

Intersurgical Sterile Product Catalogue

Respiratory products and systems

Airway Management



Critical Care

Anaesthesia



Edition 4



Quality, innovation and choice

Interact with us



www.intersurgical.com



To provide best practice respiratory product solutions for patients and clinicians, offering quality, innovation and choice.

Intersurgical

Intersurgical is a global designer, manufacturer and supplier of a wide range of high quality medical devices for respiratory support. We provide flexible patient solutions for airway management, anaesthesia, critical care and oxygen & aerosol therapy, for use within emergency care, hospitals and also in the home.

With over 35 years experience we understand the changing and challenging clinical environments and needs of our customers and their patients.

Our integrated approach enables us to provide the highest standards in design, manufacture, quality and customer care allowing us to respond quickly and effectively to our customers and consistently meet their requirements.

Our company goal is to provide best practice respiratory product solutions for patients and clinicians, offering quality, innovation and choice.

Quality

All of our products are designed and manufactured to meet the requirements of relevant international, European and national standards, and our Management System is assessed and certified as meeting the requirements of ISO 9001 and ISO 13485.


Innovation

Innovation is important in all areas, helping us to deliver high quality products and services matched by cost effective solutions to meet today's needs.

Choice

Our wide product portfolio allows for both patient and clinical requirements to be met.




We are also committed to lowering the environmental impact of our products and services and have implemented an Environmental Management System certified to international standard ISO 14001.

The Eco range of products has been designed as part of our ongoing focus on sustainable development. Wherever you see the  logo we have reduced the environmental impact of these products compared to traditional PVC options.

We hope we can provide a solution for your needs.



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A guide to symbols used in this catalogue

Throughout the catalogue we use a number of symbols to identify specific characteristics about our products, please familiarise yourself with these below.




Lower environmental impact product

The Eco range of products has been designed as part of our ongoing focus on sustainable development. Wherever you see the  logo we have reduced the environmental impact of these products compared to traditional PVC options.




View product video

We have a large number of product videos to show how our products can be used and their features and benefits. These can be viewed via the website on the Video page, where available are indicated by the play button.



Baggins the Bear

The Baggins the Bear symbol  can be found on a number of paediatric products that help to distract and relax children undergoing anaesthesia. See the website for the Baggins the Bear collection to ease the experience of a hospital stay including: colouring book, poster and bravery certificate.


A guide to our ports and caps

Ports and caps are available on a variety of products including catheter mounts, elbows, T-pieces, Y-pieces and connectors. For added safety all Intersurgical port caps are fixed to the connectors, to prevent loss or misplacement in use.

 Video available at www.intersurgical.com 

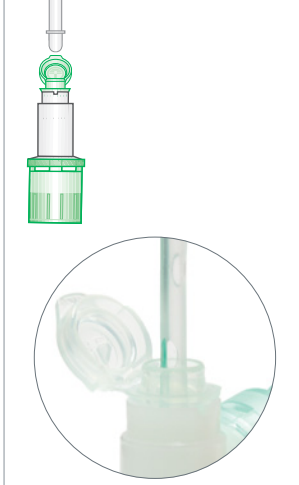
Luer ports

For secure attachment of gas sampling lines with luer lock fittings



7.6mm port and flip top cap

For insertion of all standard 7.6mm probes or for suctioning



Double flip top cap with seal

Bronchoscopy and suction ports in one patient connection

First tab open: bronchoscope mode with seal

Second full cap open: suction mode

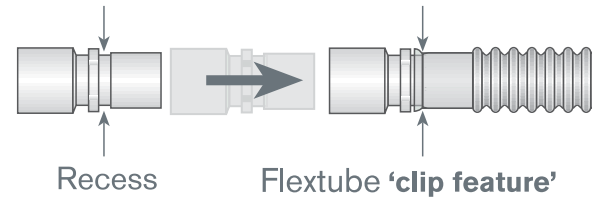


A guide to our tube types

We manufacture a variety of tubes to suit different applications and clinical requirements:

Flextube™ – for flexibility

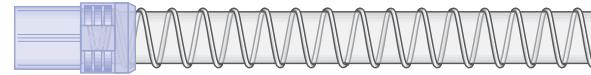
Most of our breathing systems, plus our Flexible range of catheter mounts, are made from Intersurgical Flextube. The tube is flexible and has a unique clip feature ensuring an airtight fit when used with our connectors with a recess.



Smoothbore – for improved flow characteristics

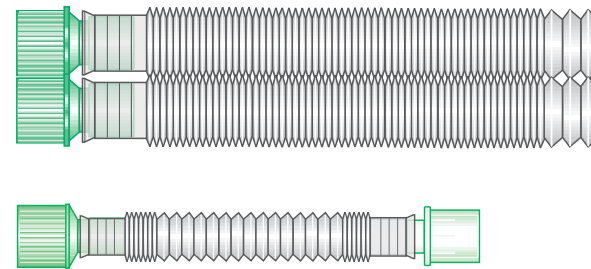
We have a range of breathing systems and catheter mounts made from Smoothbore tubing. A non-PVC Eco option is also available providing a lower environmental impact. The clear crush resistant tubing offers improved ventilatory support, with:

- Improved flow characteristics
- Lower tubing compliance
- Lower system volume



Compact™ and Superset™ – extendable tube

Compact breathing systems and Superset catheter mounts are made using extendable tubing. This allows the tube length to be changed to suit the clinical situation and for the tube position to be set as required, with multiple positioning possibilities ideal for head and neck surgery. The Compact systems are supplied in a compressed form which increases the number of systems per box, for more cost effective storage and disposal. This means that there can be significant space savings compared with other breathing systems.





Airway Management

A range of airway management devices including the innovative i-gel[®] and laryngeal mask airways, airway management accessories, breathing filters and patient connections.

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One-piece Guedel airways

Safer by design

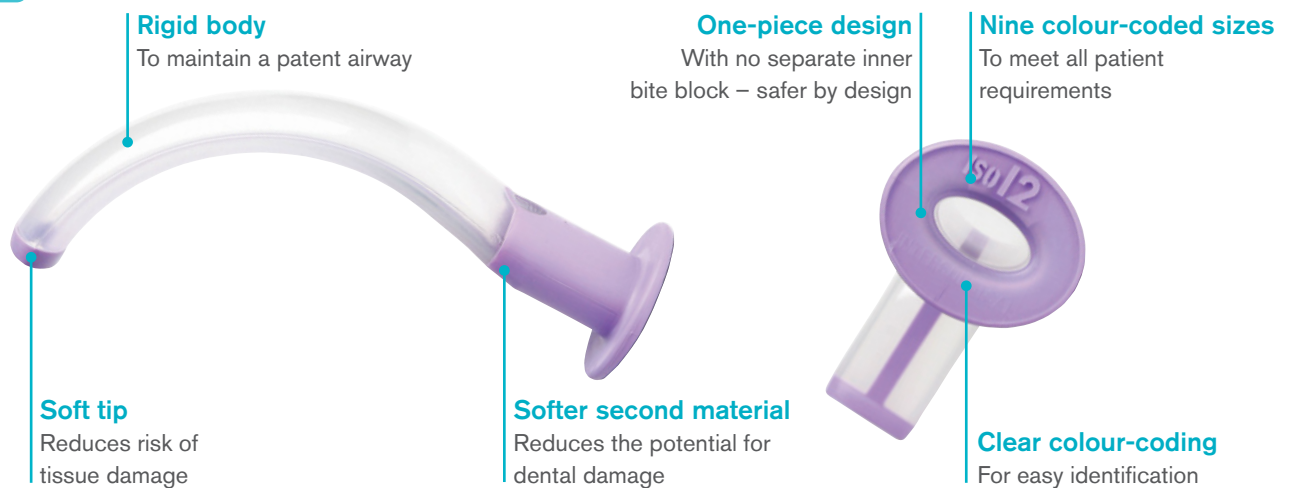
By using the latest manufacturing technology Intersurgical has produced the first major breakthrough in Guedel airway design for thirty years.

Combining two materials with very different physical characteristics into one moulding, our One-piece design eliminates the separate bite block found in all conventional Guedel airways.

Loose or detached bite blocks constitute a real threat to patient safety and have been the subject of several hazard notices in the past. Our One-piece design overcomes all of the associated risks.

As well as improved safety, the One-piece also incorporates a soft tip reducing the risk of trauma to the patient. We also offer a sterile option, providing a further choice.

▶ Video available at www.intersurgical.com



Code	Description	Size	ISO	Colour	Box Qty.
1115120S	One-piece Guedel airway	5	12.0	Purple	70
1114100S	One-piece Guedel airway	4	10.0	Red	90
1113090S	One-piece Guedel airway	3	9.0	Orange	90
1112080S	One-piece Guedel airway	2	8.0	Green	100
1111570S	One-piece Guedel airway	1.5	7.0	Yellow	100
1111065S	One-piece Guedel airway	1	6.5	White	20
1110055S	One-piece Guedel airway	0	5.5	Grey	25
1100050S	One-piece Guedel airway	00	5.0	Blue	25
1000035S	One-piece Guedel airway	000	3.5	Pink	25

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Lower environmental impact product



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i-gel® supraglottic airway



For use in anaesthesia and resuscitation

i-gel® is a truly unique, single use, latex and PVC free second generation supraglottic airway management device that represents the culmination of years of extensive research and development. Made from a medical grade thermoplastic elastomer, i-gel® has been designed to create a non-inflatable, anatomical seal of the pharyngeal, laryngeal and perilaryngeal structures whilst avoiding compression trauma.

The i-gel® supraglottic airway is supplied in a fully recyclable protective cradle or cage pack. This unique packaging protects the i-gel® in transit and ensures that it maintains its anatomical shape. i-gel® is available in seven sizes.

www.i-gel.com

▶ Video available at www.intersurgical.com



15mm connector

Reliable connection to any standard catheter mount or connection

Proximal end of gastric channel

Clearly displayed product information

For quick easy reference. Includes confirmation of size and weight guidance

Position guide (adult sizes only)

Easy confirmation of optimum insertion depth



Gastric channel

The i-gel® incorporates a gastric channel (except size 1). It provides an early warning of regurgitation, allows for the passing of a nasogastric tube to empty stomach contents and facilitates venting

Integral bite block

Reduces the possibility of airway channel occlusion

Buccal cavity stabiliser

Aids insertion and eliminates the potential for rotation

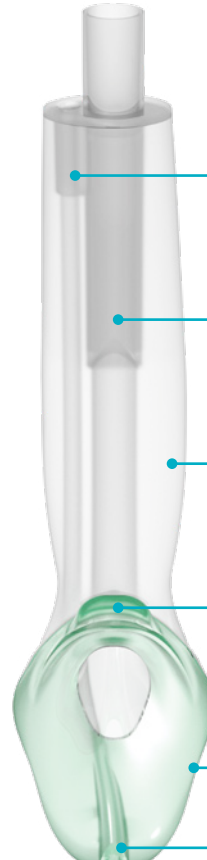
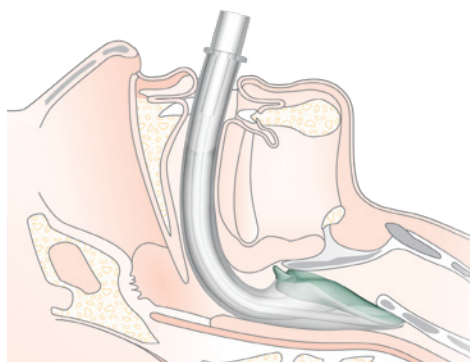
Epiglottic rest

Reduces the possibility of epiglottic 'down folding' and airway obstruction

The non-inflatable cuff

Made from a unique soft gel-like material allowing ease of insertion and reduced trauma

Distal end of gastric channel



Code	Description	Size	Weight	Box Qty.
8205000	i-gel®, supraglottic airway	5 Large adult	90+kg	25
8204000	i-gel®, supraglottic airway	4 Medium adult	50–90kg	25
8203000	i-gel®, supraglottic airway	3 Small adult	30–60kg	25
8225000	i-gel®, supraglottic airway	2.5 Large paediatric	25–35kg	10
8202000	i-gel®, supraglottic airway	2 Small paediatric	10–25kg	10
8215000	i-gel®, supraglottic airway	1.5 Infant	5–12kg	10
8201000	i-gel®, supraglottic airway	1 Neonate	2–5kg	10

Make an enquiry

i-gel® O₂ Resus Pack

For use in anaesthesia and resuscitation

The i-gel® O₂ Resus Pack puts the things you need at your fingertips. The pack contains an i-gel® O₂ second generation supraglottic airway, a sachet of lubricant, an airway support strap and a suction tube, all packaged in a specially designed clear, sterile rigid pack. This unique design ensures protection of the contents, both in transit and in storage. Available in three adult sizes, the i-gel® O₂ has a colour-coded hook ring to allow quick and easy size identification.

www.i-gel.com

▶ Video available at www.intersurgical.com



i-gel®^{O₂}



Pack content



Supplementary oxygen port

For the administration of passive oxygenation as a component of cardiocerebral resuscitation (CCR)

Colour coded hook ring

To secure the i-gel® O₂ in position with the airway support strap



Code	Description	Weight	Box Qty.
8705000	i-gel® O ₂ Resus Pack, large adult – includes a size 5 i-gel® O ₂ with orange hook ring, sachet of lubricant, airway support strap and a 12FG suction tube	90+kg	6
8704000	i-gel® O ₂ Resus Pack, medium adult – includes a size 4 i-gel® O ₂ with green hook ring, sachet of lubricant, airway support strap and a 12FG suction tube	50–90kg	6
8703000	i-gel® O ₂ Resus Pack, small adult – includes a size 3 i-gel® O ₂ with yellow hook ring, sachet of lubricant, airway support strap and a 12FG suction tube	30–60kg	6

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Please note: Suction tube contains PVC.



Contact us

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Solus™ laryngeal mask airways

A comprehensive range of single use laryngeal mask airways suitable for anaesthesia and emergency medicine.

Designed to meet the needs of a variety of clinical scenarios, all Solus laryngeal mask airways are single use, latex free and supplied sterile.

Low friction material

Atraumatic insertion & removal

Classic cuff shape

Renowned for reliability

Essential information

Clearly visible for quick reference



Integral inflation line

Reduces the risk of damage whilst in use

High quality valve

To ensure continual cuff integrity

Video available at www.intersurgical.com



Solus Standard

Using specially chosen materials, the Solus Standard is manufactured with the quality, flexibility and strength required to work effectively in a range of demanding clinical applications, including paediatric anaesthesia. Available in a full size range, from adult to neonate.



Make an enquiry

Code	Description	Size	Weight	Box Qty.
8005000	Solus Standard, laryngeal mask airway	5 Large adult	70+kg	20
8004000	Solus Standard, laryngeal mask airway	4 Medium adult	50–70kg	20
8003000	Solus Standard, laryngeal mask airway	3 Small adult	30–50kg	20
8025000	Solus Standard, laryngeal mask airway	2.5 Large paediatric	20–30kg	20
8002000	Solus Standard, laryngeal mask airway	2 Small paediatric	10–20kg	20
8015000	Solus Standard, laryngeal mask airway	1.5 Infant	5–10kg	20
8001000	Solus Standard, laryngeal mask airway	1 Neonate	<5kg	20

Solus Satin

Solus Satin is our range of single use laryngeal mask airways featuring a softer airway tube providing increased flexibility.



Make an enquiry

Code	Description	Size	Weight	Box Qty.
8005003	Solus Satin, laryngeal mask airway	5 Large adult	70+kg	20
8004003	Solus Satin, laryngeal mask airway	4 Medium adult	50–70kg	20
8003003	Solus Satin, laryngeal mask airway	3 Small adult	30–50kg	20

Solus MRI-safe

A range of single use, sterile, laryngeal mask airways fitted with specially designed non-ferrous valves, guaranteed not to interfere with the magnet in an MRI scanner. The plastic valve has been selected to ensure full reliability throughout the shelf life of each device.



[Make an enquiry](#)

Code	Description	Size	Weight	Box Qty.
8005002	Solus MRI-safe, laryngeal mask airway	5 Large adult	70+kg	20
8004002	Solus MRI-safe, laryngeal mask airway	4 Medium adult	50–70kg	20
8003002	Solus MRI-safe, laryngeal mask airway	3 Small adult	30–50kg	20
8025002	Solus MRI-safe, laryngeal mask airway	2.5 Large paediatric	20–30kg	20
8002002	Solus MRI-safe, laryngeal mask airway	2 Small paediatric	10–20kg	20
8015002	Solus MRI-safe, laryngeal mask airway	1.5 Infant	5–10kg	20
8001002	Solus MRI-safe, laryngeal mask airway	1 Neonate	<5kg	20

Solus Curve

Solus Curve is our laryngeal mask for those who prefer the insertion characteristics of a device with a curved airway tube.



[Make an enquiry](#)

Code	Description	Size	Weight	Box Qty.
8005050	Solus Curve, laryngeal mask airway	5 Large adult	70+kg	20
8004050	Solus Curve, laryngeal mask airway	4 Medium adult	50–70kg	20
8003050	Solus Curve, laryngeal mask airway	3 Small adult	30–50kg	20

Solus Flexible

Solus Flexible provides an ideal solution for shared airway procedures such as ENT, dental, oro-maxillary and eye surgery where the rigidity of airway devices can obscure surgical access. The wire-reinforced tube permits flexion without kinking and can be moved at any time mid-procedure without concern for the cessation of gas flow.



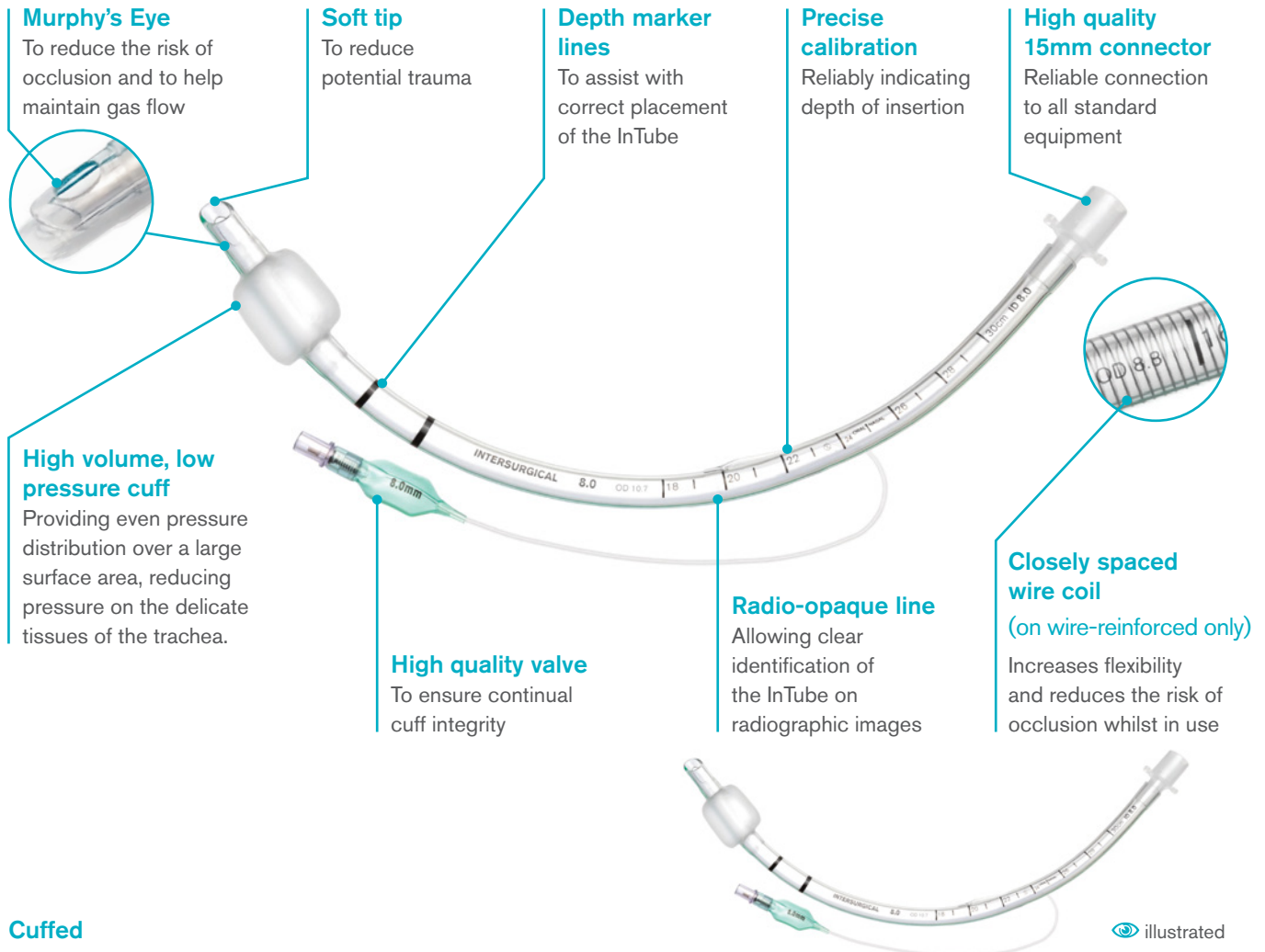
[Make an enquiry](#)

Code	Description	Size	Weight	Box Qty.
8005001	Solus Flexible, wire-reinforced laryngeal mask airway	5 Large adult	70+kg	20
8004001	Solus Flexible, wire-reinforced laryngeal mask airway	4 Medium adult	50–70kg	20
8003001	Solus Flexible, wire-reinforced laryngeal mask airway	3 Small adult	30–50kg	20
8025001	Solus Flexible, wire-reinforced laryngeal mask airway	2.5 Large paediatric	20–30kg	20
8002001	Solus Flexible, wire-reinforced laryngeal mask airway	2 Small paediatric	10–20kg	20



Intersurgical InTube™ tracheal tubes

Designed for use in anaesthesia, A&E and emergency medicine, the Intersurgical InTube range offers three varieties of tracheal tube: cuffed, reinforced and uncuffed, in a comprehensive range of sizes from paediatric to adult. Supplied sterile, individually packed, latex free and for single use.




Cuffed

illustrated


Code	Description	Size (Inner Diameter)	Box Qty.
8040100	InTube tracheal tube, cuffed	10.0mm	10
8040095	InTube tracheal tube, cuffed	9.5mm	10
8040090	InTube tracheal tube, cuffed	9.0mm	10
8040085	InTube tracheal tube, cuffed	8.5mm	10
8040080	InTube tracheal tube, cuffed	8.0mm	10
8040075	InTube tracheal tube, cuffed	7.5mm	10
8040070	InTube tracheal tube, cuffed	7.0mm	10
8040065	InTube tracheal tube, cuffed	6.5mm	10
8040060	InTube tracheal tube, cuffed	6.0mm	10
8040055	InTube tracheal tube, cuffed	5.5mm	10
8040050	InTube tracheal tube, cuffed	5.0mm	10
8040045	InTube tracheal tube, cuffed	4.5mm	10

Make an enquiry




 illustrated

Wire-reinforced


Code	Description	Size (Inner Diameter)	Box Qty.
8060100	InTube tracheal tube, wire-reinforced cuffed	10.0mm	10
8060095	InTube tracheal tube, wire-reinforced cuffed	9.5mm	10
8060090	InTube tracheal tube, wire-reinforced cuffed	9.0mm	10
8060085	InTube tracheal tube, wire-reinforced cuffed	8.5mm	10
8060080	InTube tracheal tube, wire-reinforced cuffed	8.0mm	10
8060075	InTube tracheal tube, wire-reinforced cuffed	7.5mm	10
8060070	InTube tracheal tube, wire-reinforced cuffed	7.0mm	10
 8060065	InTube tracheal tube, wire-reinforced cuffed	6.5mm	10
8060060	InTube tracheal tube, wire-reinforced cuffed	6.0mm	10
8060055	InTube tracheal tube, wire-reinforced cuffed	5.5mm	10
8060050	InTube tracheal tube, wire-reinforced cuffed	5.0mm	10
8060045	InTube tracheal tube, wire-reinforced cuffed	4.5mm	10

Make an enquiry



 illustrated

Uncuffed

Code	Description	Size (Inner Diameter)	Box Qty.
8050070	InTube tracheal tube, uncuffed	7.0mm	10
8050065	InTube tracheal tube, uncuffed	6.5mm	10
8050060	InTube tracheal tube, uncuffed	6.0mm	10
 8050055	InTube tracheal tube, uncuffed	5.5mm	10
8050050	InTube tracheal tube, uncuffed	5.0mm	10
8050045	InTube tracheal tube, uncuffed	4.5mm	10
8050040	InTube tracheal tube, uncuffed	4.0mm	10
8050035	InTube tracheal tube, uncuffed	3.5mm	10
8050030	InTube tracheal tube, uncuffed	3.0mm	10
8050025	InTube tracheal tube, uncuffed	2.5mm	10

Make an enquiry



Contact us

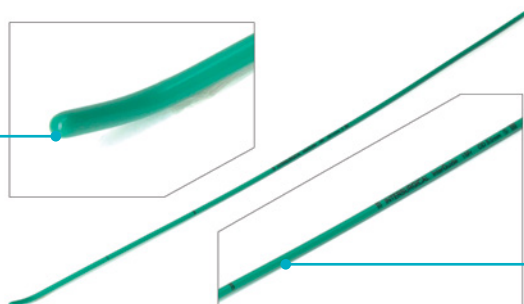
info@intersurgical.com ▪ www.intersurgical.com

InterGuide tracheal tube introducer

InterGuide is a flexible tracheal tube introducer commonly known as a bougie. It allows positive location of the trachea and subsequent placement of the endotracheal tube in difficult airway situations. InterGuide is single use, latex free and supplied sterile in easy-to-open individual packs.

Atraumatic coude tip

To reduce the potential for patient trauma



Low-friction surface
For easy insertion and operation

Code	Description	Size	Outer Diameter (OD)	Length	Box Qty.
8070015	InterGuide tracheal tube introducer bougie	15FR	5.0mm	700mm	10
8070010	InterGuide tracheal tube introducer bougie	10FR	3.3mm	700mm	10
8070006	InterGuide tracheal tube introducer bougie	6FR	2.0mm	530mm	10

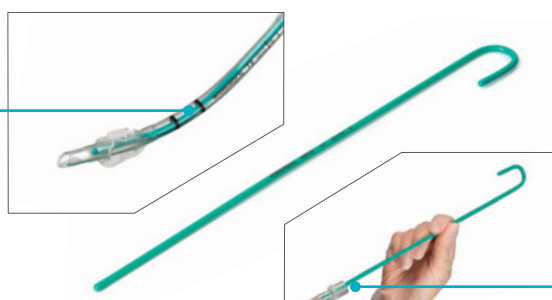
[Make an enquiry](#)

InterForm intubating stylet

InterForm is a malleable stylet, allowing the user to form the endotracheal tube into a suitable shape to ease insertion and give more control of the airway device. InterForm is single use, latex free and supplied sterile in easy-to-open individual packs.

Aluminium core

Allows user to easily form suitable shapes



Low-friction surface
For easy insertion and removal

Code	Description	Size	Outer Diameter (OD)	Length	Box Qty.
8080014	InterForm intubating stylet	14FR	4.7mm	340mm	10
8080010	InterForm intubating stylet	10FR	3.3mm	340mm	10
8080006	InterForm intubating stylet	6FR	2.0mm	275mm	10

[Make an enquiry](#)

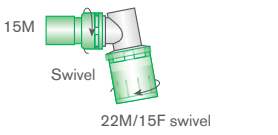
Double swivel elbows

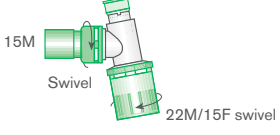
A range of double swivel elbows providing added mobility at the patient connection, with a variety of ports for all clinical applications. For added safety all Intersurgical port caps are fixed to the connectors, to prevent loss or misplacement in use.

Please see page 4 for our guide to ports and caps.

▶ Video available at www.intersurgical.com




Code 1897000S
Box Qty. 15
Compressible Volume 12ml


Code 1899000S
Box Qty. 15
Compressible Volume 12ml


Code 1898000S
Box Qty. 15
Compressible Volume 12ml



Make an enquiry

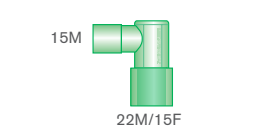
Fixed elbows

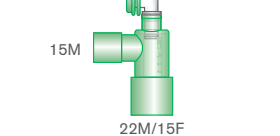
A range of fixed elbow connections with a variety of ports for a number of clinical applications. For added safety all Intersurgical port caps are fixed to the connectors, to prevent loss or misplacement in use.

Please see page 4 for our guide to ports and caps.

▶ Video available at www.intersurgical.com




Code 1997000S
Box Qty. 15
Compressible Volume 10ml


Code 2714000S
Box Qty. 15
Compressible Volume 11ml



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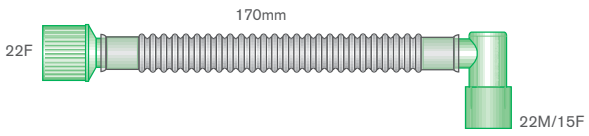


Flexible catheter mounts

A range of flexible catheter mounts available with a variety of elbow connections and ports for all applications. For added safety all Intersurgical port caps are fixed to the connectors, to prevent loss or misplacement in use.

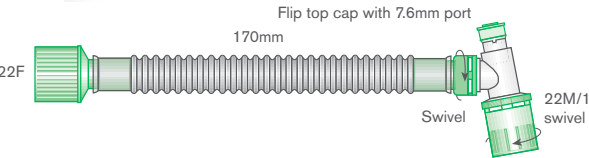
Please see page 4 for our guide to ports and caps.

▶ Video available at www.intersurgical.com

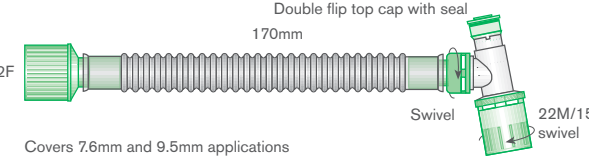
22F 170mm 22M/15F

Code	3501000S
Box Qty.	85
Compressible Volume	45ml



Flip top cap with 7.6mm port
22F 170mm Swivel 22M/15F swivel

Code	3516000S
Box Qty.	85
Compressible Volume	47ml



Double flip top cap with seal
22F 170mm Swivel 22M/15F swivel
Covers 7.6mm and 9.5mm applications

Code	3505000S
Box Qty.	85
Compressible Volume	48ml

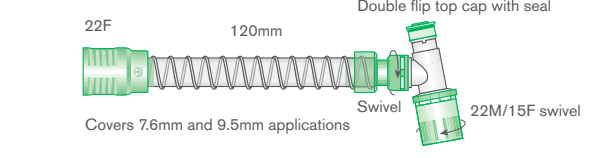
Make an enquiry

Smoothbore catheter mounts

A range of Smoothbore catheter mounts providing good flow characteristics, lower tubing compliance and clear, crush-resistant tubing. Available in a variety of lengths with double swivel elbows and double flip top caps. For added safety all Intersurgical port caps are fixed to the connectors, to prevent loss or misplacement in use.

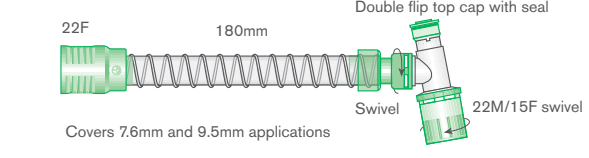
Please see page 4 for the guide to ports and caps.

▶ Video available at www.intersurgical.com

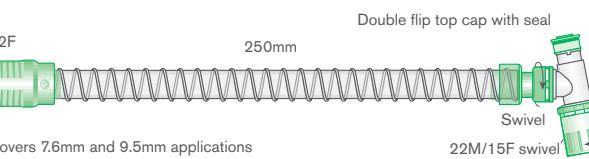
22F 120mm Double flip top cap with seal Swivel 22M/15F swivel
Covers 7.6mm and 9.5mm applications

Code	5120000S
Box Qty.	85
Compressible Volume	30ml



22F 180mm Double flip top cap with seal Swivel 22M/15F swivel
Covers 7.6mm and 9.5mm applications

Code	5180000S
Box Qty.	85
Compressible Volume	37ml



22F 250mm Double flip top cap with seal Swivel 22M/15F swivel
Covers 7.6mm and 9.5mm applications

Code	5250000S
Box Qty.	50
Compressible Volume	51ml

Make an enquiry

Superset™ catheter mounts

Superset catheter mounts have a concertina design to allow for complete positioning control.

The design allows the adjustment of compressible volume and the adjustment of length from 70mm to 150mm, excluding connectors.

The range is available with fixed and double swivel elbows and a variety of ports for all applications. For added safety all Intersurgical port caps are fixed to the connectors, to prevent loss or misplacement in use.

Please see page 4 for the guide to ports and caps.



Video available at www.intersurgical.com



Code	3504000S
Box Qty.	75
Compressible Volume	22-43ml

Code	3502000S
Box Qty.	40
Compressible Volume	23-44ml

Code	3514000S
Box Qty.	40
Compressible Volume	26-47ml

Code	3520000S
Box Qty.	40
Compressible Volume	23-47ml

Code	3521000S
Box Qty.	40
Compressible Volume	26-50ml

Make an enquiry



Contact us

info@intersurgical.com • www.intersurgical.com

Use of Breathing Filters

Breathing filters provide an effective barrier that prevent cross contamination between patients, respiratory breathing systems, equipment and the clinical environment. Their use is widely recognised as beneficial and is recommended by a number of Anaesthetic Associations¹.

The threat to patients

Patients who require an artificial airway have their natural physiological protection bypassed. This will increase the risk of cross contamination between patients and healthcare equipment. The cross contamination of patients via an anaesthetic system has been reported, and documented areas of concern regarding infection includes *Hepatitis C*, *Mycobacterium tuberculosis*, blood in sputum and the *SARS* virus.

Critically ill patients are commonly at risk of infection and particularly from Ventilator Associated Pneumonia (V.A.P.). This nosocomial infection increases morbidity and potential mortality as well as the cost of treating the patient. The strategic use of an efficient breathing filter will provide an effective barrier between patients, breathing systems and ventilatory equipment.

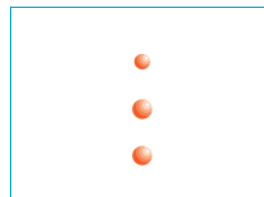
Proven efficiency

The Intersurgical range of breathing filters has been designed for the protection of the patient, breathing system and equipment. They have been independently tested and proven to be highly efficient in preventing the passage of bacteria and viruses. Clinically relevant testing is carried out on all products using *Bacillus subtilis* (1.0µm x 0.7µm) and Ø174 bacteriophage, additional testing includes *Mycobacterium tuberculosis* (0.3µm x 1.0µm), *Hepatitis C* (0.03µm) and *MS-2 coliphage* (0.02µm). These tests provide you with clinically relevant information to allow evidence-based decisions to be made on the most appropriate product to meet your clinical requirements.

Potential infectious viruses [Particle sizes µ microns]

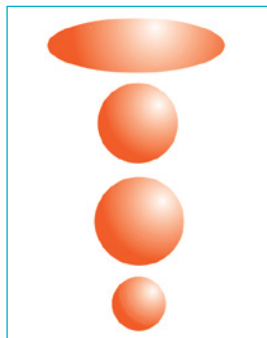


Coliphage T1 [0.017µ]
MS-2 coliphage [0.02µ]
Hepatitis C [0.03µ]
Adenovirus [0.07µ]

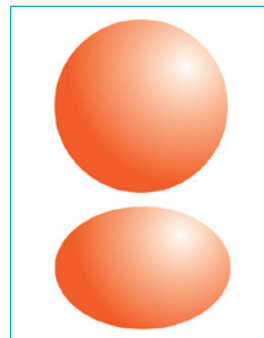


HIV [0.11µ]
Cytomegalovirus (CMV) [0.1µ]
Orthomyxovirus [0.1µ]

Potential infectious bacteria [Particle sizes µ microns]



Mycobacterium tuberculosis [0.3µ x 1.0µ smallest size]
Serratia marcescens [0.45µ]
Pseudomonas aeruginosa [0.5µ]
Brevundimonas diminuta [0.3µ]



Staphylococcus aureus [1.0µ]
Bacillus subtilis [1.0µ x 0.7µ]

Essential requirements

The Intersurgical range of breathing filters offers a choice of electrostatic and pleated mechanical filters with a range of patient connections, providing a choice of products to meet various clinical situations.

- Independently validated Filtration Efficiency²
- Proven filtration against *Mycobacterium tuberculosis* and *Hepatitis C*
- Proven efficiency not affected by anaesthetic agent
- Safe inert material
- Option of patient connections – conveniently packed and ready for use
- Lightweight – reducing patient trauma
- Low compressible volume – reducing rebreathing of CO₂
- Low resistance to flow – over 24 hours
- Safe, secure ISO connectors
- Compliance to all relevant international standards

Filtration efficiency

Filtration performance is determined by independent microbiological testing against clinically relevant bacterial and viral challenges. The level of breakthrough of the challenge determines the efficiency. This efficiency is reported as a percentage based upon this break-through.

Number of organisms challenging the filter	Number of organisms passing through the filter	Efficiency of the filter
100,000	1,000	99%
	100	99.9%
	10	99.99%
	1	99.999%

References

1. Association of Anaesthetists of Great Britain and Ireland 1996. Danish Society of Anaesthetists 1998. French Society of Anaesthetists 1998.
2. All filters are independently validated for filtration efficiency at the Health Protection Agency, Porton Down, Salisbury, Wiltshire, U.K and Nelson Laboratories Inc, USA. All quoted performance figures are mean values.

Inter-Guard™ range

Sterile

The Inter-Guard range of sterile breathing filters is designed for use in breathing systems in the operating theatre and the intensive care unit for the protection of the patient, breathing system and equipment. The perfect combination between size and performance.

Make an enquiry



Code	1344007S	1344000S	1344711S
Box Qty.	50	50	50
Luer lock port		✓	
Filtration efficiency	>99.998%	>99.998%	>99.998%
Resistance to flow at 30L/min	0.8cm H ₂ O	0.8cm H ₂ O	1.1cm H ₂ O
Resistance to flow at 60L/min	2.0cm H ₂ O	2.0cm H ₂ O	2.7cm H ₂ O
Compressible volume	41ml	42ml	41ml*
Weight	22g	23g	36g
Connectors	22F/15M-22M/15F	22F/15M-22M/15F	22F/15M-22M/15F
Minimum tidal volume	>150ml	>150ml	>150ml
Accessories			Superset™ catheter mount** 3504000

* Filter only

** Refer to information on catheter mount volumes in Patient Connections.



Hydro-Guard™ range

Pleated membrane filter

A versatile, low-volume breathing filter with a pleated mechanical membrane for use in anaesthesia as an HMEF (moisture return: 23mg H₂O/L at VT 500ml), or in ITU as a filter only. Supplied sterile.

Make an enquiry



Code	1744000S	1744011S	1744580S
Box Qty.	50	50	50
Luer lock port	✓	✓	✓
Filtration efficiency	>99.999%	>99.999%	>99.999%
Resistance to flow at 30L/min	1.7cm H ₂ O	1.7cm H ₂ O*	1.6cm H ₂ O
Resistance to flow at 60L/min	3.6cm H ₂ O	3.6cm H ₂ O*	3.2cm H ₂ O
Compressible volume	63ml	63ml*	63ml*
Weight	36g	50g	36g
Connectors	22F/15M-22M/15F	22F/15M-22M/15F	22F/15M-22M/15F
Minimum tidal volume	>200ml	>200ml	>200ml
Accessories		Superset™ catheter mount**	Smoothbore catheter mount with double swivel elbow and double flip top cap**

Air-Guard™

For use in respiratory systems and oxygen concentrators

The Intersurgical Air-Guard is a hydrophobic pleated mechanical filter for the protection of oxygen concentrators and other respiratory equipment.

Providing an excellent level (>99.9999%) of protection against bacterial and viral challenges, the Air-Guard's product performance has been tested, validated and verified at independent microbiological laboratories.

Code	1790000S
Box Qty.	40
Filtration efficiency	>99.9999%
Resistance to flow at 30L/min	0.9cm H ₂ O
Resistance to flow at 60L/min	1.9cm H ₂ O
Compressible volume	120ml
Weight	56g
Connectors	22F-22M/15F
Minimum Tidal Volume	>360ml

* Filter only

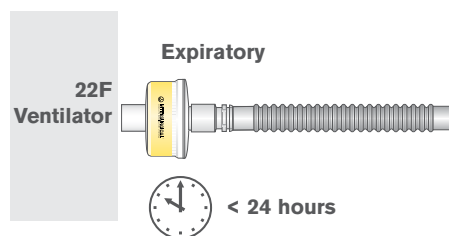
** Refer to information on catheter mount volumes in Patient Connections.

The Air Guard pleated mechanical filter is validated for 24-hours use but this can be extended when used in non-humidified gas flow. The product can be used for extended periods of time for the protection of oxygen concentrators, upon the discretion of the clinician.

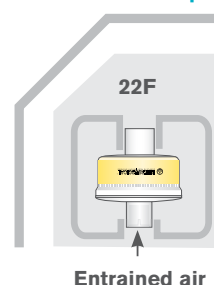
Please note: This product is contraindicated for use at the patient connection end of the breathing system.

Make an enquiry

Respiratory system protection



Oxygen concentrator protection



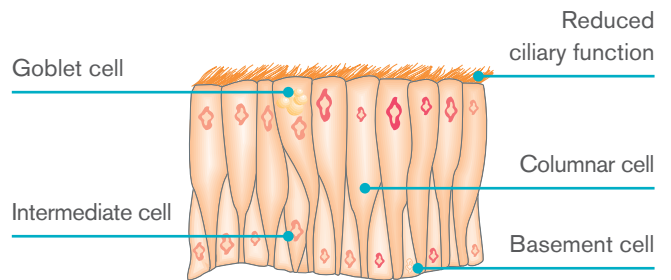
Heat and Moisture Exchangers (HMEs)

In normal respiration the anatomy of the upper airway helps to warm and humidify inspired air, and to retain the warmth and moisture contained in expired air. During inspiration, even cold or dry air is typically heated to 37 °C and, fully saturated, contains 44mg H₂O per litre. In mechanical ventilation or anaesthesia, the patient's upper airway may be bypassed by the introduction of a tracheal tube. As a result the patient's lungs may be confronted with cold dry inspired gas.

Prolonged exposure to dry ventilatory gases can lead to:

- Localised inflammation of the trachea
- A reduction in ciliary function
- Retention and thickening of secretions
- Lowering of patient temperature
- Reduction in cardiopulmonary function
- Increased risk of tracheostomy tube occlusion
- Extended duration and cost of care

Respiratory epithelium adversely affected by heat and moisture loss



Tracheostomy HMEs

Heat and moisture exchangers designed for use on tracheostomised patients, the Hydro-Trach T and Inter-Therm T+ are ideal products for prolonged use with spontaneously breathing patients.



	Hydro-Trach T	Hydro-Trach T	Inter-Therm T+	Inter-Therm T+
Code	1873000S	1874000S	1875000S	1875001S
Box Qty.	100	20	100	20
Moisture loss	13.2mg H ₂ O/L	13.2mg H ₂ O/L	13.1mg H ₂ O/L	13.1mg H ₂ O/L
Calculated moisture return	26mg H ₂ O/L	26mg H ₂ O/L	26.1mg H ₂ O/L	26.1mg H ₂ O/L
Resistance at 30L/min	0.3cm H ₂ O	0.3cm H ₂ O*	0.4cm H ₂ O	0.4cm H ₂ O*
Resistance at 60L/min	0.6cm H ₂ O	0.6cm H ₂ O*	1.1cm H ₂ O	1.1cm H ₂ O*
Compressible volume	19ml	19ml	19ml	19ml
Weight	8g	8g	9g	9g
Connectors	15F	15F	15F	15F
Minimum tidal volume	>60ml	>60ml	>60ml	>60ml
Accessories		1.8m oxygen tube		1.8m oxygen tube

* Filter only



Inter-Therm™ range

Sterile

The Inter-Therm range of sterile HMEFs is designed for use in breathing systems in the operating theatre and intensive care unit.

The Inter-Therm includes a wound paper HME media, providing excellent humidification and low resistance properties.

Inter-Therm Mini Angled offers an easy to use option with an integral 90° elbow for paediatrics, reducing the need for an additional catheter mount or separate patient elbow.

Turbo webs

Evenly distributes the air flow to ensure all of the filter media is utilised

Wound paper HME element

Providing high moisture return



HME on the patient side

Ensuring low resistance to flow during use

Self retaining port cap

Improving patient safety



Code	1341000S	1341007S	1341197S	1341351S
Box Qty.	50	50	50	50
Luer lock port	✓		✓	✓
Moisture loss	6mg H ₂ O/L	6mg H ₂ O/L	6mg H ₂ O/L	6mg H ₂ O/L
Calculated moisture return	32.3mg H ₂ O/L	32.3mg H ₂ O/L	32.3mg H ₂ O/L	32.3mg H ₂ O/L
Filtration efficiency	>99.998%	>99.998%	>99.998%	>99.998%
Resistance at 30L/min	1.6cm H ₂ O	1.6cm H ₂ O	1.5cm H ₂ O	1.7cm H ₂ O
Resistance at 60L/min	2.7cm H ₂ O	2.7cm H ₂ O	4.0cm H ₂ O	4.6cm H ₂ O
Compressible volume	57ml	57ml	57ml*	57ml*
Weight	31g	30g	38g	47g
Connectors	22F/15M-22M/15F	22F/15M-22M/15F	22F/15M-22M/15F	22F/15M-22M/15F
Minimum tidal volume	>180ml	>180ml	>180ml	>180ml
Accessories			Elbow** 1997000	Flexible catheter mount with fixed elbow** 3501000

Make an enquiry

* HMEF only

** Refer to information on catheter mount volumes in Patient Connections.



Code	1341211S	1341974S	1341011S	1341012S
Box Qty.	50	50	50	50
Luer lock port	✓	✓	✓	✓
Moisture loss	6mg H ₂ O/L	6mg H ₂ O/L	6mg H ₂ O/L	6mg H ₂ O/L
Calculated moisture return	32.3mg H ₂ O/L	32.3mg H ₂ O/L	32.3mg H ₂ O/L	32.3mg H ₂ O/L
Filtration efficiency	>99.998%	>99.998%	>99.998%	>99.998%
Resistance at 30L/min	1.4cm H ₂ O	1.6cm H ₂ O	1.4cm H ₂ O	1.6cm H ₂ O
Resistance at 60L/min	3.5cm H ₂ O	4.4cm H ₂ O	3.5cm H ₂ O	4.4cm H ₂ O
Compressible volume	57ml*	57ml*	57ml*	57ml*
Weight	49g	51g	45g	46g
Connectors	22F/15M-22M/15F	22F/15M-22M/15F	22F/15M-22M/15F	22F/15M-22M/15F
Minimum tidal volume	>180ml	>180ml	>180ml	>180ml
Accessories	Superset™ catheter mount and safety cap** 3504000	Superset™ catheter mount with detachable fixed elbow** 3504000, 1997000	Superset™ catheter mount** 3504000	Superset™ catheter mount with fixed elbow** 3502000



Inter-Therm™ Mini



Inter-Therm™ Mini



Inter-Therm™ Mini Angled

Code	1341580S	1331000S	1331197S	1332000S
Box Qty.	50	50	30	50
Luer lock port	✓	✓	✓	✓
Moisture loss	6mg H ₂ O/L	8.4mg H ₂ O/L	8.4mg H ₂ O/L	8.5mg H ₂ O/L
Calculated moisture return	32.3mg H ₂ O/L	30.2mg H ₂ O/L	30.2mg H ₂ O/L	30.1mg H ₂ O/L
Filtration efficiency	>99.998%	>99.99%	>99.99%	>99.99%
Resistance at 30L/min	1.6cm H ₂ O	2.2cm H ₂ O	2.6cm H ₂ O	2.2cm H ₂ O
Resistance at 60L/min	3.9cm H ₂ O	N/A	N/A	N/A
Compressible volume	57ml*	28ml	28ml*	29ml
Weight	58g	20g	27g	19g
Connectors	22F/15M-22M/15F	22F/15M-22M/15F	22F/15M-22M/15F	15M-22M/15F
Minimum tidal volume	>180ml	>90ml	>90ml	>90ml
Accessories	Smoothbore catheter mount with double swivel elbow and double flip top cap** 5180000		Elbow** 1997000	

Make an enquiry

* HMEF only

** Refer to information on catheter mount volumes in Patient Connections.



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Anaesthesia

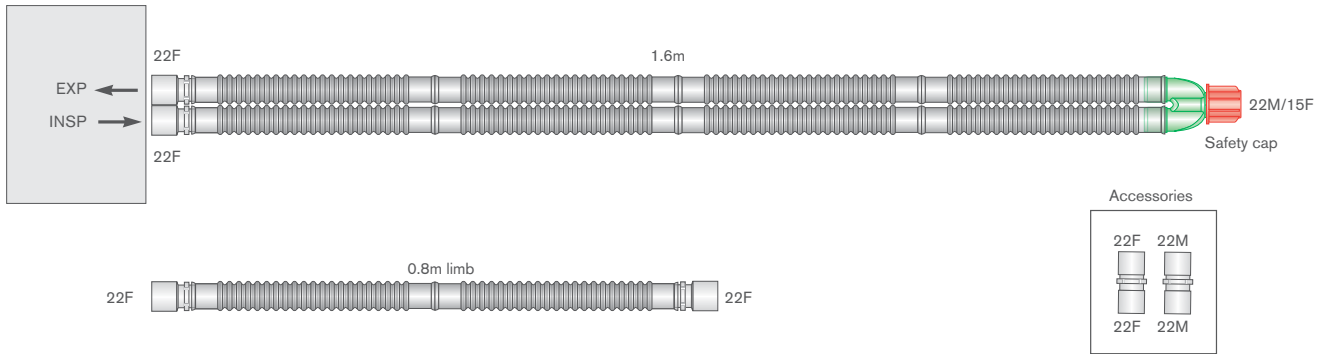
A full range of anaesthetic breathing systems and accessories for use in the operating room, recovery and emergency care.

Anaesthetic Breathing Systems.....	25
Resuscitation and Emergency Care.....	29

Flextube™ circle breathing systems

A range of Flextube circle breathing systems which have a unique clip feature, when used with Intersurgical recessed connectors an airtight fit is achieved, ensuring there are no leaks or disconnections. These systems are supplied sterile.

Please see page 5 for a guide to our tube types.



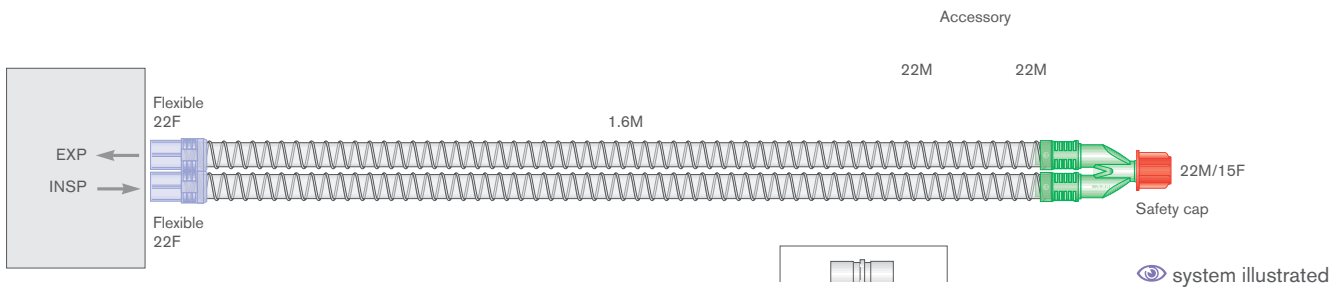
system illustrated

Code	Description	Box Qty.
2000000S	22mm Flextube breathing system, ≥ 1.6m	15
2001000S	22mm Flextube breathing system, ≥ 2.4m	10
2002000S	22mm Flextube breathing system and limb, ≥ 1.6m	15
2010000S	22mm Flextube breathing system with 2L bag and limb, ≥ 1.6m	12

Make an enquiry

Smoothbore circle breathing systems

A range of Smoothbore circle breathing systems which incorporate flexible machine end connectors along with lightweight rigid connectors within the system, offering improved ventilatory support.



system illustrated

Code	Description	Box Qty.
5000000S	22mm Smoothbore breathing system, ≥ 1.6m	20
5021000S	22mm Smoothbore breathing system, ≥ 1.8m	12
5001000S	22mm Smoothbore breathing system, ≥ 2.0m	15
5007000S	22mm Smoothbore breathing system with ported Y-piece and water trap, ≥ 1.6m	18
5009000S	22mm Smoothbore breathing system with ported Y-piece, water traps and limb, ≥ 1.6m	15
5014000S	22mm Smoothbore breathing system with 2 litre bag and extra limb	10
5154000S	22mm Smoothbore breathing system with 2 litre bag, elbow and extra limb	15

Make an enquiry

Compact™ extendable anaesthetic breathing systems providing a versatile solution

Optimum compression

Designed for economy, the unique Compact extendable anaesthetic breathing system can be compressed to almost one fifth of its extended length. Supplied in compressed form increasing the number of systems per box, there can be significant space and cost savings compared with other breathing systems. A standard box of Compact systems could provide a hospital with an extra three weeks supply.

- More Compact systems per box
- Lower storage requirements
- Lower freight volume costs
- Improved disposal

Low resistance to flow

Designed with a shallow profile resulting in more laminar gas flow and lower resistance to flow. At 60 L/min, resistance to flow of the extended tube is 1.0 cm H₂O per metre.

Lightweight system

Lighter than other extendable systems ensuring that the 'pull' on the patient's airway device is kept to a minimum.

Low compliance

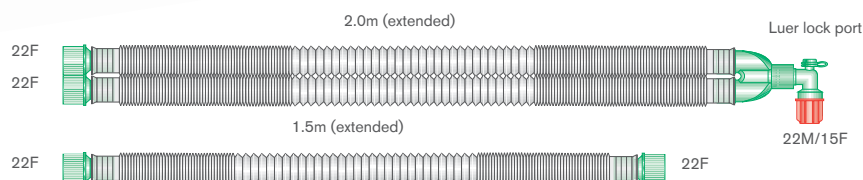
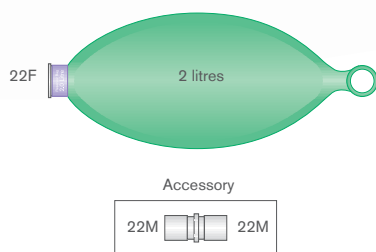
The compliance of the Compact system tube when extended is 4.4ml/kpa per metre of tube, which is less than that required in the ISO 5367:2000 standard.

Adjustable length

Packed and supplied in the shortest length for simple extension to the length required for clinical use.

Easy positioning

The nature of the Compact system tube allows for it to be set in any position required. This results in multiple positioning possibilities, ideal for head and neck surgery where the system can be positioned away from the patient, and does not require any additional patient connections.



system illustrated

Code	Description	Box Qty.
2151000S	22mm Compact, extendable breathing system with luer elbow, ≥2.0m	30
2154000S	22mm Compact, extendable breathing system with 2L bag and limb, ≥2.0m	20

Make an enquiry

UniFlow™ universal coaxial breathing systems ideally suited for low flow anaesthesia

The UniFlow range of universal coaxial anaesthetic breathing systems has been designed to meet the demands of changing clinical practice and user demands.

UniFlow systems fit all standard carbon dioxide absorbers and are ideally suited for use in low flow anaesthesia.

Integral respiratory gases monitoring line safely inside the outer lumen
Cannot be caught accidentally, which can result in a disconnection of the monitoring line (not applicable with 2900000 and 2901000)

Dual lumen feature
Patient receives warmer humid gases than with a conventional two limb parallel system

Extendable expiratory gases limb up to 0.5 metres long
Easy to fit UniFlow to any absorber system

Large 30mm diameter outer lumen
This ensures that the resistance to flow of the expired gases is kept to a minimum. During the passive expiratory phase of spontaneous breathing, the patient will experience no additional resistance.

The inner lumen has an integral swivel feature
The inner lumen is independent from the outer lumen reducing the possibility of kinking leading to restriction of gas flow

The inner lumen is fixed at the patient end
The inner lumen will not migrate up the outer lumen adding to the dead space. It also allows for the insertion of the UniFlow leak tester to assess the integrity of the inner lumen, as recommended by the AAGBI¹

Silver Knight™ version
Also available

Each UniFlow system comes complete with a leak tester

Easy to test the integrity of the inner lumen as recommended by the AAGBI¹. Safety is assured as both the inner and outer lumens can be properly and independently tested for leaks.



▶ Video available at www.intersurgical.com



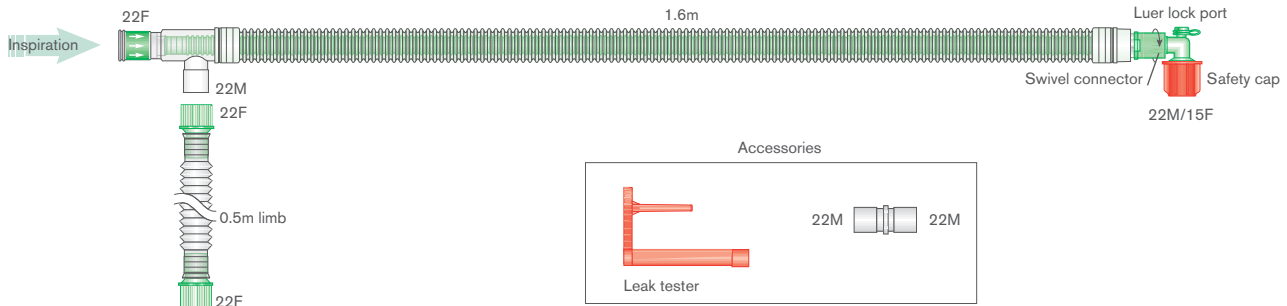
Reference: 1. 'Checking Anaesthetic Equipment 3', (2004), E2, Anaesthetic Association of Great Britain and Ireland (AAGBI).





UniFlow™ coaxial breathing systems with leak tester

UniFlow is a convenient tube-within-a-tube breathing system designed with low flow anaesthesia in mind, offering warmer, more humid inspiratory gases, and the option of an integrated respiratory gases monitoring line.

UniFlow can be used on paediatrics to as low as 5kg in weight².



 system illustrated

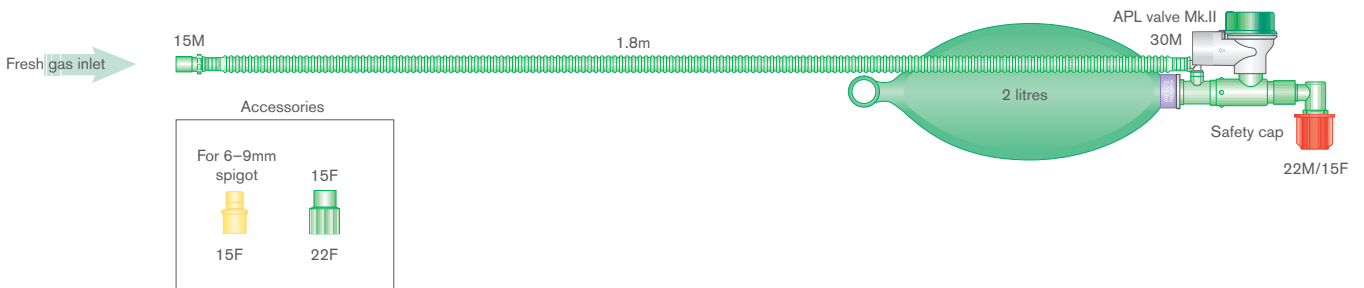
Code	Description	Box Qty.
 2900000S	30mm UniFlow coaxial breathing system with limb, $\geq 1.6\text{m}$	15
2902000S	30mm UniFlow coaxial breathing system with integral monitoring line and limb, $\geq 1.6\text{m}$	15

Make an enquiry

We have a range of lightweight versions of the most commonly used anaesthetic breathing systems in the Mapleson classifications which were first published over sixty years ago by Prof. W W Mapleson.

Adult bagging systems – Mapleson C

The versatile Mapleson C System is ideally suited for use in intensive care, recovery areas and accident and emergency departments. Used for induction of anaesthesia, resuscitation, patient transport and 'bagging', the system offers more 'feel' of the patient's lung compliance than that provided by a BVM resuscitation system.

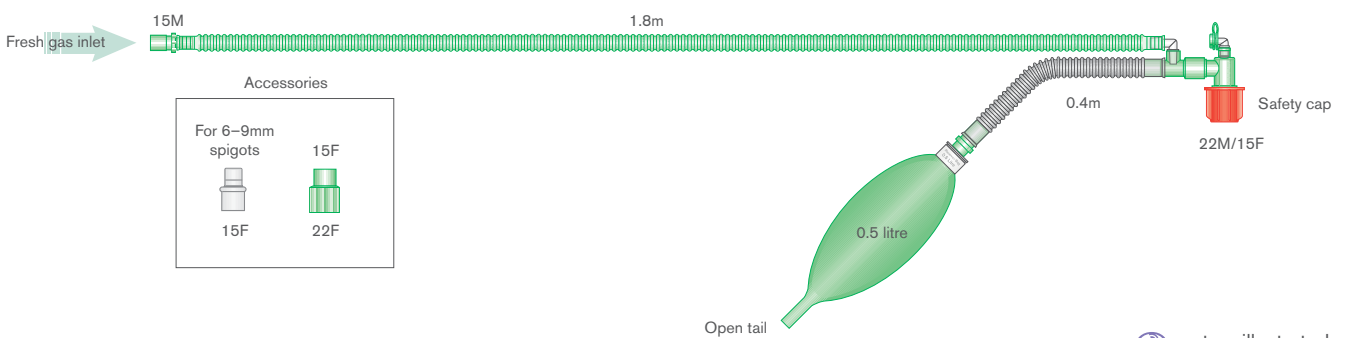


system illustrated

Code	Description	Box Qty.
2108000S	Adult, Mapleson C bagging system with 2L bag, ≥1.8m	20

Make an enquiry

Mapleson F infant T-piece breathing system



system illustrated

Code	Description	Box Qty.
2121000S	Mapleson F Jackson Rees modification T-piece breathing system with 0.5L open tail bag, ≥1.8m	12

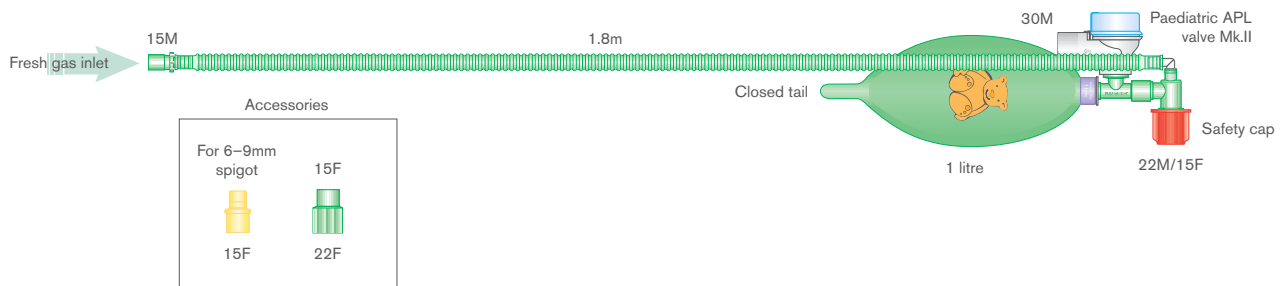
Make an enquiry



Contact us

Infant T-piece anaesthetic breathing system

An infant T-piece system with the paediatric APL valve positioned away from the patient allowing spontaneous and hand ventilation whilst preserving the clinical field around the patient. This system is based on the Jackson Rees modification with a closed tail bag.



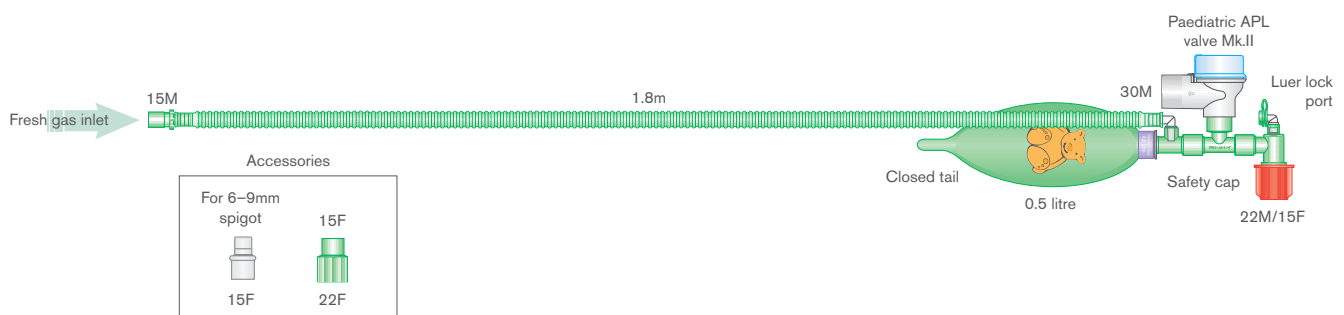
system illustrated

Code	Description	Box Qty.
2123000S	Infant T-piece breathing system with 1.0L closed tail bag for direct gas delivery for paediatrics, $\geq 1.8\text{m}$	12

Make an enquiry

Paediatric bagging systems

Available in 0.5 and 1 litre options, this paediatric version of the universally accepted adult bagging system incorporates a CO₂ monitoring elbow at the patient connection for direct sampling. This system can be utilised in a wide range of clinical applications including physiotherapy, patient transfer, resuscitation, and may be used for both spontaneously breathing and hand ventilated patients in theatre and recovery.



system illustrated

Code	Description	Box Qty.
2124000S	Paediatric, bagging system with 0.5L closed tail bag, $\geq 1.8\text{m}$	20

Make an enquiry



Critical Care

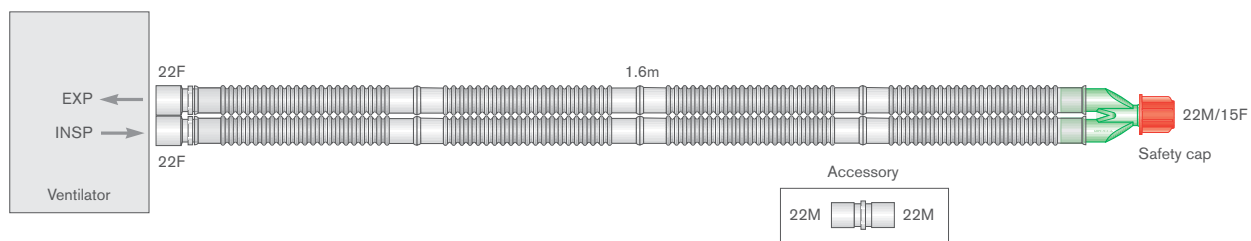
Respiratory products for ventilatory support in Intensive Care and High Dependency Units, for adult, paediatric and neonate patients.

Breathing Systems for Critical Care.....	32
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TrachSeal™ closed suction systems.....	39
Connectors	41

Flextube™ breathing systems for passive humidification

A range of 22mm Flextube breathing systems for passive humidification featuring a unique clip feature that creates an airtight fit when used with Intersurgical connectors. This ensures that there are no leaks or disconnections.

Please see page 5 for a guide to our tube types.



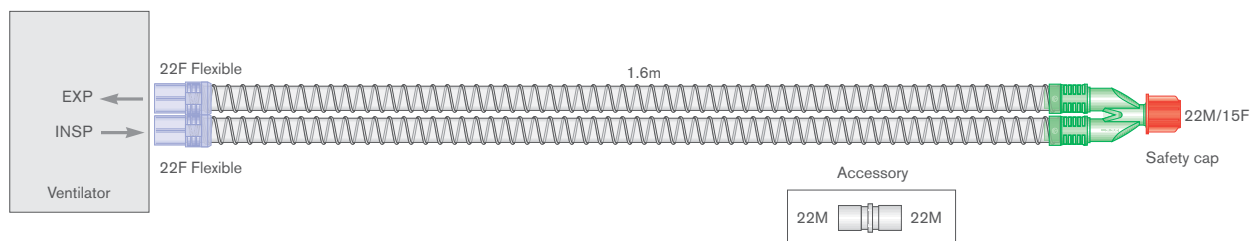
system illustrated

Code	Description	Box Qty.
200000S	22mm Flextube breathing system. $\geq 1.6\text{m}$	15
200100S	22mm Flextube breathing system. $\geq 2.4\text{m}$	10

Make an enquiry

Smoothbore breathing systems for passive humidification

Smoothbore tubing incorporates flexible end connectors at the machine end that are welded on to the tube, preventing leakage or disconnection.



system illustrated

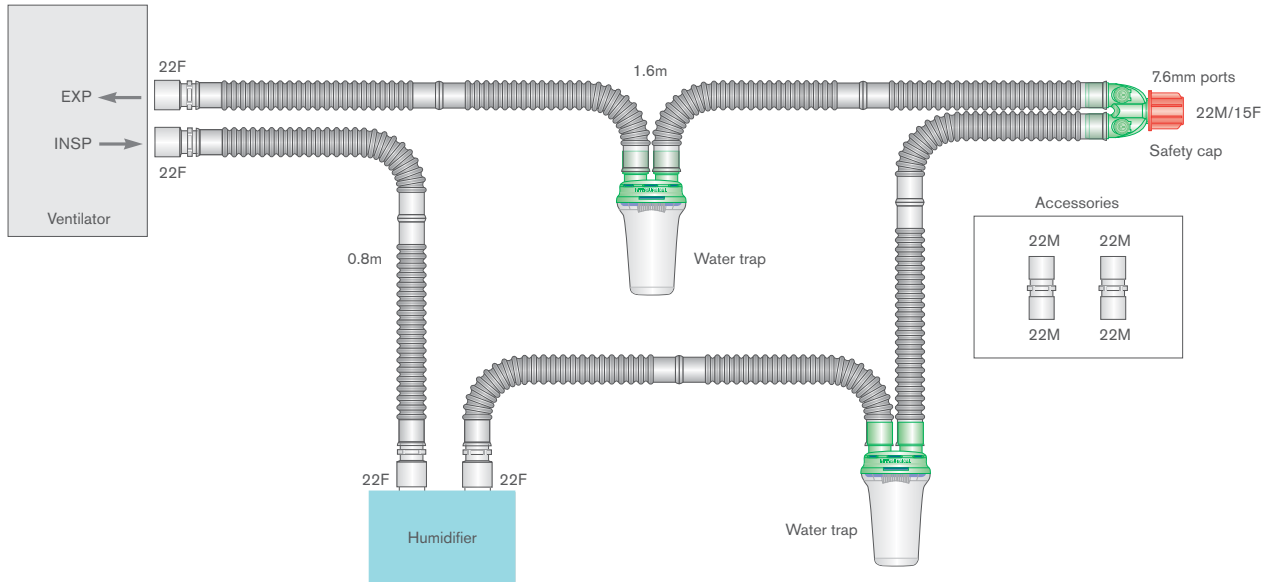
Code	Description	Box Qty.
500000S	22mm Smoothbore breathing system. $\geq 1.6\text{m}$	20
500100S	22mm Smoothbore breathing system. $\geq 2.0\text{m}$	15

Make an enquiry

Flextube™ breathing systems for active humidification with self-sealing water traps

These Flextube breathing systems are available for a variety of applications including active humidification where a heated wire is not required. The Intersurgical self-sealing water trap is used for collection of condensate, the self-sealing facility allows the water trap to be emptied without interrupting flow or losing pressure therefore remaining airtight.

Please see page 5 for a guide to our tube types.



system illustrated

Code	Description	Box Qty.
2009000S	22mm Flextube breathing system with water traps, ported Y-piece and extra limb. $\geq 1.6\text{m}$	7

Make an enquiry



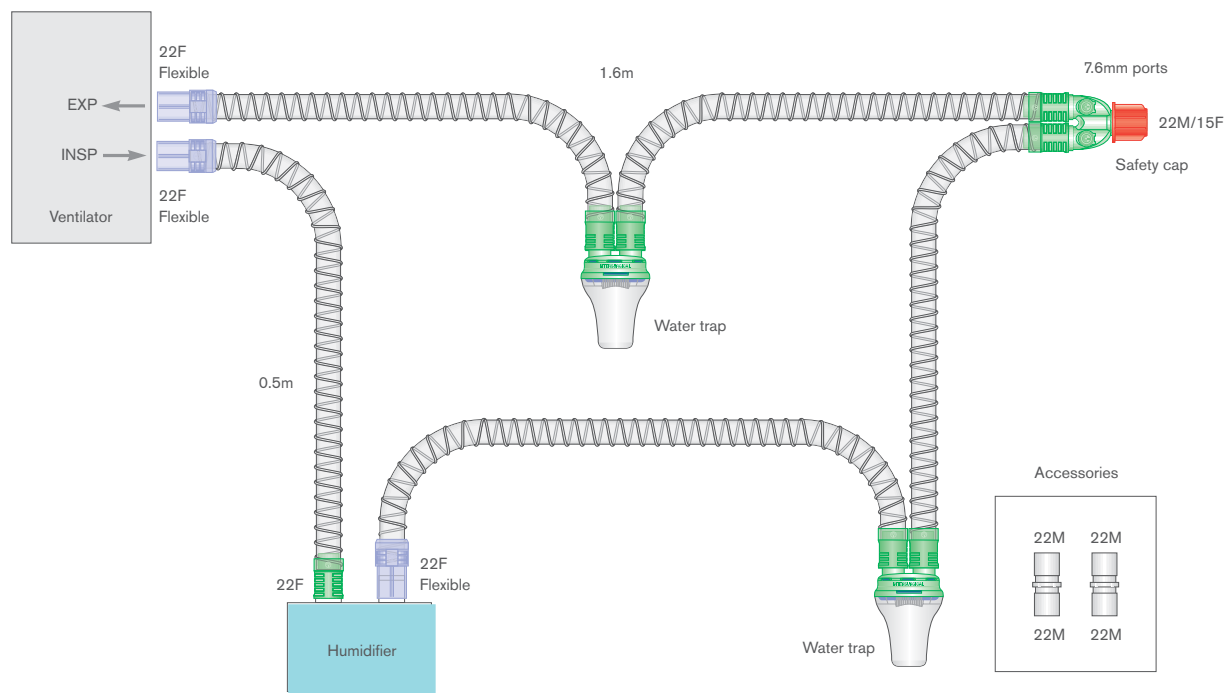
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Smoothbore breathing systems for active humidification with self-sealing water traps

Smoothbore water trap breathing systems offer a lower tube compliance, more efficient water management and reduced system volume for more efficient ventilation.

Please see page 5 for a guide to our tube types



system illustrated

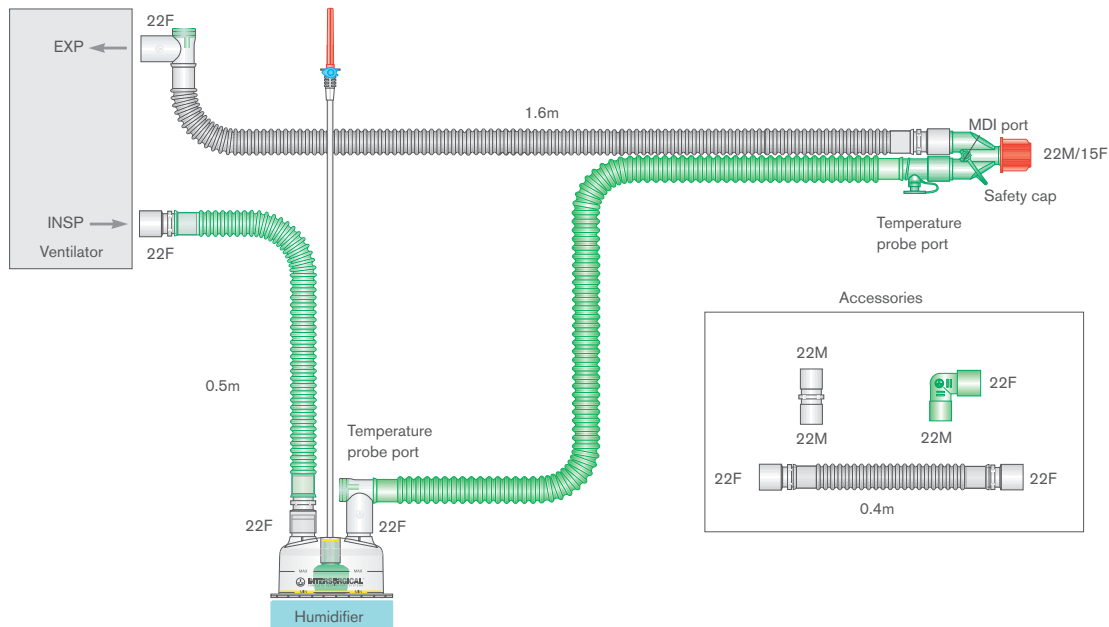
Code	Description	Box Qty.
5007000S	22mm Smoothbore breathing system with water trap and ported Y-piece. $\geq 1.6\text{m}$	15
5009000S	22mm Smoothbore breathing system with water traps, ported Y-piece and extra limb. $\geq 1.6\text{m}$	12
5513000S	15mm Smoothbore breathing system with water traps, ported Y-piece and extra limb. $\geq 1.6\text{m}$	15

Make an enquiry

Flextube™ breathing systems for active humidification with heated wire

Breathing systems are available with single or dual heated wires and can be supplied complete with an auto fill humidification chamber if required. All Intersurgical active humidification breathing systems are suitable for use with the majority of humidification base units.

Please see page 5 for a guide to our tube types.



Dual heated wire

system illustrated

Code	Description	Box Qty.
2026310S	22mm Flextube dual heated wire breathing system with auto-fill chamber and limbs. $\geq 1.6\text{m}$	6

Single heated wire

Code	Description	Box Qty.
2025310S	22mm Flextube single heated wire breathing system with water trap, auto-fill chamber and extra limb. $\geq 1.6\text{m}$	5

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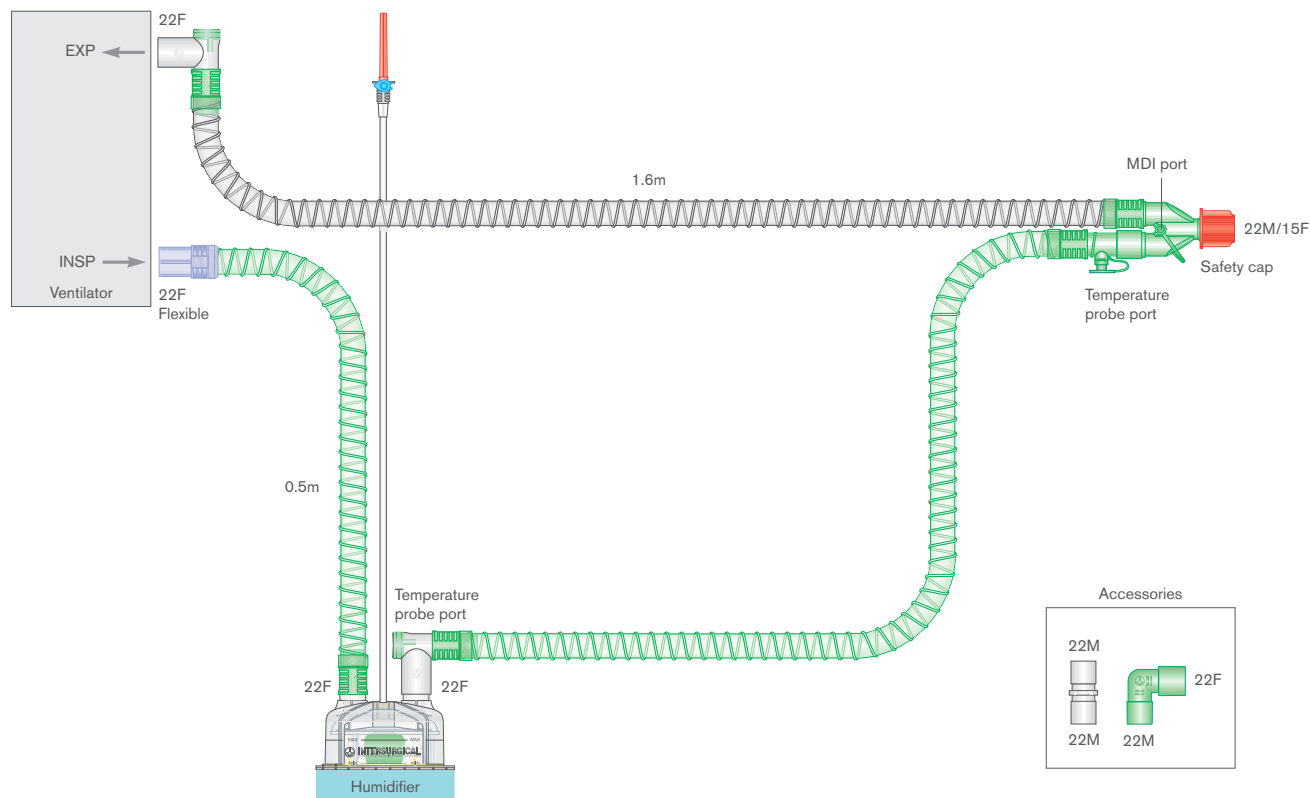
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Smoothbore breathing systems for active humidification with heated wire

A range of Smoothbore breathing systems for active humidification, these are available with single or dual heated wires and can be supplied complete with an auto fill humidification chamber.

Please see page 5 for our guide to our tube types



Dual heated wire

system illustrated

Code	Description	Box Qty.
5026310S	22mm Smoothbore dual heated wire breathing system with auto-fill chamber and extra limb. $\geq 1.6\text{m}$	7

Single heated wire

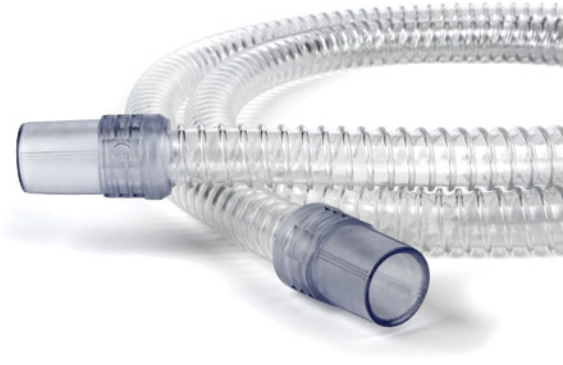
Code	Description	Box Qty.
5025310S	22mm Smoothbore single heated wire breathing system with water trap, auto-fill chamber and extra limb. $\geq 1.6\text{m}$	7

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22mm Smoothbore tubing

A range of Smoothbore tube lengths predominantly for homecare CPAP sleep apnoea use, with soft end connectors in different lengths and diameters.

Please see [page 5](#) for our [guide to our tube types](#)



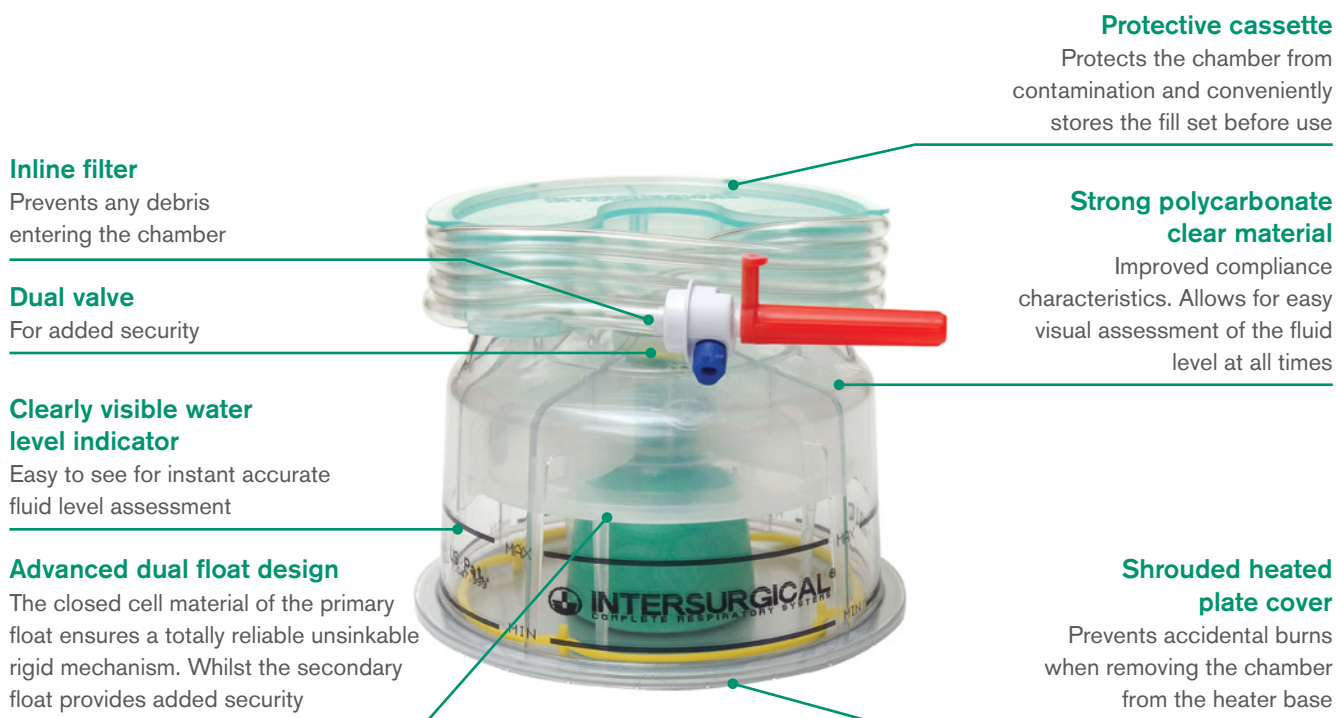
Code	Description	Box Qty.
5018000S	22mm Smoothbore tube with soft end connectors, 22F-22F, $\geq 1.8\text{m}$	25
5020000S	22mm Smoothbore tube with soft end connectors, 22F-22F, $\geq 2.0\text{m}$	30

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Humidification chambers

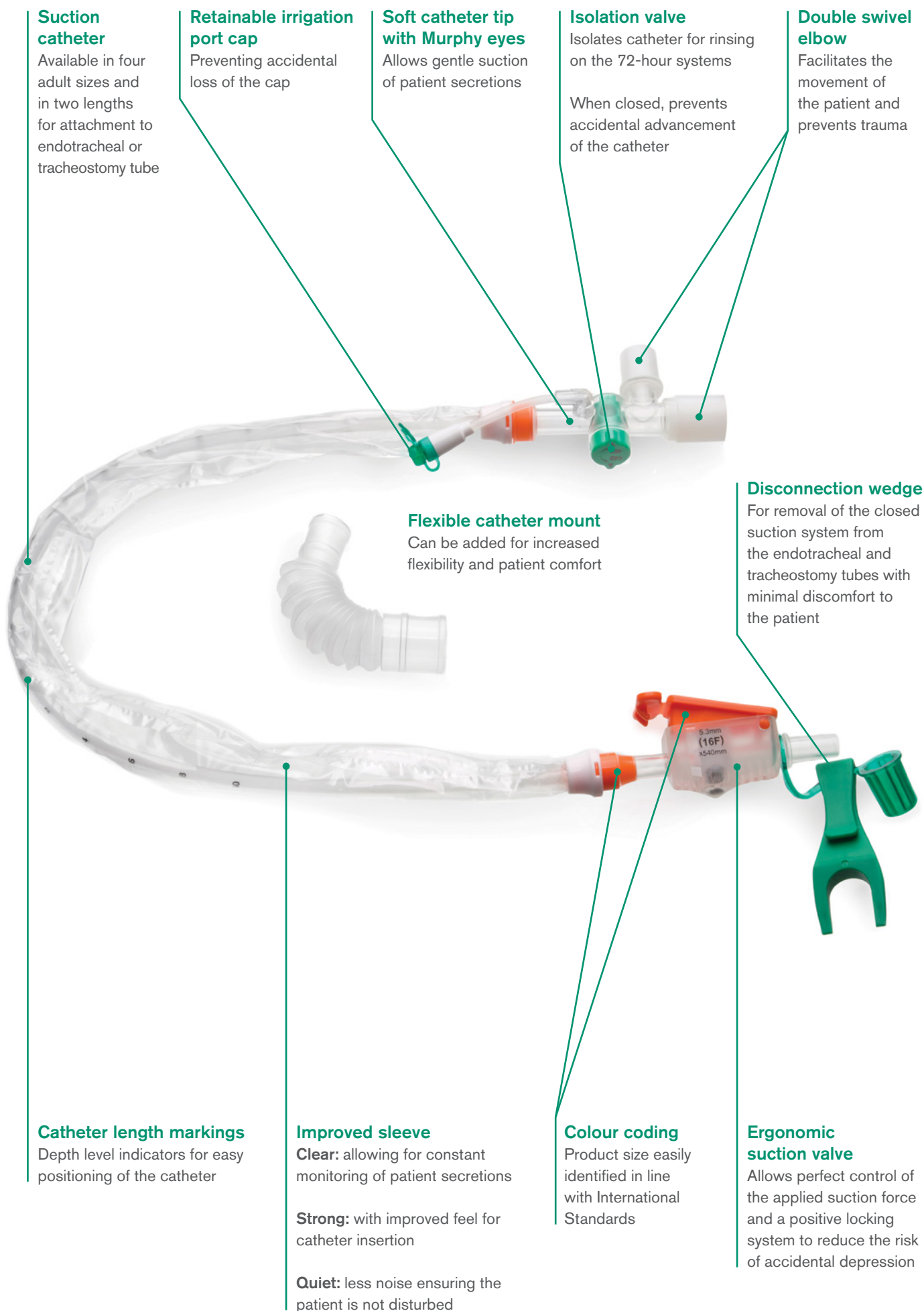
The humidification chamber is an integral part of the breathing system allowing it to interface with the heated humidifier base. Commonly used in intensive care units. The chamber simply slides into position on the hot plate of the base controller allowing the inspiratory gas to pass over the heated water. It is also available with breathing systems for convenience or individually if required.

The auto fill humidification chamber offers a fixed level of water within the chamber, ensuring a constant system volume. This, coupled with the strong polycarbonate body and non compressible float, ensures that adverse changes in system compliance are reduced to a minimum. The chamber provides optimum humidification output without compromising resistance to flow. The new dual float, dual valve design provides further assurance of reliability.



Code	Description	Box Qty.
2310000S	Dual float auto fill humidification chamber with fill set	30

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TrachSeal™

24 hour TrachSeal


	Code	Description	Size	Box Qty.
●	3240002	TrachSeal adult endotracheal closed suction system, 24 hour	F16	15
●	3240001	TrachSeal adult endotracheal closed suction system, 24 hour	F14	15
○	3240000	TrachSeal adult endotracheal closed suction system, 24 hour	F12	15
●	3240003	TrachSeal adult endotracheal closed suction system, 24 hour	F10	15
●	3240007	TrachSeal adult tracheostomy closed suction system, 24 hour	F16	15
●	3240006	TrachSeal adult tracheostomy closed suction system, 24 hour	F14	15
○	3240005	TrachSeal adult tracheostomy closed suction system, 24 hour	F12	15
●	3240004	TrachSeal adult tracheostomy closed suction system, 24 hour	F10	15

72 hour TrachSeal


	Code	Description	Size	Box Qty.
●	3720002	TrachSeal adult endotracheal closed suction system, 72 hour	F16	15
●	3720001	TrachSeal adult endotracheal closed suction system, 72 hour	F14	15
○	3720000	TrachSeal adult endotracheal closed suction system, 72 hour	F12	15
●	3720003	TrachSeal adult endotracheal closed suction system, 72 hour	F10	15
●	3720007	TrachSeal adult tracheostomy closed suction system, 72 hour	F16	15
●	3720006	TrachSeal adult tracheostomy closed suction system, 72 hour	F14	15
○	3720005	TrachSeal adult tracheostomy closed suction system, 72 hour	F12	15
●	3720004	TrachSeal adult tracheostomy closed suction system, 72 hour	F10	15

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22mm straight connectors




Code	1960000S
Box Qty.	15




Code	1961000S
Box Qty.	15



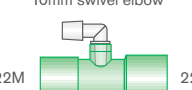
Code	1967000S
Box Qty.	15



Code	1969000S
Box Qty.	15



Code	1964000S
Box Qty.	15



Code	1977000S
Box Qty.	15

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Code	Page	Code	Page	Code	Page	Code	Page	Code	Page	
1		1960000S	41	3504000S	17	8002002	11	8050045	13	
		1961000S	41	3505000S	16	8003000	10	8050050	13	
	1000035S	7	1964000S	41	3514000S	17	8003001	11	8050055	13
	1100050S	7	1969000S	41	3516000S	16	8003002	11	8050060	13
	1110055S	7	1977000S	41	3520000S	17	8003003	10	8050065	13
	1111065S	7	1997000S	15	3521000S	17	8003050	11	8050070	13
	1111570S	7	2		3720000	41	8004000	10	8060045	13
	1112080S	7			3720001	41	8004001	11	8060050	13
	1113090S	7			3720002	41	8004002	11	8060055	13
	1114100S	7			3720003	41	8004003	10	8060060	13
1115120S	7			3720004	41	8004050	11	8060065	13	
1331000S	23			3720005	41	8005000	10	8060070	13	
1331197S	23			3720006	41	8005001	11	8060075	13	
1332000S	23			3720007	41	8005002	11	8060080	13	
1341000S	22			5		8005003	10	8060085	13	
1341007S	22					8005050	11	8060090	13	
1341011S	23				8015000	10	8060095	13		
1341012S	23				8015002	11	8060100	13		
1341197S	22				8025000	10	8070006	14		
1341211S	23				8025001	11	8070010	14		
1341351S	22				8025002	11	8070015	14		
1341580S	23				8040045	12	8080006	14		
1341974S	23				8040050	12	8080010	14		
1344000S	19				8040055	12	8080014	14		
1344007S	19			8040060	12	8201000	8			
1344711S	19	3		8040065	12	8202000	8			
1744000S	20			5120000S	16	8040070	12	8203000	8	
1744011S	20			5154000S	25	8040075	12	8204000	8	
1744580S	20			5180000S	16	8040080	12	8205000	8	
1790000S	20			5250000S	16	8040085	12	8215000	8	
1873000S	21			5513000S	34	8040090	12	8225000	8	
1874000S	21			8		8040095	12	8703000	9	
1875000S	21					8040100	12	8704000	9	
1875001S	21					8050025	13	8705000	9	
1897000S	15					8050030	13			
1898000S	15				8050035	13				
1899000S	15				8050040	13				
		3240000	41		8001000	10				
		3240001	41		8001002	11				
		3240002	41		8002000	10				
		3240003	41		8002001	11				
		3240004	41							
		3240005	41							
		3240006	41							
		3240007	41							
		3501000S	16							
		3502000S	17							

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