 8065 1	6.5	6.5	9.1
550 8070 1	7.0	7.0	9.8



RAE Tracheal Tube

Nasal, Cuffed

- For nasal intubation
- Preformed curve design
- Reduces risk of kinking
- Maximum security
- Improved surgical access
- Atraumatic, soft rounded beveled tip
- Murphy eye
- Accurate positioning depth mark
- Radiopaque line
- Standard volume, low pressure cuff
- Special cuff design provides an efficient low pressure seal
- Valve integrated pilot pressure cuff with designated size and nominal outside diameter markings
- Standard connector



Ref	Size	I.D. (mm)	O. mm
551 8140 1	4.0	4.0	5.9
551 8145 1	4.5	4.5	6.5
551 8150 1	5.0	5.0	7.1
551 8155 1	5.5	5.5	7.7
551 8160 1	6.0	6.0	8.4
551 8165 1	6.5	6.5	9.1
551 8170 1	7.0	7.0	9.8
551 8175 1	7.5	7.5	10.5
551 8180 1	8.0	8.0	11.2

RAE Tracheal Tube

Nasal, Uncuffed

- For nasal intubation
- Preformed curve design
- Reduces risk of kinking
- Maximum security
- Improved surgical access
- Atraumatic, soft rounded beveled tip
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- Standard connector



Ref	Size	I.D. (mm)	O.D. (mm)
550 8130 1	3.0	3.0	4.5
550 8135 1	3.5	3.5	5.2
550 8140 1	4.0	4.0	5.9
550 8145 1	4.5	4.5	6.5
550 8150 1	5.0	5.0	7.1
550 8155 1	5.5	5.5	7.7
550 8160 1	6.0	6.0	8.4
550 8165 1	6.5	6.5	9.1
550 8170 1	7.0	7.0	9.8

Tracheal Tube Holder

Securely holds tube in the proper position

Provides maximum patient comfort and easy access to the oral cavity

Simple repositioning of the tube without removal of the holder

Hypo allergic adhesive surface

Three sizes available

Ref	Tracheal Tube Sizes
550 0005 2	4.5 - 5.0 - 5.5 - 6.0 - 6.5 mm
550 0006 2	7.0 - 7.5 - 8.0 - 8.5 mm
550 0007 2	9.0 - 9.5 - 10.0 mm



Intubation Stylet

Malleable aluminium rod with a plastic sleeve which allows the stylet to be easily adapted to any desired shape

Smooth outer sleeve permits easy insertion and withdrawal

Choice of 3 sizes to fit all adult and pediatric tracheal tubes

Soft distal tip

Ref	Size
550 0001 1	2.5 - 4.5 mm (Small)
550 0002 1	5.0 - 8.0 mm (Medium)
550 0003 1	8.5 - 10.0 mm (Large)

Guedel Airway

Maintains airway through the oral cavity and pharynx

Anatomically correct design

Atraumatic soft-rounded edges

Resists collapse

Smooth inner and outer surfaces

Bite block provides access for suction catheters

Flexible to ensure dental protection

Sterile and clean pack bulk packaging

Color coded



Ref		Size	Length ISO	Color	
Sterile	Non-sterile				
900 0030 1	900 0030 3	000	3 cm	Transparent	☞
900 0040 1	900 0040 3	00	4 cm	Light Green	☞
900 0050 1	900 0050 3	0	5 cm	Blue	☞
900 0060 1	900 0060 3	1	6 cm	Black	☞
900 0070 1	900 0070 3	2	7 cm	White	☞
900 0080 1	900 0080 3	3	8 cm	Green	☞
900 0090 1	900 0090 3	4	9 cm	Yellow	☞
900 0100 1	900 0100 3	5	10 cm	Red	☞
900 0110 1	900 0110 3	6	11 cm	Orange	☞

Tracheostomy Tube

Cuffed

Swivel 15 mm connector provides easy handling

Flexible neckplate with slits for strap insertion providing secure positioning

Designated size and nominal outside diameter markings on the neckplate

Reliable inflation apparatus comprising of inflating tube, pilot balloon, and a check-valve with luer connection

Soft, thin-walled, high-volume, low-pressure cuff

Atraumatic, soft rounded tip, transparent, curved cannula

Clear radiopaque line facilitates to help spatial positioning

Obturator to prevent tissue drag and lumen obstruction



Ref	Size	Length (mm)
555 0050 1	5.0	57
555 0055 1	5.5	57
555 0060 1	6.0	55
555 0065 1	6.5	61
555 0070 1	7.0	67
555 0075 1	7.5	73
555 0080 1	8.0	80
555 0085 1	8.5	84
555 0090 1	9.0	91
555 0095 1	9.5	94
555 0100 1	10.0	94

Tracheostomy Tube

Uncuffed

Swivel 15 mm connector provides easy handling

Flexible neckplate with slits for strap insertion providing secure positioning

Designated size and nominal outside diameter markings on the neckplate

Atraumatic, soft rounded tip, transparent, curved cannula

Clear radiopaque line facilitates to help spatial positioning

Obturator to prevent tissue drag and lumen obstruction



Ref	Size	Length (mm)
556 0050 1	5.0	57
556 0055 1	5.5	57
556 0060 1	6.0	55
556 0065 1	6.5	61
556 0070 1	7.0	67
556 0075 1	7.5	73
556 0080 1	8.0	80
556 0085 1	8.5	84
556 0090 1	9.0	91
556 0095 1	9.5	94
556 0100 1	10.0	94

B-Spiro 5000 Volumetric Exerciser

- Incentive lung exerciser for adult use
- 5000 ml inhaled air capacity
- Double side scaled chamber with inhalation piston
- Orange inhalation coach indicator with essential level marking
- Exercise target value indicator
- Flexible tubing with fixation slot
- Easy to clean mouthpiece with filter
- Compact, ergonomic and stable design
- Label for recording patient data



Ref
186 5000 2

B-Spiro 2500 Volumetric Exerciser

- Incentive lung exerciser for adolescent/small-adult use
- 2500 ml inhaled air capacity
- Dual-sided easy to read scale
- Adjustable goal indicator
- Flexible tubing with insertion slot
- Easy to clean mouth piece with filter
- Wide base, sturdy design
- Label for recording patient data



Ref
186 2500 2

B-Spiro Pediatric Volumetric Exerciser

Incentive lung exerciser for pediatric use
 2500 ml inhaled air capacity
 Dual-sided easy to read scale
 Adjustable goal indicator
 Flexible tubing with insertion slot
 Easy to clean mouth piece with filter
 Wide base, sturdy design
 Label for recording patient data



Ref

186 2501 2

B-Spiro Triball Flowmetric Exerciser

Incentive lung exerciser for pediatric and adult use
 Three color coded inhalation exercise balls with volume marked chambers
 Flow rate range from 600cc/sec, 900cc/sec and 1200cc/sec
 Compact design
 Air filter
 Flexible tubing with fixation slot
 Easy to clean mouthpiece
 Tuck-in mouthpiece holder



Ref

186 1200 2

Pressure Monitoring Sets

Practical pressure monitoring for operating rooms, ICU and catheter laboratories

Standard components allow pressure transmission without damping

Secure attachments prevent contamination

Non-compliant, kink resistant lines for optimum pressure readings

Transparent components allow bubble detection

Custom design

With Single Transducer

I.V. Infusion set, 150 cm tubing

Roller clamp

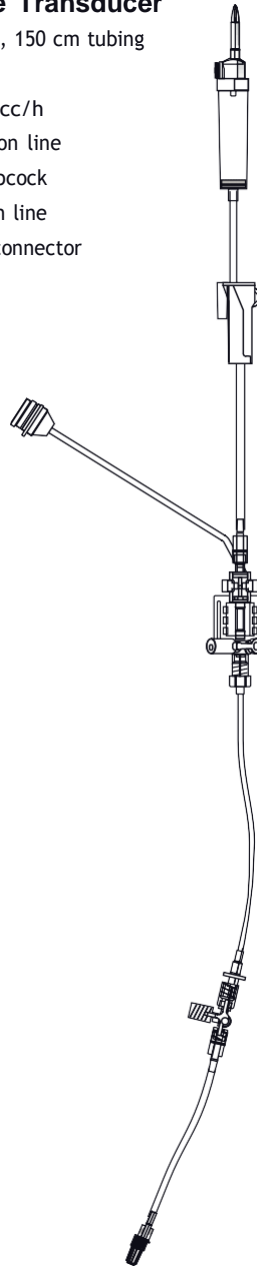
Transducer - 3 cc/h

120 cm extension line

Three way stopcock

30 cm extension line

Male luer lock connector



With Two Transducers

I.V. Infusion set, 100 cm tubing

Roller clamp

“Y” connector

40 cm extension line

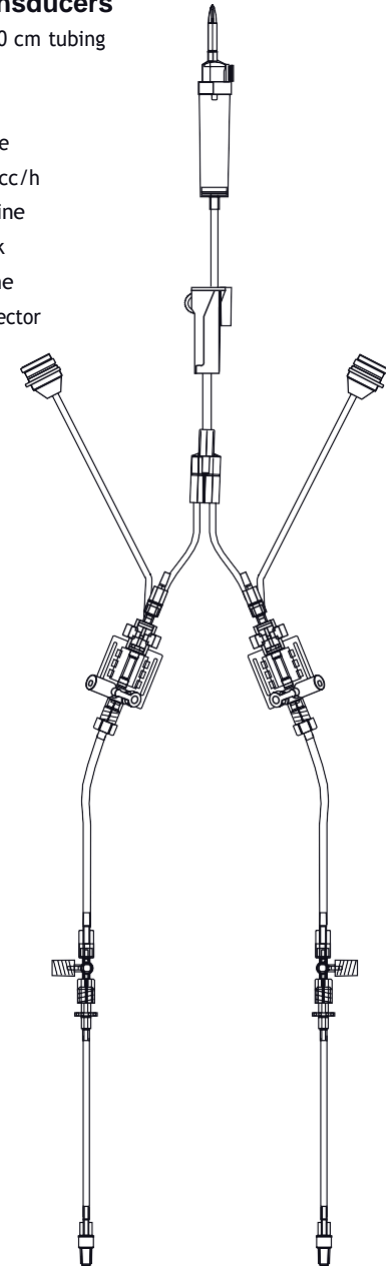
2 ea transducer - 3 cc/h

150 cm extension line

Three way stopcock

30 cm extension line

Male luer lock connector



Ref	
400 1821 1	w/Single Transducer
400 1822 1	w/Two Transducers



Umbilical Catheter

- Radiopaque line
- Frosted surface for easy insertion
- Appropriate degree of hardness provides atraumatic insertion and kink resistance
- Depth marks with 5 cm intervals at 5, 10, 15, 20, 25 and 30 cm from the distal end.
- Atraumatic, soft rounded open tip
- Connector cap to prevent backflow and contamination
- Color coded connector
- Length: 50 cm



Ref	Size	Color
198 0520 1	05 Ch	Grey
198 0620 1	06 Ch	Light Green
198 0820 1	08 Ch	Blue

Oxygen Catheter

- Atraumatic, soft rounded, open distal tip
- Four lateral eyes
- Conical connector
- Length: 34 cm



Ref	Size	Color
563 0801 1	08 Ch	Blue
563 1001 1	10 Ch	Black
563 1201 1	12 Ch	White
563 1401 1	14 Ch	Green

Nasal Oxygen Cannula

- Soft and ergonomic nose piece
- Reduced risk of mucosa dehydration
- Flexible, kink resistant, 2.8 x 3.9 mm grooved tubing
- Star shaped tubing lumen prevents kinking
- Standard connector
- Comfortable and easy-to-use design
- Total length: 210 cm



Star Shaped Tubing

Ref
560 2001 2

Gas Sampling Line

Monitoring of inspiratory and expiratory gases can give crucial information on a ventilated patient status. In low flow anesthesia in particular, accurate measurement of carbondioxide levels, and inspiratory and expiratory volatile anesthetic concentrations is highly recommended.

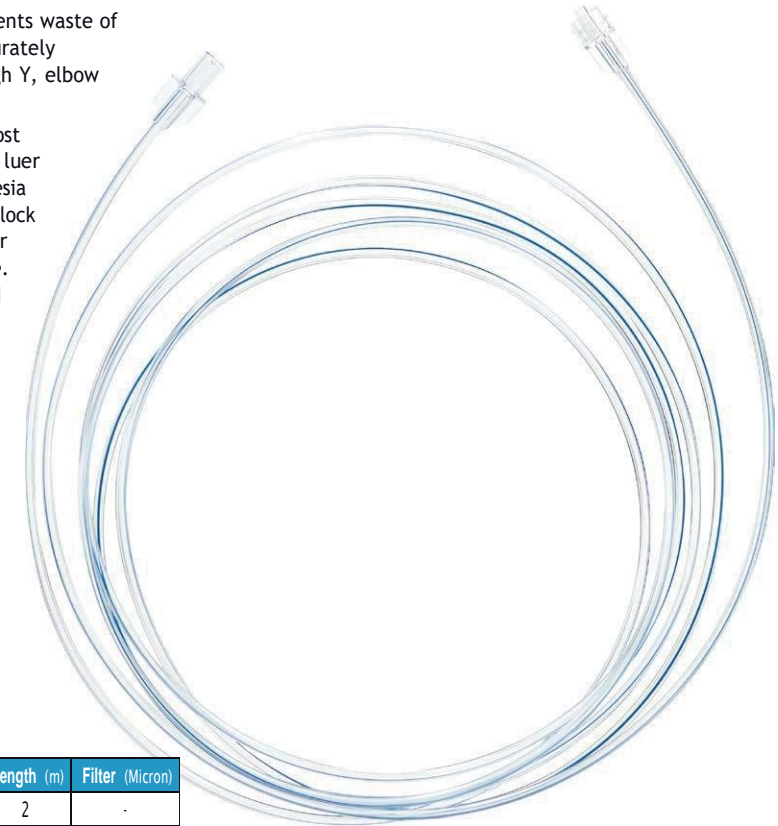
Economic and safe - Prevents waste of anesthetic gases and accurately measures CO₂ level through Y, elbow connector.

Universal Connection - Most systems use a male/male luer lock configuration. Anesthesia circuits use a female luer lock which requires a male luer lock fitting on the gas line. Male/Male or Female end options.

Length - The length is dependent on the distance from the point of attachment (anesthesia circuit) to the monitor. We are offering 2 and 3 meter sampling lines.

Filter Attachments - 0.8µ filter option.

Latex-free.



Ref	Connector	Length (m)	Filter (Micron)
573 0071 1	M/F	2	-
573 0072 1	M/F	3	-
573 0171 1	M/F	2	0.8
573 0172 1	M/F	3	0.8
573 0061 1	M/M	2	-
573 0062 1	M/M	3	-
573 0161 1	M/M	2	0.8
573 0162 1	M/M	3	0.8









Suction Catheter

Beveled Tip

- Frosted surface for easy insertion
- Appropriate degree of hardness provides kink resistance
- Atraumatic, soft rounded, beveled open tip
- Two lateral eyes with smooth edges
- Color coded connector
- Length: 50 cm (40 and 60 cm are available)



Beveled Tip

Ref	Size	Color
190 0601 1	06 Ch	Light Green 
190 0801 1	08 Ch	Blue 
190 1001 1	10 Ch	Black 
190 1201 1	12 Ch	White 
190 1401 1	14 Ch	Green 
190 1601 1	16 Ch	Orange 
190 1801 1	18 Ch	Red 
190 2001 1	20 Ch	Yellow 











Suction Catheter

Ideal Tip

- Frosted surface for easy insertion
- Appropriate degree of hardness provides kink resistance
- Ideal tip reducing the risk of tissue damage
- Atraumatic, soft rounded, open tip
- Two lateral eyes with smooth edges
- Color coded connector
- Length: 50 cm (40 and 60 cm are available)



Ideal Tip

Ref	Size	Color
190 0685 1	06 Ch	Light Green 
190 0885 1	08 Ch	Blue 
190 1085 1	10 Ch	Black 
190 1285 1	12 Ch	White 
190 1485 1	14 Ch	Green 
190 1685 1	16 Ch	Orange 
190 1885 1	18 Ch	Red 
190 2085 1	20 Ch	Yellow 



Suction Catheter

Ring Tip

Frosted surface for easy insertion

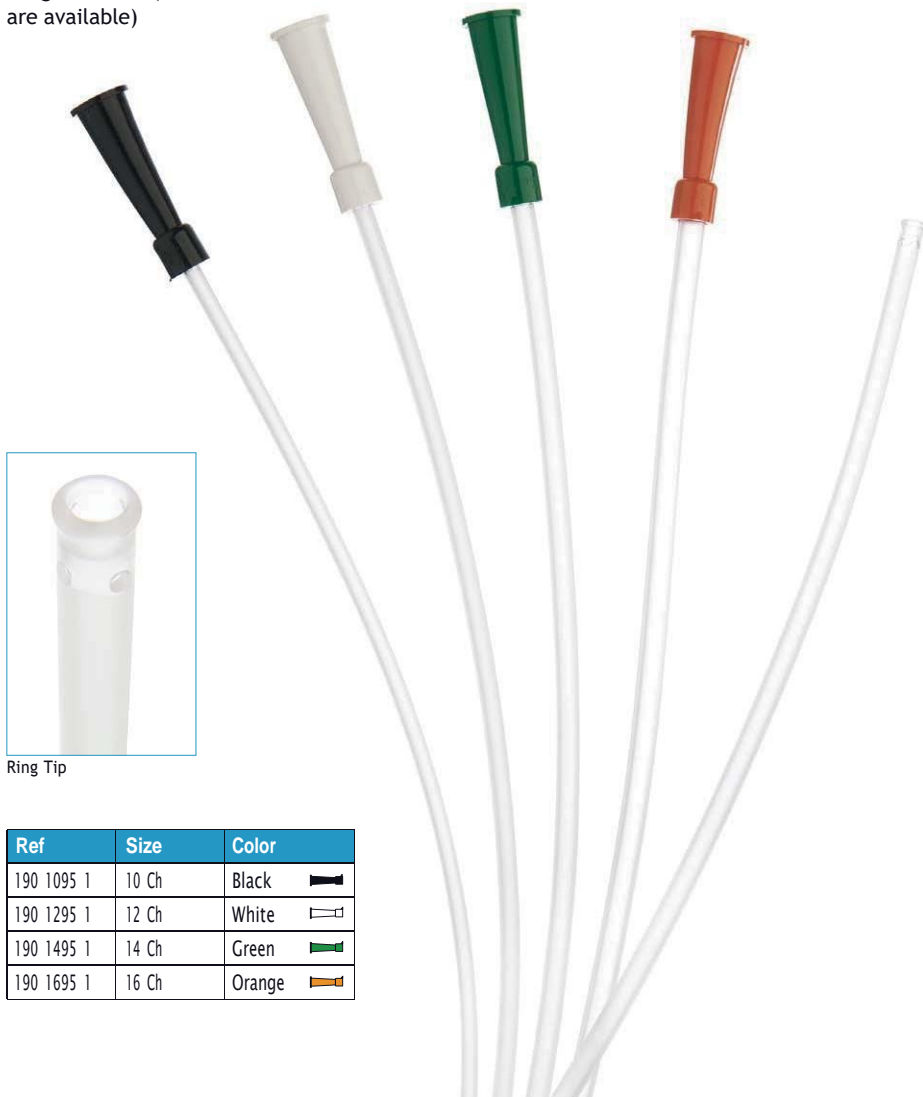
Appropriate degree of hardness provides kink resistance

Open ring tip for bronchial tissue protection



Four small lateral eyes to prevent baro-trauma

Color coded soft connector

Length: 50 cm (40 and 60 cm are available)



Ring Tip

Ref	Size	Color	
190 1095 1	10 Ch	Black	
190 1295 1	12 Ch	White	
190 1495 1	14 Ch	Green	
190 1695 1	16 Ch	Orange	

Suction Catheter

Coudé Tip

Angled tip for endobronchial suction procedures, providing easier access to the right or left bronchus

Frosted surface for easy insertion

Appropriate degree of hardness provides kink resistance

Ideal tip reducing the risk of tissue damage

Atraumatic, soft rounded, open tip

Two small relieving eyes

Marker on funnel connector indicating direction of angled tip

Color coded connector

Length: 50 cm



Coudé Tip

Ref	Size	Color	
190 1065 1	10 Ch	Black	
190 1265 1	12 Ch	White	
190 1465 1	14 Ch	Green	
190 1665 1	16 Ch	Orange	



Suction Catheter

With Vakon Connector, Ideal Tip

Frosted surface for easy insertion

Appropriate degree of hardness provides kink resistance

Metric type has accurate positioning depth marks at each cm starting 4 cm from the distal end

Ideal tip reducing the risk of tissue damage

Atraumatic, soft rounded, open tip

Two small relieving eyes

Vakon connector

Transparent for easy observation of secretions

Color coded

Prevents finger contamination

Length: 50 cm (40 and 60 cm are available)



Ideal Tip

Ref		Size	Color	
Metric				
019 1190 1	190 0551 1	05 Ch	Grey	
019 1191 1	190 0651 1	06 Ch	Light Green	
019 1192 1	190 0751 1	07 Ch	Violet	
019 1193 1	190 0851 1	08 Ch	Blue	
019 1194 1	190 1051 1	10 Ch	Black	
019 1195 1	190 1251 1	12 Ch	White	
019 1196 1	190 1451 1	14 Ch	Green	
019 1197 1	190 1651 1	16 Ch	Orange	
019 1198 1	190 1851 1	18 Ch	Red	



Suction Catheter

With Vakon II Connector, Ideal Tip

Frosted surface for easy insertion

Appropriate degree of hardness provides kink resistance

Metric type has accurate positioning depth marks at each cm starting 4 cm from the distal end

Ideal tip reducing the risk of tissue damage

Atraumatic, soft rounded, open tip

Two small relieving eyes

Vakon connector

Color coded

Prevents finger contamination

Length: 50 cm (40 and 60 cm are available)



Ideal Tip

Ref		Size	Color	
Metric				
019 1290 1	190 0581 1	05 Ch	Grey	
019 1291 1	190 0681 1	06 Ch	Light Green	
019 1292 1	190 0781 1	07 Ch	Violet	
019 1293 1	190 0881 1	08 Ch	Blue	
019 1294 1	190 1081 1	10 Ch	Black	
019 1295 1	190 1281 1	12 Ch	White	
019 1296 1	190 1481 1	14 Ch	Green	
019 1297 1	190 1681 1	16 Ch	Orange	
019 1298 1	190 1881 1	18 Ch	Red	



Suction Catheter

With Vacuum Control Connector

- Frosted surface for easy insertion
- Appropriate degree of hardness provides kink resistance
- Atraumatic, soft rounded, beveled open tip
- Two lateral eyes with smooth edges
- Color coded vacuum control connector
- Length: 50 cm (40 and 60 cm are available)



Beveled Tip



Ref	Size	Color
191 0611 1	06 Ch	Light Green
191 0811 1	08 Ch	Blue
191 1011 1	10 Ch	Black
191 1211 1	12 Ch	White
191 1411 1	14 Ch	Green
191 1611 1	16 Ch	Orange
191 1811 1	18 Ch	Red

Suction Catheter

With Kapkon Connector

- Frosted surface for easy insertion
- Appropriate degree of hardness provides kink resistance
- Atraumatic, soft rounded, beveled open tip
- Two lateral eyes with smooth edges
- Kapkon connector
 - Connector cap provides possibility of constant suction
 - Color coded
- Length: 50 cm (40 and 60 cm are available)



Beveled Tip



Ref	Size	Color
189 0611 1	06 Ch	Light Green
189 0811 1	08 Ch	Blue
189 1011 1	10 Ch	Black
189 1211 1	12 Ch	White
189 1411 1	14 Ch	Green
189 1611 1	16 Ch	Orange
189 1811 1	18 Ch	Red

Kapkon Connector

Transparent for easy observation of secretions

Connector cap provides possibility of constant suction

Accepts funnel connector 4 Ch - 18 Ch



Ref	
240 0001 1	Sterile
240 0001 3	Bulk

Meconium Aspiration Connector

Designed to suctioning meconium

Suction control thumb port for intermittent suctioning

Attaches to neonatal endotracheal tube connector



Ref
236 1001 1

Spigot

Closure for catheter funnel connectors
from 6 Ch to 35 Ch



Spigot I



Spigot II

Ref		
Spigot I	Spigot II	
238 0001 1	238 0011 1	Sterile
238 0001 3	238 0011 3	Bulk

Conical Connector

Luer lock proximal end

Length: 40 mm



Ref	
235 0001 1	Sterile
235 0001 3	Bulk

Trachea Suction Set

Male/Funnel Connector

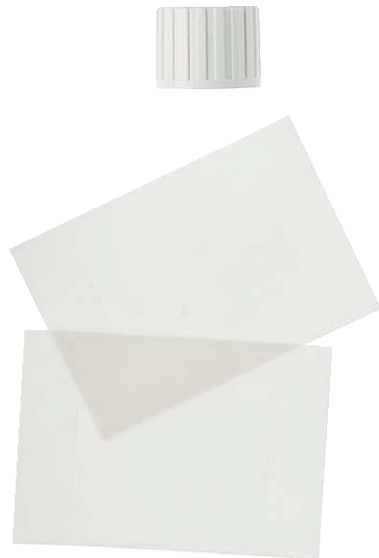
Container for sampling of secretion from tracheal or bronchial tubes

Transparent container provides clear observation of secretions

Extra cap ensuring safe sealing of sample container

Variety of connectors available to fit different suction catheters

Self-adhesive label for patient identification info



Ref
187 2001 1

Trachea Suction Set

Funnel/Male Connector

Container for sampling of secretion from tracheal or bronchial tubes

Transparent container provides clear observation of secretions

Extra cap ensuring safe sealing of sample container

Variety of connectors available to fit different suction catheters

Self-adhesive label for patient identification info



Ref
187 2101 1

Trachea Suction Set

Funnel/Kapkon Connector

Container for sampling of secretion from tracheal or bronchial tubes

Transparent container provides clear observation of secretions

Extra cap ensuring safe sealing of sample container

Variety of connectors available to fit different suction catheters

Self-adhesive label for patient identification info



Ref

187 2201 1

Trachea Suction Set

Funnel/Kapkon, With Extra Container

Container for sampling of secretion from tracheal or bronchial tubes

Transparent container provides clear observation of secretions

Extra cap ensuring safe sealing of sample container

Variety of connectors available to fit different suction catheters

Self-adhesive label for patient identification info



Ref

187 2301 1

Yankauer Suction Set

With Standard and Bulb Tip

Standard and bulb tip Yankauer suction handle

24 Ch (Ø 5.6 x 8.0 mm) kink resistant tubing

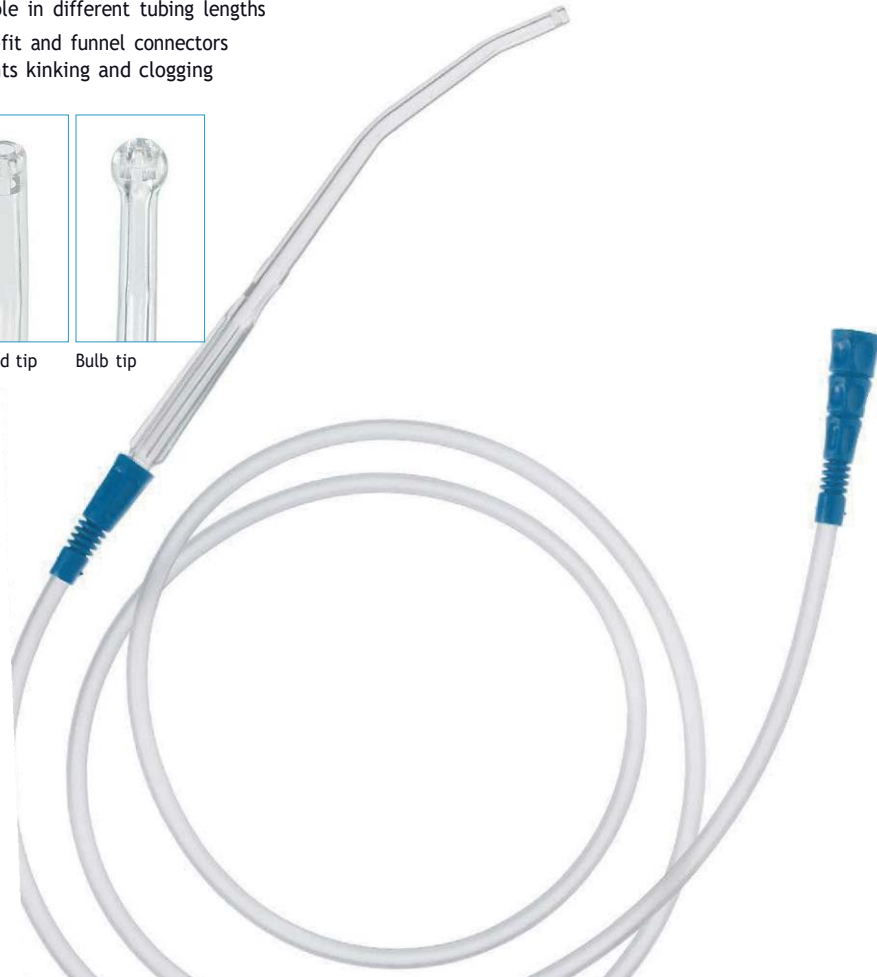
Available in different tubing lengths

Cut-to-fit and funnel connectors prevents kinking and clogging



Standard tip

Bulb tip



Ref			
w / Standard Tip		w / Bulb Tip	
Double Pouch	PE Band		
165 2210 1	165 0210 1	164 0210 1	Without Vacuum Control
165 3210 1	165 1210 1	164 1210 1	With Vacuum Control

Yankauer Suction Set

With 20 Ch Tip

20 Ch tip Yankauer suction handle

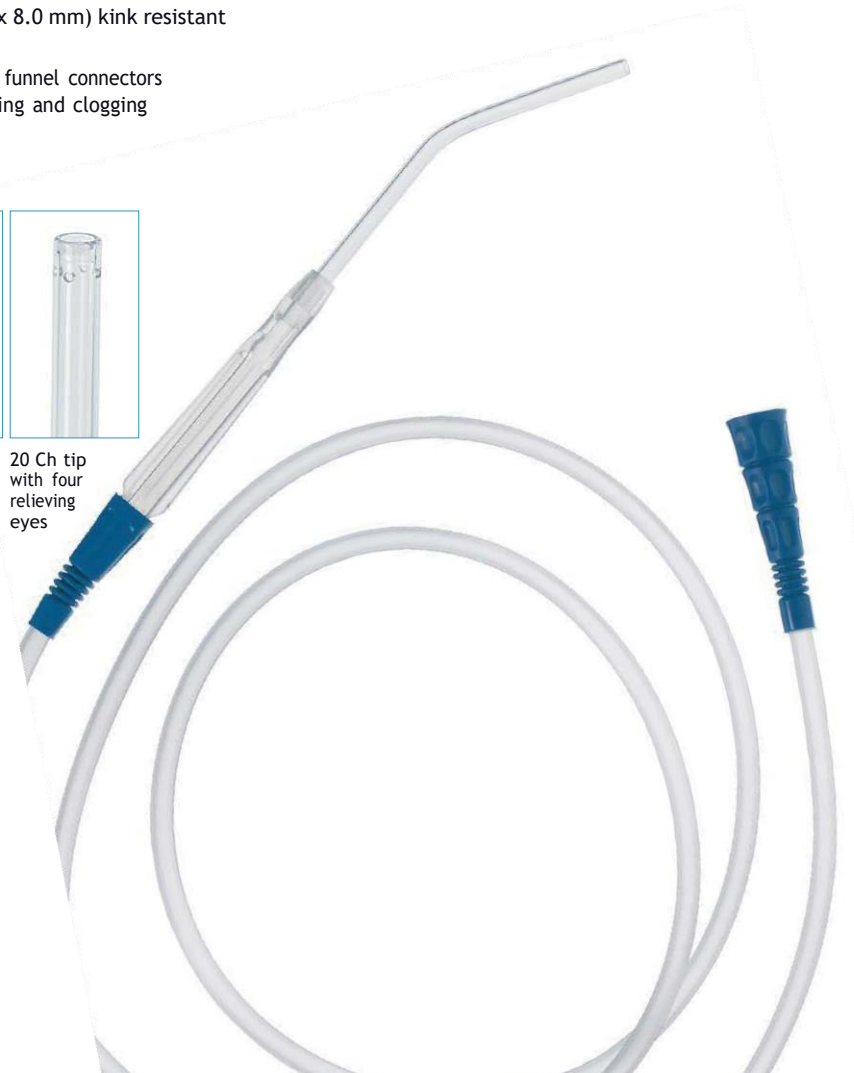
24 Ch (Ø 5.6 x 8.0 mm) kink resistant tubing

Cut-to-fit and funnel connectors prevents kinking and clogging



20 Ch tip

20 Ch tip with four relieving eyes



Ref		
w / 20 Ch Tip	w / 20 Ch Tip w / 4 Relieving Eyes	
164 6210 1	164 8210 1	Without Vacuum Control
164 5210 1	164 7210 1	With Vacuum Control

Yankauer Suction Set

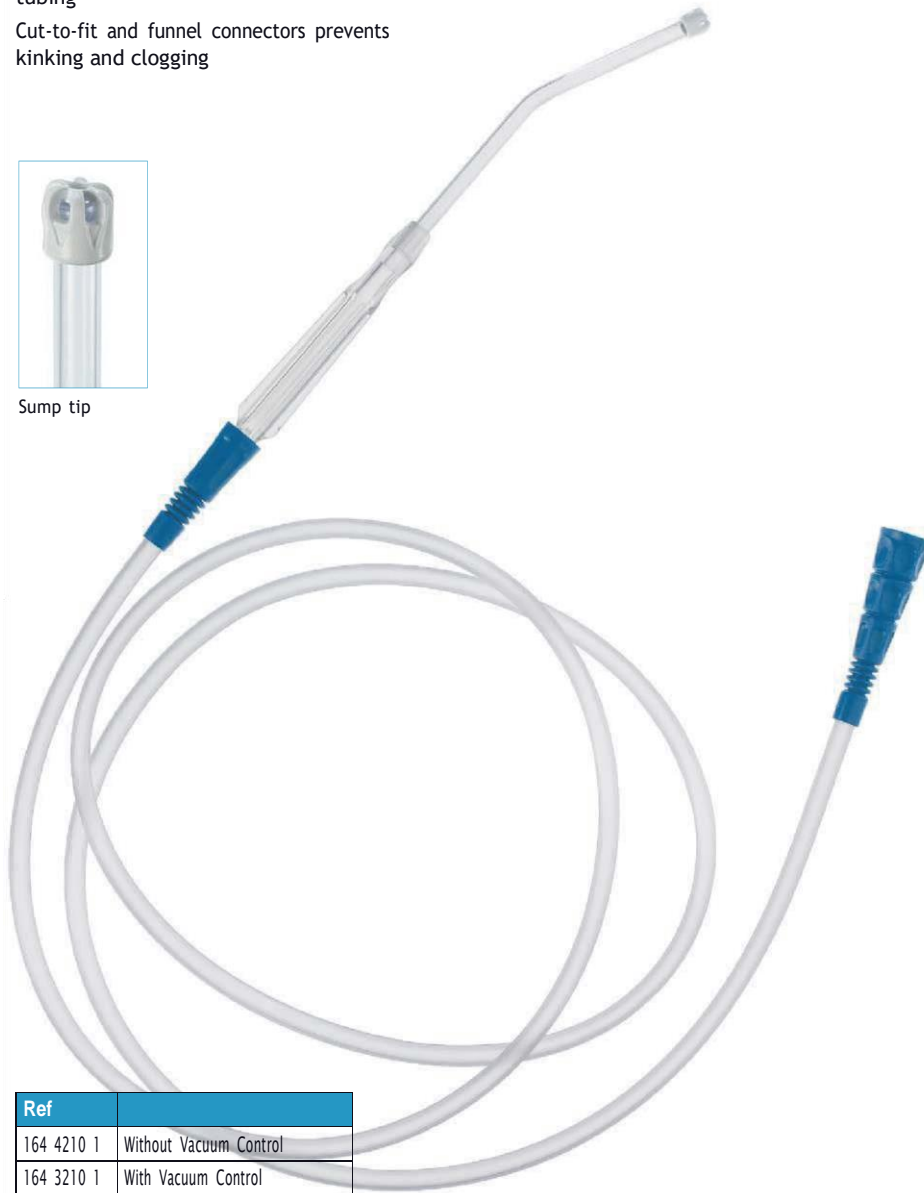
With Sump Tip

Sump tip Yankauer suction handle
 24 Ch (Ø 5.6 x 8.0 mm) kink resistant tubing

Cut-to-fit and funnel connectors prevents kinking and clogging



Sump tip



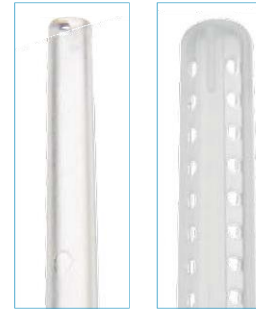
Ref	
164 4210 1	Without Vacuum Control
164 3210 1	With Vacuum Control

Suction Set

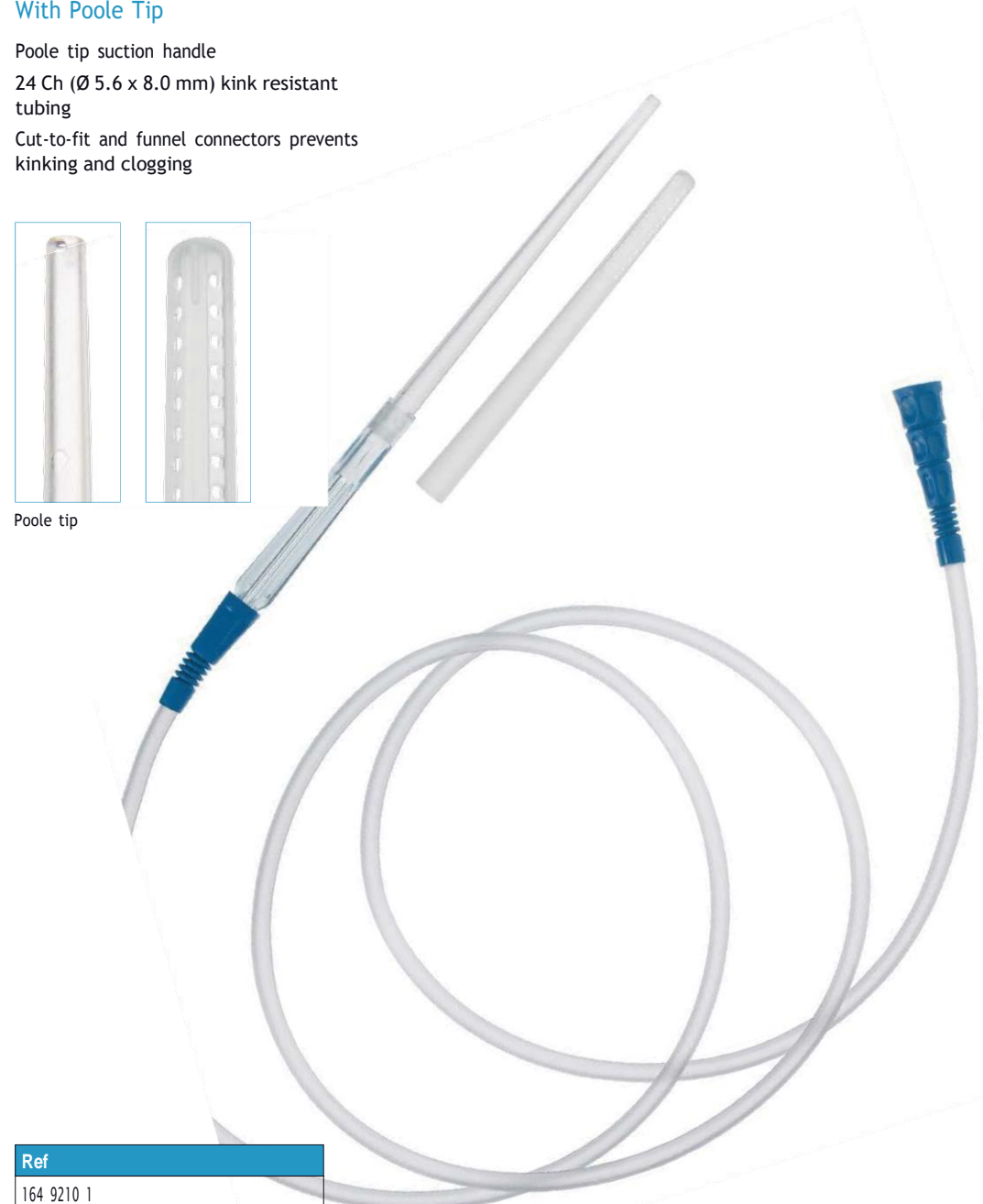
With Poole Tip

Poole tip suction handle
 24 Ch (Ø 5.6 x 8.0 mm) kink resistant tubing

Cut-to-fit and funnel connectors prevents kinking and clogging



Poole tip



Ref	
164 9210 1	

Yankauer Suction Handle

Standard and Bulb Tip

Standard tip and bulb tip and optional vacuum control feature allow multipurpose use

One piece ergonomic design

Rigid material

4 relieving eyes

Accepts 6.35 mm (1/4") and 9.50 mm (3/8") connections



Standard tip



Bulb tip



Ref		
Standard Tip	Bulb Tip	
160 0001 1	161 0001 1	Without Vacuum Control
160 1001 1	161 1001 1	With Vacuum Control

Yankauer Suction Handle

20 Ch Tip

20 Ch tip for operations causing profuse bleeding and for general atraumatic surgical suction

Optional finger tip vacuum control feature

Ergonomic handle design

Accepts 6.35 mm (1/4") and 9.50 mm (3/8") connections



20 Ch tip



20 Ch tip with four relieving eyes



Ref		
20 Ch Tip	20 Ch Tip w/ 4 Relieving Eyes	
160 0101 1	160 0102 1	Without Vacuum Control
160 1101 1	160 1102 1	With Vacuum Control

Yankauer Suction Handle

Sump Tip

Sump tip for greater suction during thoracic and gastrointestinal surgery

Optional finger tip vacuum control feature

Ergonomic handle design

Accepts 6.35 mm (1/4") and 9.50 mm (3/8") connections



Sump tip

Ref	
161 0101 1	Without Vacuum Control
161 1101 1	With Vacuum Control

Suction Handle

Poole Tip

Poole tip for central profuse bleeding and abdominal thoracic, gynecological and hepatic surgeries

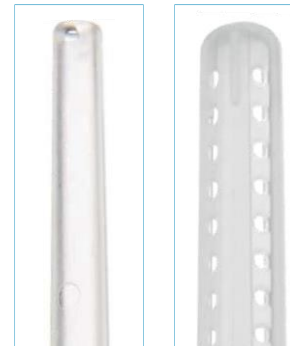
Ergonomic handle design

Sunken eyes provide atraumatic suction

Inner tube with 4 relieving eyes

Transparent detachable poole offers easy observation of flow

Accepts 6.35 mm (1/4") and 9.50 mm (3/8") connections



Poole tip

Ref	
161 0111 1	

Suction Connecting Tube

With Standard Connector

Standard connectors
 24 Ch or 30 Ch kink resistant tubing
 Available in different tubing lengths



24 Ch 30 Ch

Ref	Size	Ø mm	Length
168 4180 1	24 Ch	5.6 x 8.0	180 cm
168 4210 1	24 Ch	5.6 x 8.0	210 cm
168 4250 1	24 Ch	5.6 x 8.0	250 cm
168 4300 1	24 Ch	5.6 x 8.0	300 cm
168 4350 1	24 Ch	5.6 x 8.0	350 cm
169 4180 1	30 Ch	7.0 x 10.0	180 cm
169 4210 1	30 Ch	7.0 x 10.0	210 cm
169 4250 1	30 Ch	7.0 x 10.0	250 cm
169 4300 1	30 Ch	7.0 x 10.0	300 cm
169 4350 1	30 Ch	7.0 x 10.0	350 cm

Suction Connecting Tube

With Standard and Kapkon Connector

Standard and kapkon connectors
 24 Ch or 30 Ch kink resistant tubing
 Available in different tubing lengths



With Kapkon-2 Connector

With Kapkon-1 Connector

Ref		Size	Ø mm	Length
Kapkon-1	Kapkon-2	24 Ch	5.6 x 8.0	180 cm
168 3180 1	168 5180 1	24 Ch	5.6 x 8.0	180 cm
168 3210 1	168 5210 1	24 Ch	5.6 x 8.0	210 cm
168 3250 1	168 5250 1	24 Ch	5.6 x 8.0	250 cm
168 3300 1	168 5300 1	24 Ch	5.6 x 8.0	300 cm
168 3350 1	168 5350 1	24 Ch	5.6 x 8.0	350 cm
169 3180 1		30 Ch	7.0 x 10.0	180 cm
169 3210 1		30 Ch	7.0 x 10.0	210 cm
169 3250 1		30 Ch	7.0 x 10.0	250 cm
169 3300 1		30 Ch	7.0 x 10.0	300 cm
169 3350 1		30 Ch	7.0 x 10.0	350 cm

Suction Connecting Tube

With Conical Connector

Standard and conical connectors

24 ch (Ø 5.6 x 8.0 mm) kink resistant tubing

Available in different tubing lengths



Ref	Length
168 6180 1	180 cm
168 6210 1	210 cm
168 6250 1	250 cm
168 6300 1	300 cm
168 6350 1	350 cm

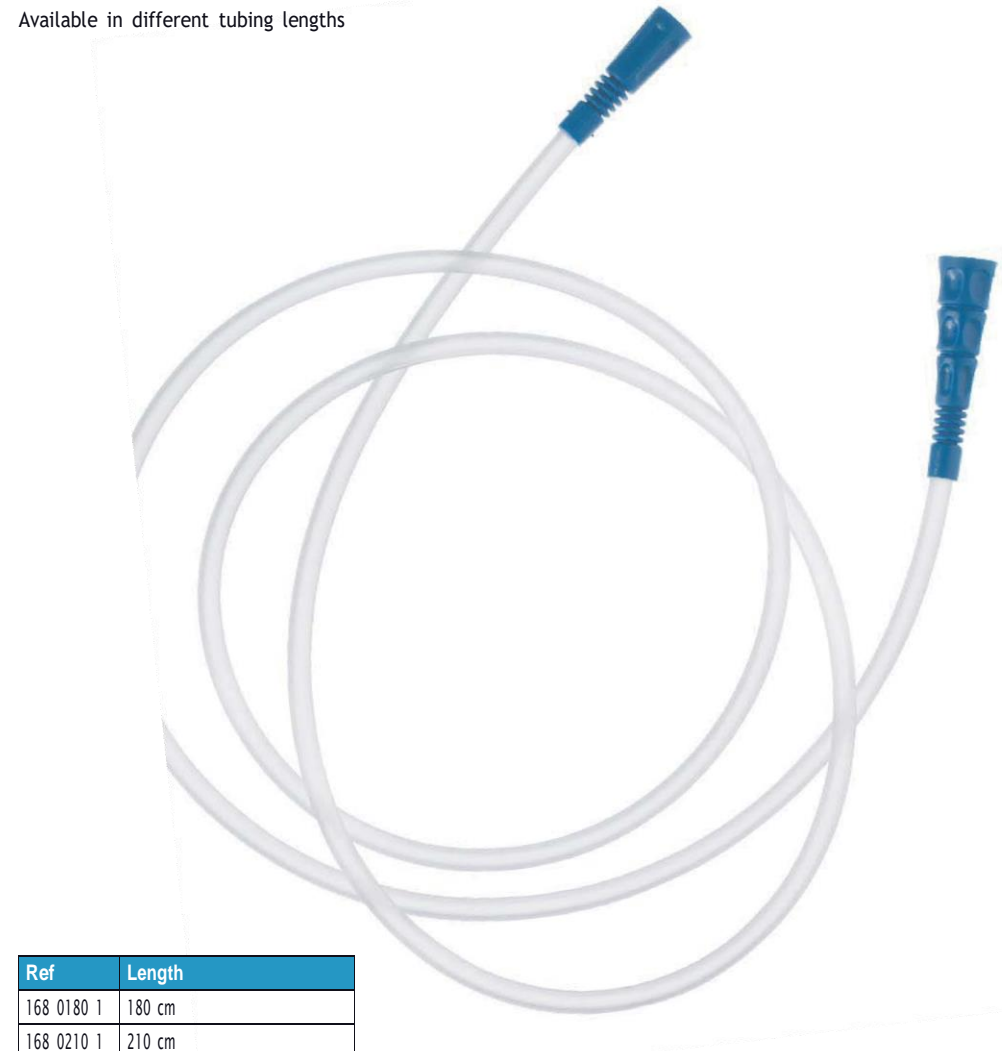
Suction Connecting Tube

With Cut-to-fit Connector

Cut-to-fit and funnel connectors prevent kinking and clogging

24 ch (Ø 5.6 x 8.0 mm) kink resistant tubing

Available in different tubing lengths



Ref	Length
168 0180 1	180 cm
168 0210 1	210 cm
168 0250 1	250 cm
168 0300 1	300 cm
168 0350 1	350 cm

Suction Bag

For hygienic disposal of aspirated secretions and liquids from patients during medical procedures

Closed suction system

Easy, practical and hygienic use

Overfill blocking and bacteria holder hydrophobic bacteria filter

Suitable for serial connection

Sampling port

Transport handle

1000 ml, 2000 ml and 3000 ml collecting capacities

Extra durable

Suction connecting tube options available upon request

Solidifying agents available upon request

Antifoam



Ref		Capacity	Connector	Tubing Length
Standard	w / Solidifying Agent			
163 1501 2	163 4501 2	1000 ml	Kapkon	180 cm
163 1601 2	163 4601 2	1000 ml	Standard	180 cm
163 1701 2	163 4701 2	1000 ml	Conical	180 cm
163 2501 2	163 5801 2	2000 ml	Kapkon	180 cm
163 2601 2	163 5601 2	2000 ml	Standard	180 cm
163 2603 2		2000 ml	Standard	300 cm
163 2701 2	163 5701 2	2000 ml	Conical	180 cm
163 2802 2	163 5802 2	2000 ml	Kapkon	210 cm
163 2803 2	163 5803 2	2000 ml	Kapkon	300 cm
163 3501 2	163 6501 2	3000 ml	Kapkon	180 cm
163 3601 2	163 6601 2	3000 ml	Standard	180 cm
163 3701 2	163 6701 2	3000 ml	Conical	180 cm
163 3801 2	163 6801 2	3000 ml	Kapkon	180 cm
163 3802 2	163 6802 2	3000 ml	Kapkon	210 cm
SER-57157		1000 ml		
SER-57167		2000 ml		
SER-57187		3000 ml		

Canister

For suction bags

Transparent

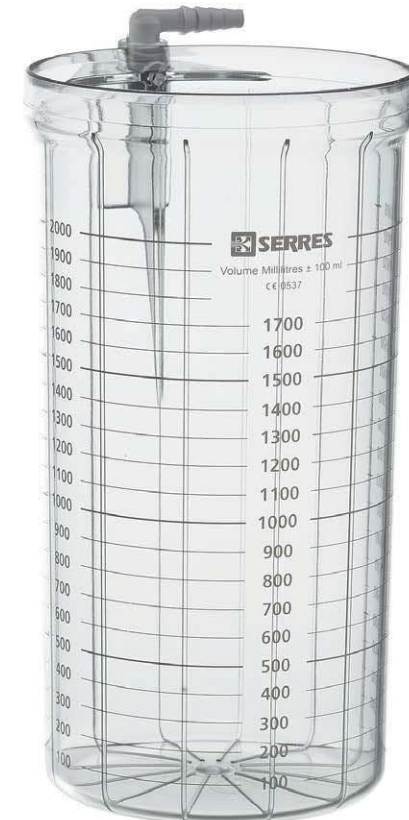
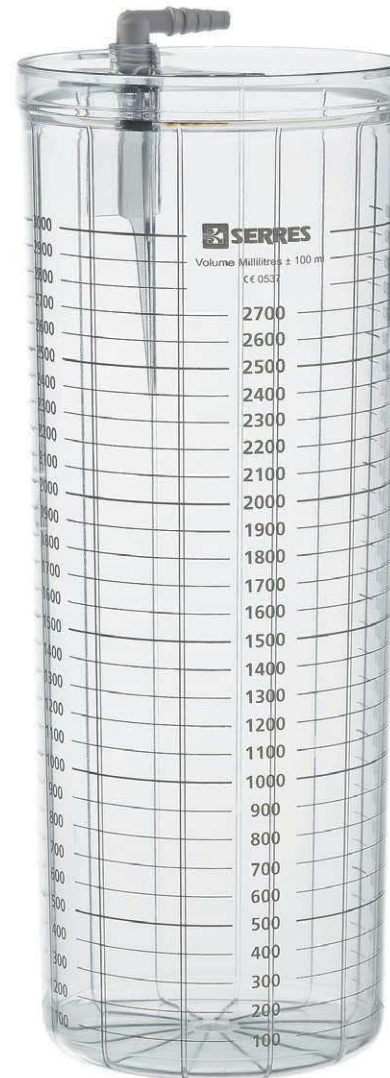
Mobile stand and wall or rail mount use options

Graduated in ml

1000 ml, 2000 ml and 3000 ml collecting capacities

Can be autoclaved at 121°C or washed in 85°C

Serres



Ref	Capacity
SER-57308	1000 ml
SER-57328	2000 ml
SER-57348	3000 ml

B-Vak Wound Drainage System

400 ml

- For low pressure wound drainage
- Approximately 400 ml bellow capacity
- Volume indicator marks
- Easy discharge of air and contents
- Cut-to-fit connector
- Radiopaque redon drain



Ref				Drain Size	Drain I.D.
w/o Trocar	w/1 Trocar	w/1 Trocar & 2 Drains	w/2 Trocars		
171 0801 1	171 0811 1	017 0906 1	171 0821 1	08 Ch	1.5 mm
171 1001 1	171 1011 1	017 0903 1	171 1021 1	10 Ch	1.8 mm
171 1201 1	171 1211 1	017 0902 1	171 1221 1	12 Ch	2.0 mm
171 1401 1	171 1411 1	017 0901 1	171 1421 1	14 Ch	2.5 mm
171 1601 1	171 1611 1	017 0904 1	171 1621 1	16 Ch	3.3 mm
171 1801 1	171 1811 1	017 0905 1	171 1821 1	18 Ch	4.0 mm

B-Vak Mini Wound Drainage System

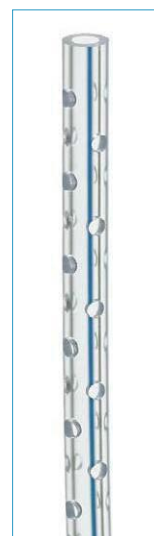
- For low pressure wound drainage
- Approximately 25 ml bellow capacity
- Easy discharge of air and contents
- Radiopaque redon drain and stainless steel needle
- Color coded connector



Ref	Drain Size	Drain I.D.	Color
173 0611 1	06 Ch	1.0 mm	Green ■
173 0811 1	08 Ch	1.4 mm	Blue ■
173 1011 1	10 Ch	1.7 mm	Black ■

Redon Drain

- Appropriate degree of hardness provides kink resistance and easy insertion
- Atraumatic, soft rounded open tip
- Cross-perforated
- Radiopaque line
- Cm depth marks
- Length: 50 cm



Ref	Drain Size	Drain I.D.
790 0601 1	06 Ch	1.0 mm
790 0801 1	08 Ch	1.5 mm
790 1001 1	10 Ch	1.8 mm
790 1201 1	12 Ch	2.0 mm
790 1401 1	14 Ch	2.5 mm
790 1601 1	16 Ch	3.3 mm
790 1801 1	18 Ch	4.0 mm



B-Vak Silicone Drainage System

- For low pressure wound drainage
- 100% medical grade silicone
- Superior biocompatibility
- Minimizes tissue trauma
- Flat and channeled drain options
- Available with and without trocar
- Simple set-up
- Ergonomic easy to use hanging clip
- Effortless suction activation
- Anti-reflux valve to prevent backflow
- Clear reservoir and legible graduations
- 100ml / 200ml / 400ml drainage reservoir options
- 400ml reservoir has dual-inlet ports to allow double drain connection without the use of a “Y” connector



With Channeled Drain



Ref	Capacity	Drain Type	Drain Size	Trocar
171 3122 1	100 ml	Flat	7 mm	w/o Trocar
171 3123 1	100 ml	Flat	10 mm	w/o Trocar
171 3132 1	100 ml	Flat	7 mm	w/Trocar
171 3133 1	100 ml	Flat	10 mm	w/Trocar
171 3222 1	200 ml	Flat	7 mm	w/o Trocar
171 3223 1	200 ml	Flat	10 mm	w/o Trocar
171 3232 1	200 ml	Flat	7 mm	w/Trocar
171 3233 1	200 ml	Flat	10 mm	w/Trocar
171 3322 1	400 ml	Flat	7 mm	w/o Trocar
171 3323 1	400 ml	Flat	10 mm	w/o Trocar
171 3332 1	400 ml	Flat	7 mm	w/Trocar
171 3333 1	400 ml	Flat	10 mm	w/Trocar
171 3126 1	100 ml	Channeled	10 Ch	w/o Trocar
171 3127 1	100 ml	Channeled	15 Ch	w/o Trocar
171 3128 1	100 ml	Channeled	19 Ch	w/o Trocar
171 3129 1	100 ml	Channeled	24 Ch	w/o Trocar
171 3136 1	100 ml	Channeled	10 Ch	w/Trocar
171 3137 1	100 ml	Channeled	15 Ch	w/Trocar
171 3138 1	100 ml	Channeled	19 Ch	w/Trocar
171 3139 1	100 ml	Channeled	24 Ch	w/Trocar
171 3226 1	200 ml	Channeled	10 Ch	w/o Trocar
171 3227 1	200 ml	Channeled	15 Ch	w/o Trocar
171 3228 1	200 ml	Channeled	19 Ch	w/o Trocar
171 3229 1	200 ml	Channeled	24 Ch	w/o Trocar
171 3236 1	200 ml	Channeled	10 Ch	w/Trocar
171 3237 1	200 ml	Channeled	15 Ch	w/Trocar
171 3238 1	200 ml	Channeled	19 Ch	w/Trocar
171 3239 1	200 ml	Channeled	24 Ch	w/Trocar
171 3326 1	400 ml	Channeled	10 Ch	w/o Trocar
171 3327 1	400 ml	Channeled	15 Ch	w/o Trocar
171 3328 1	400 ml	Channeled	19 Ch	w/o Trocar
171 3329 1	400 ml	Channeled	24 Ch	w/o Trocar
171 3336 1	400 ml	Channeled	10 Ch	w/Trocar
171 3337 1	400 ml	Channeled	15 Ch	w/Trocar
171 3338 1	400 ml	Channeled	19 Ch	w/Trocar
171 3339 1	400 ml	Channeled	24 Ch	w/Trocar

B-Vak Silicone Drainage Reservoir

- For low pressure wound drainage
- 100% medical grade silicone
- Superior biocompatibility
- Minimizes tissue trauma
- Simple set-up
- Ergonomic easy to use hanging clip
- Effortless suction activation
- Anti-reflux valve to help prevent backflow
- Clear reservoir and legible graduations
- 100ml / 200ml / 400ml drainage reservoir options
- 400ml reservoir has dual-inlet ports to allow double drain connection without the use of a "Y" connector



Ref	Capacity
171 3011 1	100 ml
171 3013 1	200 ml
171 3014 1	400 ml

B-Vak Silicone Flat Drain

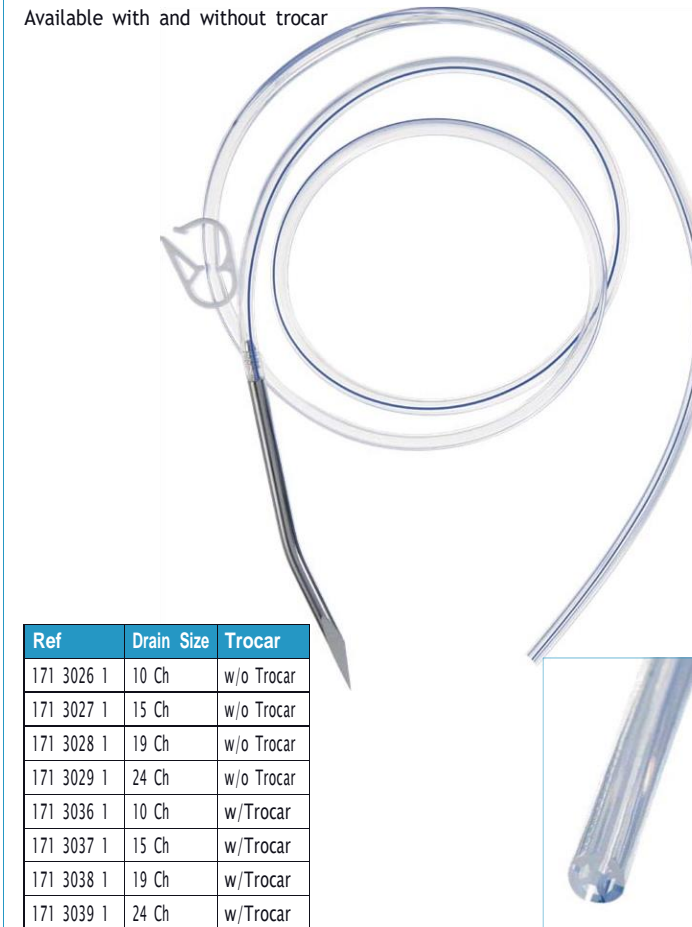
- 100% medical grade silicone
- Superior biocompatibility
- Soft, kink-resistant tubing
- Multiple drainage holes
- Inner lumen ribbing to help prevent drain collapse
- Two-piece design
- Available in 7 mm and 10 mm sizes
- Full perforation
- Radiopaque for x-ray detection
- Available with and without trocar



Ref	Drain Size	Trocar
171 3022 1	7 mm	w/o Trocar
171 3023 1	10 mm	w/o Trocar
171 3032 1	7 mm	w/Trocar
171 3033 1	10 mm	w/Trocar

B-Vak Silicone Channeled Drain

- 100% medical grade silicone
- Four free-flowing channel design offers optimized drainage
- Improved contact with affected tissues
- Providing high tensile strength
- A no-hole design for minimum tissue growth
- Available 10-15-19 -24 Fr hubless sizes
- Radiopaque line
- Available with and without trocar



Ref	Drain Size	Trocar
171 3026 1	10 Ch	w/o Trocar
171 3027 1	15 Ch	w/o Trocar
171 3028 1	19 Ch	w/o Trocar
171 3029 1	24 Ch	w/o Trocar
171 3036 1	10 Ch	w/Trocar
171 3037 1	15 Ch	w/Trocar
171 3038 1	19 Ch	w/Trocar
171 3039 1	24 Ch	w/Trocar

T.U.R. / Arthroscopy Set

- Non-vented spikes
- Clamps and "Y" connector
- Luer lock port cap on the connector to purge air out
- Proximal tip with soft PVC tubing and rotating luer lock connector
- Total length: 205 cm



Ref
430 0001 1

T.U.R. / Arthroscopy Set

With Manual Pressure Pump

- Non-vented spikes
- Clamps and "Y" connector
- Manual pressure pump
- Luer lock port cap on the connector to purge air out
- Proximal tip with soft PVC tubing and rotating luer lock connector
- Total length: 220 cm



Ref
450 0001 1

Thoracic Catheter

With Trocar, Standard Tip

- Trocar with tri-faceted cutting tip
- Flexible tubing wall provides leak proof tissue/tubing interface and easy milking
- Tapered tip for easy and safe insertion
- Cross side eyes to prevent tissue aspiration
- Radiopaque line
- Accurate positioning depth marks at each cm starting 2 cm from the distal end
- Integral large bore tapered connector



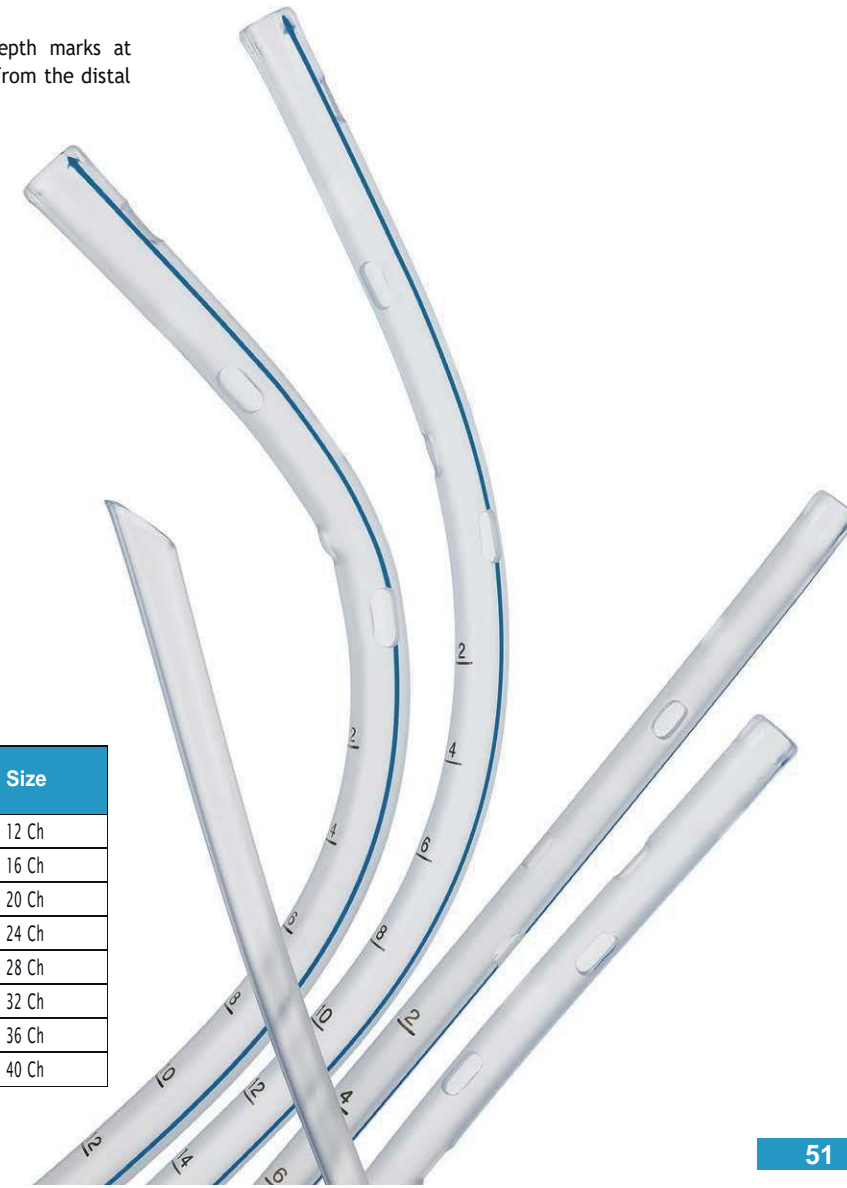
Ref	Size	Length
184 1201 1	12 Ch	225 mm
184 1601 1	16 Ch	235 mm
184 2001 1	20 Ch	390 mm
184 2401 1	24 Ch	390 mm
184 2801 1	28 Ch	390 mm
184 3201 1	32 Ch	390 mm



Thoracic Catheter

- Flexible tubing wall provides leak proof tissue/tubing interface
- Atraumatic, rounded, open distal tip
- Easy to milk
- Cross side eyes to prevent tissue aspiration
- Radiopaque line
- Accurate positioning depth marks at each cm starting 2 cm from the distal end
- Flared end to accept different sized connectors
- Straight or right angled design
- Length: 52 cm

Ref		Size
Straight	Angled	
180 1201 1	182 1201 1	12 Ch
180 1601 1	182 1601 1	16 Ch
180 2001 1	182 2001 1	20 Ch
180 2401 1	182 2401 1	24 Ch
180 2801 1	182 2801 1	28 Ch
180 3201 1	182 3201 1	32 Ch
180 3601 1	182 3601 1	36 Ch
180 4001 1	182 4001 1	40 Ch



BPDS-2000 Pleural Drainage System

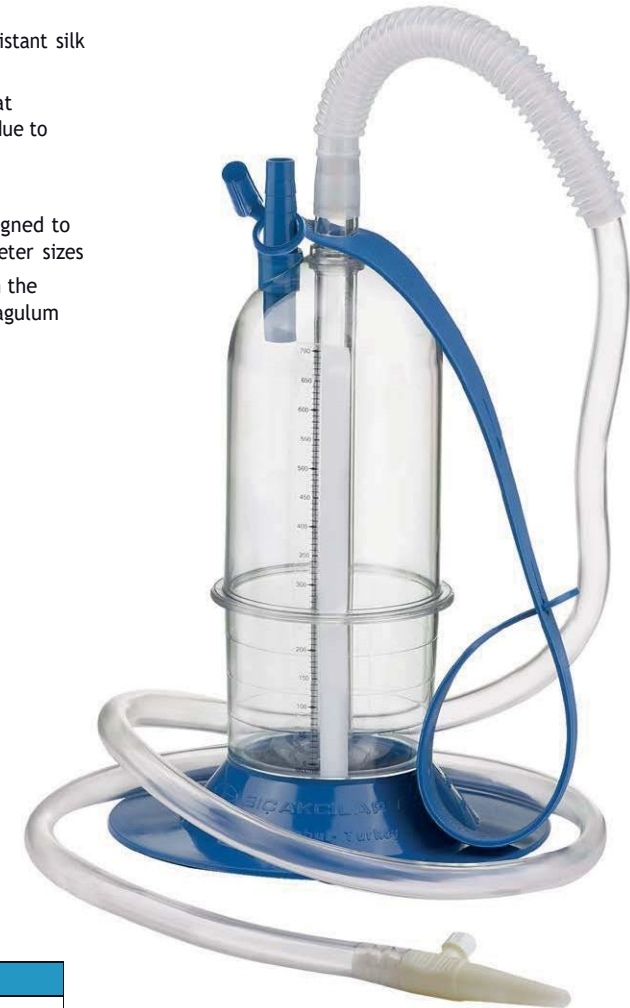
- Underwater seal drainage
- 2000 ml collecting capacity
- Firm stand to avoid accidental overturn
- Handle for patient convenience
- Easy to write on drainage marking scale
- Funnel to facilitate priming
- Easy to milk, soft and kink resistant silk finished tubing
- Corrugated support tubing that prevents drainage obstruction due to kinking at collector inlet
- Length of tubing: 150 cm
- Tube connector specially designed to accept different thoracic catheter sizes
- Optional luer lock port cap on the connector helps to empty coagulum collected in the tubing
- Priming volume: 180cc



Ref	
175 2001 1	w/Luer Lock Port
175 2002 1	w/Antifoam
175 2005 1	w/Latex Tubing
017 2004 1	w/o Luer Lock Port

BPDS-700 Pleural Drainage System

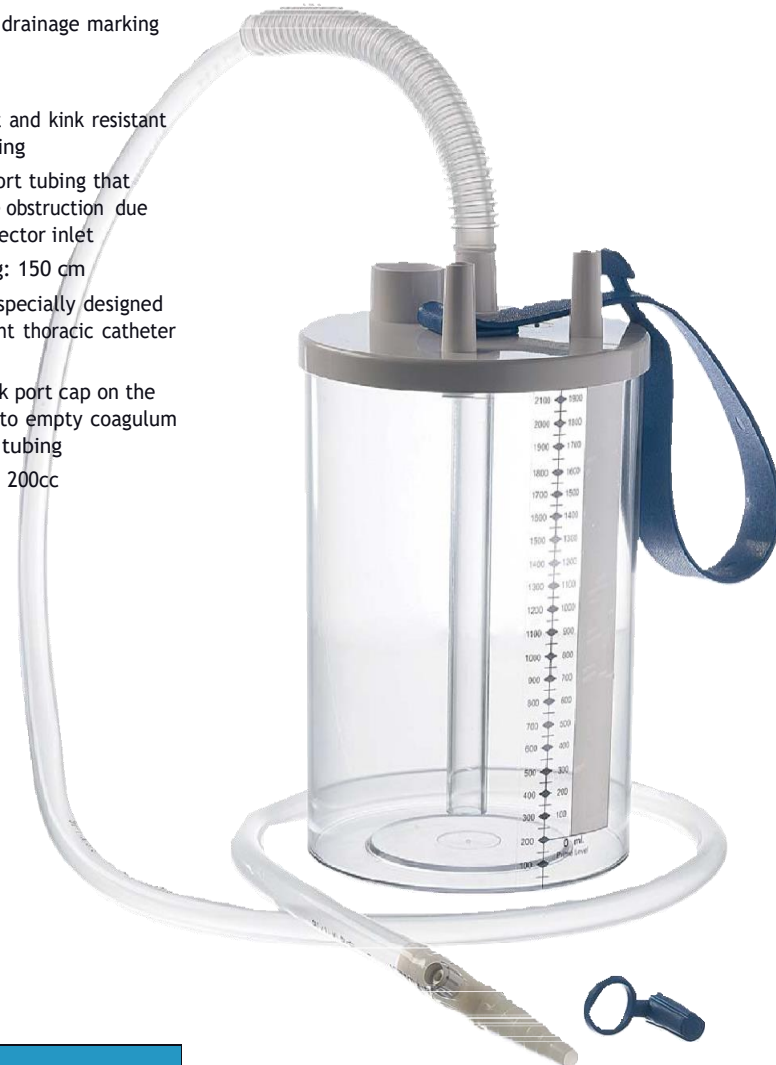
- Underwater seal drainage
- 700 ml collecting capacity
- Firm stand to avoid accidental overturn
- Handle for patient convenience
- Easy to write on drainage marking scale
- Cap
- Easy to milk, soft and kink resistant silk finished tubing
- Corrugated support tubing that prevents drainage obstruction due to kinking at collector inlet
- Length of tubing: 150 cm
- Tube connector specially designed to accept different thoracic catheter sizes
- Optional luer lock port cap on the connector helps to empty coagulum collected in the tubing
- Priming volume: 50cc



Ref	
175 7001 1	w/Luer Lock Port
175 7002 1	w/Antifoam
017 7004 1	w/o Luer Lock Port

BTDS-2001 Thoracic Drainage System

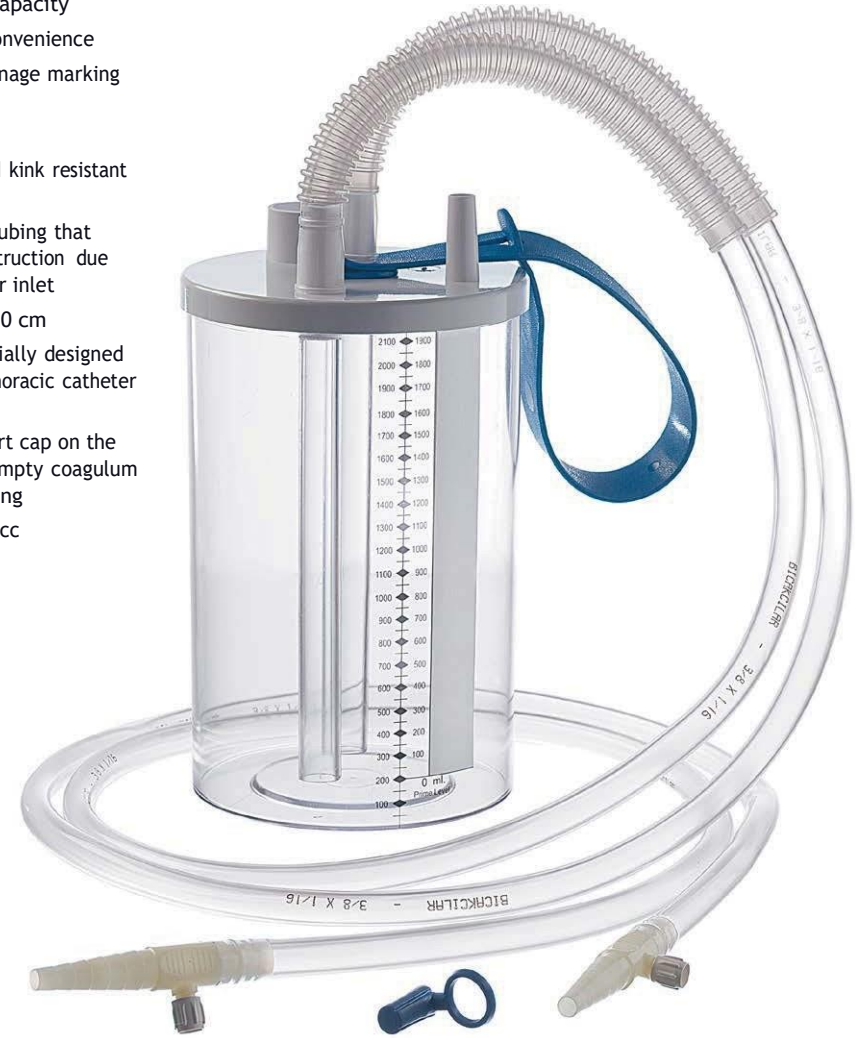
- Underwater seal drainage
- Discard port
- 2000 ml collecting capacity
- Handle for patient convenience
- Easy to write on drainage marking scale
- Cap
- Easy to milk, soft and kink resistant silk finished tubing
- Corrugated support tubing that prevents drainage obstruction due to kinking at collector inlet
- Length of tubing: 150 cm
- Tube connector specially designed to accept different thoracic catheter sizes
- Optional luer lock port cap on the connector helps to empty coagulum collected in the tubing
- Priming volume: 200cc



Ref	
176 2001 1	w/Luer Lock Port
017 6001 1	w/o Luer Lock Port

BTDS-2002 Thoracic Drainage System

- Underwater seal drainage
- Double inlet for multiple tube drainage
- Discard port
- 2000 ml collecting capacity
- Handle for patient convenience
- Easy to write on drainage marking scale
- Cap
- Easy to milk, soft and kink resistant silk finished tubing
- Corrugated support tubing that prevents drainage obstruction due to kinking at collector inlet
- Length of tubing: 150 cm
- Tube connector specially designed to accept different thoracic catheter sizes
- Optional luer lock port cap on the connector helps to empty coagulum collected in the tubing
- Priming volume: 200cc



Ref	
176 2002 1	w/Luer Lock Port

Feeding Tube

- Radiopaque line
- Frosted surface for easy insertion
- Appropriate degree of hardness provides kink resistance
- Accurate positioning depth marks at each cm starting 4 cm from the distal end
- Atraumatic, soft rounded closed tip
- Two lateral eyes with smooth edges
- Connector cap to prevent reflux and contamination
- Color coded connector
- Length: 50 cm



Ref	Size	Color	
197 0420 1	04 Ch	Red	
197 0520 1	05 Ch	Grey	
197 0620 1	06 Ch	Light Green	
197 0820 1	08 Ch	Blue	
197 1020 1	10 Ch	Black	
197 1220 1	12 Ch	White	

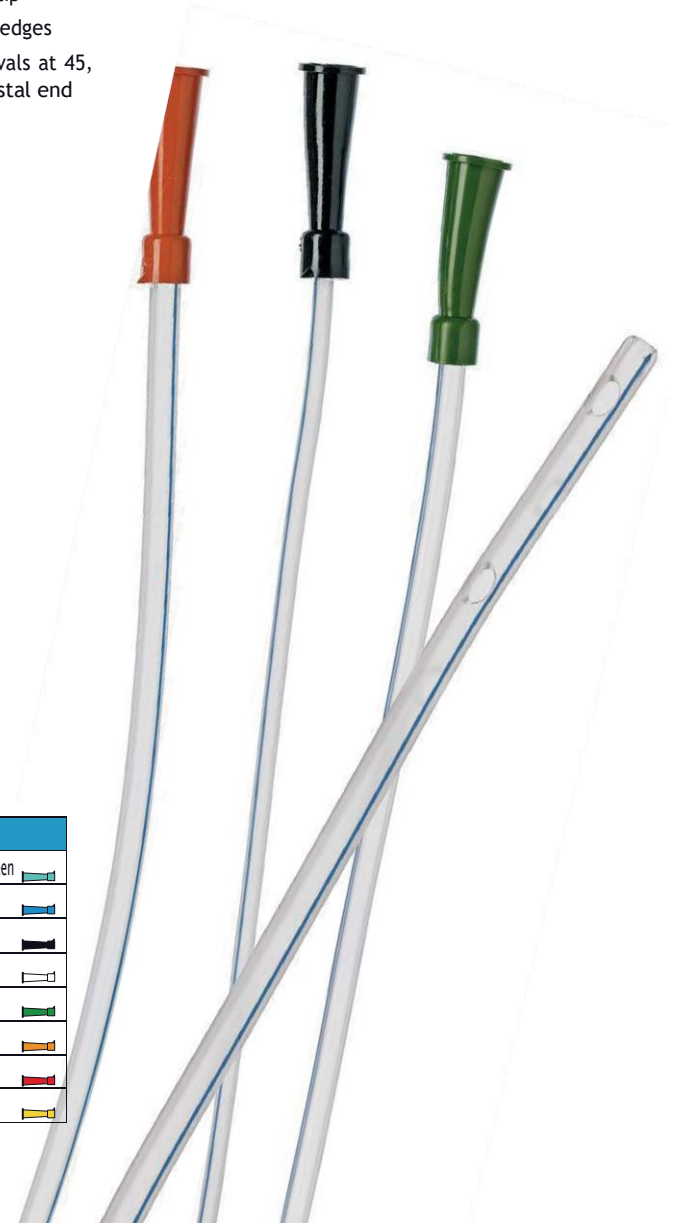


Nasogastric Catheter

Levin

- Radiopaque line
- Frosted surface for easy insertion
- Appropriate degree of hardness provides kink resistance
- Atraumatic, soft rounded open tip
- Four lateral eyes with smooth edges
- Depth marks with 10 cm intervals at 45, 55, 65 and 75 cm from the distal end
- Color coded connector
- Length: 121 cm











Ref	Size	Color	
194 0620 1	06 Ch	Light Green	
194 0820 1	08 Ch	Blue	
194 1020 1	10 Ch	Black	
194 1220 1	12 Ch	White	
194 1420 1	14 Ch	Green	
194 1620 1	16 Ch	Orange	
194 1820 1	18 Ch	Red	
194 2020 1	20 Ch	Yellow	



Rectal Tube

- Frosted surface for easy insertion
- Appropriate degree of hardness provides kink resistance
- Atraumatic, soft rounded closed tip
- Two lateral eyes with smooth edges
- Color coded connector
- Length: 40 cm



Ref	Size	Color	
199 1801 1	18 Ch	Red	
199 2001 1	20 Ch	Yellow	
199 2201 1	22 Ch	Violet	
199 2401 1	24 Ch	Dark Blue	
199 2501 1	25 Ch	Grey	
199 2601 1	26 Ch	White	
199 2801 1	28 Ch	Dark Green	
199 3001 1	30 Ch	Silver Grey	
199 3201 1	32 Ch	Brown	
199 3501 1	35 Ch	Light Grey	

Urimeter 500 Plus

Closed System

- Collecting chamber
 - 500 ml
 - Fine measuring capacity up to 40 ml
 - One-touch fast-flow tap
 - Check valve
 - Hydrophobic air filter
 - Integrated bypass channel to prevent overflow
 - Adjustable fastening straps
 - Folding bed rail hangers
- Bottom outlet urine bag with 2000 ml capacity
 - Non-return valve
 - Hydrophobic air filter
 - Patient identification tag
 - "T" type foldable bottom outlet
 - Bottom outlet insert
- Large bore, kink resistant tubing (single lumen/double lumen options)
- Push-on closure clamp
- Secure catheter connector
- Sampling port options for needle use/needleless use



Tubing Options:



Single Lumen



Double Lumen

Sampling port options:



Sampling port for needleless use



Sampling port for needle use



Folding bed rail hangers



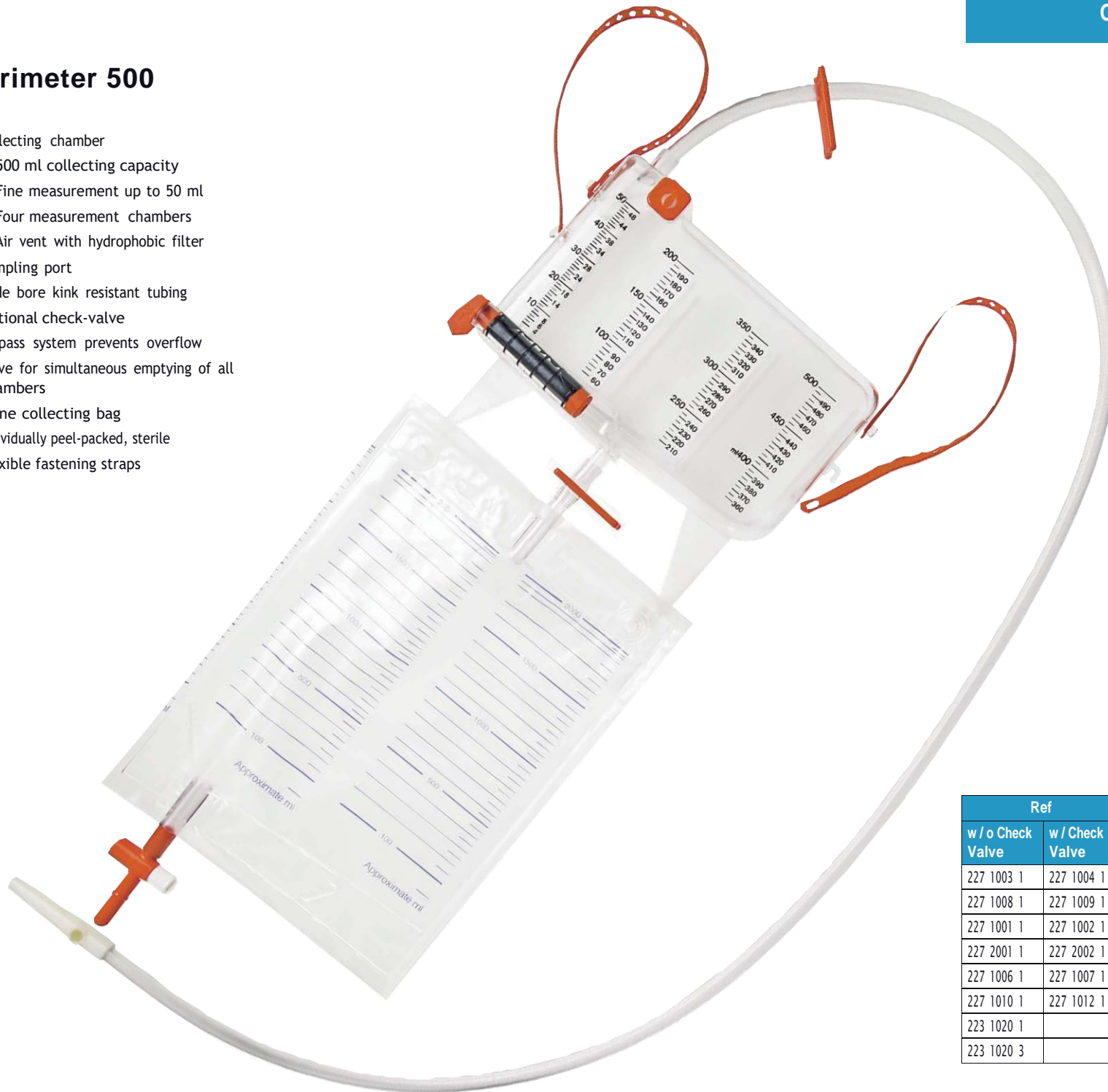
Hydrophobic air filter

Ref	Tubing	Tubing Length	Sampling Port	Check Valve
227 1020 1	w/Single Lumen	150 cm	For Needle Use	w/o Check Valve
227 1021 1	w/Single Lumen	120 cm	For Needleless Use	w/o Check Valve
227 1022 1	w/Single Lumen	120 cm	For Needle Use	w/Check Valve
227 1023 1	w/Single Lumen	120 cm	For Needleless Use	w/Check Valve
227 1030 1	w/Double Lumen	120 cm	For Needleless Use	w/Check Valve
022 7401 1	w/Double Lumen	135 cm	For Needleless Use	w/Check Valve
022 7402 1	w/Single Lumen	150 cm	For Needleless Use	w/o Check Valve

Ref	Spare Bag
223 1040 1	Spare Bag for Urimeter 500 Plus
223 1041 1	Spare Bag for Urimeter 500 Plus - w/o Tap

Urimeter 500

- Collecting chamber
 - 500 ml collecting capacity
 - Fine measurement up to 50 ml
 - Four measurement chambers
 - Air vent with hydrophobic filter
- Sampling port
- Wide bore kink resistant tubing
- Optional check-valve
- By-pass system prevents overflow
- Valve for simultaneous emptying of all chambers
- Urine collecting bag
 - Individually peel-packed, sterile
 - Flexible fastening straps













Ref		Urine Bag
w / o Check Valve	w / Check Valve	
227 1003 1	227 1004 1	w/B1, 1500 ml, w/clamp
227 1008 1	227 1009 1	w/B1, 2000 ml, w/clamp
227 1001 1	227 1002 1	w/B4, 2000 ml
227 2001 1	227 2002 1	w/Integrated B4, 2000 ml
227 1006 1	227 1007 1	w/B4, 2000 ml, w/clamp
227 1010 1	227 1012 1	w/B6, 2000 ml
223 1020 1		Spare B4, 2000 ml, Sterile
223 1020 3		Spare B4, 2000 ml, N/S

Nelaton Catheter

- Frosted surface for easy insertion
- Appropriate degree of hardness provides kink resistance
- Atraumatic, soft rounded closed tip
- Two lateral eyes with smooth edges
- Color coded connector
- Length:
 - Nelaton: 40 cm
 - Nelaton female: 18 cm



Ref		Size	Color
Nelaton	Nelaton Female		
195 0601 1	195 0605 1	06 Ch	Light Green 
195 0801 1	195 0805 1	08 Ch	Blue 
195 1001 1	195 1005 1	10 Ch	Black 
195 1201 1	195 1205 1	12 Ch	White 
195 1401 1	195 1405 1	14 Ch	Green 
195 1601 1	195 1605 1	16 Ch	Orange 
195 1801 1	195 1805 1	18 Ch	Red 
195 2001 1		20 Ch	Yellow 
195 2201 1		22 Ch	Violet 
195 2401 1		24 Ch	Dark Blue 

Tiemann Catheter

Effective catheterization in obstructive passages

Frosted surface for easy insertion

Appropriate degree of hardness provides kink resistance

Atraumatic, angled, slightly rigid closed tip








Two lateral eyes with smooth edges

Marker on funnel connector indicating direction of angled tip

Color coded connector

Length: 40 cm



Ref	Size	Color
195 0820 1	08 Ch	Blue 
195 1020 1	10 Ch	Black 
195 1220 1	12 Ch	White 
195 1420 1	14 Ch	Green 
195 1620 1	16 Ch	Orange 
195 1820 1	18 Ch	Red 
195 2020 1	20 Ch	Yellow 

External Drainage Set

Used for,
Reduction of volume via cerebrospinal fluid drainage, sampling of cerebrospinal fluid and Intracranial pressure monitorization

Burette

- 150 ml capacity
- Antimicrobial filter

Tubing

- 20 cm pressure tubing with radiopaque line
- 170 cm pressure tubing
- Luer lock connector for connecting ventricular catheter's distal connector and cap
- Patient line stopcock with optional transducer connection

Hanger strap and lock for easy height adjustment

B-safe valve

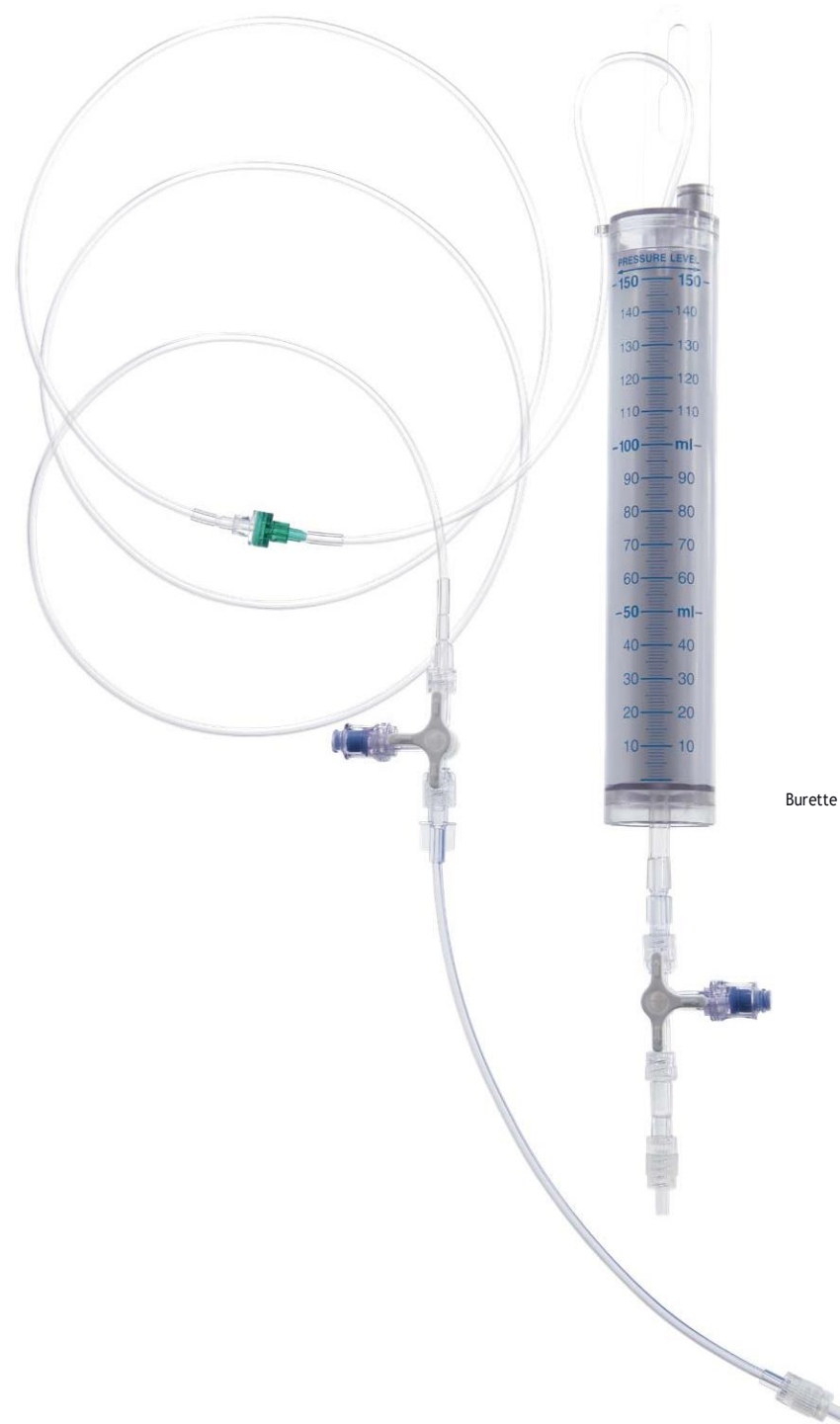
- Suitable for CSF sampling
- Needleless
- Bidirectional

Drainage Bag

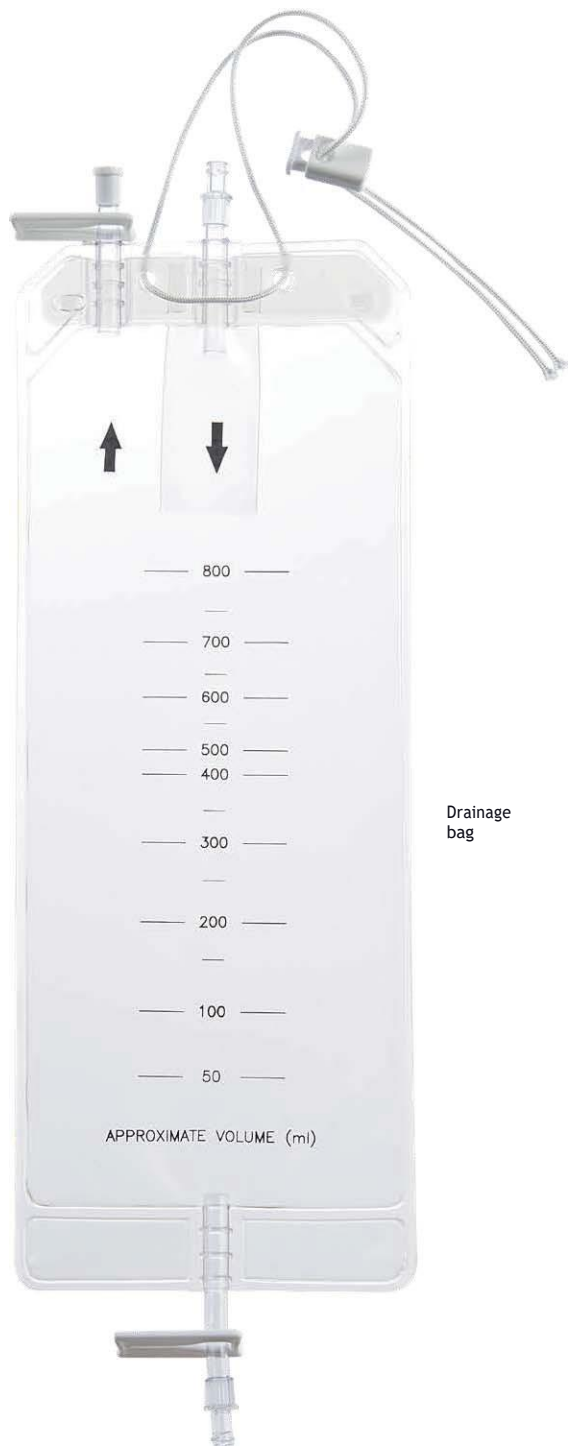
- 800 ml capacity
- 50 ml graduated
- Antimicrobial filter
- Slide clamp

Optional Graduated (cmH₂O and mmHg) pressure scale tape

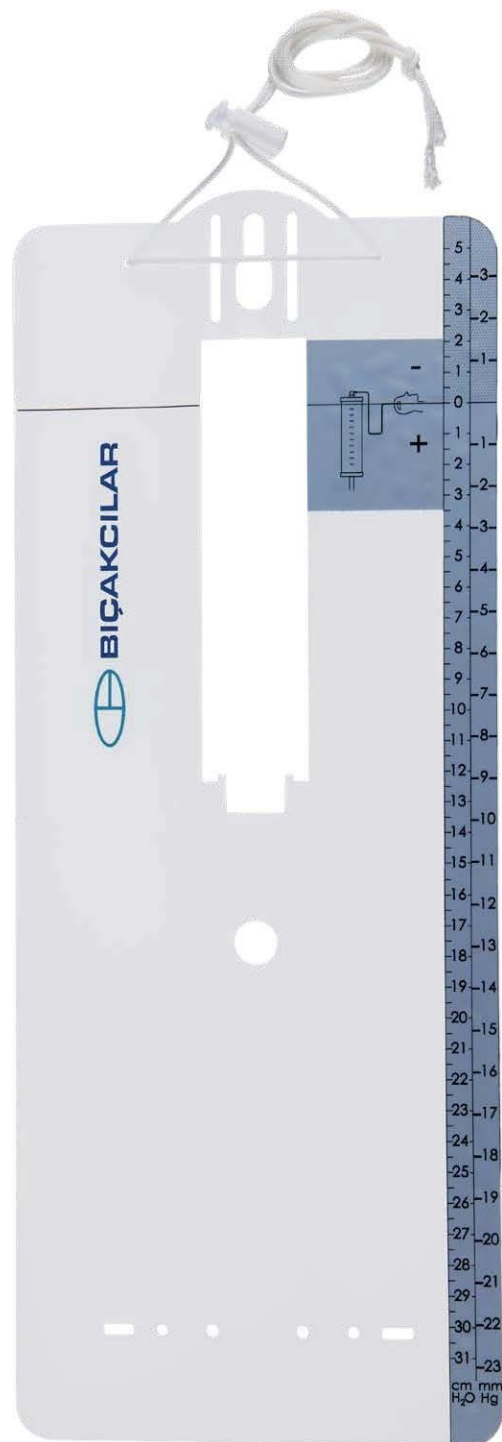
Sterile



Ref	
115 0101 1	External Drainage Set w/150 ml graduated Burette
115 0111 1	External Drainage Set w/150 ml Graduated Burette and Plate



Drainage bag



Graduated plate

Vaginal Speculum

Designed for patient comfort and easy to use

Clear body providing good visualization of the cervix

Wide aperture with support frame

Aperture ? 3cm

Secure screw locking mechanism

Handles and anterior body piece with corrugations to prevent device slippage

Ergonomic design with anti-pinch gaps and smooth rounded blades

Retains an opening force of 45N

Small, medium and large size options

Color coded size indication



Sterile	Ref		Size
595 1001 1	595 1001 2		Small
595 1002 1	595 1002 2		Medium
595 1003 1	595 1003 2		Large

Vaginal Speculum II

Designed for patient comfort and easy to use

Clear body providing good visualization of the cervix

Wide aperture with support frame

Aperture ? 3cm

Secure stepped locking mechanism

Ergonomic design with anti-pinch gaps and smooth rounded blades

Retains an opening force of 45N

Color coded size indication



Ref		Size
Sterile	Non-Sterile	
595 1021 1	595 1021 2	Small
595 1022 1	595 1022 2	Medium
595 1023 1	595 1023 2	Large

Umbilical Cord Clamp

Lock security to prevent accidental opening

Solid grip with toothed design

Rounded edges to prevent skin irritation



Ref
230 0001 1

I.V. Cannula

Back cut needle bevel for easier insertion with minimal trauma

Thin wall FEP catheter with three embedded radiopaque lines provides high flow rate

Flexible and kink resistant catheter is double tapered with a rounded tip for smooth introduction and minimal discomfort to the patient

Injection port option with one way valve and colour coded cap for intermittent and safe administration of drugs during infusion

Flexible wings provide a good grip for easy insertion, secure fixation and also prevent skin contact with luer lock connection

Highly transparent flashback chamber for instant blood backflow indicating vessel entry

Blood stopper

Color coded

Luer lock cap for closing the proximal end of the catheter after needle removal






Ref		Size	Color	O.D. mm	I.D. mm	Cannula Length	Flow Rate ml/min.
w/Port	w/o Port						
146 1401 1		14 G	Orange	2.20	1.74	45 mm	325
146 1601 1		16 G	Grey	1.72	1.33	45 mm	200
146 1801 1		18 G	Green	1.34	1.00	45 mm	100
146 2001 1		20 G	Pink	1.12	0.79	32 mm	58
146 2201 1		22 G	Blue	0.91	0.64	25 mm	32
146 2401 1	145 2401 1	24 G	Yellow	0.71	0.51	19 mm	20

Three Way Stopcock

For pressures up to 5 bar (72 PSI)
 360° rotation
 Color coded arrows indicating flow direction
 Transparent housing
 Rotating male luer lock and two female luer lock connectors



Ref	Color
760 3011 1	White 
760 3031 1	Blue 
760 3041 1	Red 

Three Way Stopcock

1200 PSI

For pressures up to 83 bar (1200 PSI)
 180° rotation
 Arrows indicating flow direction
 Transparent housing
 Rotating male luer lock and two female luer lock connectors



Ref
760 3111 1

Manifold

Flat with cross handle
 Pressure tested
 Arrows to indicate the direction of flow
 Clear housing for maximal visual inspection
 Color coded
 Female luer connectors



Ref	
765 0301 1	Trio
765 0501 1	Quinto

Manifold

Pressure

For pressures up to 41 bar (600 PSI)
 Arrows to indicate the direction of flow
 Clear housing for maximal visual inspection
 Rotating male luer and female luer connectors



Ref		Position
765 1301 1	Trio	Right

B-Flow Flow Regulator

- Flow range 2 to 400 ml/h
- Precise flow rate control
- Constant flow rate
- Optional Latex-free "Y" injection port
- Total length: 45 cm
- Luer lock connector



Without Injection Port

Ref	
106 0003 1	With "Y" Injection Port
106 0010 1	Without Injection Port

B-Flow Flow Regulator

With I.V. Infusion Set

- Flowmeter**
 - Flow range 2 to 400 ml/h
 - Precise flow rate control
 - Constant flow rate
- Infusion set**
 - Vented spike
 - Air-inlet with snap on cap
 - 15 µm fluid filter
 - Length of tubing: 155 cm
- Slide clamp
- Latex-free "Y" injection port
- Luer lock connector



Ref
107 0003 1

B-Flow Safety Flow Regulator

- Flow range 2 to 400 ml/h
- Precise flow rate control
- Constant flow rate
- Optional Latex-free "Y" injection port
- Total length: 45 cm
- Luer lock connector
- Safety cover for safety flow during use



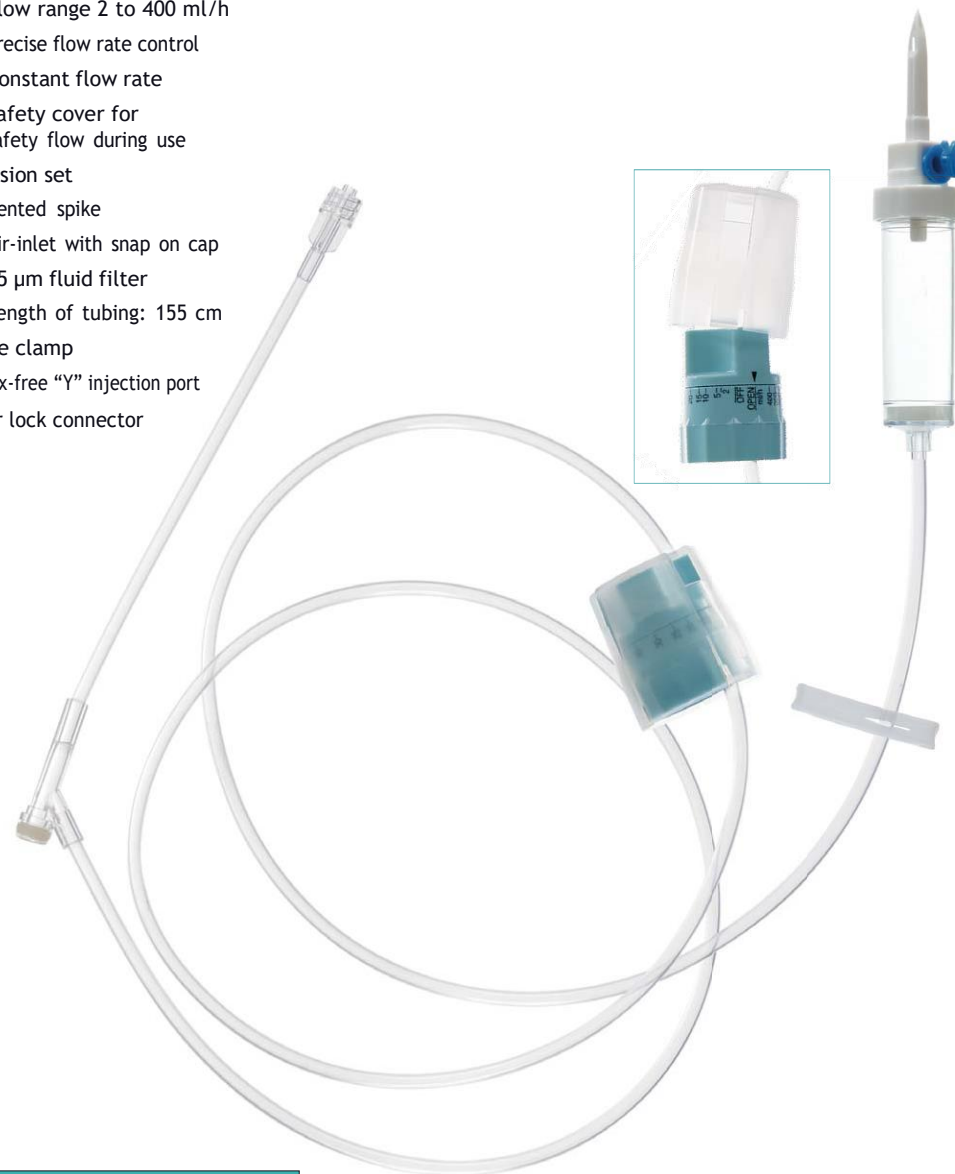
Ref	
106 0004 1	Safety, With "Y" Injection Port
106 0011 1	Safety, Without Injection Port

Without Injection Port

B-Flow Safety Flow Regulator

With I.V. Infusion Set

- Flowmeter
 - Flow range 2 to 400 ml/h
 - Precise flow rate control
 - Constant flow rate
 - Safety cover for safety flow during use
- Infusion set
 - Vented spike
 - Air-inlet with snap on cap
 - 15 µm fluid filter
 - Length of tubing: 155 cm
- Slide clamp
- Latex-free "Y" injection port
- Luer lock connector



Ref
107 0004 1

Instopper

For intermittent injections through latex-free injection site
 Priming volume 0.088 cc
 Prevents contamination
 Male luer lock
 Color: Yellow



Ref
125 0001 1

Stopper

For female luer lock connector
 Prevents contamination
 Male luer lock cap
 Color: Ivory



Ref
125 0005 1

Combi Stopper

Female/Male Cap

For male and female luer lock connectors
 Male and female luer lock cap
 Color: Red



Ref
125 0007 1

B-Safe

Valve

Swabable luer valve for safe, needle-free injection

Male and female luer lock connections

Latex-free



Ref	Color
125 1001 1	Blue ■
125 1002 1	Red ■
125 1005 1	Transparent □

B-Safe

Vial Cap

Provides safe and simple access to multidose vial containers and I.V. fluid bags

20 or 13 mm drug vial cap integrated with swabable needle-free valve

Luer lock connector

Latex-free



13 mm

20 mm

Ref	Size
125 1003 1	20 mm
125 1004 1	13 mm

B-Safe

Spike

Swabable luer valve for safe, needle-free injection

Non-vented spike

Latex-free



Ref
125 1010 1

B-Safe

Extension Line

Swabable luer valve for safe, needle-free injection

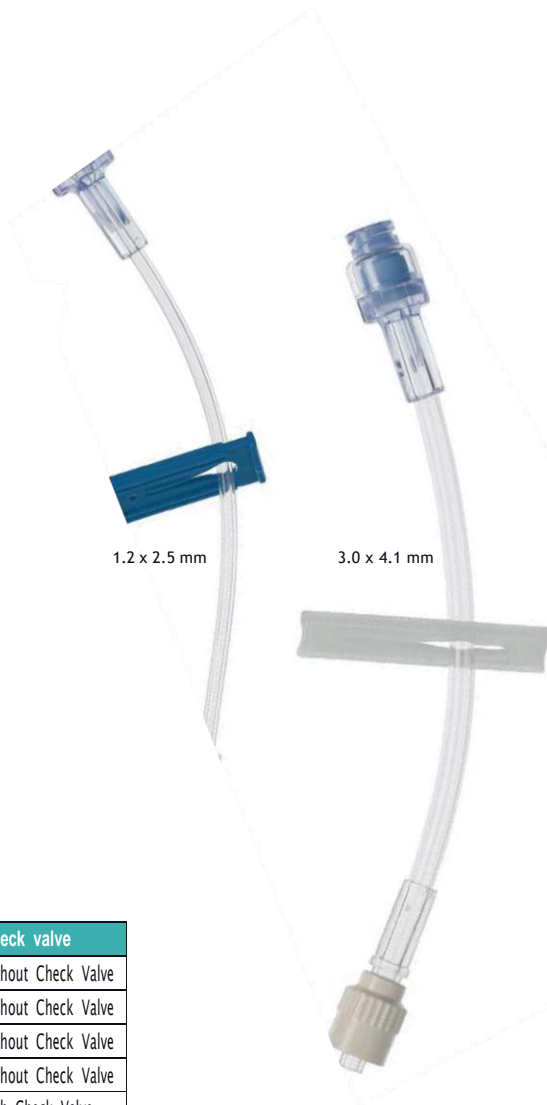
Slide clamp

Male rotating luer lock connector

Total length: 14 cm



Transparent



1.2 x 2.5 mm

3.0 x 4.1 mm

Ref	Tubing	Color	Check valve
131 0010 1	1.2 x 2.5 mm	Blue	Without Check Valve
131 0011 1	3.0 x 4.1 mm	Blue	Without Check Valve
131 0012 1	1.2 x 2.5 mm	Transparent	Without Check Valve
131 0013 1	3.0 x 4.1 mm	Transparent	Without Check Valve
131 0014 1	1.2 x 2.5 mm	Blue	With Check Valve
131 0015 1	1.2 x 2.5 mm	Transparent	With Check Valve
131 0016 1	3.0 x 4.1 mm	Blue	With Check Valve
131 0017 1	3.0 x 4.1 mm	Transparent	With Check Valve

B-Safe

Extension Line, Duo

Two swabable luer valve for safe, needle-free injection

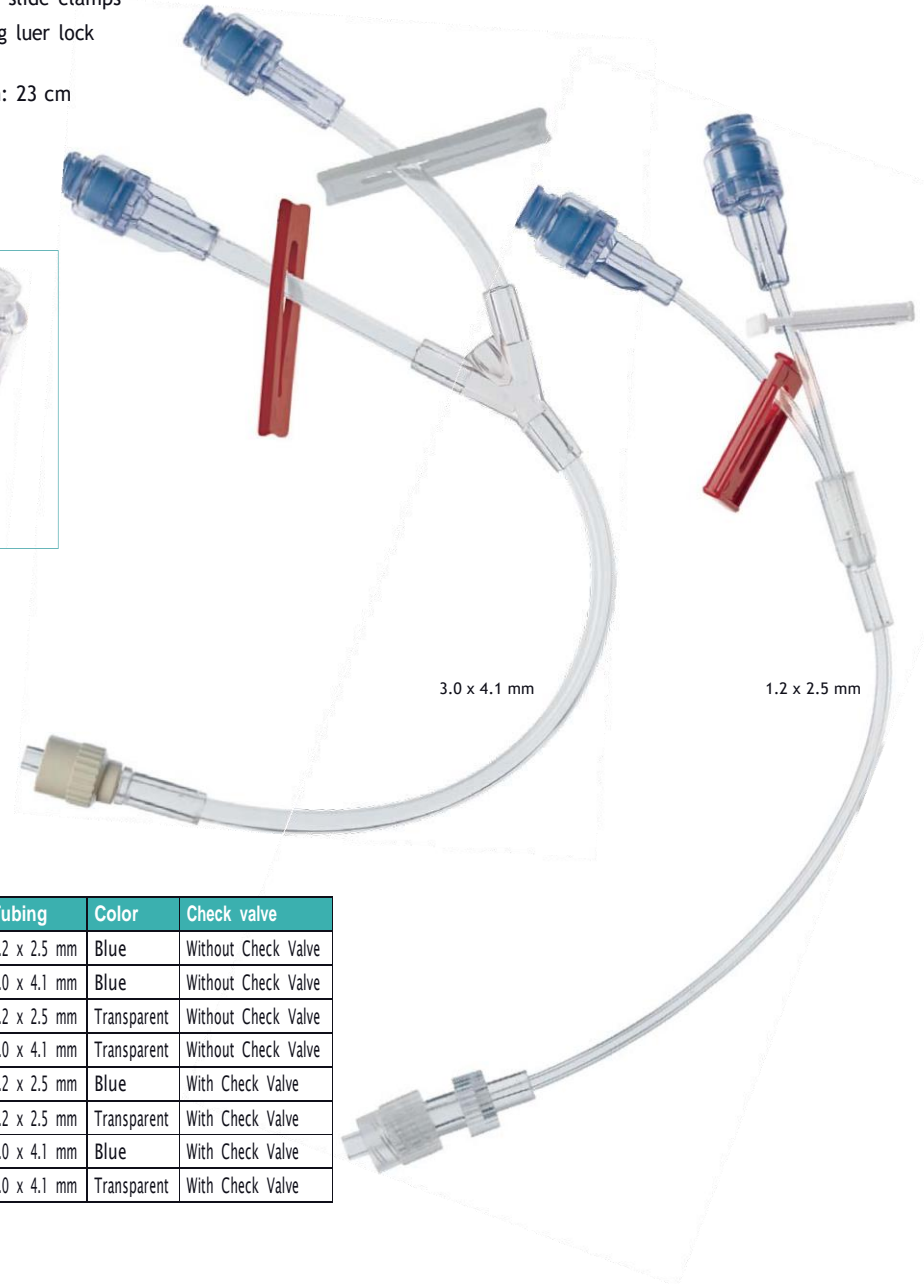
Color coded slide clamps

Male rotating luer lock connector

Total length: 23 cm



Transparent



3.0 x 4.1 mm

1.2 x 2.5 mm

Ref	Tubing	Color	Check valve
132 0010 1	1.2 x 2.5 mm	Blue	Without Check Valve
132 0011 1	3.0 x 4.1 mm	Blue	Without Check Valve
132 0013 1	1.2 x 2.5 mm	Transparent	Without Check Valve
132 0014 1	3.0 x 4.1 mm	Transparent	Without Check Valve
132 0015 1	1.2 x 2.5 mm	Blue	With Check Valve
132 0016 1	1.2 x 2.5 mm	Transparent	With Check Valve
132 0017 1	3.0 x 4.1 mm	Blue	With Check Valve
132 0018 1	3.0 x 4.1 mm	Transparent	With Check Valve

B-Safe

Extension Line, Trio

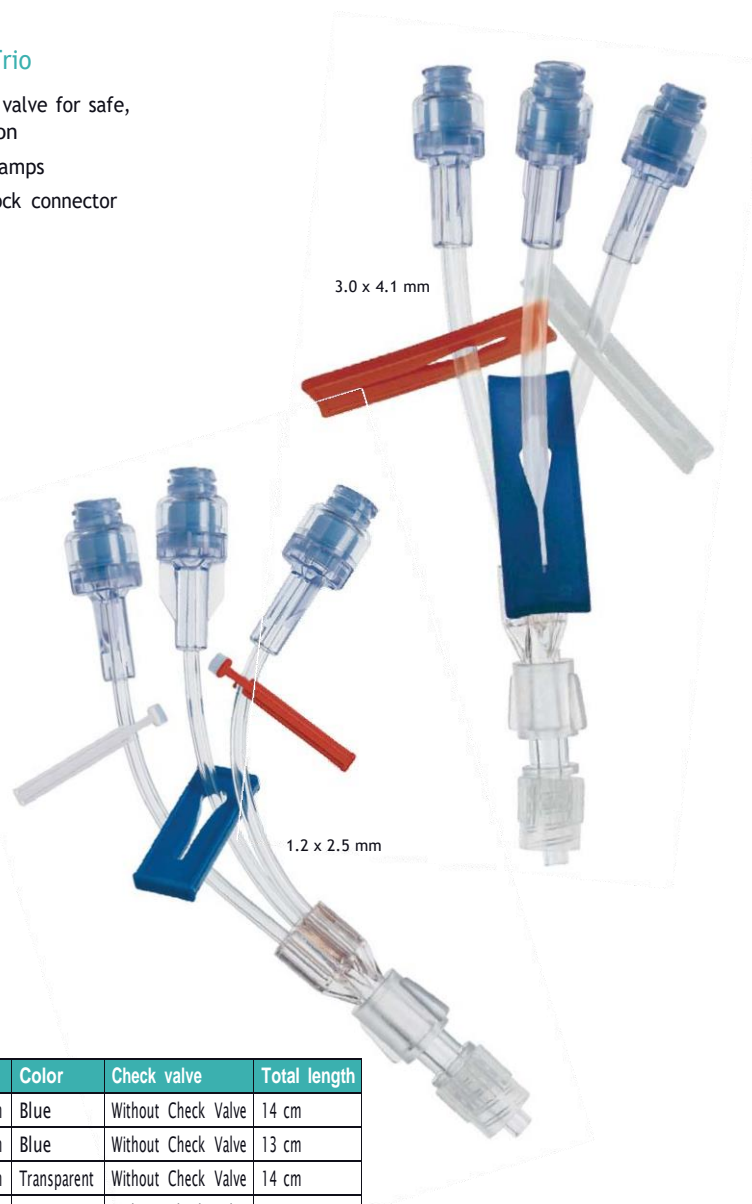
Three swabable luer valve for safe, needle-free injection

Color coded slide clamps

Male rotating luer lock connector



Transparent



Ref	Tubing	Color	Check valve	Total length
133 0010 1	1.2 x 2.5 mm	Blue	Without Check Valve	14 cm
133 0011 1	3.0 x 4.1 mm	Blue	Without Check Valve	13 cm
133 0012 1	1.2 x 2.5 mm	Transparent	Without Check Valve	14 cm
133 0013 1	3.0 x 4.1 mm	Transparent	Without Check Valve	13 cm
133 0014 1	1.2 x 2.5 mm	Blue	With Check Valve	14 cm
133 0015 1	1.2 x 2.5 mm	Transparent	With Check Valve	14 cm
133 0016 1	3.0 x 4.1 mm	Blue	With Check Valve	13 cm
133 0017 1	3.0 x 4.1 mm	Transparent	With Check Valve	13 cm

B-Safe

Extension Line With "T" Connector

"T" type male luer lock connector with swabable luer valve for safe, needle-free injection

1.2 x 2.5 mm tubing

Slide clamp

Luer lock connector

Total length: 11 cm



Transparent

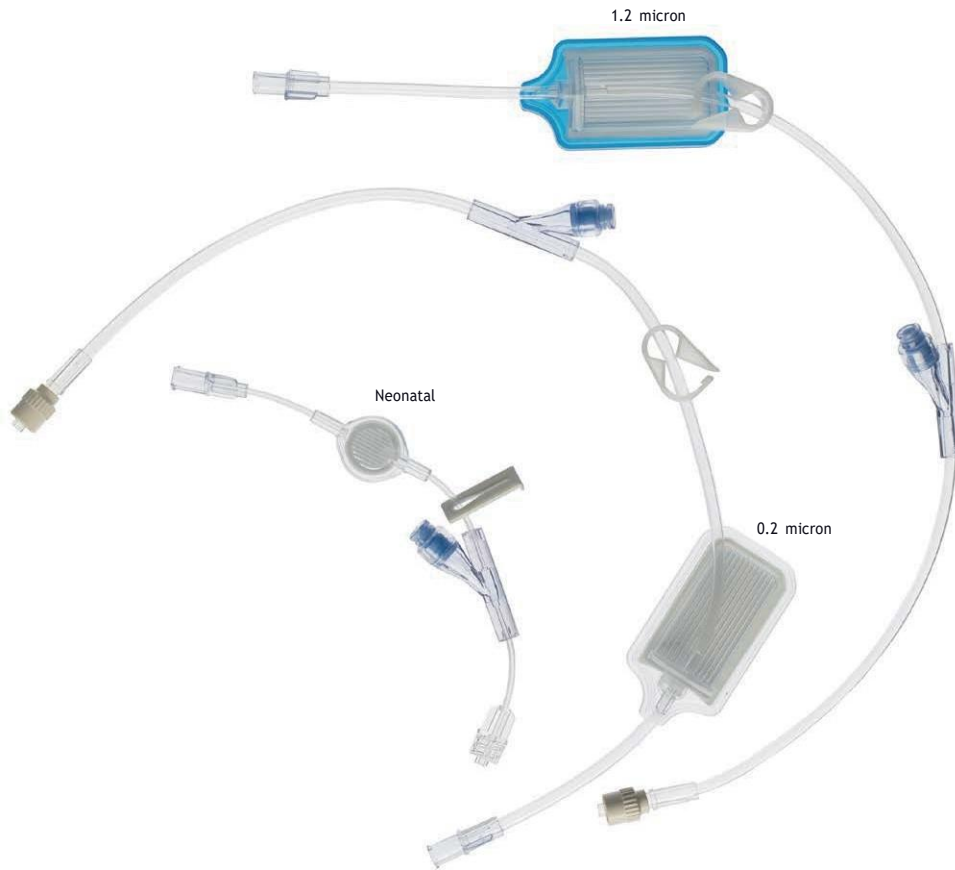


Ref	Color
124 1030 1	Blue
124 1031 1	Transparent

B-Safe

I.V. Filter Set

- Filters bacteria and particles
- Effective air venting regardless of position
- Swabable luer valve for safe, needle-free injection
- Luer lock connector



Ref	Filter	Total Length
114 0260 1	0.2 micron	43 cm
114 0261 1	1.2 micron	43 cm
114 0255 1	Neonatal	27 m

Transfer Set

- For aseptic transfer of sterile fluids to containers with other fluids, lyophilized drugs and other additives
- Efficient transfer provided with minimum residual volume
- Ergonomic design for convenient handling
- Standard length
- Strong and slim spike for safe penetration
- Special tip design to prevent coring



Ref
125 0010 1

Extension Line

250 PSI

For pressures up to 17 bar (250 PSI)

Ø 3.0 x 4.1 mm tubing

Luer lock connector



Ref		Length
M/F	M/M	
120 1030 1	120 2030 1	30 cm
120 1050 1	120 2050 1	50 cm
120 1060 1	120 2060 1	60 cm
120 1075 1	120 2075 1	75 cm
120 1090 1	120 2090 1	90 cm
120 1100 1	120 2100 1	100 cm
120 1120 1	120 2120 1	120 cm
120 1145 1	120 2145 1	145 cm
120 1150 1	120 2150 1	150 cm

Extension Line

Smallbore - 250 PSI

For pressures up to 17 bar (250 PSI)

Ø 1.2 x 2.5 mm tubing

Luer lock connector



Ref		Length
M/F	M/M	
012 7050 1	012 8050 1	50 cm
012 7100 1	012 8100 1	100 cm
012 7150 1	012 8150 1	150 cm

Extension Line

With Three Way Stopcock

- Three way stopcock
- Ø 3.0 x 4.1 mm tubing
- Male luer lock connector



Ref	Length
123 1010 1	10 cm
123 1030 1	30 cm
123 1050 1	50 cm
123 1060 1	60 cm
123 1075 1	75 cm
123 1090 1	90 cm
123 1120 1	120 cm
123 1145 1	145 cm
123 1150 1	150 cm

Extension Line

With "T" Connector and Slide Clamp

- "T" type male or male luer lock connector with latex-free injection port
- Connector cap
- 10 cm, microbore tubing
- Slide clamp
- Luer or luer lock connector option



Ref	Connector
124 1010 1	Luer
124 1015 1	Luer Lock

Pressure Line

600 PSI, With Slide Clamp

- For pressures up to 41 bar (600 PSI)
- Ø 1.5 x 3.0 mm tubing
- Female luer lock connector
- Slide clamp



Ref	Connector	Length
138 5015 1	M/F	15 cm
138 5030 1	M/F	30 cm
138 5060 1	M/F	60 cm
138 5075 1	M/F	75 cm
138 5090 1	M/F	90 cm
138 5100 1	M/F	100 cm
138 5120 1	M/F	120 cm
138 5145 1	M/F	145 cm
138 5150 1	M/F	150 cm
138 5180 1	M/F	180 cm
138 5210 1	M/F	210 cm

Pressure Line

800 PSI

For pressures up to 55 bar (800 PSI)

Ø 1.5 x 3.0 mm tubing

Male luer lock and female luer lock connectors



Ref		Length
M/F	M/M	
138 3030 1	138 4030 1	30 cm
138 3060 1	138 4060 1	60 cm
138 3075 1	138 4075 1	75 cm
138 3090 1	138 4090 1	90 cm
138 3120 1	138 4120 1	120 cm
138 3145 1	138 4145 1	145 cm

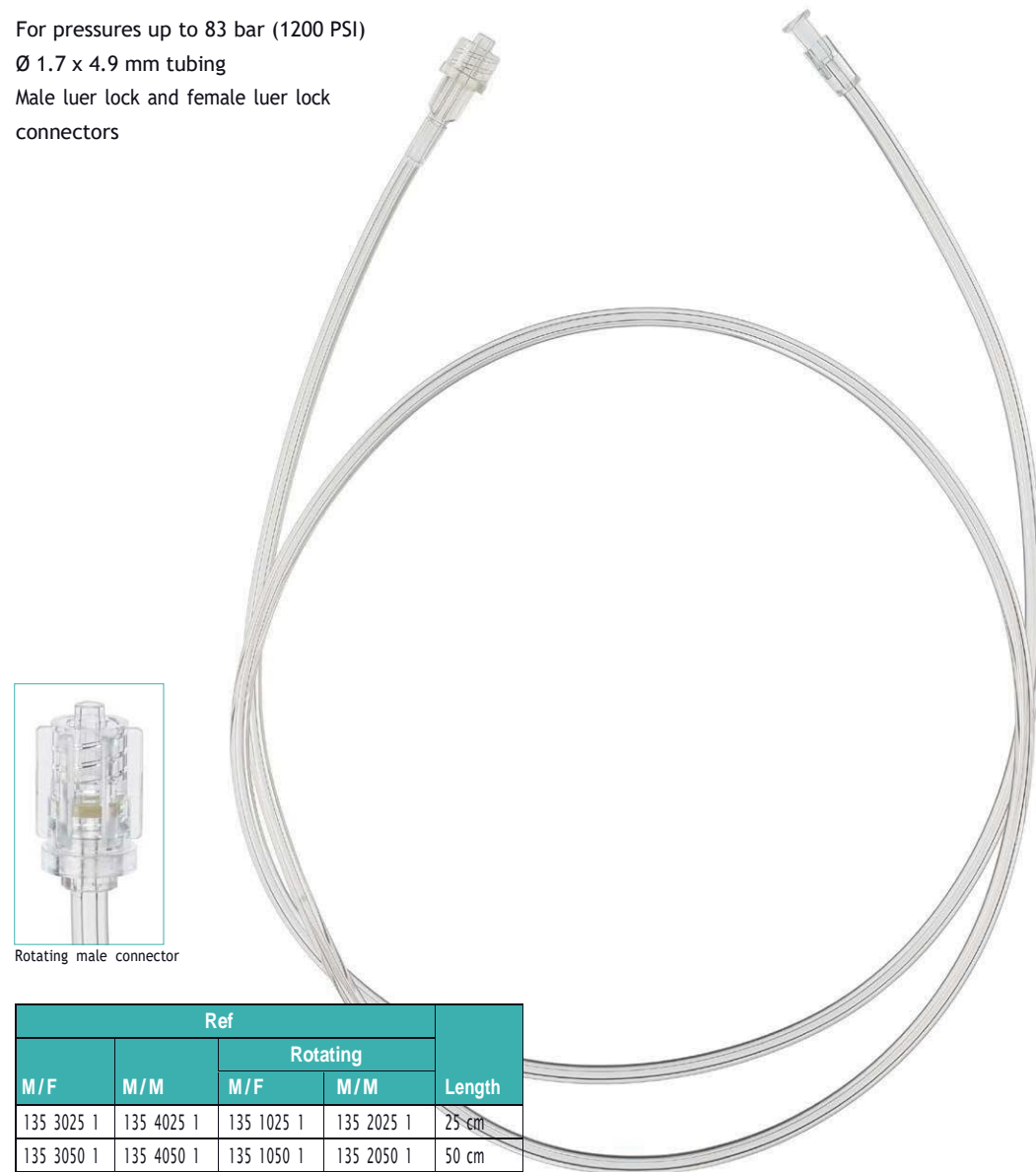
Pressure Line

1200 PSI

For pressures up to 83 bar (1200 PSI)

Ø 1.7 x 4.9 mm tubing

Male luer lock and female luer lock connectors



Rotating male connector

Ref				Length
M/F	M/M	Rotating		
		M/F	M/M	
135 3025 1	135 4025 1	135 1025 1	135 2025 1	25 cm
135 3050 1	135 4050 1	135 1050 1	135 2050 1	50 cm
135 3075 1	135 4075 1	135 1075 1	135 2075 1	75 cm
135 3100 1	135 4100 1	135 1100 1	135 2100 1	100 cm
135 3125 1	135 4125 1	135 1125 1	135 2125 1	125 cm

B-Leuko Leukocyte Depletion Filter

B-Leuko leukocyte depletion filter is intended for the leukocyte reduction of red blood cell concentrates and whole blood

- Bedside filtration for one or two units of red cells
- Bedside and laboratory type options
- Bedside filter with air vent options
- Clinically proven filter media technology (Non-woven polyester, excellent wettability feature, high biocompatibility)
- No requirement for saline solution priming
- Transparent polycarbonate housing
- High efficiency leukocyte removal (Filtration performance <math> < 2 \times 10^5 </math>)
- High red blood cell recovery rate (Erythrocyte recovery rate is greater than 90%)
- Low priming volume
- Filtration time; approximately 15 minutes for one unit red blood cell concentrate
- Latex-free

Ref		
EtO Sterile	Gama Sterile	B-Leuko
157 0010 1	157 0010 1G	Bedside, Without Air Vent, With Double Spikes
157 0011 1	157 0011 1G	Bedside, With Air Vent and Double Spikes
157 0012 1	157 0012 1G	Bedside, Without Air Vent, With Single Spike
157 0013 1	157 0013 1G	Bedside, With Air Vent and Single Spike
157 0014 1	157 0014 1G	Bedside, With Air Vent, Single Spike and Prefilter
157 0040 1	157 0040 1G	Laboratory Type
157 0041 1	157 0041 1G	Laboratory Type, With Prefilter

Air Vented System

Air vent allows recovery of the remaining erythrocytes to be given to the patient.

Filtering material

Non-woven polyester
Excellent wettability feature
High biocompatibility

Filter Design

Bedside is designed to provide quick priming with upside down position.

Filter Housing

Durable polycarbonate body with superb flow dynamics
Transparent housing facilitates ease of use
Transparent housing for easy monitorization of priming and blood flow



Performance Summary*

Erythrocyte Concentration, Gravitational Force**

Additive Solution	RBC Age (days)	Prefiltration (10^9 /unit)	Post-filtration (10^5 /unit)	Prefiltration Volume (ml)	Post-filtration Volume (ml)	HTC %
SAG-M	10	2,57	0,29	369	338	62,9
	20	1,38	0,28	374	332	66,5

Filtration loss** : 35 ml - RBC recovery** : > 90% - Filtration time** : 20 min
** Average of unit 1 + unit 2

1 Unit Whole Blood, Gravitational Force

Whole Blood Storage (hours)	Prefiltration (10^9 /unit)	Post-filtration (10^5 /unit)	Prefiltration Volume (ml)	Post-filtration Volume (ml)	HTC %
2 - 4	4,04	0,54	600	575	42

Filtration loss: 25 ml - RBC recovery: > 90% - Filtration time: 6 min

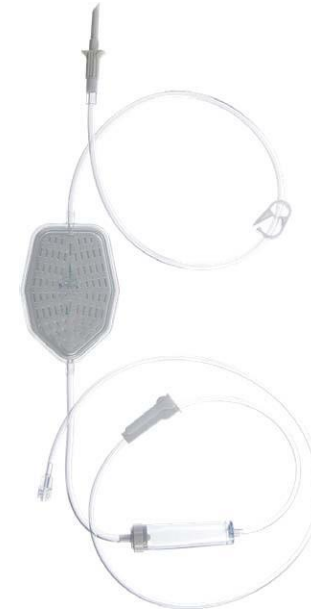
* Post-filtration WBC count was determined by flow cytometry. The blood was stored at 4°C and the filtration was performed at room temperature.



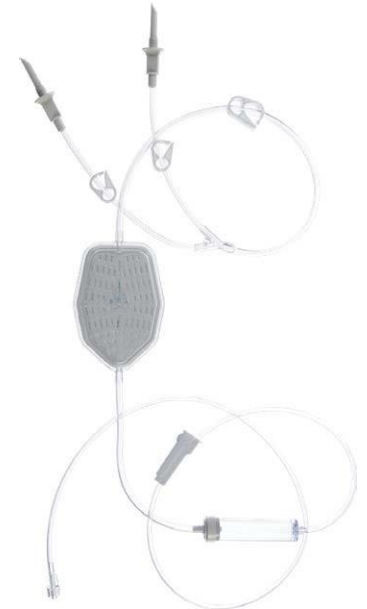
Laboratory Type, With Prefilter
 Ref: 157 0041 1, 157 0041 1G



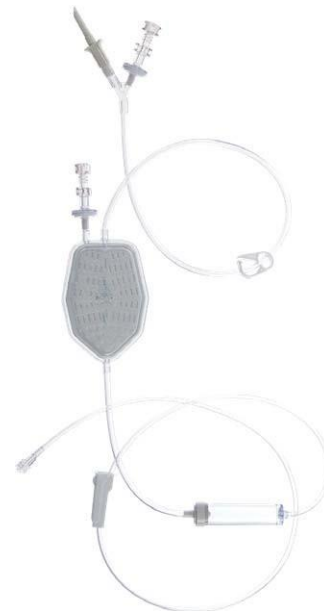
Laboratory Type
 Ref: 157 0040 1, 157 0040 1G



Bedside, Without Air Vent, With Single Spike
 Ref: 157 0012 1, 157 0012 1G



Bedside, Without Air Vent, With Double Spikes
 Ref: 157 0010 1, 157 0010 1G



Bedside, With Air Vent and Single Spike
 Ref: 157 0013 1, 157 0013 1G



Bedside, With Air Vent and Double Spikes
 Ref: 157 0011 1, 157 0011 1G



Bedside, With Air Vent, Single Spike and Prefilter
 Ref: 157 0014 1, 157 0014 1G

Extracorporeal Tubing Set

Adult, pediatric and infant tubing sets

Custom made to meet individual requirements. Maximum safety with the most economic solution.

Table set includes; arterial, venous and cardiotomy lines.

Perfusionist set includes lines for oxygenator, cardiotomy vent and cardiotomy reservoir. These two sets can be dispensed separately or together upon request.

Supplied with a packaging system that provides maximum safety for sterility and transportation



Adult



Pediatric

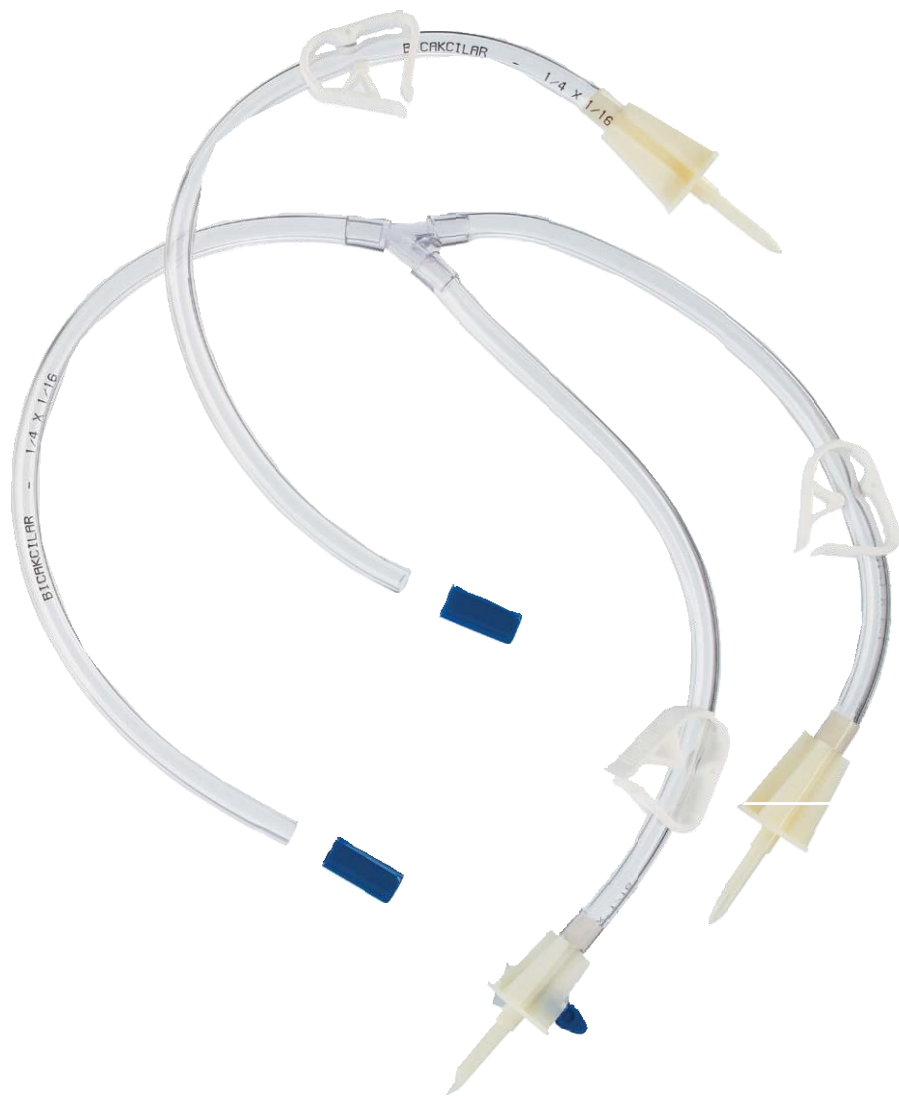


Infant

Ref
300 XXXX 1

Quick Prime Set

Allows fast priming of the set
 Custom configuration available upon request



Ref
320 0491 1

Tubing

PVC

Transparent medical grade PVC
 Kink and pressure resistant
 For extracorporeal circulation and roller pump lines
 Packaged in requested length and sterile or non-sterile in reels



Ref	Sterile	I.D.	Wall Thickness	O.D.	Length cm
305 1175	1	1/4"	1/16"	3/8"	175
305 1200	1	1/4"	1/16"	3/8"	200
306 1175	1	3/8"	1/16"	1/2"	175
306 1200	1	3/8"	1/16"	1/2"	200
306 2175	1	3/8"	3/32"	9/16"	175
306 2200	1	3/8"	3/32"	9/16"	200
307 2175	1	1/2"	3/32"	11/16"	175
307 2200	1	1/2"	3/32"	11/16"	200

Ref	Non-Sterile	I.D.	Wall Thickness	O.D.	Length m / reel
305 1000	3	1/4"	1/16"	3/8"	100
305 2000	3	1/4"	3/32"	7/16"	50
306 1000	3	3/8"	1/16"	1/2"	50
306 2000	3	3/8"	3/32"	9/16"	40
307 2000	3	1/2"	3/32"	11/16"	30

Straight Connector

Meets all connection requirements of the extracorporeal circulation system

Unique design and precision moulding techniques allow a smooth transition at tubing and connector junctions reducing blood turbulence

Produced from crystal clear polycarbonate allowing maximum visibility during de-airing procedures



Ref		Size
Luer		
750 0111	751 0111	3/16" x 3/16"
750 0121	751 0121	3/16" x 1/4"
750 0221	751 0221	1/4" x 1/4"
750 0321	751 0321	1/4" x 3/8"
750 0331	751 0331	3/8" x 3/8"
750 0421	751 0421	1/4" x 1/2"
750 0431	751 0431	3/8" x 1/2"
750 0441	751 0441	1/2" x 1/2"

"Y" Connector

Meets all connection requirements of the extracorporeal circulation system

Unique design and precision moulding techniques allow a smooth transition at tubing and connector junctions reducing blood turbulence

Produced from crystal clear polycarbonate allowing maximum visibility during de-airing procedures



Ref	Luer	Size		
		①	②	③
754 2221	755 2221	1/4"	1/4"	1/4"
754 3221	755 3221	3/8"	1/4"	1/4"
754 3321	755 3321	3/8"	1/4"	3/8"
754 3331	755 3331	3/8"	3/8"	3/8"
754 4321	755 4321	1/2"	3/8"	1/4"
754 4331	755 4331	1/2"	3/8"	3/8"
754 4421	755 4421	1/2"	1/2"	1/4"
754 4431	755 4431	1/2"	1/2"	3/8"
754 4441	755 4441	1/2"	1/2"	1/2"

Tubing Connector

3/8" x 3/8"

Conical connector
 Strong and safe connection
 Clear polycarbonate
 3/8" x 3/8" connection
 Length: 88 mm



Ref	
236 0001 1	Sterile
236 0001 3	Bulk

Tubing Connector

3/8" x 1/4"

Conical connector
 Strong and safe connection
 3/8" x 1/4" connection
 Length: 79 mm



Ref	
236 0005 1	Sterile
236 0005 3	Bulk

Conical Connector

Luer lock proximal end
 Length: 40 mm



Ref	
235 0001 1	Sterile
235 0001 3	Bulk

Cardioplegia Set

Adult, pediatric, with coil and with heat exchanger systems

For delivery of antegrade/retrograde cardioplegia

Custom design

Piercing spike without air vent

Flexible drip chamber with screen filter

Aluminium coil

Clamp

Male luer lock adapter



Ref	
325 XXXX 1	Adult With Bag
325 XXXX 1	Pediatric With Bag
325 XXXX 1	With Coil
325 XXXX 1	With Heat Exchanger



Cardioplegia Set - Adult



Cardioplegia Set - Pediatric



Cardioplegia Set With Coil



Cardioplegia Set With Heat Exchanger

Vent Catheter

- Effective drainage
- Non-traumatic bullet tip
- Flexible, kink-resistant tubing
- Depth markings

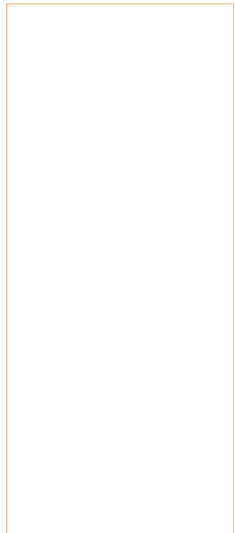


Ref		Size	Length
w / o Connector	w / Connector		
330 0391 1	330 0394 1	18 Fr	25 cm
330 0392 1	330 0395 1	18 Fr	40 cm

Ventricular Vent Catheter

PVC

- Effective drainage
- Non-traumatic open tip
- Flexible, kink-resistant tubing
- With straight connector
- Depth markings



Ref	Size	Length	Tip Perforation
330 0360 1	16 Fr	43 cm	2.5 cm

Ventricular Vent Catheter

With Malleable Stylet, PVC

- Effective drainage
- Non-traumatic open tip
- Flexible, kink-resistant tubing
- With straight connector
- Internal, malleable stylet
- Depth markings



Ref	Size	Length	Tip Perforation
330 0356 1	18 Fr	38 cm	3 cm

Ventricular Vent Catheter

PVC

- Effective drainage
- Non-traumatic rounded closed tip
- Flexible, kink-resistant tubing
- With straight connector
- Depth markings



Ref	Size	Length	Tip Perforation
330 0365 1	16 Fr	38 cm	5.5 cm

Ventricular Vent Catheter

With Luer Connector, PVC

- Effective drainage
- Non-traumatic rounded closed tip
- Flexible, kink-resistant tubing
- With straight luer connector
- Depth markings

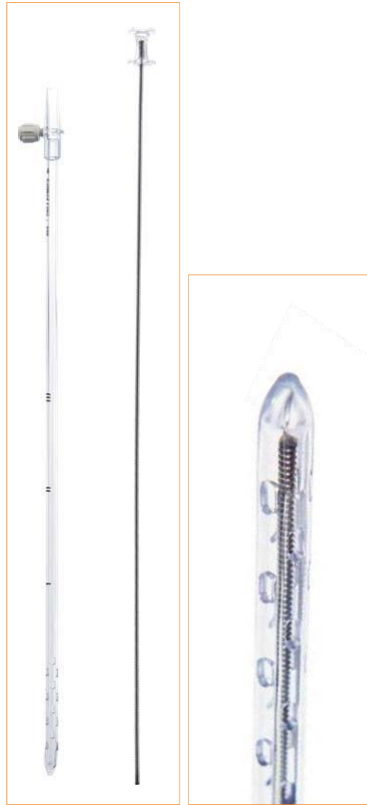


Ref	Size	Length	Tip Perforation
330 0385 1	16 Fr	38 cm	5.5 cm
330 0386 1	18 Fr	38 cm	7 cm
330 0387 1	20 Fr	38 cm	7 cm

Ventricular Vent Catheter

With Malleable Stylet, With Luer Connector, PVC

- Effective drainage
- Non-traumatic rounded closed tip
- Flexible, kink-resistant tubing
- With straight luer connector
- Removable, malleable stylet
- Depth markings



Ref	Size	Length	Tip Perforation
330 0370 1	10 Fr	32 cm	2 cm
330 0371 1	13 Fr	32 cm	3.5 cm
330 0380 1	16 Fr	38 cm	5.5 cm
330 0381 1	18 Fr	38 cm	7 cm
330 0382 1	20 Fr	38 cm	7 cm



Ventricular Vent Catheter

With Malleable Stylet, Silicone

- Effective drainage
- Non-traumatic rounded closed tip
- Flexible, kink-resistant tubing
- With straight connector
- Removable, malleable stylet
- Depth markings



Ref	Size	Length	Tip Perforation
330 0351 1	16 Fr	38 cm	7 cm
330 0352 1	20 Fr	38 cm	7 cm



Aortic Root Cannula

Without Vent

Available without vent line

Length: 15 cm

Color coded sizes

May be used with several unique adapters developed to deliver cardioplegia solution during cardiopulmonary bypass surgery



Ref	Size	Color
330 0101 1	12 G	■ Green
330 0102 1	14 G	□ White
330 0103 1	16 G	■ Pink
330 0104 1	18 G	■ Gold



Aortic Root Cannula

With Vent

Available with vent line

Length: 15 cm

Color coded sizes

May be used with several unique adapters developed to deliver cardioplegia solution and to vent the left heart during cardiopulmonary bypass surgery



Ref	Size	Color
330 0111 1	12 G	■ Green
330 0112 1	14 G	□ White
330 0113 1	16 G	■ Pink



Aortic Root Cannula

35 cm

Designed for minimally invasive procedures

Available without vent line

Length: 35 cm

May be used with several unique adapters developed to deliver cardioplegia solution during cardiopulmonary bypass surgery



Ref	Size	Color
330 0122 1	14 G	<input type="checkbox"/> White



Coronary Artery Perfusion Cannula

Basket tip has a soft flange that occludes the ostium, preventing backflow of cardioplegia

Large malleable stainless steel shaft with a plastic handle

Terminates with a distal female luer connector

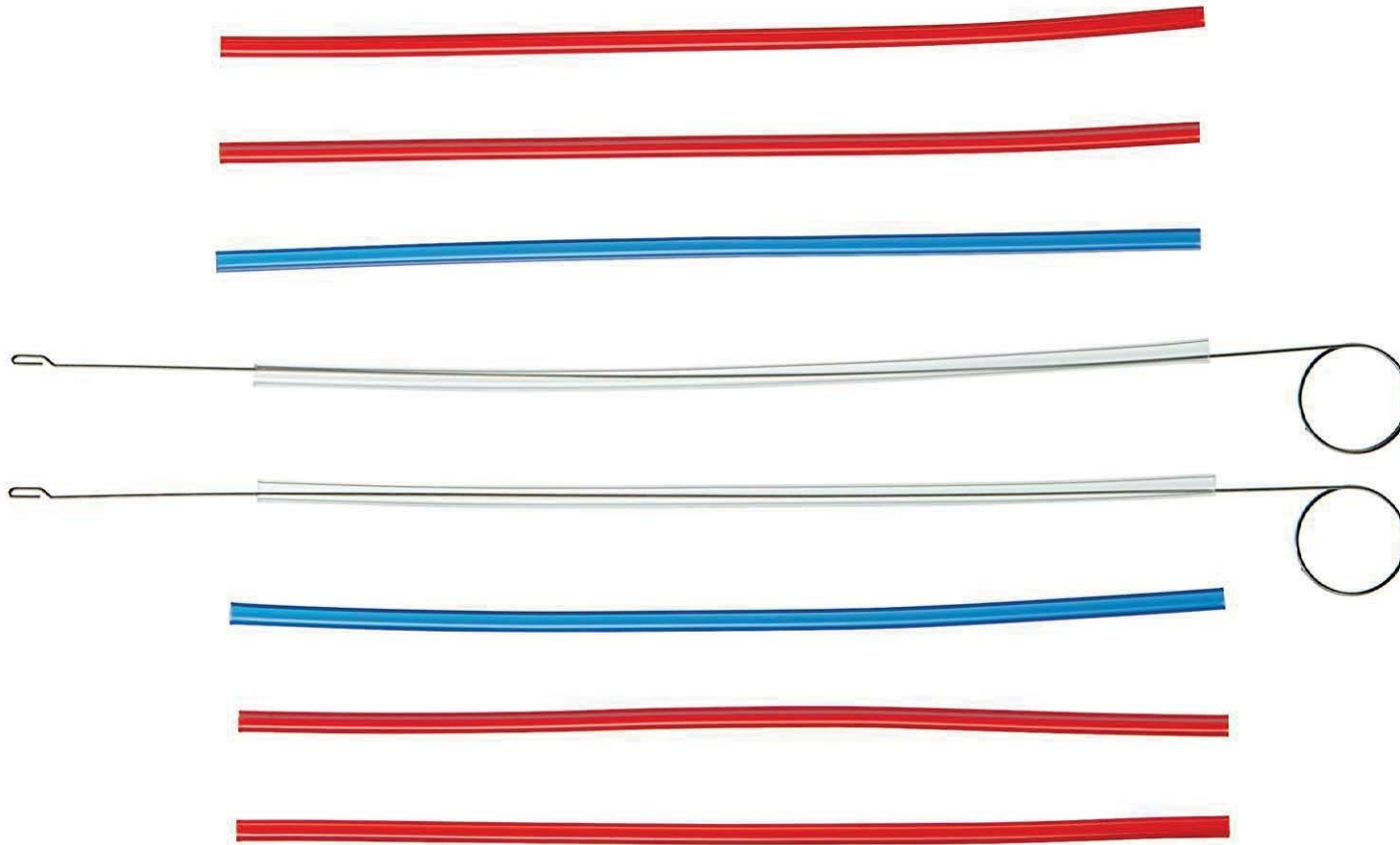
Available in either a 45 or 90 degree angle configuration



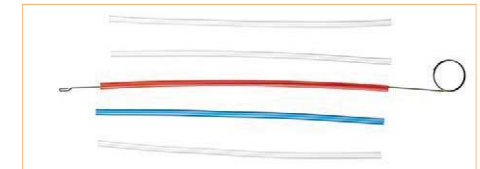
Ref		Size
45 Degree Tip	90 Degree Tip	
330 0460 1	330 0465 1	10 Fr
330 0461 1	330 0466 1	12 Fr
330 0462 1	330 0467 1	14 Fr

Cannulation Tourniquet Sets

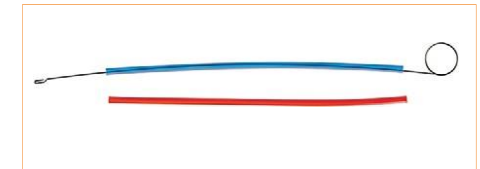
All tubes with x-ray detectable stripe



2 snares, 4 red, 2 blue, 2 clear tubes
Ref: 330 0513 1



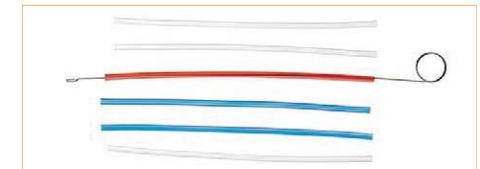
1 snare, 1 red, 1 blue, 3 clear tubes
Ref: 330 0511 1



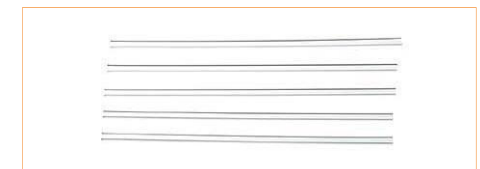
1 snare, 1 red, 1 blue tube
Ref: 330 0518 1



1 snare, 2 red, 1 blue tubes
Ref: 330 0516 1



1 snare, 1 red, 2 blue, 3 clear tubes
Ref: 330 0513 1



5 clear tubes
Ref: 330 0592 1

Ref
330 XXXX 1

Vascular Tourniquet Set

Options of 2 tubes, 1 tube, 5 tubes
(Length of each tube is 13 cm)

Integrated plug

Snare

Umbilical tape



Ref	Tube Quantity
330 0590 1	2 Tubes
330 0591 1	1 Tube
330 0592 1	5 Tubes

Suction Wands

Standard and low profile options

Rigid Tip

Stainless steel design

Ergonomic plastic handle

Accepts 6.35 mm (1/4") connection



Ref	
162 0001 1	Standard
162 0002 1	Low Profile

Cardioplegia Adapters

Cardioplegia adapters are designed to be used in conjunction with aortic root and vessel cannula. They are used for delivering the cardioplegia solution to heart during cardiopulmonary bypass surgery.



Venting "Y" Adapter
Ref: 330 0322 1



Perfusion "Y" Adapter
Ref: 330 0321 1



Multiple Perfusion Adapter Triplicate
Ref: 330 0331 1



Multiple Perfusion Adapter
Ref: 330 0341 1



Multiple Perfusion Adapter w/Vent Line
Ref: 330 0342 1

Ref	
330 0322 1	Venting "Y" Adapter
330 0321 1	Perfusion "Y" Adapter
330 0331 1	Multiple Perfusion Adapter-Triplicate
330 0341 1	Multiple Perfusion Adapter
330 0342 1	Multiple Perfusion Adapter w/Vent Line

Coronary Artery Retraction Clip

Used for retracting perivascular tissues during coronary artery bypass surgery

The sharp, curved prongs engage the tissue layer and provide stability.

The angulated legs afford room for the anastomosis

The coating provides non-slip surfaces so that the clip can be gripped with the gloved hand or forceps



Ref	
330 0450 1	3.0 mm
330 0451 1	5.0 mm

Vessel Cannula

Uni-directional flow valve

No valve option

Soft, rounded tip

Corrugated distal design for secure vessel attachment

Flexible tubing

Length: 5 cm

Female luer-lock connector



Ref	
330 0220 1	Without Valve
330 0221 1	With Valve

Surgical Braided Tape

3 x (3 mm x 70 cm)

Surgical tape with braided uninterrupted filaments

Width: 3 mm

Length: 70 cm

Sterile

Three pieces in one package



Ref
723 3070 1

Aortic Punch

Superb cutting feature

Smooth aortotomy edges

Easy to use

Secure grip

Ergonomic design



Ref	
332 0028 1	2.8 mm
332 0036 1	3.6 mm
332 0040 1	4.0 mm
332 0044 1	4.4 mm
332 0048 1	4.8 mm

Control Injector

12 cc

Triple finger design for single handed operation

Rotating luer-lock connector

Crystal clear barrel

Smooth gliding motion

Special piston tip design to prevent air embolism

Firm grip



Ref
034 0010 1

Angiographic Set

Intended to deliver radio opaque material during hemodynamic studies

Manifold

For pressures up to 41 bar (600 PSI)

Arrows to indicate the direction of flow

Clear housing for maximal visual inspection

Rotating male luer and female luer connectors

Infusion line / Drip chamber and spike

Vented spike

Air-inlet with snap on cap

Flexible drip chamber

15 µm fluid filter

Length of tubing: 150 cm

Roller clamp

Extension line and/or Pressure line

Optional Control Injector

12 cc

Triple finger design for single handed operation

Rotating luer-lock connector

Special piston tip design to prevent air embolism

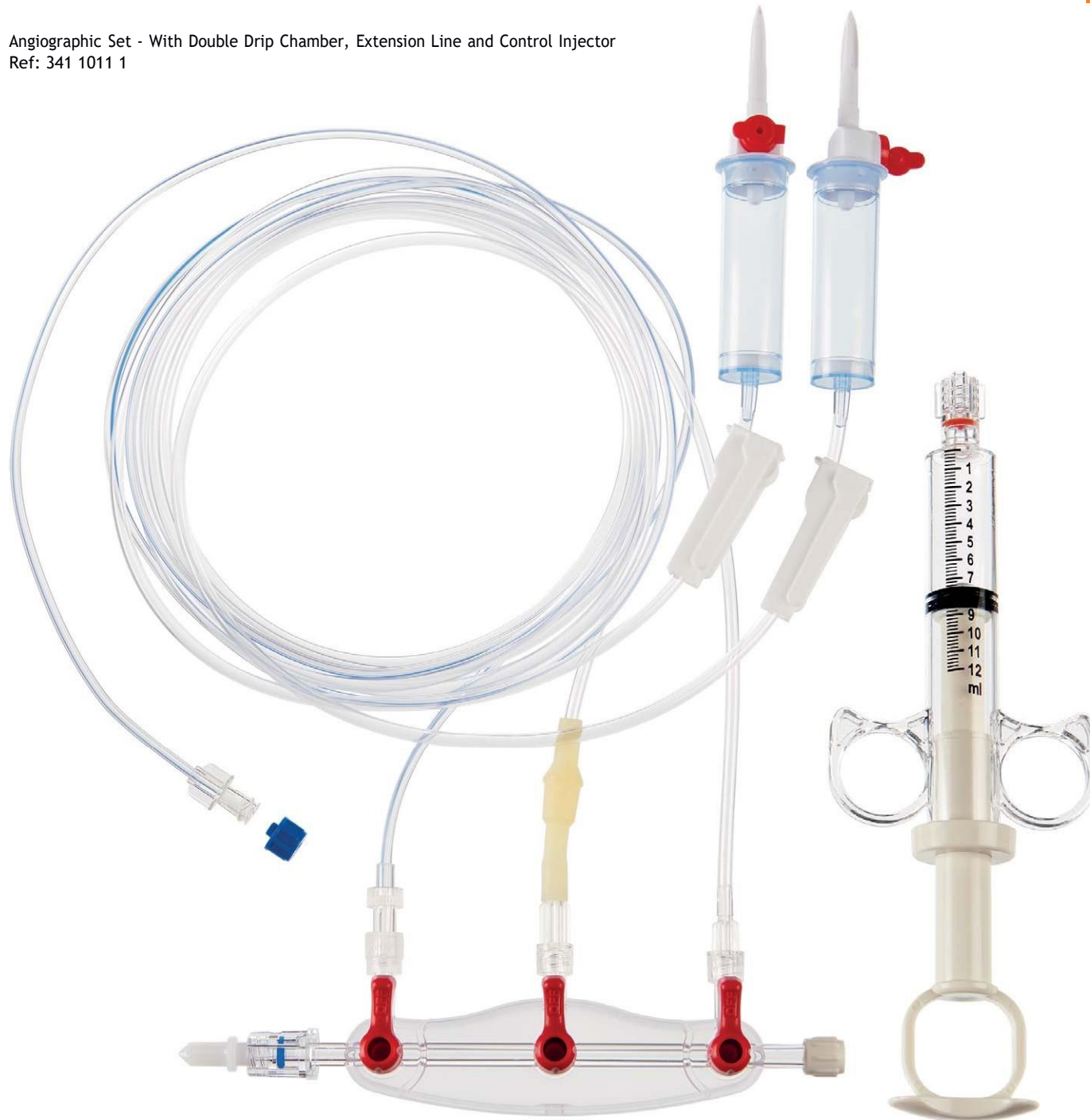
Crystal clear barrel

Smooth gliding motion embolism

Firm grip

Ref	
340 0001 1	With Single Drip Chamber
340 0010 1	With Double Drip Chamber
341 0001 1	With Double Drip Chamber and Control Injector
341 0321 1	With Single Drip Chamber and Control Injector
341 0311 1	With Single Drip Chamber, Vented Spike and Control Injector
341 1012 1	With Double Drip Chamber and Extension Line
341 1011 1	With Double Drip Chamber, Extension Line and Control Injector
341 1401 1	With Double Drip Chamber, Two Extension Lines and Control Injector
034 0090 3	With Single Drip Chamber, Vented Spike and Extension Line

Angiographic Set - With Double Drip Chamber, Extension Line and Control Injector
 Ref: 341 1011 1



inovatürk

