



# 58 YEARS OF EXPERIENCE

Biçakcılar is the leading disposable medical device and electro-medical equipment device manufacturer in Turkey. The company was founded in 1959. Through the years, Biçakcılar brand has gained wide acceptance and has established a tradition of sustained reliability and customer satisfaction.

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

# **Mission**

Our mission is to supply reliable and accessible medical devices for diagnosis and treatment of human disease and improvement in quality of life.

# **Vision**

We as Bıçakcılar are dedicated to produce and supply smart, innovative, diverse, safe and eco-friendly medical devices together with our partners as being the first choice of medical professionals and buyers. We value our brands, interest of community, strategic thinking and proper information sharing.

# **Group Companies**



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



Based in Istanbul Esenyurt, the company operates in the fields of medical device testing. Among others, biocompatibility, microbiological, sterilization/packaging validation and testing, and materials analyses are areas of expertise.





# 31.000 m<sup>2</sup> MANUFACTURING FACILITIES

# **Our Manufacturing Facilities**

Our manufacturing facilities are located in a closed area of 31,000 m<sup>2</sup> constructed on a total area of 26,500 m<sup>2</sup> in Esenyurt, İstanbul. Bıçakcılar offers a wide range of medical products from sterile disposable devices to medical equipment.

Manufacturing, product assembly and packaging of disposable medical products are performed in class 10000 and 100000 clean rooms with a total area of 4.226 m<sup>2</sup>. Biological load of products is kept under control in these clean rooms, and sterilization safety is achieved.

Disposable product division includes injection, extrusion, blow molding, assembly, packaging and sterilization departments whereas medical device manufacturing division includes metal shop, machining manufacturing, surface cleaning, dying, mechanical and electrical assembly departments. Pre-shipment storage processes of our products are also performed in our factories. Finished products are stored in airconditioned 3.500 m<sup>2</sup> 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 product design and development stages.

# **Sales Network**

With a team of 100 people that work in the headquarters and 6 sales branches, Bıçakcılar 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**

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









# Quality

Biçakcılar Quality System complies with ISO 9001:2008 and EN ISO 13485:2012 and has been certified by TÜV NORD. All Biçakcılar products are CE marked, some are FDA approved. The company globalized as a brand that is relied upon and cared by the world that cares about health.

Biçakcılar medical equipment and disposable products are produced according to GMP, with latest technologies in modern production facilities established on 26.500 m² land with 30.900 m² closed area. Bio compatible 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 San. ve Tic. A.Ş. is;

To be an innovative and leading organization in medical device industry, that develops its product portfolio by following the innovations in the Health Care sector,

To offer the medical devices to the market with competitive prices without compromising product quality, and to keep the customer satisfaction at its utmost level,

To fulfill regulatory and normative requirements (like Medical Device Directive and ISO EN 13485 Standard),

To guarantee that our products are in compliance with harmonized/international standards and are built to the current state of the art,

To improve product quality by enabling the implementation of quality system effectively in every phase of production,

To ensure that each employee in the organization shares the same mission, vision, and strategy by providing required training to increase quality, awareness, and thereby share the same corporate culture,

To maintain the effectiveness of quality management systems to meet customer and regulatory requirements,

To 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.

















# **Turquality**®

TURQUALITY® 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.

TURQUALITY® 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", TURQUALITY®'s goal is to facilitate and support the success of Turkish brands on international arena.

To achieve these ambitious goals, TURQUALITY® 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, TURQUALITY® helps them to develop essential capabilities, competences, skills and resources necessary to fulfil such a complex commitment through both group and individual activities.





# **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.

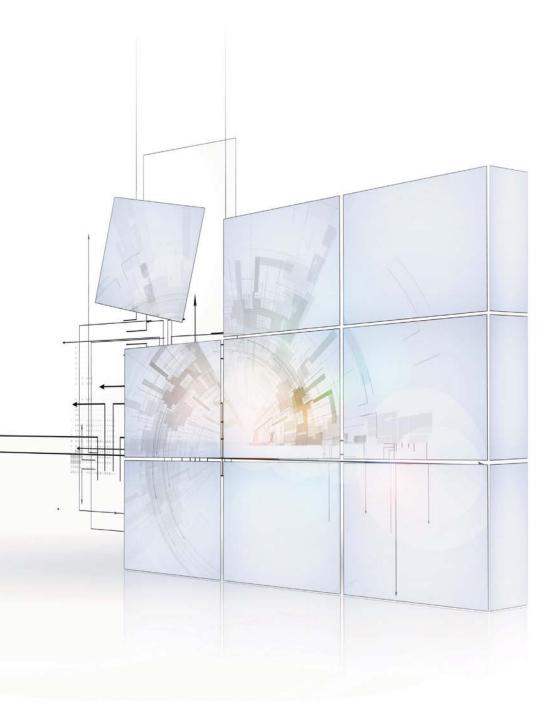
R&D is the most significant element of company's mission and vision, and the primary unit that receives the largest amount of investment in Bıçakcılar.

Along with the new product developments in disposable and medical devices, 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.

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

Our priorities are, design and develop medical devices that are economically manufacturable for patient safety inmind.









# 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 the increasing number of regulations in health industry both in Turkey and the world, Bıçakcılar Laboratory started to apply all articles of ISO 17025 Standard in order to offer its fund of knowledge to the use of other Medical Device Manufacturers. Chemical Test Laboratory commenced operation as from January 2005.

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







# **Social Responsibility and Environment**

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

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

os 14001 84001

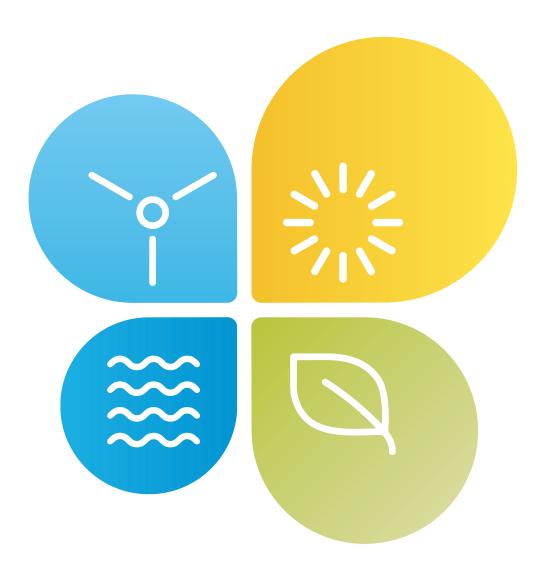
# **Social Associations**

that we cooperate with









# **Waste Treatment Facilities**

In line with the sustainable development principle, Bıçakcılar constantly keeps environmental effects under control in order to leave a clean and healthy world to the next generations. The company, as the first medical company in Turkey by establishing 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, Bıçakcılar stores the waste in its waste repositories that are specially designed for each waste stream, and disposes of this waste properly.

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



# For single use only!



Single use medical devices have to comply with 93/42/EEC Direct ive if hospitals clean, re-package, and re-sterilize these devices with the intention to re-use on othe r patients and 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 in frastructure 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 flexilibility 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 results 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 researches that continues today and customer demand, medical device industry started looking for alternatives to DEHP. DEHT is a significant market experience for traditional DEHP uses. Significant use experience in medical devices. 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 irritaation and sensitization. It is not absorbed from the GI tract upon oral exposure where it is rapidly excreted. This constrast 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 2015 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 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, alternative to DEHP. There is no evidence, showing any toxic effect literaturally. 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 feding women patients.

Considering the strong market demand for DEHP-free product, we, as Biçakcılar, decided to move our product portfolio to DEHP-free.



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

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## **Tracheal Tube**

#### Cuffed

For both oral and nasal intubation

Atraumatic, soft rounded, bevelled tip

Murphy eye

Accurate positioning depth marks

Radiopaque line

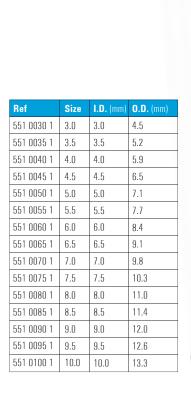
Standard volume, low pressure cuff

Special cuff design provides an efficient low pressure seal

...

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

Standard connector





#### **Tracheal Tube**

#### Uncuffed

For both oral and nasal intubation

Atraumatic, soft rounded, bevelled tip

Murphy eye

Accurate positioning depth marks

Vocal cord markings

Radiopaque line

Standard connector



Ref	Size	<b>I.D.</b> (mm)	<b>O.D.</b> (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, bevelled tip

Murphy eye

Radiopaque

Standard volume, low pressure cuff

Special cuff design provides an efficient low pressure seal

Accurate positioning depth marks

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

Standard connector

Ref	Size	<b>I.D.</b> (mm)	<b>O.D.</b> (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, bevelled tip

Murphy eye

Accurate positioning depth marks

Vocal cord markings

Radiopaque

Standard connector





#### **RAE Tracheal Tube**

#### Oral, Cuffed

For oral intubation

Preformed curve design

Reduces risk of kinking

Maximum security

Improved surgical access

Atraumatic, soft rounded bevelled tip

Murphy eye

Accurate positioning depth mark

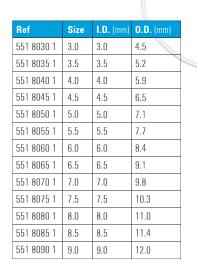
Radiopaque line

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



6.0

#### **RAE Tracheal Tube**

#### Oral, Uncuffed

For oral intubation

Preformed curve design

Reduces risk of kinking

Maximum security

Improved surgical access

Atraumatic, soft rounded bevelled tip

7.0

7.0

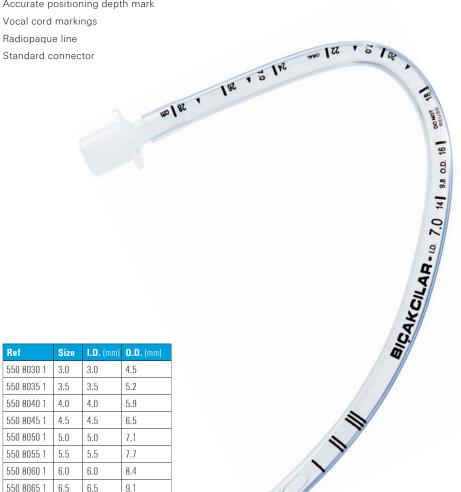
550 8070 1

9.8

Murphy eye

Accurate positioning depth mark

141



#### **RAE Tracheal Tube**

#### Nasal, Cuffed

For nasal intubation

Preformed curve design

Reduces risk of kinking

Maximum security

Improved surgical access

Atraumatic, soft rounded

bevelled 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	<b>I.D.</b> (mm)	<b>O.D.</b> (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	10.3
551 8180 1	8.0	8.0	11.0

#### **RAE Tracheal Tube**

#### Nasal, Uncuffed

For nasal intubation

Preformed curve design

Reduces risk of kinking

Maximum security

Improved surgical access

Atraumatic, soft rounded bevelled tip

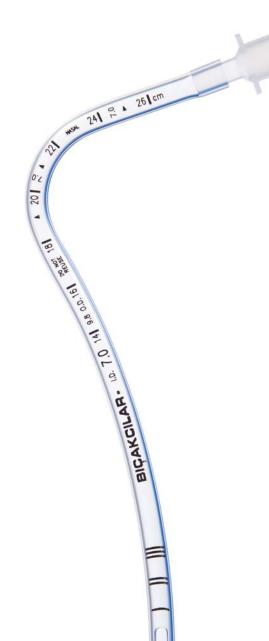
Murphy eye

Accurate positioning depth mark

Vocal cord markings

Radiopaque line

Standard connector



Ref	Size	<b>I.D.</b> (mm)	<b>O.D.</b> (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 2	2.5 - 4.5 mm (Small)
550 0002 2	5.0 - 8.0 mm (Medium)
550 0003 2	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	3126	Length 130	Color	
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 $\blacksquare$	
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 崖	

# **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

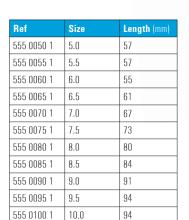
Reliable inflation apparatus comprising of inflating tube, pilot balloon, and a check-valve with luer connection

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 an lumen obstruction



# **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 an 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



#### Ref

186 5000 2

# **B-Spiro 2500 Volumetric Exerciser**

Incentive lung exerciser for adolescent/young-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 Volumetric 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

Standard compenents 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

I.V. infusion set

Roller clamp

Transducer

Three way stopcock

Extension line

Male luer lock adapter

## With Single Transducer

I.V. Infusion set, 150 cm tubing Roller clamp

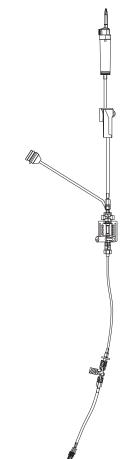
Transducer - 3 cc/h

120 cm extension line

Three way stopcock

10 cm extension line

Male luer lock connector



#### With Two Transducers

I.V. Infusion set, 100 cm tubing

Roller clamp

"Y" connector

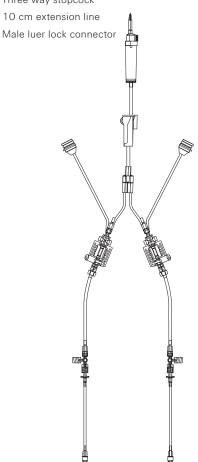
40 cm extension line

2 ea transducer - 3 cc/h

150 cm extension line

Three way stopcock

Male luer lock connector



#### **With Three Transducers**

I.V. Infusion set, 100 cm tubing

Roller clamp

Triple connector

40 cm extension line

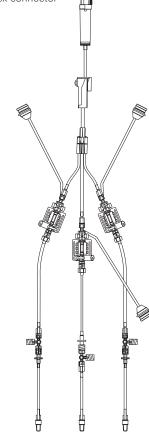
3 ea transducer - 3 cc/h

150 cm extension line

Three way stopcock

10 cm extension line

Male luer lock connector



Ref	
400 1821 1	w/Single Transducer
400 1822 1	w/Two Transducers
400 1823 1	w/Three 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

Effective 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: 36 cm



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

# **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 CO<sub>2</sub> 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** -  $0.8\mu$  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



#### Beveled Tip

Frosted surface for easy insertion

Appropriate degree of hardness provides kink resistance

Atraumatic, soft rounded, bevelled open tip

Two lateral eyes with smooth edges

Color coded connector

Effective 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

Effective 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 🗀

#### 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

Effective length: 50 cm (40 and 60 cm are available)



Ring Tip

Ref		Size	Color	
190 10	95 1	10 Ch	Black	
190 12	95 1	12 Ch	White	
190 14	95 1	14 Ch	Green	
190 16	95 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

Effective length: 50 cm



Coudé Tip

Ref	Size	Color
190 1065 1	10 Ch	Black 💻
190 1265 1	12 Ch	White $\square$
190 1465 1	14 Ch	Green 💳
190 1665 1	16 Ch	Orange 💳



#### 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

Effective length: 50 cm (40 and 60 cm are available)





Ref		Color	
	3128	Color	
190 0551 1	05 Ch	Grey	
190 0651 1	06 Ch	Light Green 🕰	
190 0751 1	07 Ch	Violet <u>—</u>	
190 0851 1	08 Ch	Blue –	
190 1051 1	10 Ch	Black 🚓	
190 1251 1	12 Ch	White	
190 1451 1	14 Ch	Green <u></u>	
190 1651 1	16 Ch	Orange <u>—</u>	
190 1851 1	18 Ch	Red —	
	190 0551 1 190 0651 1 190 0651 1 190 0751 1 190 0851 1 190 1051 1 190 1251 1 190 1451 1	190 0551 1 05 Ch 190 0651 1 06 Ch 190 0651 1 07 Ch 190 0851 1 08 Ch 190 1051 1 10 Ch 190 1251 1 12 Ch 190 1451 1 14 Ch 190 1651 1 16 Ch	

#### **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

Effective length: 50 cm (40 and 60 cm are available)



Ideal Tip

Ref		Size	Color
Metric		SIZE	Color
019 1290 1	190 0581 1	05 Ch	Grey
019 1291 1	190 0681 1	06 Ch	Light Green ക
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 –



#### With Vacuum Control Connector

Frosted surface for easy insertion

Appropriate degree of hardness provides kink resistance

Atraumatic, soft rounded, bevelled open tip

Two lateral eyes with smooth edges

Color coded vacuum control connector

Effective 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, bevelled open tip

Two lateral eyes with smooth edges

Kapkon connector

Connector cap provides possibility of constant suction

Color coded

Effective 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 A
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 sizes



**Ref** 236 1001 1

# **Spigot**

Closure for catheter funnel connectors from 6 Ch to 35 Ch





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

# **Conical Connector**

Luer lock connector Length: 40 mm



Ref	
235 0001 1	Sterile
235 0001 3	Bulk

# **Trachea Suction Set**

Container for sampling of secretion from tracheal or bronchial tubes

Transparent contanier 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



With Funnel/Male Connector



Ref	
187 2001 1	Male/Funnel Connector
187 2101 1	Funnel/Male Connector
187 2201 1	Funnel/Kapkon Connector



### **Trachea Suction Set**

#### Funnel/Kapkon, With Extra Container

Container for sampling of secretion from tracheal or bronchial tubes

Transparent contanier provides clear observation of secretions

Extra cap ensuring safe sealing of sample container

Variety of connectors available to fit different suction catheters

-3

Self-adhesive label for patient identification info





Ket

187 2301 1

### **Mucus Collector**

#### 40 ml

40 ml container for collecting secretions and mucus specimens using any suction device

Transparent graduated container provides clear observation of secretions

Extra cap ensuring safe sealing of sample container

Removable connector prevents contamination from non-sterile suction tubes

Kink resistant wide bore tubing to be connected with suction catheters

Removable connector can be disposed with the suction tube

The catheter connection tube can be connected with the suction port to close the circuit

Self-adhesive label for patient identification info





Ref

187 4001 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  Double Pouch PE Band		w/Bulb Tip		١
			w/ Duib Tip		
	165 2210 1	165 0210 1	164 0210 1	Without Vacuum Control	ľ
	165 3210 1	165 1210 1	164 1210 1	With Vacuum Control	1

## **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

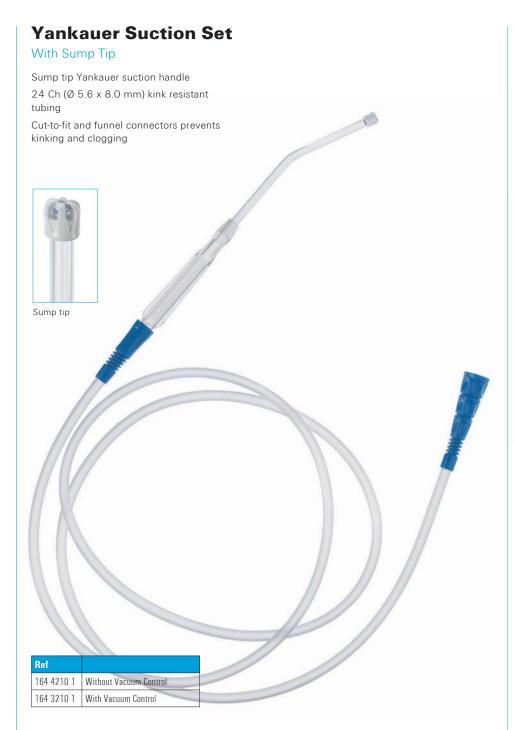


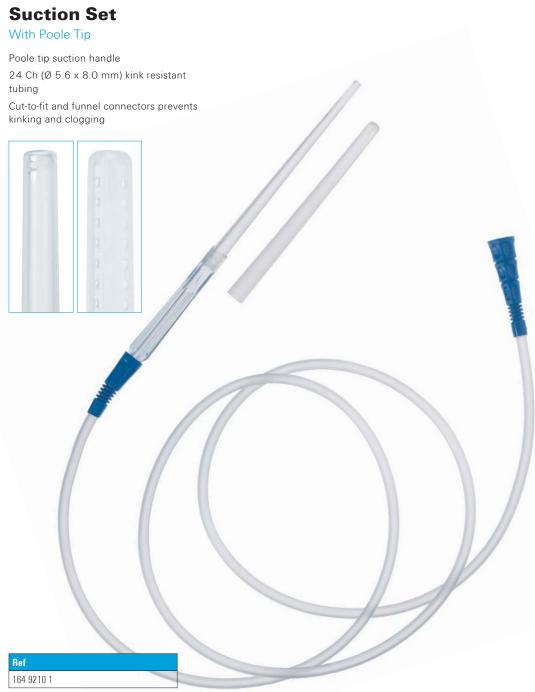


20 Ch tip

20 Ch tip with four relieving

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





### **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 Contro
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

Re	f	
20 Ch Tip 20 Ch Tip w/4 Relieving yes		
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



161 0111 1





# **Suction Connecting Tube**

### With Standard Connector

Standard connectors

24 Ch or 30 Ch kink resistant tubing

Available in different tubing lengths



			7
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 Kapkon-1 Connector

With Standard and Kapkon Connector

Standard and kapkon connectors 24 Ch or 30 Ch kink resistant tubing

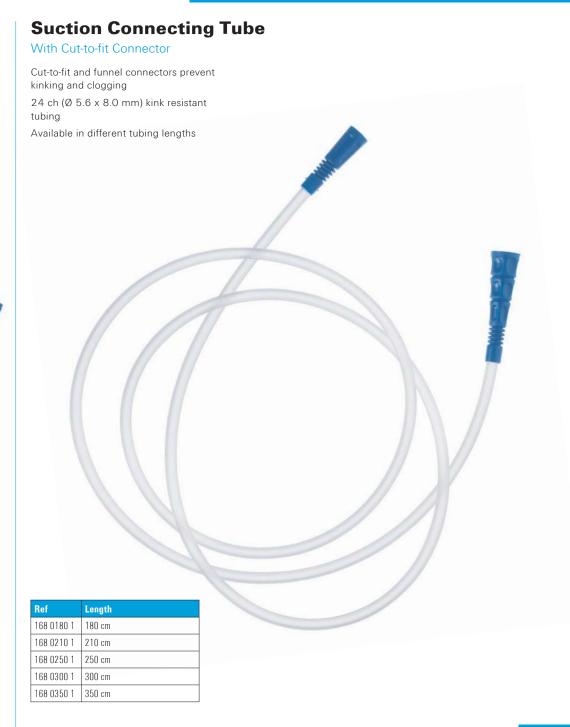
Available in different tubing lengths



With Kapkon-2 Connector

R	lef				
Kapkon-1	Kapkon-2	Size	Ø mm	Length	
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 Available in different tubing lengths Length 168 6180 1 180 cm 168 6210 1 210 cm 250 cm 168 6250 1 168 6300 1 300 cm 168 6350 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 Standard w/Solidifying Agent				
		Capacity	Connector	Tubing Length
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

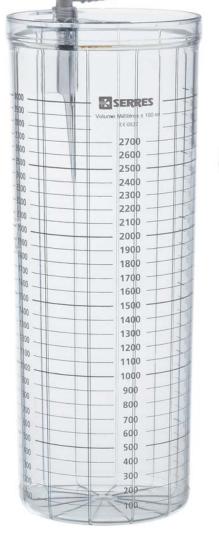
Can be autoclaved at 121°C or washed in  $85^{\circ}\text{C}$ 

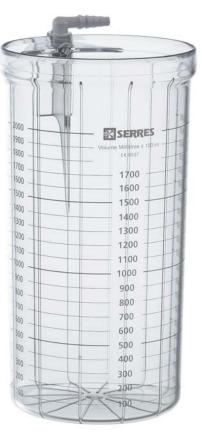
Serres



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

Easy discharge of air and contents

Cut-to-fit connector

Radiopaque redon drain



Ref					
w/o Trocar	w/1 Trocar	w/1 Trocar & 2 Drains	w/2 Trocars	Drain Size	Drain I.D
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 <b></b>

## **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 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 3132 1	100 ml	Flat	7 mm	w/Trocar
171 3133 1	100 ml	Flat	10 mm	w/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 3222 1	200 ml	Flat	7 mm	w/o Trocar
171 3223 1	200 ml	Flat	10 mm	w/o 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 3232 1	200 ml	Flat	7 mm	w/Trocar
171 3233 1	200 ml	Flat	10 mm	w/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 3322 1	400 ml	Flat	7 mm	w/o Trocar
171 3323 1	400 ml	Flat	10 mm	w/o 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 3332 1	400 ml	Flat	7 mm	w/Trocar
171 3333 1	400 ml	Flat	10 mm	w/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







### **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



#### Ref 171 3022 1 171 3023 1 171 3032 1 7 mm w/Trocar 171 3033 1 w/Trocar

### **B-Vak Silicone Channeled Drain**

100% medical grade silicone

Four free-flowing channel design for

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

# **Soft Drainage System**

Catheter with soft rounded open tip and four lateral eyes

Length of catheter: 100 cm

Medical grade polyvinyl chloride (PVC)

drainage bag

2000 ml collecting capacity

Graduated in ml

Non-return valve

Bottom outlet

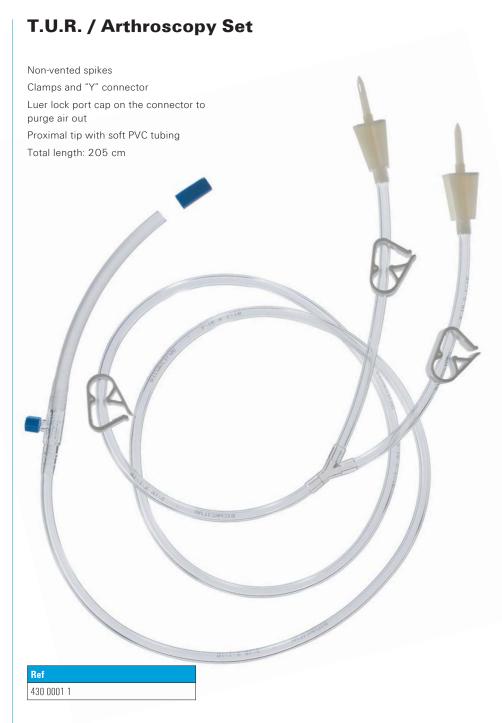
Reinforced holes for hanging

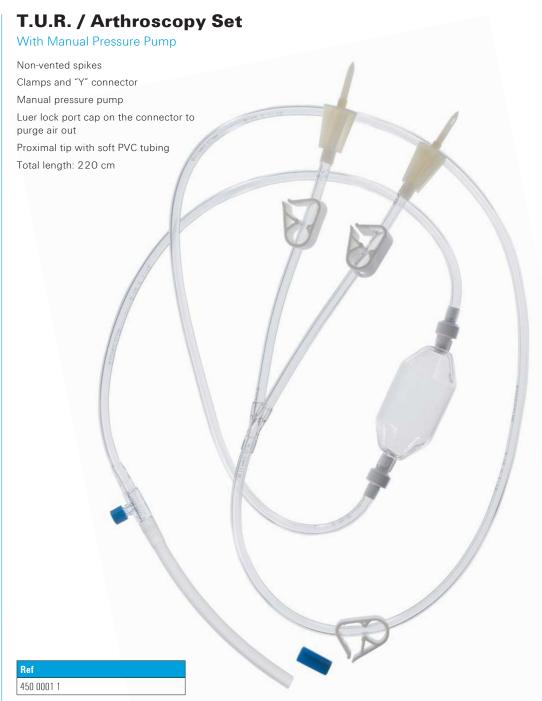
Individually peel-packed, sterile

Flexible fastening straps

Ref	Size
420 1001 1	10 Ch
420 1201 1	12 Ch
420 1501 1	15 Ch
420 1601 1	16 Ch
420 1801 1	18 Ch
420 2001 1	20 Ch
420 2101 1	21 Ch
420 2401 1	24 Ch
420 2701 1	27 Ch
420 2801 1	28 Ch
420 3001 1	30 Ch







### **Thoracic Catheter**

#### With Trocar, Standard Tip

Trocar with tri-facetted 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

Accourate 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



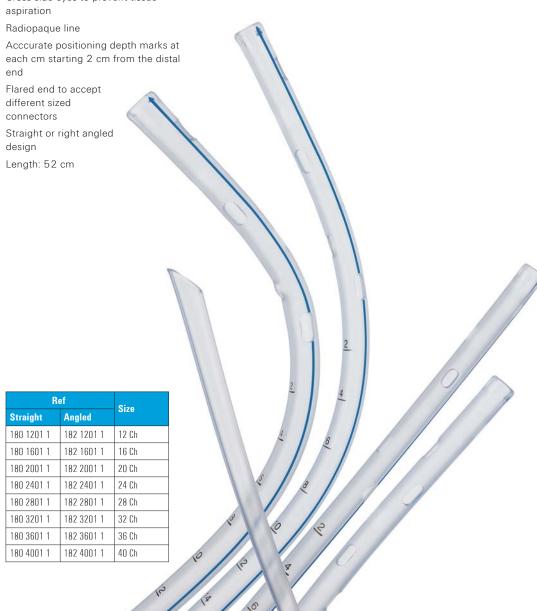
### **Thoracic Catheter**

Flexible tubing wall provides leak proof tissue/tubing interface

Atraumatic, rounded, open distal tip

Easy to milk

Cross side eyes to prevent tissue



# **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

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

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

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



# 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

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
 w/Luer Lock Port

 017 6 2002 1
 w/Luer Lock Port

 017 6002 1
 w/o Luer Lock Port

Ref

176 2001 1 | w/Luer Lock Port

017 6001 1 | w/o 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

Effective 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

Effective length: 123 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

Effective 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	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, 120 cm tubing (single lumen/double lumen options)

Push-on closure clamp

Secure catheter connector

Sampling port options for needle use/needleless use







Single Lumen



Double Lumen

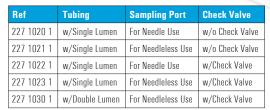
Sampling port options:



Sampling port for needleless use



Sampling port for needle use



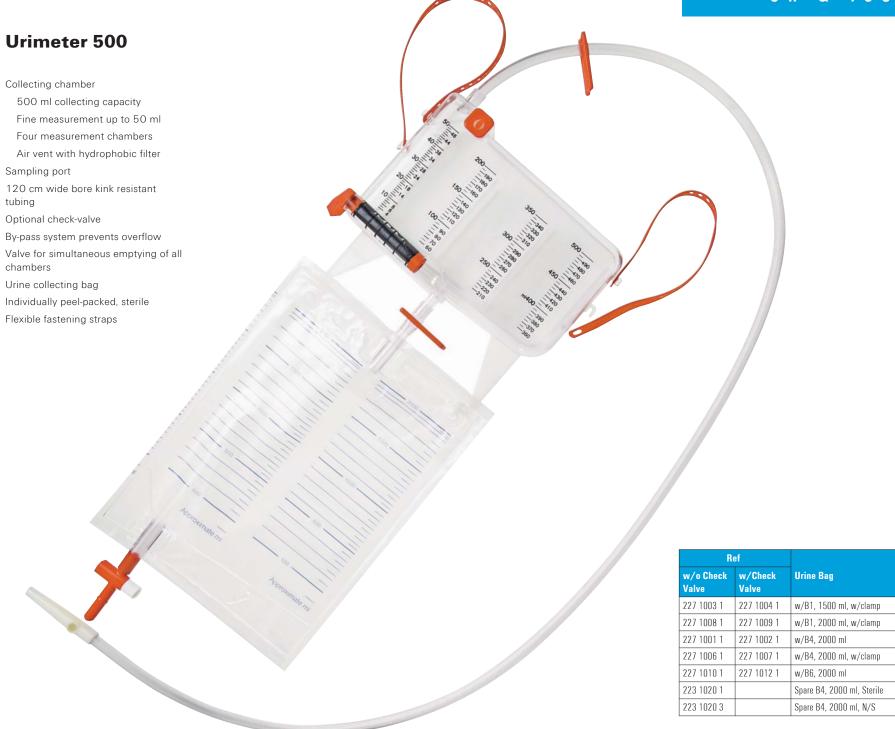
Ref	Spare Bag
223 1040 1	Spare Bag for Urimeter 500 Plus
223 1041 1	Spare Bag for Urimeter 500 Plus - w/o Tap



Folding bed rail hangers



Hydrophobic air filter



# **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

Effective length:

Nelaton: 40 cm

Nelaton female: 18 cm



Ref				
Nelaton	Nelaton Female	Size	Color	
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

Effective 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 wih radiopaque

line

170 cm pressure tubing

Luer lock connector for connecting ventricular catheter's distal connector

and cap

Patient line stopcock with optinal

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

Sterile

Graduated (cmH<sub>2</sub>O and mmHg) pressure scale tape

Ventricular catheter

Barium impregnated silicone radiopaque

catheter

MR visible through tantalum marking

Length marks for easy positioning

16 holes at the proximal tip for easy

drainage

ID: 1.5 mm

OD: 2.8 mm

Length: 35 cm

Stainless steel stylet

Trocar

Bent, stainless steel

Barbed distal tip for catheter tunneling

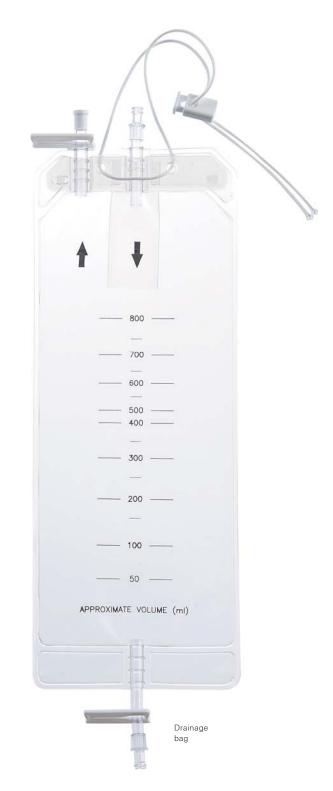
Length: 15 cm

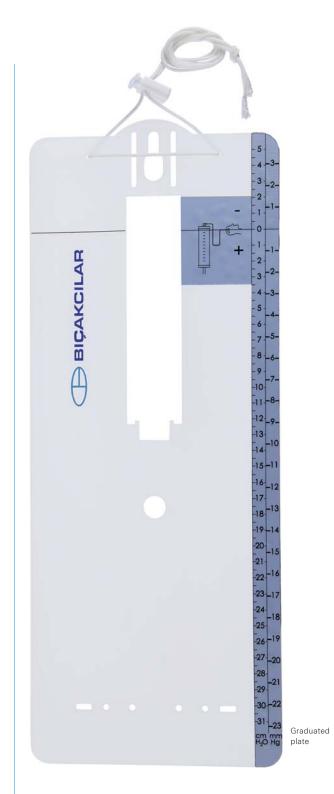
Red end-plug

Ventricular catheter fixation collar

Ref		
115 0011 1	Ventricular Catheter w/Trocar, 35 cm	
115 0041 1	115 0041 1 Drainage Bag, 800 ml	
115 0101 1	External Drainage Set w/150 ml Graduated Burette	
115 0111 1	15 0111 1 External Drainage Set w/150 ml Graduated Burette and Plate	
115 0201 1	External Drainage Set and Ventricular Catheter	
115 0211 1	External Drainage Set w/Plate and Ventricular Catheter	











# **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 arterior body piece with corrugations to prevent device slippage

Ergonomic design with anti-pinch gaps and smooth rounded blades

Retains an opening force of 45 N

Small, medium and large size options

Color coded



Re	Size		
Sterile	Non-Sterile	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 45 N

Color coded



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

# **Umbilical Cord Clamp**

Security lock to prevent accidental opening

Solid grip for easy cord excision

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 3 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



Ro	ef	Size	Color	O.D.	I.D.	Cannula	Flow Rate
w/Port	w/o Port					Length	
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



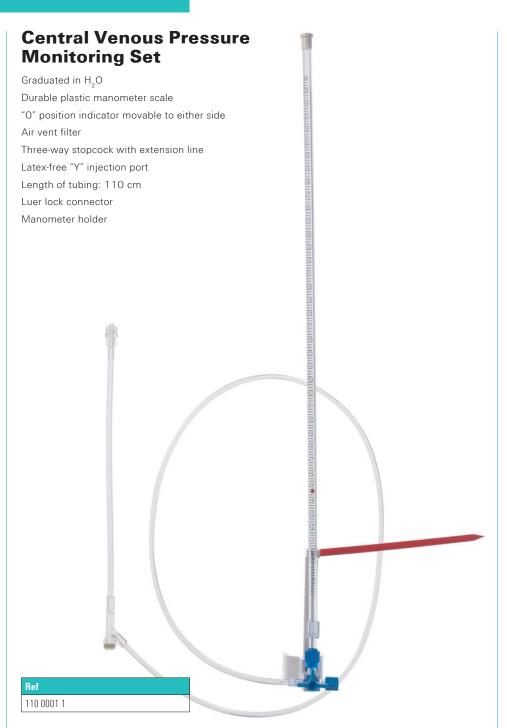
Ref		Position
765 1301 1	Trio	Right











## 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



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

#### 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

# **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



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		

#### Extension Line

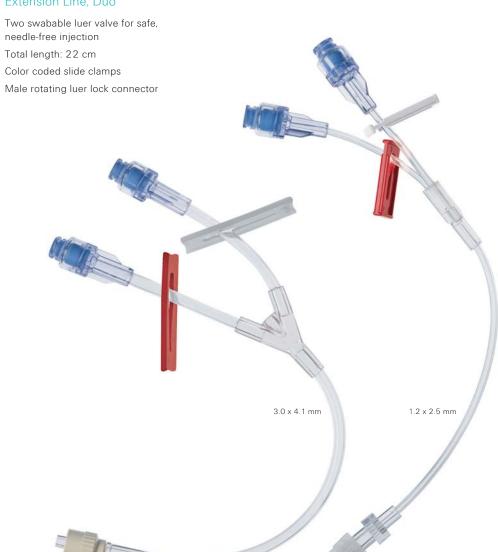
Swabable luer valve for safe, needle-free injection

Total length: 12 cm



# **B-Safe**

#### Extension Line, Duo



Ref	Tubing
132 0010 1	1.2 x 2.5 mm
132 0011 1	3.0 x 4.1 mm

131 0011 1 3.0 x 4.1 mm

#### Extension Line, Trio

Three swabable luer valve for safe, needle-free injection

Total length: 21 cm

Color coded slide clamps

Male rotating luer lock connector





# Ref Tubing 133 0010 1 1.2 x 2.5 mm 133 0011 1 3.0 x 4.1 mm

# **B-Safe**

#### Extension Line With "T" Connector

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

10 cm, 1.2 x 2.5 mm tubing

Slide clamp

Luer lock connector



Ref		
24 1030 1		

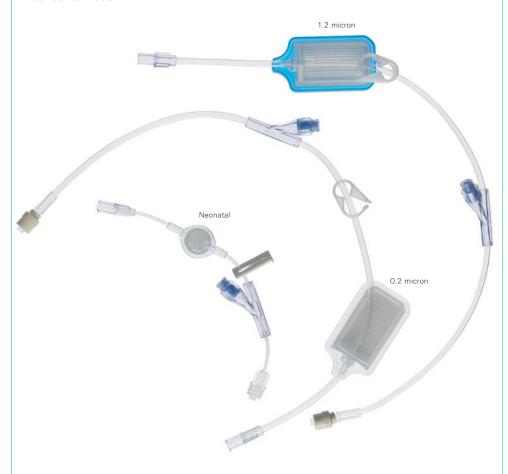
#### I.V. Filter Set

Filters bacteria and particles

Effective air venting regardles of position

Swabable luer valve for safe, needle-free injection

Luer lock connector



Ref	Filter
114 0260 1	0.2 micron
114 0261 1	1.2 micron
114 0255 1	Neonatal

## **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

120 1060 1

120 1075 1

120 1090 1

120 1100 1

120 1120 1

120 1145 1

120 1150 1

120 2060 1

120 2075 1

120 2090 1

120 2100 1

120 2120 1

120 2145 1

120 2150 1

60 cm

75 cm

90 cm

100 cm

120 cm

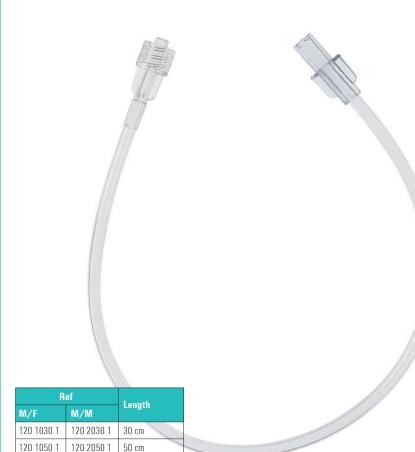
145 cm

150 cm

For pressures up to 17 bar (250 PSI)

Ø 3.0 x 4.1 mm tubing

Luer lock connector



# **Extension Line**

Smallbore - 250 PSI

For pressures up to 17 bar (250 PSI)

Ø 1.2 x 2.5 mm tubing

Luer lock connector



R	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





## **Extension Line**

#### With "T" Connector

"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**

#### 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

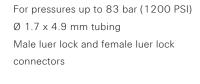
connectors



Ref		
M/F	M/M	Length
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





		Rota	Rotating		
M/F	M/M	M/F	M/M	Length	
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  $\leq 2 \times 10^5$ )

High red blood cell recovery rate (Erythrocyte recovery rate of minimum 95%)

Low priming volume

Filtration time; approximately 15 minutes for one unit red blood cell concentrate

Latex-free

#### **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

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

#### Performance Summary\*

#### **Erythrocyte Concentration, Gravitational Force\*\***

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

 $\textbf{Filtration loss}^{**}: 35\,\text{ml} - \textbf{RBC recovery}^{**}: > 95\% - \textbf{Filtration time}^{**}: 20\,\text{min}$ 

\*\* Average of unit 1 + unit 2

#### 1 Unit Whole Blood, Gravitational Force

Whole Blood Storage (hours)		Post-filtration (10 <sup>5</sup> /unit)			HTC %
2 - 4	4,04	0,54	600	575	42

Filtration loss:  $25 \, \text{ml} - \text{RBC recovery} :> 95\% - \text{Filtration time} : 6 \, \text{min}$ 

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

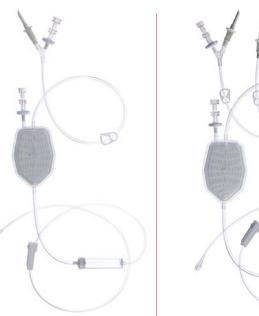




**Bedside,** Without Air Vent, With Single Spike Ref: 157 0012 1, 157 0012 1G



**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







Pediatric





Infant



Adult

Kei

300 XXXX 1

# **Quick Prime Set**

Allows fast priming of the set Custom configuration available upon request



# **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

	Wall		Length
I.D.	Thickness	0.D.	cm
1/4"	1/16"	3/8"	175
1/4"	1/16"	3/8"	200
3/8"	1/16"	1/2"	175
3/8"	1/16"	1/2"	200
3/8"	3/32"	9/16"	175
3/8"	3/32"	9/16"	200
1/2"	3/32"	11/16"	175
1/2"	3/32"	11/16"	200
	1/4" 1/4" 3/8" 3/8" 3/8" 3/8" 1/2"	1.D. Thickness 1/4" 1/16" 1/4" 1/16" 3/8" 1/16" 3/8" 1/16" 3/8" 3/32" 3/8" 3/32" 1/2" 3/32"	1.D.         Thickness         O.D.           1/4"         1/16"         3/8"           1/4"         1/16"         3/8"           3/8"         1/16"         1/2"           3/8"         1/16"         1/2"           3/8"         1/16"         9/16"           3/8"         3/32"         9/16"           1/2"         3/32"         11/16"

Ref		Wall		Length			
Non-Sterile	I.D.	Thickness	0.D.	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 turbulance

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





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

# "Y" Connector

Meets all connection requirements of the extracorporeal circulation system

Unique design and precision moulding techniques allow a smoth transitio at tubing and connector junctions reducing blood turbulance

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



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



# **Atrial Cannula**

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



Ref	Size	Length
330 0098 1	43 Fr	30 cm

# **Vent Catheter**

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



# **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	<b>Tip Perforation</b>
330 0351 1	16 Fr	38 cm	7 cm
330 0352 1	20 Fr	38 cm	7 cm



## **Aortic Root Cannula**

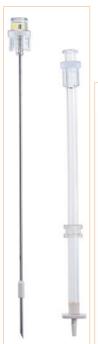
#### Without Vent

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**

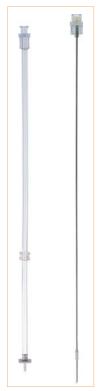
35 cm

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	☐ 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 proximal female luer connector

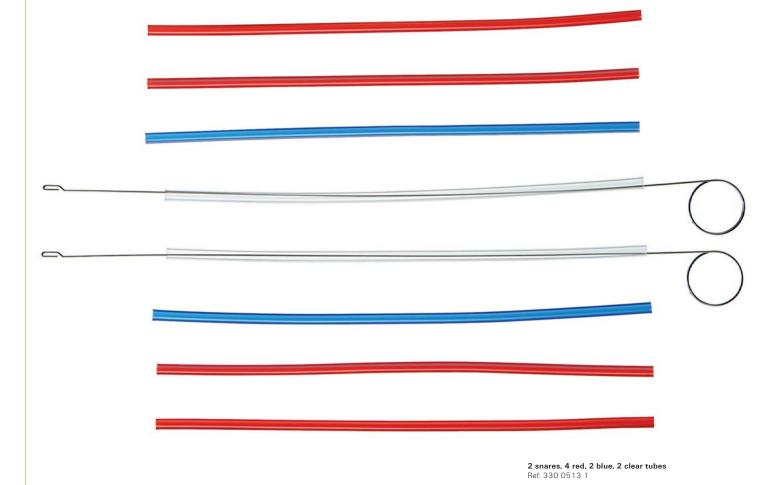
Available in either a 45 or 90 degree angle configuration

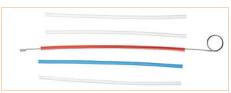


Ref		
45 Degree Tip	90 Degree Tip	Size
330 0460 1	330 0465 1	10 Fr
330 0461 1	330 0466 1	12 Fr
330 0462 1	330 0467 1	14 Fr

# **Cannulation Tourniquet Sets**

All tubes with x-ray detectable stripe





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

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	
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

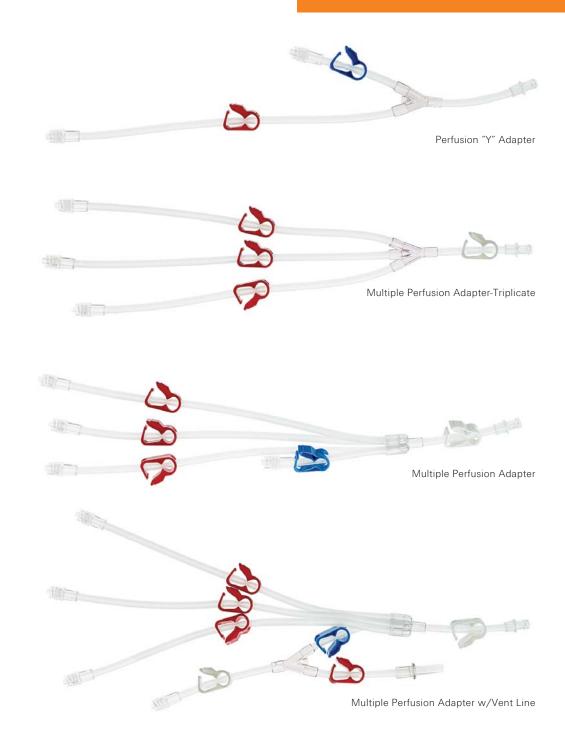
# **Cardioplegia Adapters**

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.





Ref	
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

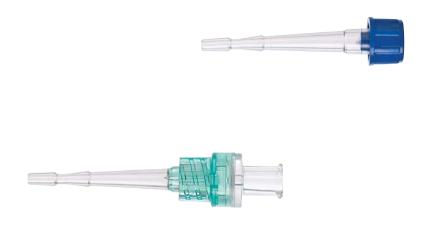
Corrugated distal design for

secure vessel attachment

Flexible tubing

Length: 5 cm

Female luer-lock connector



Ref	
330 0220 1	Without Valve
330 0221 1	With Valve

# **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



034 0010 1







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