

Intersurgical Product Catalog

Patient solutions for airway management, anesthesia, critical care and oxygen and aerosol therapy

Airway Management



Critical Care



Anesthesia



Oxygen and
Aerosol Therapy

Edition 10



Quality, innovation and choice

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, anesthesia, critical care and oxygen & aerosol therapy, for use within emergency care, hospitals and also in the home.

With over 35 years of 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 requirement of 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.

Be assured we can provide a solution for your needs.



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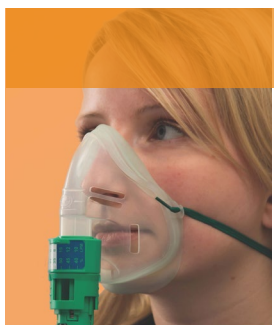
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A Guide to symbols used in this catalog

Throughout the catalog we use a number of symbols to identify specific characteristics about our products. Please familiarize yourself with these symbols below.



Single use and Latex free

All products detailed in this catalog are single-use and latex free unless otherwise stated.



Sterile range

A number of our products are only supplied sterile and are identified by the **S** symbol.



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 demonstrate how our products can be used and their features and benefits. These can be viewed via the website on the Video page.

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.

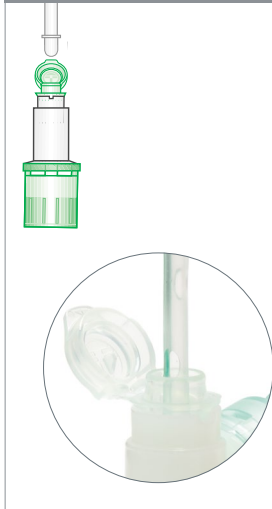
Luer ports

For secure attachment of gas sampling lines with luer lock fittings



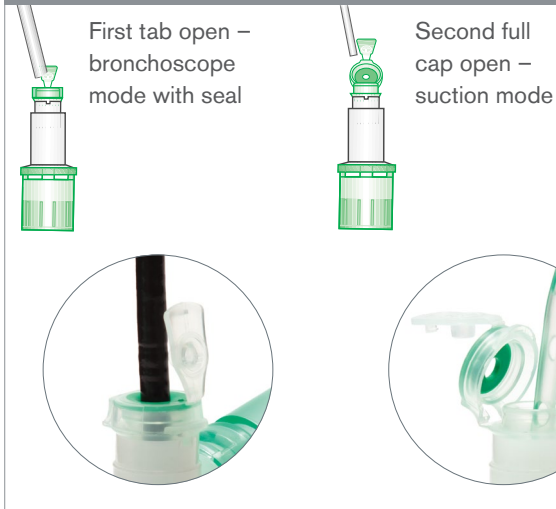
7.6mm port and flip-top cap

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

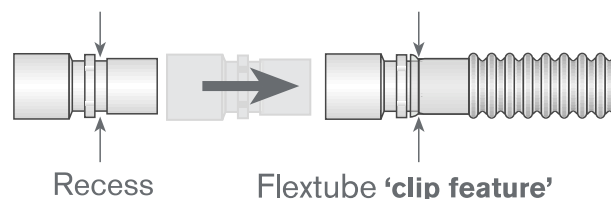


A Guide to our types of tubing

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

Flextube™ – for flexibility

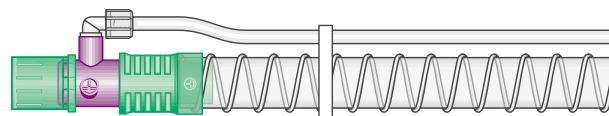
Many of our breathing systems, plus our Flexible range of catheter mounts are made from Intersurgical Flextube. The tube is flexible and has a unique “clip” feature ensuring an airtight fit when used with Intersurgical connectors designed with a recess.



Smoothbore – for improved flow characteristics

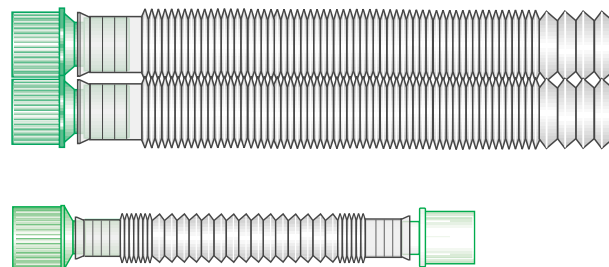
We have a range of breathing systems made from Smoothbore tubing; a non-PVC Eco option is also available providing a lower environmental impact. The clear crush-resistant tubing offers improved ventilatory support with:

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



Compact II™ and Superset™ – extendable tube

Compact II 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 II 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 significant space savings may be realized when compared with other breathing systems.



Push and Twist

All of our tapers and connections are manufactured to meet the relevant BS, ISO and EN Standards ensuring a secure gas tight fit when using a simple push and twist action.



Intersurgical Initiatives

Intersurgical has a number of initiatives which allow us to provide a little more information about our products and services. These can all be found online. We invite you to take a look!

us.intersurgical.com/about

Intersurgical EcoLite™ Range



Comfortable for the patient.
Comfortable for the environment.

us.intersurgical.com/info/IntersurgicalEcoLite

ClearLite™



A clear vision for the future.

us.intersurgical.com/info/clearlite

Filtration and humidification



Proven filtration efficiency and optimum humidification help to meet patients' clinical requirements.

us.intersurgical.com/info/filtrationandhumidification

The facts about phthalates & DEHP



Intersurgical has developed a phthalate (DEHP) free range of nasal cannulas for neonates to help eliminate all products containing DEHP from Neonatal Intensive Care Units.

us.intersurgical.com/info/phthalates

Education



All of our supporting materials in one place including – information sheets, videos and evidence.

us.intersurgical.com/info/education

Sentri™



A range of end tidal CO₂ monitoring products.

us.intersurgical.com/info/Sentri

i-view™ video laryngoscope



Video laryngoscopy wherever and whenever you intubate.

us.intersurgical.com/info/iview

i-gel®



i-gel® single use supraglottic airway. Adult and pediatric sizes.

us.intersurgical.com/info/igel

Oral Care



An Oral Care program for oral hygiene.

us.intersurgical.com/info/oralcare

Reduce the pressure



Intersurgical offers two products to reduce the occurrence of pressure ulcers on the ear.

us.intersurgical.com/info/reducethepressure

Push and Twist



For a safe and secure connection.

us.intersurgical.com/info/push-twist



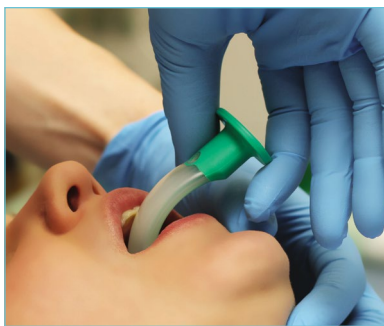
Airway Management

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

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Airway Devices

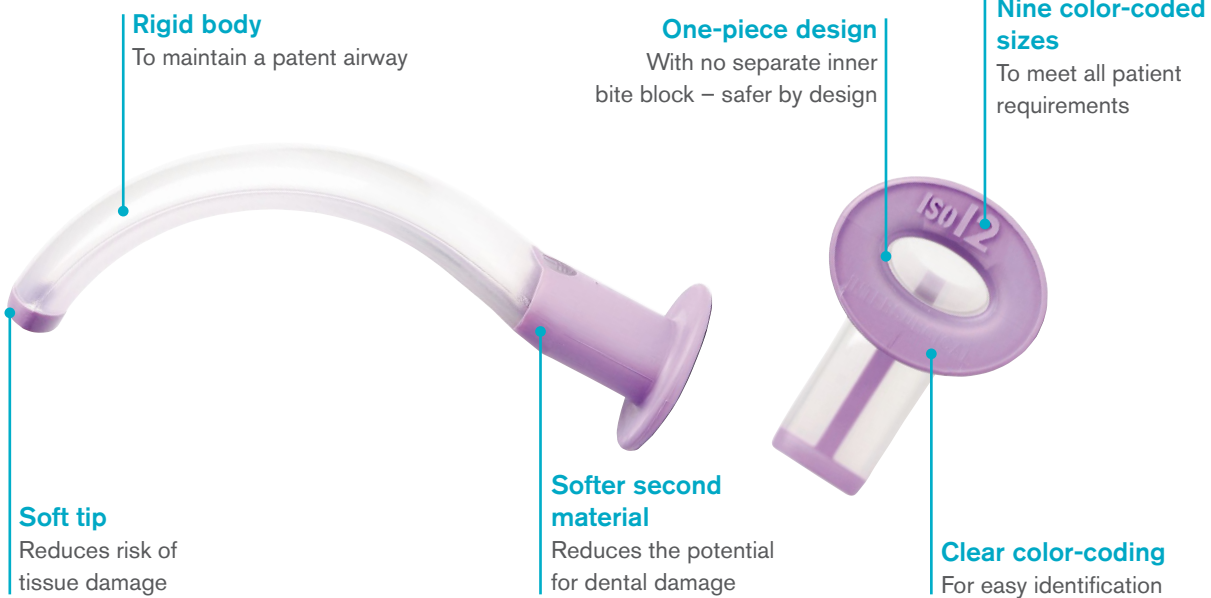


One-piece Guedel airways

Safer by design

Our Guedel airway combines two materials with very different physical characteristics into one molding. Our one-piece design eliminates the separate bite block found in all conventional Guedel airways. Loose or detached bite blocks can constitute a real threat to patient safety. Our one-piece design overcomes all of the associated risks, as well as improves safety. The one-piece also incorporates a soft tip, reducing the risk of trauma to the patient.

▶ Video available at www.intersurgical.com



	Code	Description	Size	ISO	Box Qty.	
●	1115030	One-piece Guedel airway, purple, 120mm	5	12.0	50	🌱
●	1114030	One-piece Guedel airway, red, 100mm	4	10.0	50	🌱
●	1113030	One-piece Guedel airway, orange, 90mm	3	9.0	50	🌱
●	1112030	One-piece Guedel airway, green, 80mm	2	8.0	50	🌱
●	1111031	One-piece Guedel airway, yellow, 70mm	1.5	7.0	50	🌱
○	1111030	One-piece Guedel airway, white, 65mm	1	6.5	50	🌱
●	1110030	One-piece Guedel airway, grey, 55mm	0	5.5	50	🌱
●	11006000	One-piece Guedel airway, blue, 50mm	00	5.0	50	🌱
●	10006000	One-piece Guedel airway, pink, 35mm	000	3.5	50	🌱

i-gel® supraglottic airway

i-gel®

For use in anesthesia and resuscitation

i-gel® is a truly unique, single use, latex and PVC free 2nd 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-inflating, anatomical seal of the pharyngeal, laryngeal and perilaryngeal structures while avoiding compression trauma. i-gel® is currently available in seven sizes and 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.

www.i-gel.com www.intersurgical.com/info/igel

▶ Video available at www.intersurgical.com

i-gel



15mm connector

Reliable connection to any standard catheter mount or connection

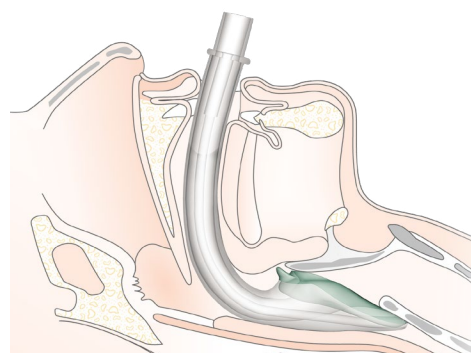
Proximal end of gastric channel

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 and allows for the passing of a gastric tube to empty stomach contents and facilitates venting

Integral bite block

Reduces the possibility of airway channel occlusion

Buccal cavity stabilizer

Aids insertion and eliminates the potential for rotation

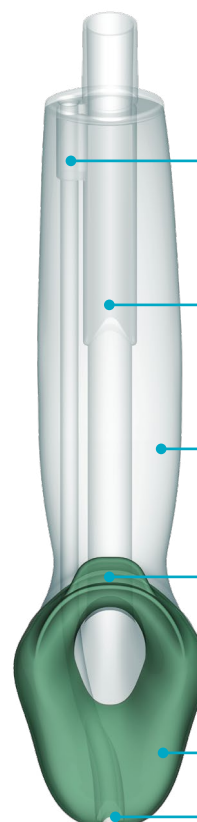
Epiglottic rest

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

The non-inflating 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 (200+lbs)	25
8204000	i-gel®, supraglottic airway	4 Medium adult	50–90kg (110–200lbs)	25
8203000	i-gel®, supraglottic airway	3 Small adult	30–60kg (65–130lbs)	25
8225000	i-gel®, supraglottic airway	2.5 Large pediatric	25–35kg (55–77lbs)	10
8202000	i-gel®, supraglottic airway	2 Small pediatric	10–25kg (22–55lbs)	10
8215000	i-gel®, supraglottic airway	1.5 Infant	5–12kg (11–25lbs)	10
8201000	i-gel®, supraglottic airway	1 Neonate	2–5kg (5–11lbs)	10

S Sterile

i-gel® O₂ Resus Pack

For use in anesthesia and resuscitation

The i-gel® O₂ Resus Pack puts the things you need at your fingertips. The pack contains an i-gel® O₂ 2nd generation supraglottic airway, with an easily removable protective cradle containing a sachet of lubricant and airway support strap, all packaged in a specially designed clear, sterile rigid pack. This unique design ensures protection of the contents, both in transit and in storage. The i-gel® O₂ has a color-coded hook ring to allow quick and easy identification of size. The i-gel® O₂ Resus Pack is available in three adult sizes.

www.i-gel.com

▶ Video available at www.intersurgical.com

i-gel® O₂



Pack contents



Supplementary oxygen port

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

Color-coded hook ring

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



Code	Description	Weight	Box Qty.
8705030	i-gel® O ₂ Resus Pack, large adult – includes a size 5 i-gel® O ₂ with orange hook ring, sachet of lubricant and airway support strap	90+kg (200+lbs)	6 S
8704030	i-gel® O ₂ Resus Pack, medium adult – includes a size 4 i-gel® O ₂ with green hook ring, sachet of lubricant and airway support strap	50–90kg (110–200lbs)	6 S
8703030	i-gel® O ₂ Resus Pack, small adult – includes a size 3 i-gel® O ₂ with yellow hook ring, sachet of lubricant and airway support strap	30–60kg (65–130lbs)	6 S

S Sterile



www.intersurgical.com/info/igel-emergency-medicine

Solus™ laryngeal mask airways

A comprehensive range of single use laryngeal mask airways suitable for anesthesia 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

Reduces insertion/extraction drag

Classic cuff shape

Reliable consistent use

Essential information

Visible on insertion for quick reference



Integral inflation line*

Reduces the risk of damage while in use

* Integral inflation line refer to Solus products only








High quality valve

To ensure continual cuff integrity

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 pediatric anesthesia. Available in a full range, from adult to neonate.




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 pediatric	20–30kg	20 
8002000	Solus Standard, laryngeal mask airway	2	Small pediatric	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 to provide more flexibility.










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 tested 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.






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 pediatric	20–30kg	20 
8002002	Solus MRI-safe, laryngeal mask airway	2	Small pediatric	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

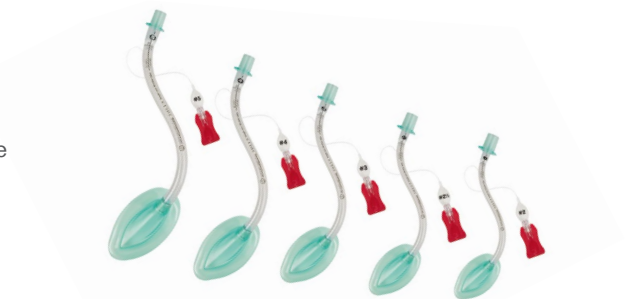
Solus Curve is our laryngeal mask for those who prefer the insertion characteristics of a device with a curved airway tube.



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

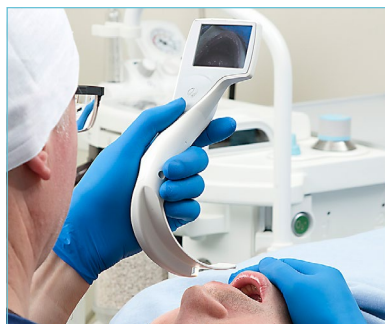
Solus Flexible provides an ideal solution for shared airway procedures such as ENT, dental, oral maxillary and eye surgery where the rigidity of airway devices can obscure surgical access. The wire-reinforced tube permits flexion without kinking and can be moved at any time mid-procedure without concern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



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 pediatric	20–30kg	20 
8002001	Solus Flexible, wire-reinforced laryngeal mask airway	2	Small pediatric	10–20kg	20 



Airway Accessories



i-view™ video laryngoscope

One size ▪ Single use

i-view is a single use, video laryngoscope from Intersurgical, providing the option of video laryngoscopy wherever you might need to intubate.

By incorporating a Macintosh blade, i-view can also be used for direct laryngoscopy. The technique for insertion is more familiar and instinctive than for devices with a hyper-angled blade.

i-view is ready to use seconds after removing from the packaging. The ergonomic design ensures i-view is easy to use, and the integral LCD screen provides an optimal view in a variety of light conditions.

▶ Video available at www.intersurgical.com

i-view provides the opportunity of video laryngoscopy 'whenever and wherever you might need to intubate'

The availability of a video laryngoscope may be limited due to the cost implications of purchasing reusable devices for multiple sites. By combining all the advantages of a fully integrated video laryngoscope in a single use, disposable product, i-view provides a cost effective solution.

This makes i-view ideal for use in:

- pre-hospital
- emergency medicine
- resuscitation
- anaesthesia
- difficult airway
- intensive care

Integral LCD screen

Provides a view in a variety of light conditions

Ergonomic design

Ensures i-view is comfortable and instinctive to use

On/Off switch

Makes i-view ready to use seconds after removing from the packaging

Camera and LED light

Creates optimal visualization

Macintosh blade

Allows i-view to be used for direct or video laryngoscopy



www.intersurgical.com/info/i-view

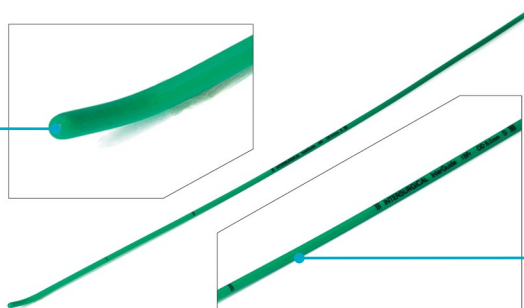
Code	Description	Box Qty.
8008000	i-view video laryngoscope	8

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

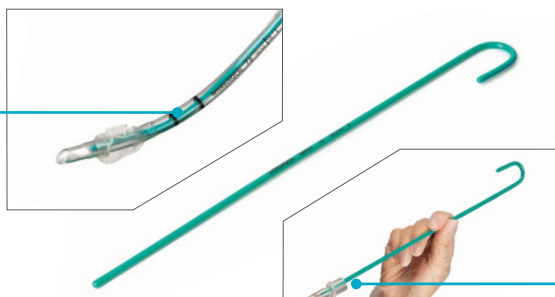
Code	Description	Size	Outer Diameter (OD)	Length	Box Qty.
8070015	InterGuide tracheal tube introducer bougie	15FR	5.0mm	700mm	10 
8070010	InterGuide tracheal tube introducer bougie	10FR	3.3mm	700mm	10 
8070006	InterGuide tracheal tube introducer bougie	6FR	2.0mm	530mm	10 

InterForm intubation 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 intubation stylet	14FR	4.7mm	340mm	10 
8080010	InterForm intubation stylet	10FR	3.3mm	340mm	10 
8080006	InterForm intubation stylet	6FR	2.0mm	275mm	10 



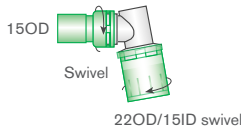
Patient Connections

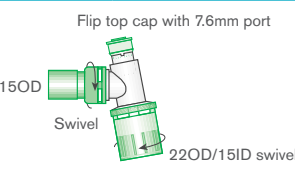


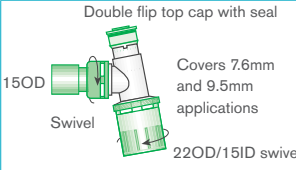

Double swivel elbows

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

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

	
Code	1897000
Box Qty.	30

	
Code	1899000
Case Qty.	120

	
Code	1898000 
Case Qty.	120

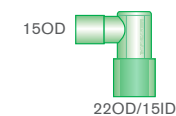


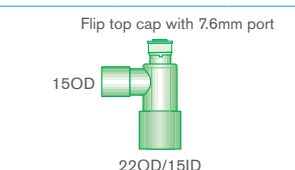

Illustrated 

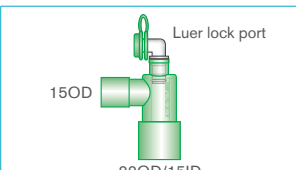
Fixed elbows

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

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

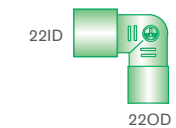
	
Code	1997000
Case Qty.	120

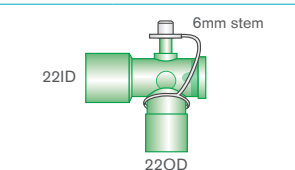
	
Code	1993000 
Case Qty.	120

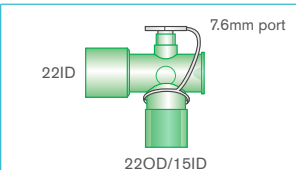
	
Code	2714000
Case Qty.	100

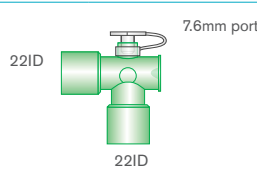


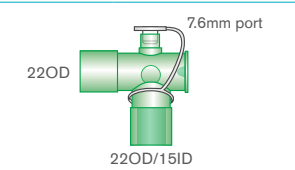
Illustrated 

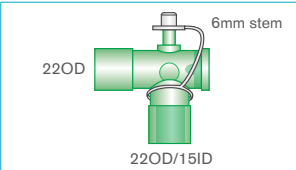
	
Code	1992000
Case Qty.	100

	
Code	19916000
Box Qty.	50

	
Code	1893000
Case Qty.	100

	
Code	1891000
Case Qty.	60

	
Code	1995000
Case Qty.	100

	
Code	1990000
Case Qty.	100

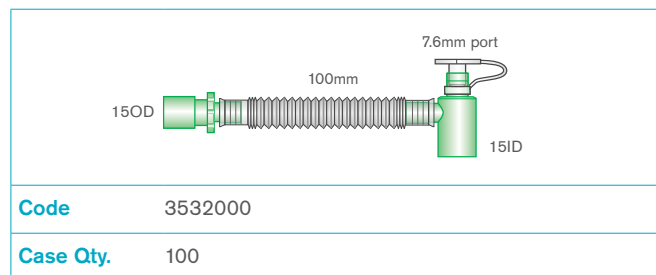
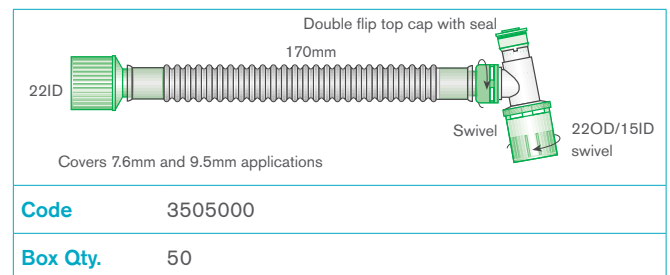
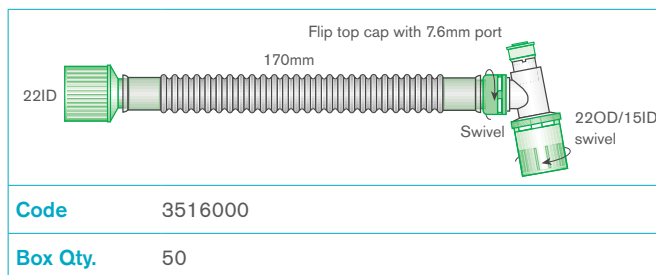
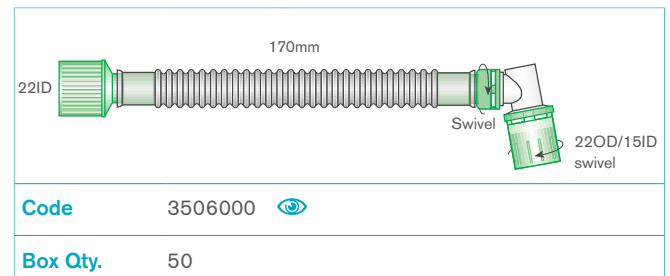
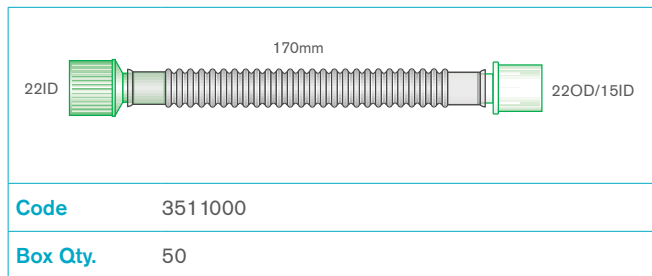
Flexible catheter mounts

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

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



Illustrated 



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.



Illustrated

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

Code	3504000 (S*)
Box Qty.	75 (75*)

Code	3502000
Box Qty.	75

Code	3514031
Box Qty.	50

Code	3512000
Box Qty.	75

Code	3520000
Box Qty.	75

Covers 7.6mm and 9.5mm applications	
Code	3521000
Box Qty.	75

Code	91236000
Box Qty.	50

Sterile option available

(S*) Add an S to the seven digit code number for the sterile version of this product eg. 3504000S (sterile box quantity is shown in brackets).



Breathing Filters, HMEs and HMEFs



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 recognized as beneficial and is recommended by a number of Anesthetic Associations¹.

The threat to patients

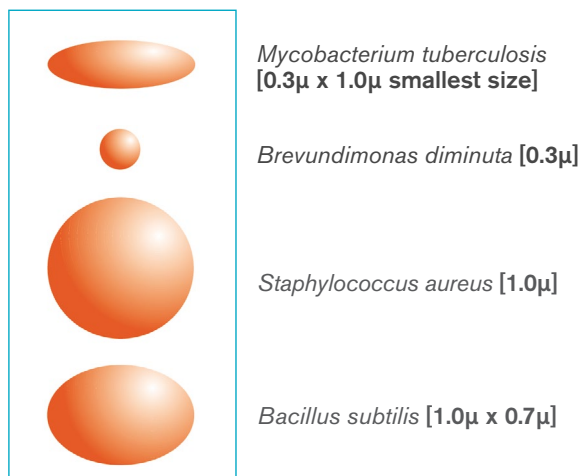
Patients who require an artificial airway have their natural physiological protection bypassed. This will increase the risk of cross contamination between patients and healthcare equipment. The cross contamination of patients via an anesthetic system has been reported, and documented areas of concern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

Critically ill patients are commonly at risk of infection, 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 bacteria [Particle sizes µ microns]



Essential requirements

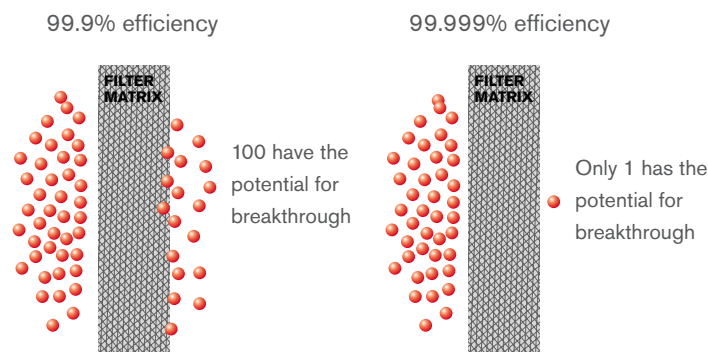
The Intersurgical range of breathing filters offers a choice of electrostatic and pleated mechanical filters with a range of patient connections, providing a choice of products to meet various clinical situations.

- Independently validated Filtration Efficiency²
- Proven filtration against *Mycobacterium tuberculosis* and *Hepatitis C*
- Proven efficiency not affected by anesthetic 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

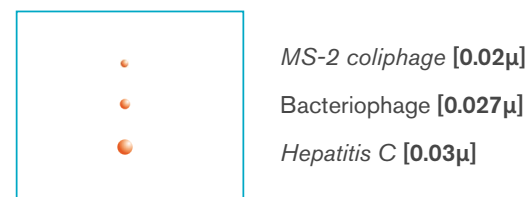
Filtration efficiency

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 breakthrough.

Filtration Efficiency based on a challenge of 100,000 Microbes



Potential infectious viruses [Particle sizes µ microns]



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.

The breathing filter range

The Intersurgical range of breathing filters has been designed for the protection of the patient, breathing system and equipment.

Filta-Guard™

High-efficiency

The high-efficiency Filta-Guard is a dedicated breathing filter designed for use in breathing systems in anaesthesia and intensive care, for the protection of the patient, hospital personnel and the equipment from potential microbial contamination. The Flow diffuser improves performance and optimizes resistance to flow.



Code	1944000
Box Qty.	70
Bacterial and viral filtration efficiency	>99.999%
Resistance to flow at 30L/min	1.0cm H ₂ O
Resistance to flow at 60L/min	2.3cm H ₂ O
Compressible volume	67ml
Weight	40g
Connectors	22ID – 22OD/15ID
Minimum tidal volume	>200ml

Inter-Guard™ range

Sterile

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



Code	1344007S 	1344000S 	1344711S 
Box Qty.	50	50	50
Luer lock port		✓	
Bacterial and viral 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	22ID/15OD – 22OD/15ID	22ID/15OD – 22OD/15ID	22ID/15OD – 22OD/15ID
Minimum tidal volume	>150ml	>150ml	>150ml
Accessories			Superset™ catheter mount



*Filter Only

Clear-Guard™ range

Medium efficiency


The Clear-Guard range of breathing filters includes a number of options. This range has been designed for use in breathing and anesthetic systems for the protection of the patient, hospital personnel and the equipment from potential microbial contamination. Designed with a rounded ergonomic polypropylene housing, the Clear-Guard 3 represents our most cost-effective filter option. The Clear-Guard Midi low-volume filter provides a further option with minimum deadspace; it is ideal for use in anesthesia.



Clear-Guard Midi



Clear-Guard 3

Code	1644000 	1544000
Box Qty.	100	150
Luer lock port	✓	✓
Filtration efficiency	>99.9%	>99.99%
Resistance to flow at 30L/min	0.7cm H ₂ O	0.8cm H ₂ O
Resistance to flow at 60L/min	1.8cm H ₂ O	1.9cm H ₂ O
Compressible volume	34ml	60ml
Weight	19g	28g
Connectors	22ID – 22OD/15ID	22ID/15OD – 22OD/15ID
Minimum tidal volume	>100ml	>200ml



 illustrated

Hydro-Guard™ Mini

Pleated membrane filter

A versatile, low-volume breathing filter with a pleated mechanical membrane for use in anesthesia as an HMEF (moisture return: 24.3mg H₂O/L at VT 500ml), or in ICU as a filter only.

Code	1745000
Box Qty.	40
Luer lock port	✓
Filtration efficiency	>99.999%
Resistance to flow at 30L/min	1.3cm H ₂ O
Resistance to flow at 60L/min	2.9cm H ₂ O
Compressible volume	63ml
Weight	30g
Connectors	22ID/15OD – 22OD/15ID
Minimum tidal volume	>200ml



Flo-Guard

Low-resistance breathing filter for CPAP and bilevel

The Flo-Guard provides a combination of filtration performance with low-resistance. It is ideal for use in both the hospital and the home, where high flow rates may be used, including CPAP, bilevel and cough-assist applications. The Flo-Guard breathing filter is designed to be used at the machine-end of a breathing system to protect the patient and machine against cross contamination, while maintaining a low resistance across a wide range of flow rates.

Code	1690000
Box Qty.	50
Filtration efficiency	>99.99%
Resistance at 30L/min	0.4cm H ₂ O
Resistance at 60L/min	0.8cm H ₂ O
Resistance at 90L/min	1.4cm H ₂ O
Resistance at 120L/min	2.0cm H ₂ O
Resistance at 150L/min	2.7cm H ₂ O
Resistance at 180L/min	3.4cm H ₂ O
Resistance at 210L/min	4.3cm H ₂ O
Resistance at 240L/min	5.1cm H ₂ O
Compressible volume	80ml
Weight	27.8g
Connectors	22ID – 22OD

Electrostatic filter media

Providing an excellent filtration efficiency

Large surface area

To reduce resistance to flow

Clear housing

For good visibility

Conical shape

To aid airflow



Air-Guard Clear

For use in respiratory systems and oxygen concentrators

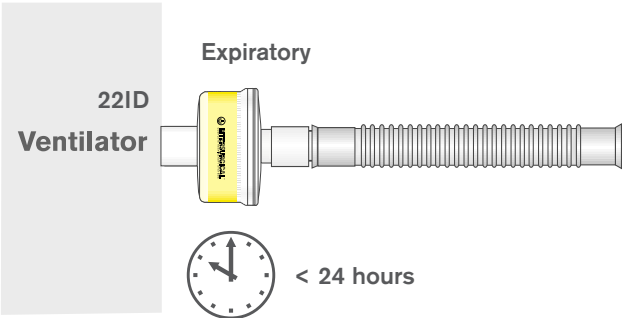
The Intersurgical Air-Guard Clear is a hydrophobic pleated mechanical filter, designed for the protection of oxygen concentrators and other respiratory equipment.

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

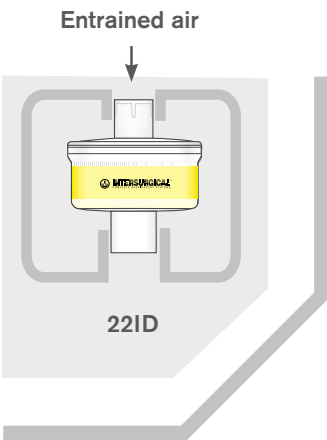
The Air-Guard Clear pleated mechanical filter is validated for 24-hour use, but this can be extended when used in non-humidified gas flow. The product can be used for extended periods of time for the protection of oxygen concentrators, upon the discretion of the clinician.

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

Respiratory system protection



Oxygen concentrator protection



Code	1790000
Box Qty.	50
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	22ID – 22OD/15ID
Minimum tidal volume	>360ml



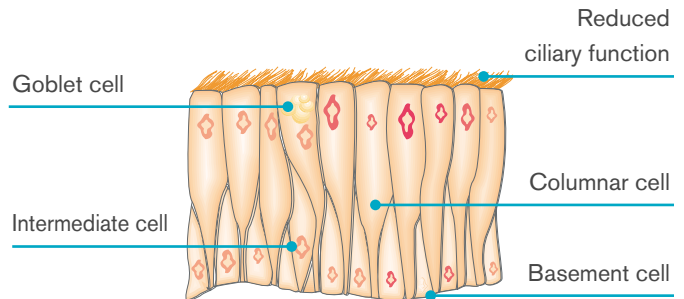
Heat and Moisture Exchangers (HMEs)

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 liter. In mechanical ventilation or anesthesia, 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:

- Localized 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 & moisture loss



Hydro-Trach™ T range

A heat and moisture exchanger designed for use on tracheostomized patients. The Hydro-Trach T is an ideal product for prolonged use with spontaneously breathing patients.

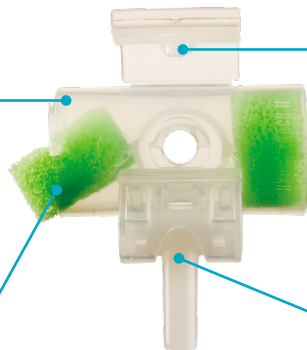
Clear housing

For easy visual inspection of possible secretion build up



Anti-occlusion mechanism

Allows the HME element to partially dislodge in the event of total occlusion or vigorous cough



Clipped suctioning port

Allows for easier suctioning without removal of the device

Small and lightweight

Reduces pull on the patient connection

An integral swivel oxygen connector (except 1870000 and 1871000)

Allows for connection of the oxygen tube without the need of a separate oxygen adapter, which can be easily folded away when not in use

▶ Video available at www.intersurgical.com



Code	1873000	1874030	1870000	1871000
Box Qty.	25	40	100**	40
Moisture loss	13.2mg H ₂ O/L	13.2mg H ₂ O/L	13.2mg H ₂ O/L	13.2mg H ₂ O/L
Calculated moisture return	26mg H ₂ O/L	26mg H ₂ O/L	26mg H ₂ O/L	26mg H ₂ O/L
Resistance at 30L/min	0.3cm H ₂ O	0.3cm H ₂ O	0.3cm H ₂ O	0.3cm H ₂ O
Resistance at 60L/min	0.6cm H ₂ O	0.6cm H ₂ O	0.6cm H ₂ O	0.6cm H ₂ O
Compressible volume	19ml	19ml* + O ₂ tube	19ml	19ml* + O ₂ tube
Weight	8g	8g*	6g	6g*
Connectors	15ID	15ID*	15ID	15ID*
Minimum tidal volume	>60ml	>60ml*	50ml	50ml*
Accessories		1.8m oxygen tube		1.8m oxygen tube

* HME only

** Case Qty.

Inter-Therm™ T+

The Inter-Therm T+ is a heat and moisture exchange device designed for use with spontaneously breathing patients to reduce loss of heat and moisture during respiration.

When a patient has a tracheostomy, the normal process of temperature and moisture maintenance is bypassed by the insertion of the tracheal tube. The possible loss of heat and moisture can lead to serious complications, notably damage to cilia and the mucous glands.

This in turn may result in retention of sputum and atelectasis, production of mucous plugs and potential tube occlusion.

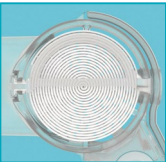
The Inter-Therm T+ has a number of unique features that make it an ideal product for prolonged use with spontaneously breathing patients.

Clipped suction port

Allows easy access for suctioning without removing the device

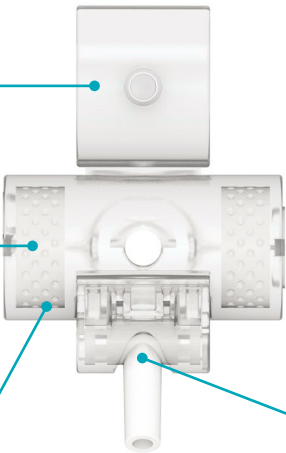
Clear housing and white HME elements

Optimizes visualization of possible pulmonary secretions



Unique corrugated paper design

Provides perfect combination between humidification output and low resistance to flow



Small and lightweight

Reduces pull and drag on the patient's airway

Optimal humidification

Reduces the side effects associated with breathing cold dry gases over a prolonged period of time

Integrated swivel oxygen connector


Allows for quick and convenient connection of supplemental oxygen and can be folded away when not in use

Code	Description	Length	Box Qty.
1875000	Inter-Therm T+ HME		100*
1875000S	Inter-Therm T+ HME - Sterile		100
1875001	Inter-Therm T+ HME with oxygen tube	1.8m	40
1875001S	Inter-Therm T+ HME with oxygen tube - Sterile	1.8m	20



Code	1875000(*S)	1875001(*S)
Moisture loss	13.1mg H ₂ O/L	13.1mg H ₂ O/L
Moisture return	26.1mg H ₂ O/L	26.1mg H ₂ O/L
Resistance at 30L/min	0.4cm H ₂ O	0.4cm H ₂ O
Resistance at 60L/min	1.1cm H ₂ O	1.1cm H ₂ O
Compressible volume	19ml	19ml
Weight	9g	9g
Connectors	15ID	15ID
Minimum tidal volume	>60ml	>60ml
Accessories		1.8m oxygen tube

* Case Qty.

 Sterile option available

(*S) Add an S to the seven digit code number for the sterile version of this product eg. 1875000S (sterile box quantity is shown in brackets).

Average Fi O₂ at variable O₂ flow rates

Oxygen (L/min)	Fi O ₂ at 15 BPM
1	26.4%
2	31.8%
3	35.0%
4	38.2%
5	41.8%
6	44.9%
7	47.4%
8	49.6%

Hydro-Therm™ HME range

A dedicated range of Heat and Moisture Exchangers designed to replicate the functions of the body's upper airway by conserving expired heat and moisture and returning these to the patient during inhalation. The Hydro-Therm is a small-volume, lightweight device which is clinically suitable over a wide range of patient sizes.



Code	1850000	1855000
Case Qty.	80	80
Luer lock port		✓
Moisture loss	7.8mg H ₂ O/L	7.8mg H ₂ O/L
Calculated moisture return	30.8mg H ₂ O/L	30.8mg H ₂ O/L
Resistance to flow at 30L/min	0.5cm H ₂ O	0.5cm H ₂ O
Resistance to flow at 60L/min	1.6cm H ₂ O	1.6cm H ₂ O
Compressible volume	20ml	20ml
Weight	11.8g	11.8g
Connectors	15OD – 22OD/15ID	15OD – 22OD/15ID
Minimum tidal volume	>60ml	>60ml

Hydro-Therm™ 3 HME range

A dedicated range of heat and moisture exchangers designed to replicate the functions of the body's upper airway by conserving expired heat and moisture and returning these to the patient during inhalation. The Hydro-Therm 3 is a large-volume HME with rounded housing for use in anesthesia and intensive care.



Code	1560000	15606500
Box Qty.	150	20
Luer lock port	✓	✓
Moisture loss	6.7mg H ₂ O/L	6.7mg H ₂ O/L
Calculated moisture return	31.6mg H ₂ O/L	31.6mg H ₂ O/L
Resistance at 30L/min	0.2cm H ₂ O	0.2cm H ₂ O
Resistance at 60L/min	0.7cm H ₂ O	0.8cm H ₂ O
Compressible volume	59ml	59ml*
Weight	31g	31g*
Connectors	22ID/15OD – 22OD/15ID	22ID/15OD – 22OD/15ID*
Minimum tidal volume	>200ml	>200ml
Accessories		Flextube™ 22ID - 15ID

*HME only

The Heat and Moisture Exchanging Filters (HMEFs)

Our range of Heat and Moisture Exchanging Filters (HMEFs) combines the filtration efficiency of dedicated breathing filters with optimum moisture return provided by the addition of an HME element. Designed for use at the patient connection.

Filta-Therm™ range



Code	1942000	19426500	19426502
Box Qty.	70	20	20
Moisture loss	9.3mg H ₂ O/L	9.3mg H ₂ O/L	9.3mg H ₂ O/L
Calculated moisture return	29.5mg H ₂ O/L	29.5mg H ₂ O/L	29.5mg H ₂ O/L
Filtration efficiency	>99.999%	>99.999%	>99.999%
Resistance at 30L/min	1.1cm H ₂ O	1.1cm H ₂ O	1.1cm H ₂ O
Resistance at 60L/min	2.5cm H ₂ O	2.5cm H ₂ O	2.5cm H ₂ O
Compressible volume	66ml	66ml*	66ml*
Weight	42g	42g*	42g*
Connectors	22ID – 22OD/15ID	22ID – 22OD/15ID*	22ID-22OD/15ID*
Minimum tidal volume	>200ml	>200ml	>200ml
Accessories		Flextube™ 22ID - 15ID	Flexible catheter mount 22ID - 22OD/15ID



Code	1941000	19416500	1906000
Box Qty.	70	20	70
Luer lock port	✓	✓	✓
Moisture loss	9.3mg H ₂ O/L	9.3mg H ₂ O/L	9.9mg H ₂ O/L
Calculated moisture return	29.5mg H ₂ O/L	29.5mg H ₂ O/L	28.9mg H ₂ O/L
Filtration efficiency	>99.999%	>99.999%	>99.999%
Resistance at 30L/min	1.0cm H ₂ O	1.0cm H ₂ O	1.2cm H ₂ O
Resistance at 60L/min	2.4cm H ₂ O	2.4cm H ₂ O	2.4cm H ₂ O
Compressible volume	65ml	65ml*	70ml
Weight	43g	43g*	45g
Connectors	22ID – 22OD/15ID	22ID – 22OD/15ID*	22OD – 22OD – 22OD/15ID
Minimum tidal volume	>200ml	>200ml	>210ml
Accessories		Flextube™ 22ID - 15ID	

* HMEF only

Inter-Therm™ range

Sterile

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

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

The Inter-Therm Mini Angled offers an easy to use option with an integral 90° elbow for pediatrics, 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 utilized

Wound paper HME element

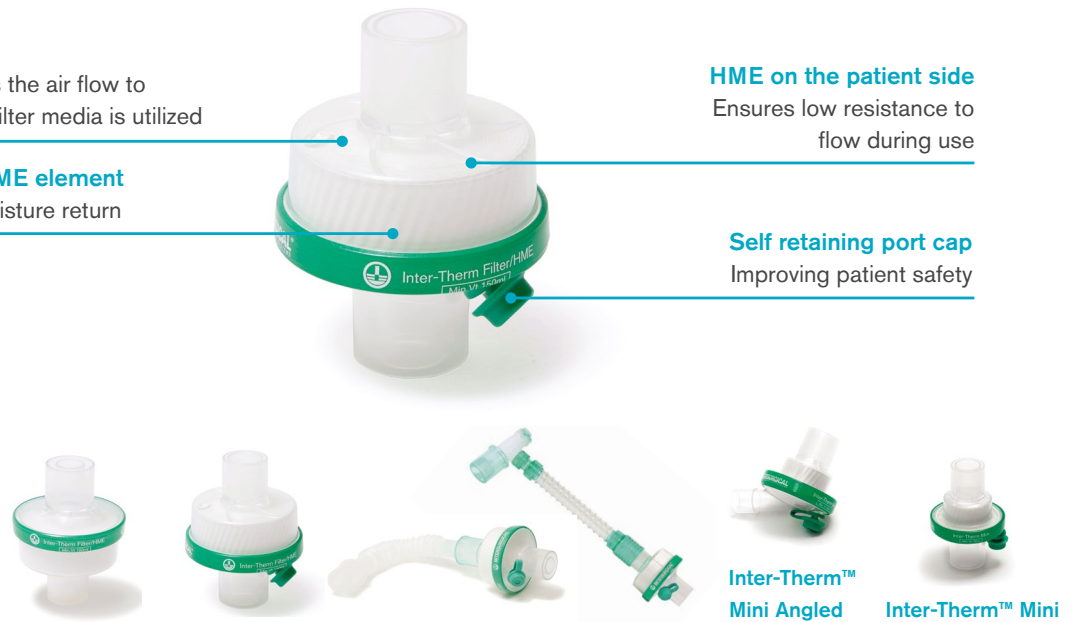
Provides high moisture return





HME on the patient side

Ensures low resistance to flow during use

Self retaining port cap

Improving patient safety



Code	1341007S 	1341000S 	1341011S 	1341580S 	1332000S 	1331000S 
Box Qty.	50	50	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	8.5mg H ₂ O/L	8.4mg 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	30.1mg H ₂ O/L	30.2mg H ₂ O/L
Filtration efficiency	>99.998%	>99.998%	>99.998%	>99.998%	>99.99%	>99.99%
Resistance at 30L/min	1.6cm H ₂ O	1.6cm H ₂ O	1.4cm H ₂ O	1.6cm H ₂ O	2.2cm H ₂ O	2.2cm H ₂ O
Resistance at 60L/min	2.7cm H ₂ O	2.7cm H ₂ O	3.5cm H ₂ O	3.9cm H ₂ O	N/A	N/A
Compressible volume	57ml	57ml	57ml*	57ml*	29ml	28ml
Weight	30g	31g	45g*	58g*	19g	20g
Connectors	22ID/15OD - 22OD/15ID	22ID/15OD - 22OD/15ID	22ID/15OD - 22OD/15ID*	22ID/15OD - 22OD/15ID*	15OD-22OD/15ID	22ID/15OD- 22OD/15ID
Minimum tidal volume	>180ml	>180ml	>180ml	>180ml	>90ml	>90ml
Accessories			Superset™ catheter mount	Smoothbore catheter mount with double swivel elbow and double flip-top cap		

Clear-Therm™ range

Medium efficiency

Designed with a rounded ergonomic polypropylene housing, Clear-Therm 3 represents our optimal combination of performance and cost-effectiveness.



Clear-Therm 3



Clear-Therm 3

Code	1541000	15416500
Box Qty.	150	20
Luer lock port	✓	✓
Moisture loss	7.8mg H ₂ O/L	7.8mg H ₂ O/L
Calculated moisture return	30.8mg H ₂ O/L	30.8mg H ₂ O/L
Filtration efficiency	>99.99%	>99.99%
Resistance at 30L/min	0.8cm H ₂ O	0.8cm H ₂ O
Resistance at 60L/min	2.1cm H ₂ O	2.1cm H ₂ O
Compressible volume	59ml	59ml*
Weight	29g	29g*
Connectors	22ID/15OD – 22OD/15ID	22ID/15OD – 22OD/15ID
Minimum tidal volume	>200ml	>200ml
Accessories		Flextube™ 22ID - 15ID



Clear-Therm Mini



Clear-Therm Micro

Code	1831000	1441030
Box Qty.	40	50
Luer lock port	✓	✓
Moisture loss	6.8mg H ₂ O/L	12.3mg H ₂ O/L
Calculated moisture return	31.7mg H ₂ O/L	26.8mg H ₂ O/L
Filtration efficiency	>99.99%	>99.99%
Resistance at 15L/min	0.8cm H ₂ O	1.4cm H ₂ O
Resistance at 30L/min	1.5cm H ₂ O	N/A
Compressible volume	26ml	11ml
Weight	22g	11g
Connectors	22ID/15OD – 22OD/15ID	15OD – 15ID
Minimum tidal volume	>90ml	>35ml

* HMEF only



Anesthesia

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

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Anesthetic Face Masks



ClearLite™ anesthetic face masks

A range of anesthetic face masks which include seven sizes to meet the clinical needs of most patient types and sizes. The range is available in size 0 neonate to size 6 extra large adult. Due to the enhanced anatomical design, the ClearLite mask offers superior seal performance with minimal pressure, reducing the risk of unnecessary discomfort or potential trauma.

The superior seal will also assist the clinician in providing optimum manual ventilation of the patient in both the anesthetic and emergency situation.

ClearLite is non-PVC and phthalate free which significantly minimizes the impact on the environment. 

Lightweight mask

Provides enhanced grip and comfort in use for the clinician

Safe and secure connection

This is achieved between the mask and the breathing system in use. The ISO 22mm tapered connection complies with ISO 5356

Anatomical shape

Provides a precise fit for different face types and sizes. Minimal pressure required to achieve an effective seal, reducing the risk of inadvertent trauma and nerve damage

Flexible non-inflating cuff

Provides a comfortable and effective airtight seal

Crystal clear body

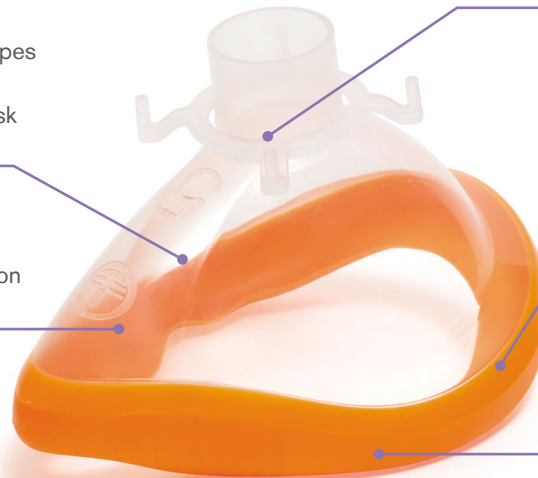
Provides excellent visibility for confirmation that the patient is well perfused

Color-coding

The comfortable, flexible seal is color coded to allow quick and easy identification of the correct sized mask

Reduced mask volume

Reduces potential rebreathing and risks associated with elevated levels of end tidal CO₂



Low environmental impact

Non-PVC and phthalate free

Learn more
about ClearLite™
Anesthetic Masks

www.intersurgical.com/info/ClearLite



	Code	Description	Box Qty.	
	7296000	ClearLite, anesthetic face mask, size 6, extra large adult, red seal, 22ID	20	
	7295000	ClearLite, anesthetic face mask, size 5, large adult, orange seal, 22ID	35	
	7294000	ClearLite, anesthetic face mask, size 4, adult, green seal, 22ID	35	
	7293000	ClearLite, anesthetic face mask, size 3, small adult, yellow seal, 22ID	35	
	7292000	ClearLite, anesthetic face mask, size 2, pediatric, white seal, 22ID	25	
	7291000	ClearLite, anesthetic face mask, size 1, infant, grey seal, no hook ring, 15OD	30	
	7290000	ClearLite, anesthetic face mask, size 0, neonate, blue seal, no hook ring, 15OD	40	



Lower environmental impact product

Economy anesthetic face masks

With color-coded hook rings

A range of four economy PVC anesthetic face masks with a soft cushion, clear housing and color-coded hook ring. Available in four sizes from small to extra large adult.



Clear flexible housing and cushion

Provides great patient visibility

Soft cushion

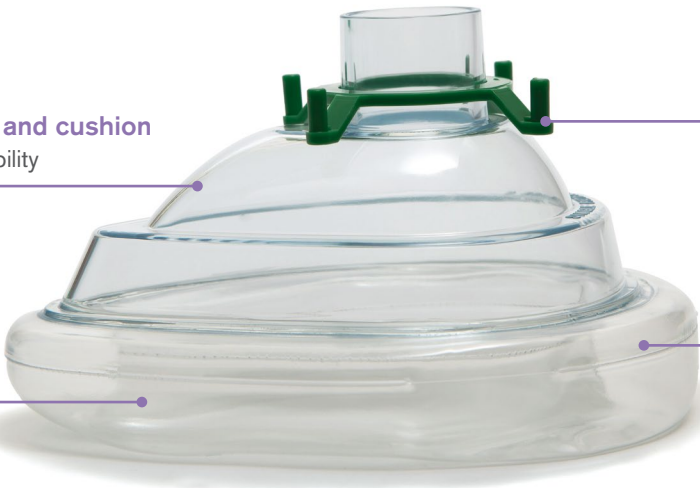
For patient comfort and an air tight fit

Color-coded hook ring

For ease of identification, and integration with other Intersurgical airway products

Four sizes available

From small to extra large adult



Code	Description	Box Qty.
1517000	Economy, anesthetic face mask, size 6, extra large adult	25
1516000	Economy, anesthetic face mask, size 5, large adult	30
1515000	Economy, anesthetic face mask, size 4, medium adult	40
1514000	Economy, anesthetic face mask, size 3, small adult	50



Anesthetic Breathing Systems



Multipac[®]

anesthetic breathing systems

Multipac[®] is a **safe** and **effective** one-a-day breathing circuit system.



Keep

Tube, reservoir bag and monitoring line
for **duration of day**



Change

Filter, connector and mask
for **each patient**



See Page **39** For Details

Multipac® anesthetic breathing systems

Cost savings are a major factor in the modern surgical environment. This not only affects products, but also storage requirements and anesthesia set-up time. Intersurgical Incorporated offers a completely integrated anesthesia system to address all of these concerns.

Multipac is a one-a-day breathing circuit that may be used by up to six patients¹. By selecting one of our eight Multipac configurations, most circuit needs can be met based on your specifications.

Additional options are available by selecting one of our eight Patient Packs that will include our high efficiency Filta-Therm™ HMEF, an anesthesia mask elbow and your choice of anesthetic face masks: ClearLite™ or Economy anesthetic face mask. Packs must be exchanged between each patient.

By using Multipac systems, cost savings can be realized through the product, the reduction of storage needs and a reduction in waste costs².



Multipac Anesthetic Breathing Circuits

Code	Description	Box Qty.
2158009	Multipac Compact II™ Anesthesia Breathing System (2 patient packs include: one Filta-Therm™ HMEF 1941000, one anesthesia mask elbow and one ClearLite™ size 4 - anesthetic face mask 7294000), one Compact II breathing circuit 118 inches long, with parallel Y-Piece and end cuffs, 3 liter latex free reservoir bag and 3m monitoring line	10
2158010	Multipac Compact II Anesthesia Breathing System (2 patient packs include: one Filta-Therm HMEF 1941000, one anesthesia mask elbow and one Economy size 4 - anesthetic face mask 1515000), one Compact II breathing circuit 118 inches long, with parallel Y-Piece and end cuffs, 3 liter latex free reservoir bag and 3m monitoring line	10
2900077	Multipac UniFlow™ Anesthesia Breathing System (2 patient packs include: one Filta-Therm HMEF 1941000, one anesthesia mask elbow and one ClearLite size 4 - anesthetic face mask 7294000), one UniFlow breathing circuit 63 inches long, with end cuffs, 3 liter latex free reservoir bag and 3m monitoring line	10
2900078	Multipac UniFlow Anesthesia Breathing System (2 patient packs include: one Filta-Therm HMEF 1941000, one anesthesia mask elbow and one Economy size 4 - anesthetic face mask 1515000), one UniFlow breathing circuit 63 inches long, with end cuffs, 3 liter latex free reservoir bag and 3m monitoring line	10
2902022	Multipac UniFlow Anesthesia Breathing System (2 patient packs include: one Filta-Therm HMEF 1941000, one anesthesia mask elbow and one ClearLite size 4 - anesthetic face mask 7294000), one UniFlow breathing circuit 63 inches long with integral monitoring line and end cuffs, 3 liter latex free reservoir bag and .9m monitoring line	10
2902023	Multipac UniFlow Anesthesia Breathing System (2 patient packs include: one Filta-Therm HMEF 1941000, one anesthesia mask elbow and one Economy size 4 - anesthetic face mask 1515000), one UniFlow breathing circuit 63 inches long with integral monitoring line and end cuffs, 3 liter latex free reservoir bag and .9m monitoring line	10

References:

- Palmer L., Benbough J., CAMR (Centre for Applied Microbiology & Research) Biosafety Investigation Unit Quality, Safety and Scientific Resources Division Test Report
- Daggan R., Steinberg D., Larjani G., Gratz I., Zafeiridis A., Goldberg M.E.L Intersurgical's Multipac® Breathing System allows reuse of anesthesia breathing circuits (BC) resulting in cost savings and reduced medical waste.

Code	Description	Box Qty.
2010235	Multipac® Flextube™ Anesthesia Breathing System (2 patient packs include: one Filta-Therm™ HMEF 1941000, one anesthesia mask elbow and one ClearLite™ size 4 - anesthetic face mask 7294000), one Flextube breathing circuit 63 inches long with parallel Y-piece and end cuffs, 3 liter latex free reservoir bag and 3m monitoring line	10
2010261	Multipac Flextube Anesthesia Breathing System (2 patient packs include: one Filta-Therm HMEF 1941000, one anesthesia mask elbow and one Economy size 4 - anesthetic face mask 1515000), one Flextube breathing circuit 63 inches long with parallel Y-piece and end cuffs, 3 liter latex free reservoir bag and 3m monitoring line	10

Patient Pack

Economy Anesthetic Face Mask



Patient Pack

ClearLite™ Anesthetic Face Mask



Multipac Patient Packs

Code	Description	Box Qty.
72936000	Multipac Patient Pack (Includes one Filta-Therm HMEF 1941000, one anesthesia mask elbow and one ClearLite size 3 - anesthetic face mask 7293000)	20
72946000	Multipac Patient Pack (Includes one Filta-Therm HMEF 1941000, one anesthesia mask elbow and one ClearLite size 4 - anesthetic face mask 7294000)	20
72956000	Multipac Patient Pack (Includes one Filta-Therm HMEF 1941000, one anesthesia mask elbow and one ClearLite size 5 - anesthetic face mask 7295000)	20
72966000	Multipac Patient Pack (Includes one Filta-Therm HMEF 1941000, one anesthesia mask elbow and one ClearLite size 6 - anesthetic face mask 7296000)	20
15146000	Multipac Patient Pack (Includes one Filta-Therm HMEF 1941000, one anesthesia mask elbow and one Economy size 3 - anesthetic face mask 1514000)	20
15156000	Multipac Patient Pack (Includes one Filta-Therm HMEF 1941000, one anesthesia mask elbow and one Economy size 4 - anesthetic face mask 1515000)	20
15166000	Multipac Patient Pack (Includes one Filta-Therm HMEF 1941000, one anesthesia mask elbow and one Economy size 5 - anesthetic face mask 1516000)	20
15176000	Multipac Patient Pack (Includes one Filta-Therm HMEF 1941000, one anesthesia mask elbow and one Economy size 6 - anesthetic face mask 1517000)	20

Compact II™ adjustable anesthetic breathing systems provide a versatile solution

Optimum compression

The Compact II adjustable anesthetic breathing system has been designed for economy. The unique tube design results in a system which can be compressed to almost $\frac{1}{5}$ of its extended length. They are supplied in a compressed form which increases the number of systems per box, for more cost-effective storage and disposal, resulting in significant space savings compared with other breathing systems. A standard box of Compact II systems could provide a hospital with an extra three weeks' supply.

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

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 meter.

Lightweight system

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

Low Compliance

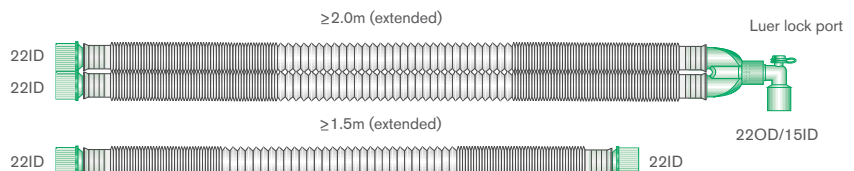
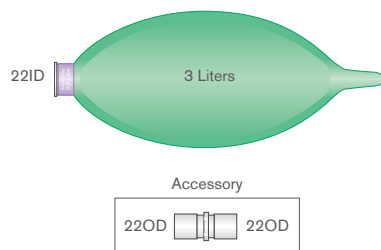
The compliance of the Compact system tube when extended is 4.4ml/kpa per meter of tube, which is less than that required in the ISO 5367:2000 standard.

Adjustable length

Packed and supplied in the shortest length, it can simply be extended 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 and is ideal for head and neck surgery where the system can be positioned away from the patient, and does not require any additional patient connections.



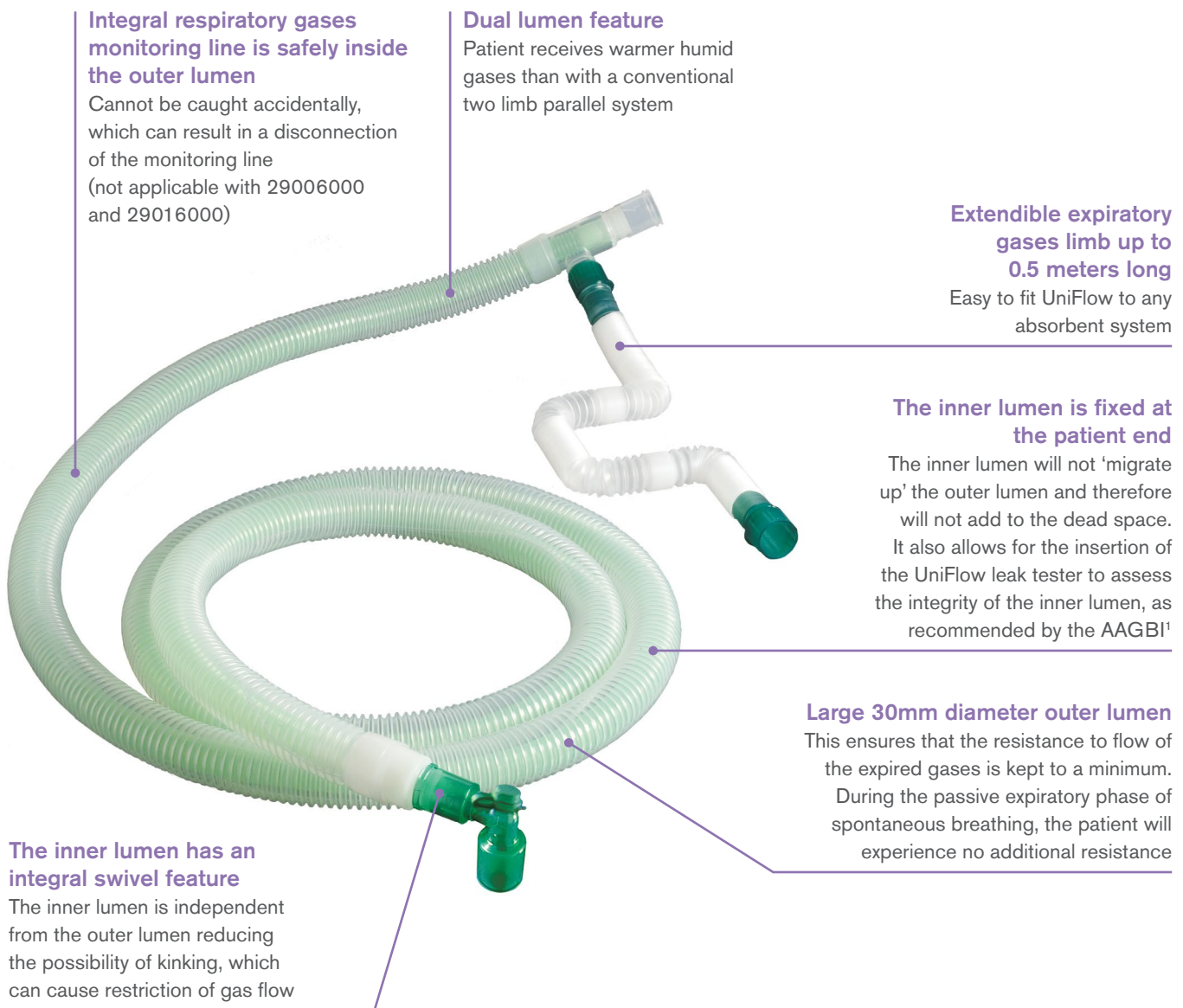
👁 system illustrated

Code	Description	Box Qty.
21516000	22mm Compact II, adjustable breathing system with luer elbow, ≥2.0m	10
👁 21526000	22mm Compact II, adjustable breathing system with 3L bag and limb, ≥2.0m	10
21536000	22mm Compact II, adjustable breathing system with 3L bag, filter and limb, >2.0m	10
21556000	22mm Compact II, adjustable breathing system with two re-sealable water traps and limb, ≥3.0m	10
21586000	22mm Compact II, adjustable breathing system with luer elbow, ≥3.0m	10
1526000	Compact II, extension tube ≥2.0m	100

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

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

The UniFlow systems fit all standard carbon dioxide absorbents and are ideally suited for use in low flow anesthesia.



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.

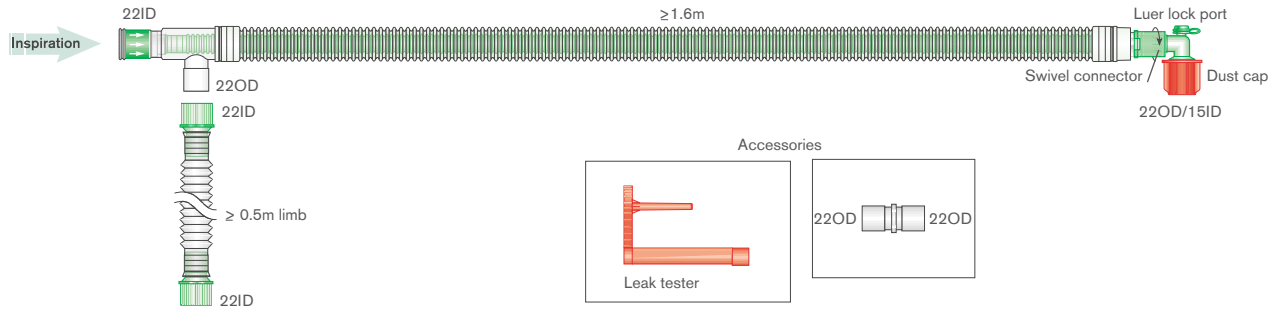


Reference: 1. 'Checking Anaesthetic Equipment 3', (2004), E2, Anaesthetic Association of Great Britain and Ireland (AAGBI).

UniFlow™ coaxial breathing systems with leak tester

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

UniFlow can now be used on pediatrics to as low as 5kg in weight¹.

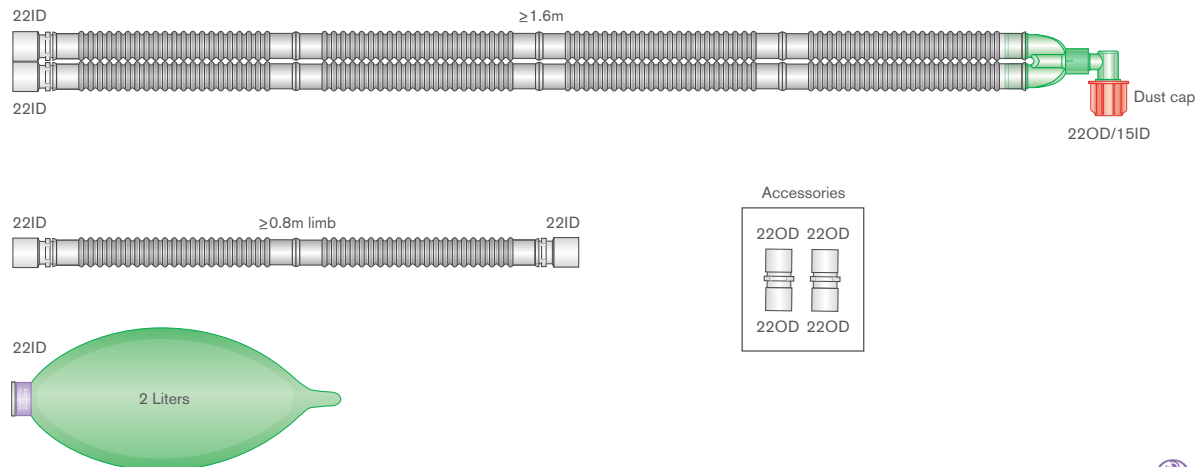


system illustrated

Code	Description	Box Qty.
29006000	30mm UniFlow coaxial breathing system with limb, $\geq 1.6\text{m}$	12
29016000	30mm UniFlow coaxial breathing system with limb, $\geq 2.4\text{m}$	10
29026000	30mm UniFlow coaxial breathing system with integral monitoring line and limb, $\geq 1.6\text{m}$	12
29036000	30mm UniFlow coaxial breathing system with integral monitoring line and limb, $\geq 2.4\text{m}$	10

Anesthetic circle breathing systems

A range of anesthetic breathing systems are available in different lengths and configurations. The range includes standard Flextube™ systems, length adjustable systems (Compact II) and universal coaxial systems (UniFlow).



system illustrated

Code	Description	Box Qty.
20106000	22mm Flextube breathing system with 2L bag and limb, $\geq 1.6\text{m}$	15
21416000	22mm Flextube breathing system with single water trap, $\geq 1.6\text{m}$	10



Breathing System Accessories



Reservoir bags – single-use



Code	Description	Case Qty.
2830000	Reservoir bag, 3L with anti occlusion cage mount, 22ID neck	40
2820000	Reservoir bag, 2L with anti occlusion cage mount, 22ID neck	40

Monitoring line connectors

This range of various luer ports and connections are for use in breathing systems that do not include a respiratory monitoring port connection. There is also a monitoring line hydrophobic filter which can be fitted to the monitor connection to protect the monitor.

 <p>7.6mm luer elbow not removable</p> <p>Not shown to scale in relation to other products on this page</p>	
Code	27106000
Box Qty.	50

	
Code	2712030
Case Qty.	200

	
Code	2713030
Case Qty.	200

	
Code	2714000
Case Qty.	100

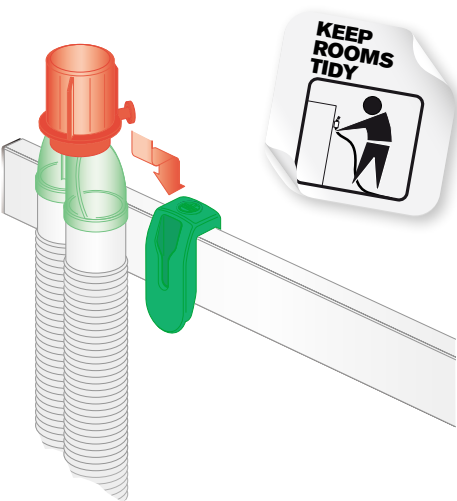
	
Code	3514031
Box Qty.	50

Tube management clip system

Don't trip - Clip

Breathing systems that drag across the floor are not hygienic and can cause accidents. Our tube management clip system comprises two U-shaped brackets, a single tube clip and a double tube clip to keep bagging limbs and tubes secure. The U-shaped bracket is self adhesive and can be used with the red dust cap supplied with our systems or the tube clips.

▶ Video available at www.intersurgical.com



Code	Description	Case Qty.
2316000	Tube management clip system*	48
1978000	Dust cap	180

Scavenging connectors

A range of connectors that allow the scavenging tube to be connected to the breathing system exhaust valve or anesthesia machine exhaust valve and the AGSS device.

The ISO standard is 30mm, and the ANSI standard is 19mm. Historically 22mm has also been used.

		
Code 1971000	Code 19756000	Code 1970000
Case Qty. 100	Box Qty. 50	Case Qty. 140

* Safety Cap sold separately



CO₂ Absorbents



The Intersurgical range of medical grade absorbents and standard soda lime are available in a number of configurations to suit your requirements. These include loose fill, pre-filled absorbent cartridges and disposable absorbents for specific equipment.

Spherasorb™

A uniquely designed medical grade soda lime. Spherasorb's chemical formulation has been developed specifically to address the potential problems of use within the medical environment.

Features and Benefits:

- Only 1.5% Sodium Hydroxide
- Zeolite to reduce the risk of drying out
- Spherasorb is made of 3–4mm spheres processed to minimize potential dusting and enable uniform gas flow for efficient use

Spherasorb has a long history of use within anesthesia and meets all the requirements of the United States and British Pharmacopoeias.

Spherasorb's chemical formulation has been developed to provide complete protection against the potential problems of use within the medical environment, while maintaining the highest possible CO₂ capacity.

The degree of color change at exhaustion depends on the conditions of use and is an indication only. Color change must ideally be used in conjunction with inspired CO₂ monitoring.

LoFloSorb™

A uniquely designed medical grade CO₂ absorbent that contains no Alkali Hydroxide. LoFloSorb minimizes the risk associated with reactions with volatile anesthetics.

Features and Benefits:

- LoFloSorb contains no Potassium Hydroxide and no Sodium Hydroxide
- LoFloSorb is made of 3–4mm spheres processed to minimize potential dusting and enable uniform gas flow for efficient use
- LoFloSorb offers a very stable green-to-violet color change

LoFloSorb's chemical formulation has been developed to provide CO₂ absorption without the need for any Alkali Hydroxide. It provides protection against the potential problems of use within the medical environment. LoFloSorb offers excellent CO₂ absorption, however, its duration of use will be less than Spherasorb or Intersorb Plus™ under the same conditions of use.

LoFloSorb has a long history of use within anesthesia and meets all the requirements of the United States and British Pharmacopoeias.




Intersorb Plus™

Intersorb Plus is a soda lime Carbon Dioxide absorbent comprised of short porous 3mm diameter strands.

Intersorb Plus is a 3% Sodium Hydroxide soda lime that meets all the requirements of the United States and British Pharmacopoeias.

Intersorb Plus is suitable as a CO₂ absorbent for medical use within anesthesia, for which it has a long, worldwide history of use.

What is in our products?

	Spherasorb™	LoFloSorb™	Intersorb Plus™	Other standard Soda Limes
Calcium Hydroxide	93.5%	92.5%	97%	97%
Sodium Hydroxide	1.5%	Nil	3%	3%
Silica Synthetic/amorphous	Nil	7.5%	Nil	Nil
Zeolite	5%	Nil	Nil	Nil
Indicator	0.03%	0.03%	0.03%	0.03%
				

Note: These are the dry constituents. All absorbents contain 13–17% water.

Loose fill CO₂ absorbent options



Code	Description	Size	Box Qty.
2173000	Spherasorb , white-to-violet color change	1kg bag	10
2175000	Spherasorb™ , white-to-violet color change	5L jerican	2
2178000	LoFloSorb™ , green-to-violet color change	5L jerican	2
2179000	Intersorb Plus™ , white-to-violet color change	5L jerican	2

The Drum™

1kg pre-filled disposable absorbent cartridge

The Drum is Intersurgical's easy to use, pre-filled 1kg absorbent cartridge that has been developed specifically for clinical use during anesthesia. The Drum can be used on numerous anesthetic machines with single or double absorbents that have been designed to accommodate the conventional design of pre-filled cartridges.



Code	Description	Size	Box Qty.
2186000	The Drum, Spherasorb CO ₂ absorbent cartridge, white-to-violet color change	1kg	10
2188000	The Drum, LoFloSorb CO ₂ absorbent cartridge, green-to-violet color change	1kg	10

The Pyramid™

1kg pre-filled disposable carbon dioxide absorbent

The Pyramid is an easy to use disposable absorbent specifically developed for clinical use during anesthesia to absorb Carbon Dioxide within an anesthetic breathing system. The Pyramid is compatible with Spacelabs® ARKON™ and the following Dräger® anesthetic workstations providing it is used in conjunction with the CLIC™ adaptor: Apollo®, Cato® Edition, Cicero™ EM, Fabius® CE, Fabius® GS, Fabius® Tiro, Julian®, Perseus®, Primus®, Spacelabs ARKON™ and Zeus®.



Code	Description	Size	Box Qty.
2191001	The Pyramid, Spherasorb ™ disposable CO ₂ absorbent, white-to-violet color change	1kg	6
2193001	The Pyramid, LoFloSorb ™ disposable CO ₂ absorbent, green-to-violet color change	1kg	6

IS Can™

1kg pre-filled disposable carbon dioxide absorber

The IS Can offers ease of exchange with minimal handling and provides a further option for customers who have made the choice to use pre-fills. The IS Can is compatible with GE Healthcare® anesthetic machines; Aisys®, Aespire® and Avance® and also the GE® ADU machine.



Code	Description	Size	Box Qty.
2196000	IS Can, Spherasorb disposable CO ₂ absorber, white-to-violet color change	1kg	6
2198000	IS Can, LoFloSorb disposable CO ₂ absorber, green-to-violet color change	1kg	6

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Dräger® compatibility guide

Machine	Loose fill	The Drum™	The Pyramid™	IS Can™
Perseus® with CLIC™ adaptor	–	–	✓	–
Perseus® with refillable absorber	✓	–	–	–
Zeus® with CLIC™ adaptor	–	–	✓	–
Zeus® with refillable absorber	✓	–	–	–
Primus®/Apollo® with CLIC™ adaptor	–	–	✓	–
Primus®/Apollo® with refillable absorber	✓	–	–	–
Fabius Tiro® with CLIC™ adaptor	–	–	✓	–
Fabius Tiro® with refillable absorber	✓	–	–	–
Fabius® GS with CLIC™ adaptor	–	–	✓	–
Fabius® GS with refillable absorber	✓	–	–	–
Fabius® CE with CLIC™ adaptor	–	–	✓	–
Fabius® CE with refillable absorber	✓	–	–	–
Julian® with CLIC™ adaptor	–	–	✓	–
Julian® with refillable absorber	✓	–	–	–
Cicero™ with CLIC™ adaptor	–	–	✓	–
Cicero™ with refillable absorber	✓	–	–	–
Cato® with CLIC™ adaptor	–	–	✓	–
Cato® with refillable absorber	✓	–	–	–
Narkomed® 2B	✓	✓	–	–
Narkomed® 4	✓	✓	–	–
Narkomed® GS	✓	✓	–	–
Narkomed® Mobile	✓	✓	–	–
Other	✓	–	–	–

Spacelabs® compatibility guide

Machine	Loose fill	The Drum™	The Pyramid™	IS Can™
ARKON®	D.o.M.	–	✓	–
Focus™	✓	✓	–	–
Frontline™	✓	✓	–	–
Sirius™	✓	✓	–	–
Other	✓	D.o.M.	–	–

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GE Healthcare® compatibility guide

Machine	Loose fill	The Drum™	The Pyramid™	IS Can™
Aisys® using the pre-filled Multiabsorber	–	–	–	✓
Aisys® using the refillable Multiabsorber	✓	–	–	✓
Avance® using the pre-filled Multiabsorber	–	–	–	✓
Avance® using the refillable Multiabsorber	✓	–	–	✓
Aespire® reusing the pre-filled Multiabsorber	–	–	–	✓
Aespire® using the refillable Multiabsorber	✓	–	–	✓
ADU using the pre-filled Compact absorber	–	–	–	✓
ADU using the refillable Compact absorber	✓	–	–	✓
Aestiva®	✓	✓	–	–
Excel®	✓	✓	–	–
Modulus™	✓	✓	–	–
Other	✓	D.o.M.	–	–

Penlon® compatibility guide

Machine	Loose fill	The Drum™	The Pyramid™	IS Can™
A100™	✓	✓	–	–
SP100™	✓	✓	–	–
SP200™	✓	✓	–	–
Other	✓	D.o.M.	–	–
Other manufacturers	D.o.M.	D.o.M.	D.o.M.	D.o.M.

Getinge® (formerly Maquet®) compatibility guide

Machine	Loose fill	The Drum™	The Pyramid™	IS Can™
KION®-i	✓	✓	–	–
FLOW™-i with refillable absorber	✓	–	–	–
Other	D.o.M.	–	–	–

Mindray®

Machine	Loose fill	The Drum™	The Pyramid™	IS Can™
A5	✓	✓	–	–
A7	✓	✓	–	–

Other manufacturers compatibility guide

Machine	Loose fill	The Drum™	The Pyramid™	IS Can™
Other manufacturers machine	D.o.M.	D.o.M.	D.o.M.	D.o.M.

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Critical Care

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

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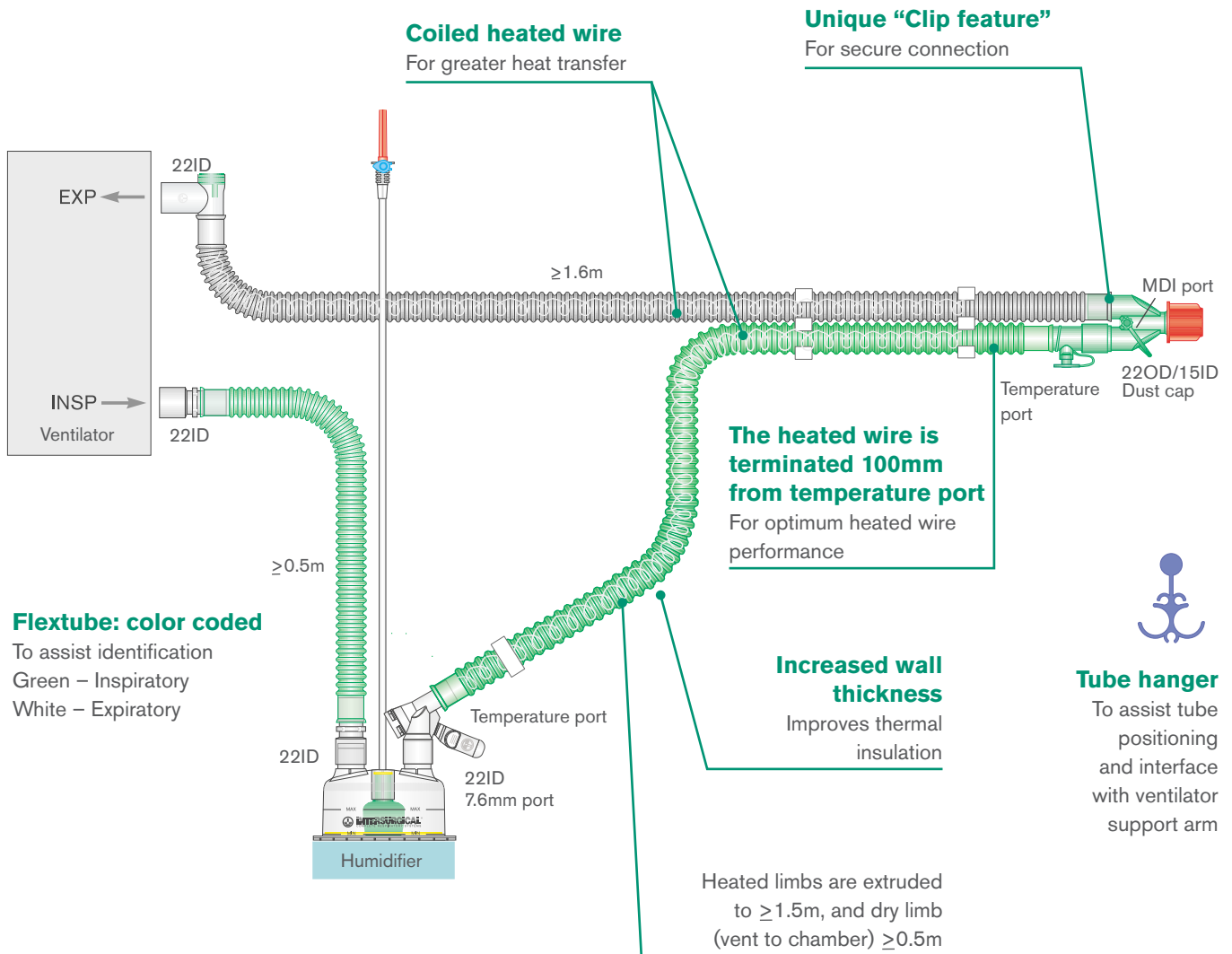


Breathing Systems for Critical Care



Flextube™ breathing systems for active humidification with heated wire

Intersurgical offers a selection of 22mm breathing systems for active humidification. These products have been designed to be compatible with the majority of humidifier base units found in intensive care areas. The coiled wire design offers an efficient method of transferring inspiratory and expiratory gases to the patient. The systems are packaged ready for use complete with Intersurgical high quality accessories. The humidification chamber is an integral part of the breathing system allowing it to interface with the heated humidifier base unit. The chamber, often referred to as a 'water bath humidifier', can also be used with heated humidifier bases, such as the MR850*, commonly found in intensive care areas.



illustrated

Code	Description	Box Qty.
2026030A	22mm Flextube dual heated wire breathing system with limb, $\geq 1.6\text{m}$	10
2026031A	22mm Flextube dual heated wire breathing system with auto fill chamber and limb, $\geq 1.6\text{m}$	7
2026035	22mm Flextube single limb heated wire breathing system with limb, $\geq 1.6\text{m}$	20
2026036	22mm Flextube single limb heated wire breathing system with auto fill chamber and limb, $\geq 1.6\text{m}$	7

* This is a product of Fisher & Paykel Healthcare

Chambers for heated humidification

We offer a comprehensive range of active humidification chambers for use with the more commonly found humidifiers used in the intensive care areas.

Compatible with all our heated wire products, all three chamber options feature 22mm outer diameter (OD) connectors and a clear polycarbonate body for instant and accurate visible fluid level assessment.

- **The dual float auto-fill** humidification chamber can be used in a variety of respiratory support therapies ranging from CPAP through to full mechanical ventilation including high frequency oscillation for all size patients. This chamber offers the clinician a constant water level, as the used fluid is automatically replaced from a reservoir bag. As a result the systems compressible volume does not fluctuate, making the auto-fill chamber the first choice in all intensive care areas from pediatric through to adult.
- **The manual fill** chamber features a clamp along the fill line which isolates the chamber from the fluid reservoir bag. This chamber requires the clinician to monitor the water level and open the clamp when more fluid is required. Seen as a lower cost alternative and is sometimes used in high driving pressure applications (eg. nFlow™).
- **The low volume** manual fill chamber also features the fill line clamp. With very low compressible volume, it is ideally suited for applications like advanced high frequency ventilation for most sizes of patient.

Inline filter

Prevents any debris from entering the chamber

Dual valve

For added security

Clearly visible water level indicator

Easy to see for instant accurate fluid level assessment

Baffles and webs

Ensure an efficient gas flow through the chamber for increased humidity

Protective cassette

Protects the chamber from contamination and conveniently stores the fill set before use

Strong polycarbonate clear material

Improved compliance characteristics. Allows for easy visual assessment of the fluid level at all times

Hydrophobic membrane filter

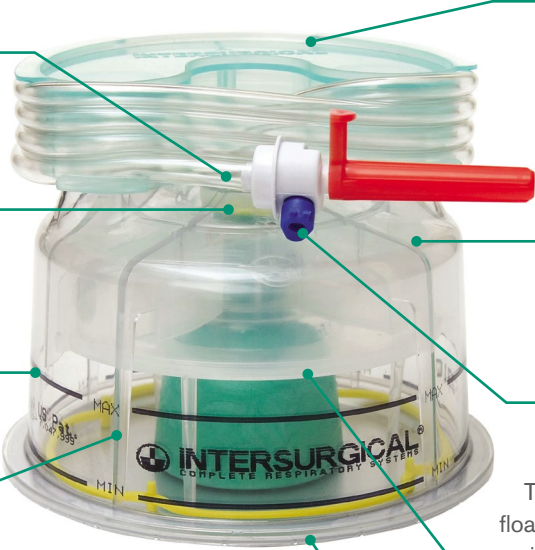
Allows connection to a rigid or collapsible reservoir bottle

Advanced dual float design

The closed cell material of the primary float ensures a totally reliable unsinkable rigid mechanism. While the secondary float provides added security

Shrouded heated plate cover

Prevents accidental burns when removing the chamber from the heater base



2310000

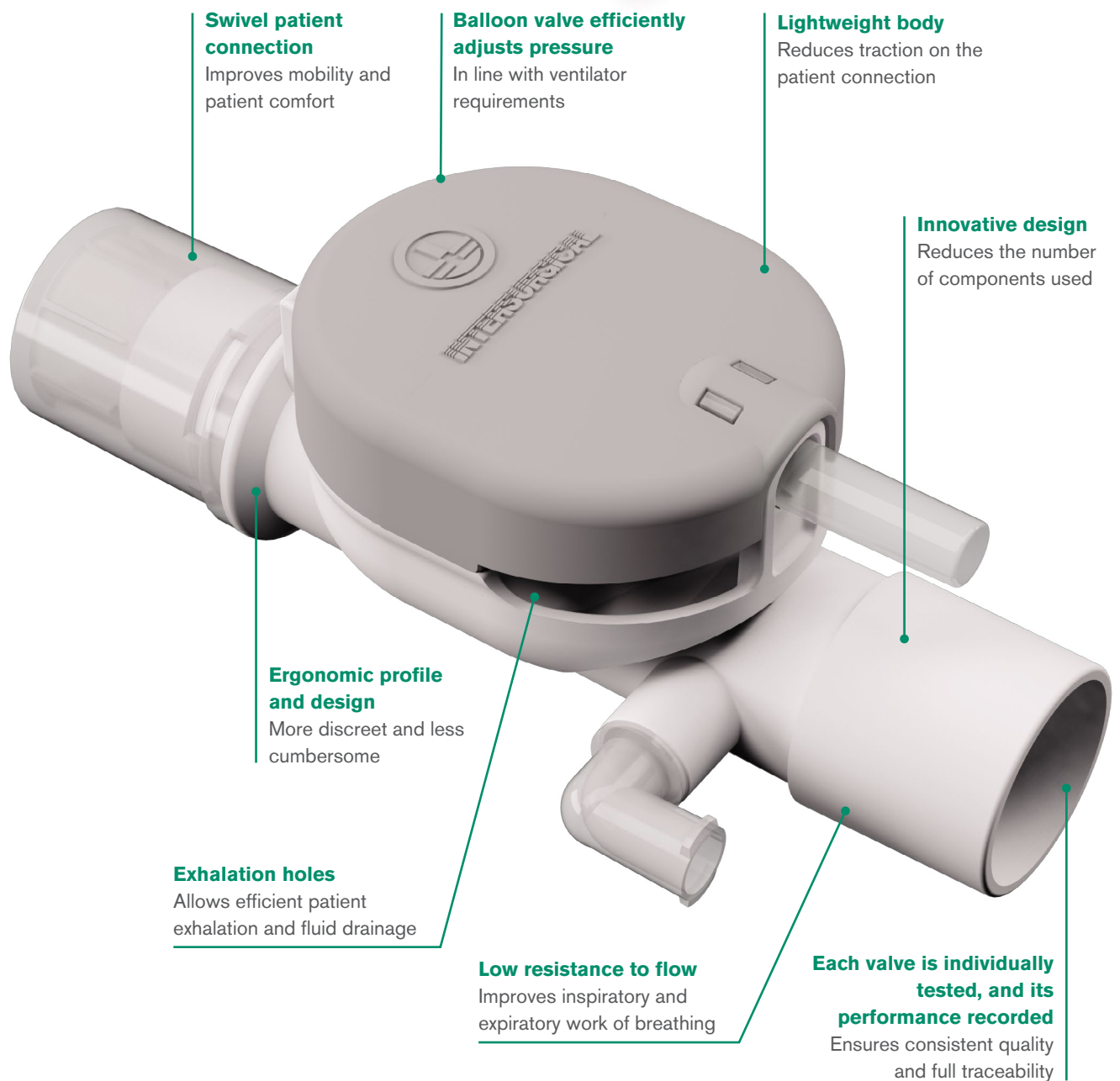
2320030

2330030

Code	Description	Box Qty.
2310000	Dual float auto-fill humidification chamber with fill set	30
2320030	Manual fill humidification chamber with fill set and clamp	30
2330030	Low volume manual fill humidification chamber with fill set and clamp	30

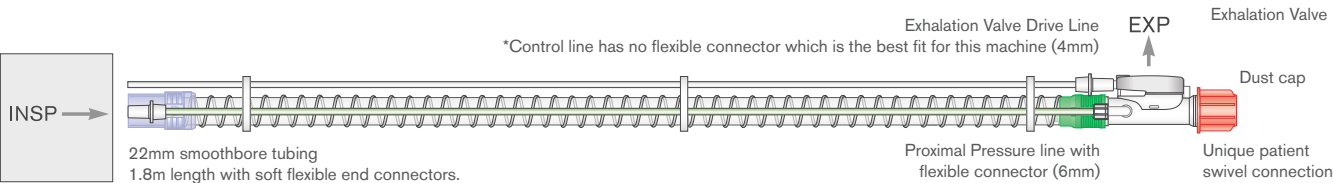
Single limb breathing systems designed for hospital and home

The single limb breathing system with exhalation valve range has been designed with the patient in mind. This range features our exhalation valve popular for its user-friendly characteristics and exceptional design. It is fully compatible with the majority of home care ventilators.



Intersurgical® 5191000

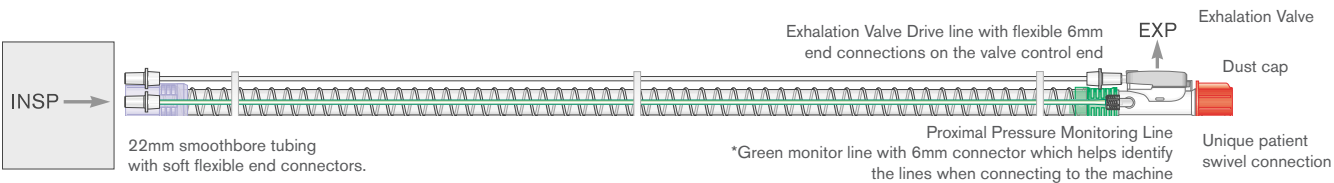
For Respirationics® Trilogy™ 100 and Puritan Bennett™ 560 Portable Ventilators



Code	Description	Box Qty.
5191000	22mm Smoothbore breathing system with monitoring line and exhalation valve, single limb, ≥1.8m	25

Intersurgical® 5183000

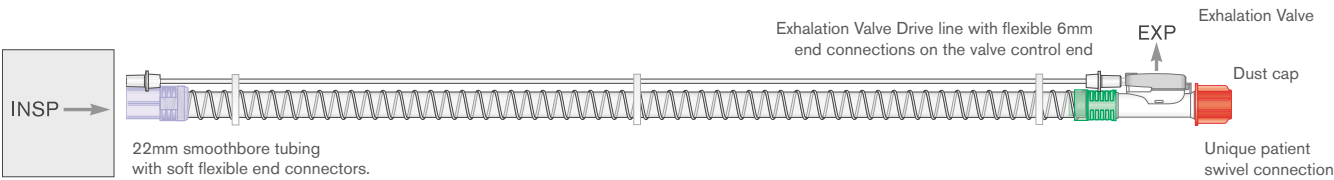
Universal Circuit for Home Care Ventilators



Code	Description	Box Qty.
5183000	22mm Smoothbore breathing system with monitoring line and exhalation valve, ≥1.6m	20

Intersurgical® 5182000

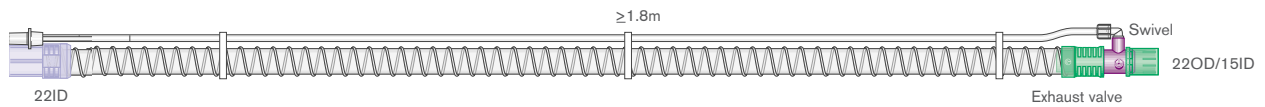
Universal Circuit for Home Care Ventilators that do not require a Proximal Monitoring Line





Code	Description	Box Qty.
5182000	22mm Smoothbore single limb breathing system with exhalation valve, ≥1.6m	10

Trilogy™ 100 is a trademark of Philips Respirationics®. Puritan Bennett™ is a trademark of Covidien LP. Respirationics® is a registered trademark of Respirationics Inc.

Smoothbore breathing systems for bi-level ventilators



 system illustrated

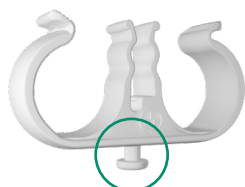
Code	Description	Box Qty.
 B0006000	Smoothbore circuit with vent and end T	10
B0006001	Smoothbore circuit with vent, end T and tube hanger	10
B0006002	Smoothbore circuit with vent	10
B0006003	Smoothbore circuit with vent and tube hanger	10
B0063000	Smoothbore breathing system without exhalation port, 22mm, $\geq 1.6\text{m}$	10
5804000	Smoothbore breathing system with exhalation port 22mm, $\geq 1.6\text{m}$	30
B0003000	Smoothbore circuit with vent, 1644000 filter and end T	10
B0003001	Smoothbore circuit with vent, 1644000 filter, tube hanger and end T	10
B0003002	Smoothbore circuit with vent and 1644000 filter	10
B0003003	Smoothbore circuit with vent, 1644000 filter and tube hanger	10

Tube management clip system

Don't Trip, Clip

Breathing systems that drag across the floor are not hygienic and can cause accidents. Our tube management clip system comprises two U-shaped brackets, a single tube clip and a double tube clip to keep bagging limbs and tubes secure. The U-shaped bracket is self-adhesive and can be used with the red dust cap supplied with our systems or the tube clips.

Tube clips 22mm



Notch feature



Red dust cap or humidification chamber fill set spike cover



Notch feature



Notch feature interfaces with

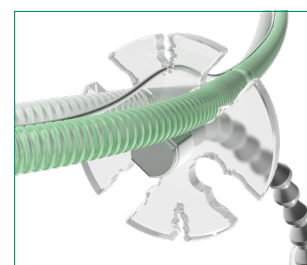
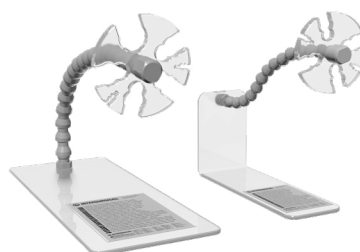


Tube management clip

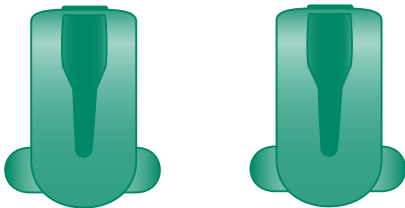



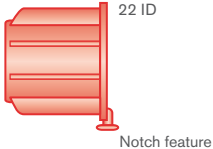
Tube holder

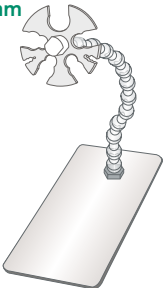

Our ergonomically designed tube holder is a neat way of supporting a breathing system close to the patient. Available in two sizes, the tube support efficiently holds in place 10, 15, 22 and 30mm tubes with a smaller groove to grip monitoring lines and cables. The flexible neck is easily positioned to take the strain of the breathing system away from the patient.

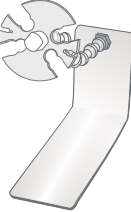



Tube management guide

Tube management clips		Tube clips	
			
Code	2316000		
Case Qty.	48		

	
Code	1978000
Case Qty.	180

<p>Tube holder 30mm/22mm /15mm</p>  	
Code	59046000
Box Qty.	1

<p>Tube holder 15mm/10mm</p>  	
Code	5905000
Box Qty.	1

Water traps

We offer a range of self-sealing water traps that allow for emptying during use. As the base of the water trap is opened the internal valve automatically closes ensuring the breathing system remains airtight. As the base is replaced, the valve re-opens allowing drainage of the breathing system to recommence.

The right-angled version is ideal for use in applications where a 90° attachment may be required.



Code	Description	Box Qty.
1911030	Water trap, self-sealing, medium	40
1912030	Water trap, self-sealing, large	50
1915000	Water trap, right-angled, self-sealing, large	40
1916000	Water trap, right-angled, self-sealing, medium	55

CPAP harnesses

Intersurgical offers two CPAP harnesses available in sizes, small and medium/large adult.



Code	Description	Box Qty.
22236000	CPAP, harness for mask, small adult	12
2224000	CPAP, harness for mask, medium/large adult	48*

* Case Qty.



Oral Care



Reduce VAP with Oral Care

Ventilator Associated Pneumonia (VAP) causes prolonged intubation and extended stays in intensive care units (ICU) resulting in increases in associated costs. It can also be a significant cause of mortality in compromised patients.

A combination of oral care treatments (brushing and suctioning) in a proper oral care protocol means care providers can efficiently prevent oropharyngeal bacterial biofilm build-up. This in turn leads to a reduction of VAP and aspiration pneumonias, and therefore, greatly reduces associated treatment costs.^{1,2,3.}

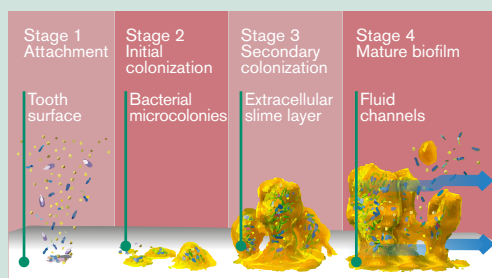
VAP Fact 1: VAP occurs in 9-25% of all patients in ICU

VAP Fact 2: Each case of VAP costs the hospital \$30,000-\$40,000

VAP Fact 3: VAP mortality rate is approximately 10-40%

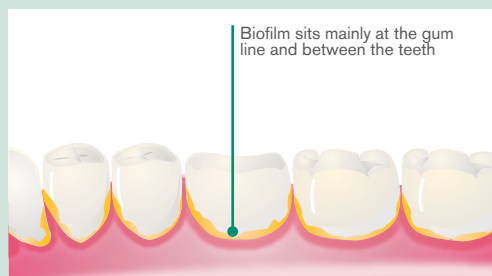
Four stages of plaque build up

Dental plaque is a biofilm made up from bacteria and their excretions, sitting mainly at the gum line and between teeth.



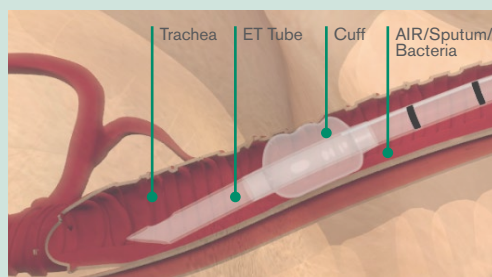
Biofilm

Fresh biofilm will develop after each intervention and will cover the complete tooth surface in only two hours. The biofilm protects pathogenic bacteria such as *MRSA* and *Klebsiella*, which are common problems in many intensive care units. Biofilm must be broken up prior to the application of antibacterial agents.

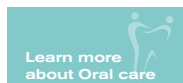


Aspiration

From the oropharynx saliva, mucus and biofilm build-up move to the ET tube cuff and may be aspirated into the lungs, as the cuff seal will never be 100%. When aspirated into the lungs, these bacteria may cause VAP and require treatment with antibiotics.



Video available at www.intersurgical.com



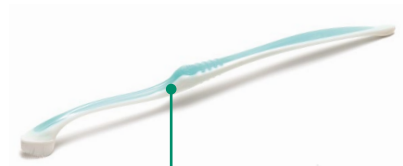
www.intersurgical.com/info/oralcare

References

1. R. GARCIA, L. JENDRESKY, L. COLBERT, A. BAILEY, M. ZAMAN et M. MAJUMDER, Reducing Ventilator-Associated Pneumonia Through Advanced Oral-Dental Care: A 48-Month Study, *AJCC*, July 2009.
2. J. Rello, D. Ollendorf, G. Oster, M. Vera-Lionch, L. Bellm, R. Redman, M. Kollef: Epidemiology and outcomes of ventilator-associated-pneumonia in a large US database, *Chest*, December 2002.
3. L. Frampton: Preventing HCAI on the intensive care unit, *The Clinical Services Journal*, March 2014.

Cleaning tools and accessories

For the most efficient removal of plaque, a soft bristle toothbrush is recommended. Intersurgical offers a selection of medical toothbrushes with soft bristles and cleaning implements for both adult and pediatric patients in intensive care. These have been designed with small, patient friendly brush heads which allow the user to gently and effectively reach all areas of the oral cavities.



OroCare™ Mini toothbrush

This toothbrush is ideal for patients with a challenging oropharyngeal situation. The long slim neck of this brush assists the user in reaching all areas of the oral cavities.



OroCare™ Aspire suction toothbrush

With built in, direct attachment for the suction line, this toothbrush eliminates the need for an additional yankauer. The long slim neck of this brush helps to reach all areas of the oral cavity without interfering with ET tubes and other equipment.



OroCare™ Sensitive oral suction wand

This unique suction wand is used for cleaning delicate gums and tissues. The integral molded soft head provides a safer solution to the commonly used foam swab. The wand allows application of antibacterial solutions while gently cleaning the teeth and soft pallet.



OroCare™ suction line splitter

This splitter is designed for the simultaneous use of two suction lines on a single suction canister. This may become necessary, when a closed suction system is already attached to the vacuum source.

Code	Description	Case Qty.
3011000	OroCare Mini toothbrush	120
3016000	OroCare Aspire suction toothbrush	100
3017000	OroCare Sensitive oral suction wand	60
3022000	OroCare suction line splitter	100

Daily protocol kit

In order to help in the introduction of an oral care protocol we have a complete day kit available for four hour (q4) interventions. The kit also includes a mouth rinse and moisturizer for use every four (q4) hours. Offering a simple, single use solution, straight from the pack.



Code	Description	Box Qty.
3014002	OroCare 24 hour day kit – q4 (four hour intervention kit)	10



STARMed CaStar R Hood



STARMed CaStar R Hood

StarMed CaStar R

The CaStar R is a comfortable, versatile and lightweight patient interface for CPAP therapy or non-invasive mechanical ventilation (NIV) designed to offer an alternative to traditional methods of NIV and CPAP delivery. The CaStar R is well tolerated for extended periods and can reduce the risks associated with both endotracheal intubation and face mask use. It can be used in semi-recumbent, supine and prone positions providing an ideal option for NIV and CPAP therapy.

Technical Features

- Manufactured from phthalate-free materials
- 22OD connectors compliant to ISO standard
- Comfortable and atraumatic underarm fastening straps
- Built in inflatable neck cushion
- Two versatile sealed access ports suitable for single or multiple lumen probes or catheters
- Patient access port, fitted with a bi-directional anti-asphyxiation valve which opens automatically in the event of pressure failure



CaStar R Hood for NIV and CPAP Therapy

Code	Size	Neck circumference	Box Qty.
CP211XXL/2RA	Extra Extra Large	≥50cm	5
CP211XL/2RA	Extra Large	45-52cm	5
CP211L/2RA	Large	40-47cm	5
CP211M/2RA	Medium	34-41cm	5
CP211S/2RA	Small	27-34cm	5
CP211XS/2RA	Extra Small	17-27cm	5



The Intersurgical StarMed CaStar R NIV Hood is authorized by the FDA for the emergency use of ventilators, ventilator tubing connectors, and ventilator accessories under section 564(b)(1) of the Act, 21 U.S.C. § 360bbb-3(b)(1).

Companion Products

A list of products which can be used to compliment the StarMed CaStar R hood (sold separately).



CP903



CP9086000



STR/019



CPMT6000

Code	Description	Box Qty.
CP903	Cuff inflation bulb for inflating the built in neck cushion	5
CP9086000	Earplugs for improving patient comfort during therapy	25
STR/019	CaStar Cap, 22mm ID	10
CPMT6000	StarMed Measuring Tape	50

Underarm Straps



Code	Description	Box Qty.
CP900	Underarm Straps for StarMed Hoods Small, Medium and Large	5

22mm Smoothbore Breathing Systems



Code	Description	Box Qty.
5018000	Smoothbore tubing, 22mm with soft end connectors, ≥1.8m	20
5018011	Smoothbore tubing, 22mm with leak port and pressure monitoring line, ≥1.8m	20

Flo-Guard

Low-resistance breathing filter

The Flo-Guard provides a combination of filtration performance with low-resistance. The Flo-Guard breathing filter is designed to protect the patient and machine against cross contamination, while maintaining a low resistance across a wide range of flow rates.

Electrostatic filter media

Providing an excellent filtration efficiency

Large surface area

To reduce resistance to flow

Clear housing

For good visibility

Conical shape

To aid airflow



Code	Description	Box Qty.
1690000	Flo-Guard >99.99% filtration efficiency, low resistance filter	50

Daily Protocol Kit

In order to help in the introduction of an oral care protocol we have a complete day kit available for four hour (q4) interventions. The kit also includes a mouth rinse and moisturizer for use every four (q4) hours. Offering a simple, single use solution, straight from the pack.



Code	Description	Box Qty.
3014002	OroCare 24 hour day kit – q4 (four hour intervention kit)	10

Connectors and Accessories

22mm straight connectors

Code	1967000
Case Qty.	140

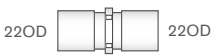
Code	1970000
Case Qty.	140

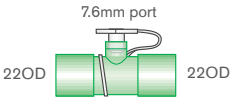


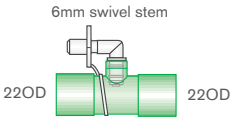

Connectors




22mm straight connectors and mouthpieces

	
Code	19606000
Box Qty.	50


	
Code	1966000
Case Qty.	100

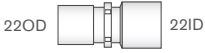
	
Code	19656000 
Box Qty.	50

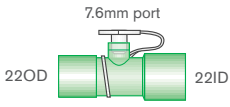
	
Code	1969000
Case Qty.	160

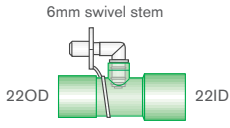


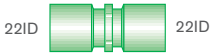
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Code	1933000
Case Qty.	160

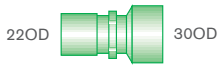
	
Code	1961000
Case Qty.	160


	
Code	1964000
Case Qty.	100


	
Code	1963000
Case Qty.	100


	
Code	1967000
Case Qty.	140

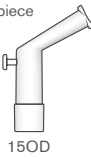
	
Code	19756000
Box Qty.	50

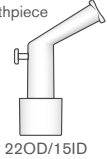
	
Code	1970000
Case Qty.	140

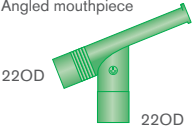
	
Code	1971000
Case Qty.	100

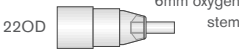
	
Code	1930030
Case Qty.	200


	
Code	1931000
Case Qty.	140


	
Code	1937000
Case Qty.	80

	
Code	1938000
Case Qty.	60


	
Code	1477003
Box Qty.	75


	
Code	1968000
Case Qty.	200

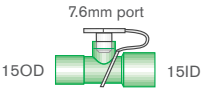

	
Code	1568000
Case Qty.	160

	
Code	1978000
Case Qty.	180

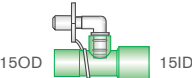
15mm straight connectors

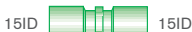
	
Code	1945000
Case Qty.	120


	
Code	1946000
Case Qty.	120


	
Code	1947000 
Case Qty.	160





	
Code	1948030
Case Qty.	200

	
Code	19496000
Box Qty.	50

	
Code	1943000
Case Qty.	160

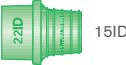
	
Code	1974000
Case Qty.	180


	
Code	1962000
Case Qty.	120

	
Code	1979000
Case Qty.	200

 illustrated


Elastomeric soft connectors


	
Code	1701000
Case Qty.	160

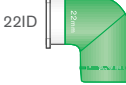

	
Code	1702000
Case Qty.	200




 illustrated

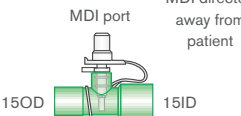
	
Code	17036000
Box Qty.	50

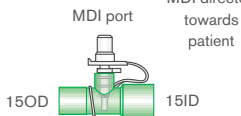
	
Code	1704000
Case Qty.	140

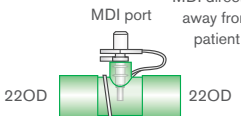
	
Code	17056000 
Box Qty.	50

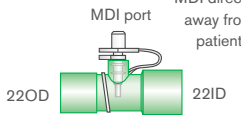
	
Code	17066000
Box Qty.	50

Connection with MDI ports

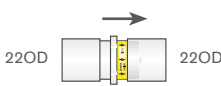
	
Code	1947001
Case Qty.	100

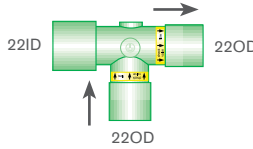
	
Code	1947003
Case Qty.	100

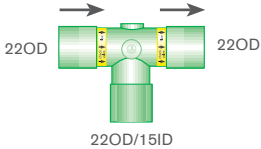
	
Code	1966001
Case Qty.	100

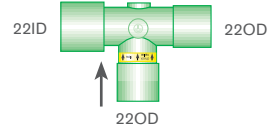
	
Code	1964001
Case Qty.	100

Directional valves

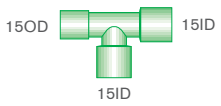
	
Code	1950000
Case Qty.	160

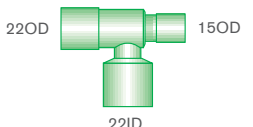
	
Code	19536000
Box Qty.	50

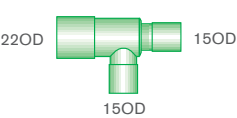
	
Code	19546000
Box Qty.	50

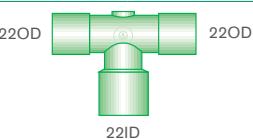
	
Code	1952000
Case Qty.	100

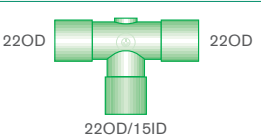
T-piece connectors

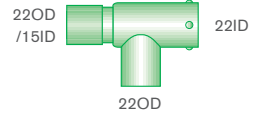
	
Code	1802000
Case Qty.	160

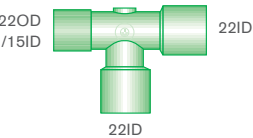
	
Code	1989000
Case Qty.	100

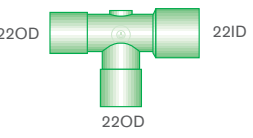
	
Code	1988000
Case Qty.	160

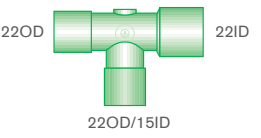
	
Code	1981000
Case Qty.	80

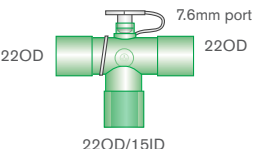
	
Code	1980000
Case Qty.	100

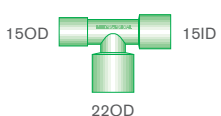
	
Code	19866000
Box Qty.	50

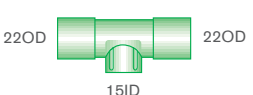
	
Code	1983000
Case Qty.	80

	
Code	1982000
Case Qty.	80

	
Code	19856000
Box Qty.	50

	
Code	1984000
Case Qty.	100

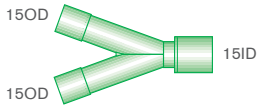
	
Code	18006000
Box Qty.	50

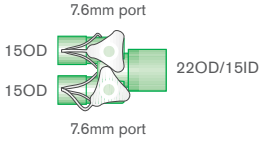
	
Code	19596000
Box Qty.	50



 illustrated

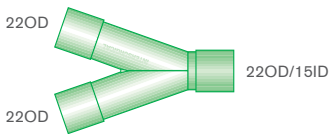
Y-piece connectors

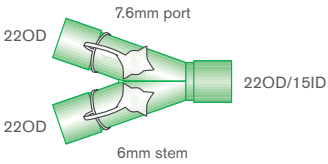

	
Code	19026000
Box Qty.	50

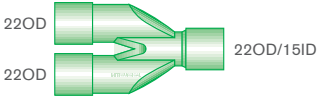
	
Code	1903000
Case Qty.	100

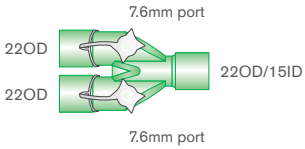


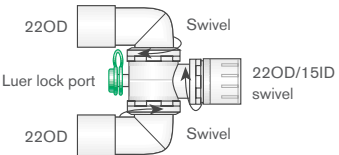
 illustrated

	
Code	1900000
Case Qty.	80

	
Code	1901000 
Case Qty.	60

	
Code	19266000
Box Qty.	50

	
Code	1927000
Case Qty.	60

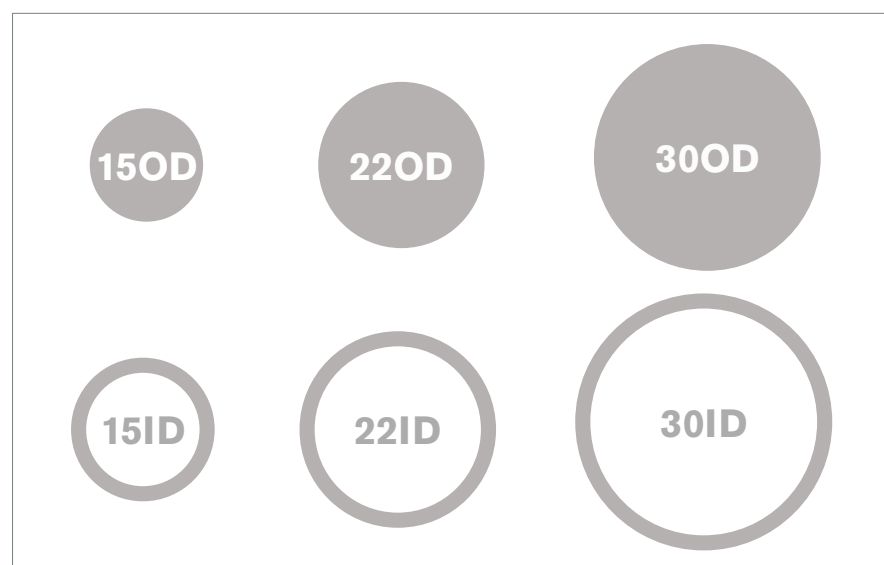
	
Code	19296000
Box Qty.	50

Push and Twist

All of our tapers and connections are manufactured to meet the relevant BS, ISO and EN Standards ensuring a secure gas tight fit when using a simple push and twist action.



Actual size connectors sizing guide



For more connector options see our website www.intersurgical.com

www.intersurgical.com/info/push-twist



Oxygen and Aerosol Therapy

A range of products for fixed and variable concentration oxygen therapy, aerosol (humidification) therapy and nebulization therapy.

Oxygen Therapy	76
Aerosol Therapy	86
Nebulizer Therapy	89



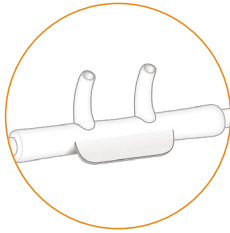
Oxygen Therapy



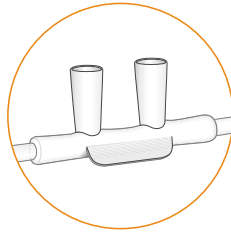
Nasal cannulas

Conventional nasal cannulas

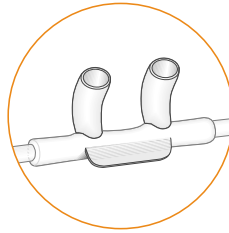
A range of products for adult, pediatric and neonates are available with a wide selection of prong shapes to suit most patient requirements. All oxygen tubing in the range is manufactured in a 'multi-channel' design, which permits oxygen flow even if the tubing is 'kinked'. The ear guard option includes soft silicone foam cushions, which are easily adjusted and securely fitted to prevent trauma to the patient's ears.



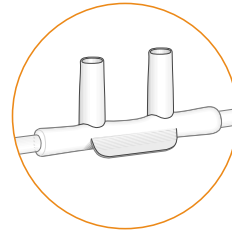
Curved prongs:
Improved anatomical shape and fit



Flared prongs:
Slow down the flow of oxygen



Curved and Flared prongs:
Combines the benefits of both



Straight prongs



Curved prongs with ear guards:
Improved anatomical fit and patient comfort

Code	Description	Tube Length	Box Qty.
1161000	Adult, nasal cannula with straight prongs and tube	1.8m	50
1163030	Pediatric, nasal cannula with curved prongs and tube	2.1m	50
1164030	Neonatal, nasal cannula with curved prongs and tube	2.1m	50
1165002	Adult, nasal cannula with curved prongs, ear guards and tube	2.1m	50
1165000	Adult, nasal cannula with curved prongs and tube	1.8m	50
1166000	Adult, nasal cannula with flared prongs and tube	1.8m	50
1167000	Adult, nasal cannula with curved/flared prongs and tube	1.8m	50

Phthalate-free nasal cannulas

The phthalate-free range of nasal cannulas has been designed to address the concerns of neonatal exposure to DEHP in premature infants and newborns requiring intensive care in a neonatal unit.



www.intersurgical.com/info/phthalates



Code	Description	Tube Length	Box Qty.
1160030	Premature, nasal cannula with curved prongs and tube	2.1m	50
1160031	Neonatal, nasal cannula with curved prongs and tube	2.1m	50
1160032	Infant, nasal cannula with curved prongs and tube	2.1m	50



Phthalate free pediatric, infant and neonatal options

Reduce the pressure

Intersurgical has two products to reduce the occurrence of pressure ulcers on the ear

Intersurgical EcoLite™ oxygen masks



Intersurgical EcoLite™ oxygen masks featuring:

- Under ear elastic position eliminates trauma to top of ears
- Soft face seal
- Light weight

Nasal cannula with ear guards



Nasal cannula with ear guards featuring:

- Soft silicone foam cushions
- Easily adjustable
- Securely fitted
- Non-allergenic

For a sample and further information visit www.intersurgical.com/info/reducethepressure

Intersurgical EcoLite™ adult medium concentration oxygen mask

Welcome to the Comfort Zone

The unique design and materials used to manufacture the Intersurgical EcoLite mask provides improved patient comfort and a reduced environmental impact.

Comfortable for the Patient

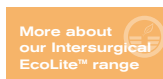
Improved patient comfort has been key to the development of the Intersurgical EcoLite mask. The latest manufacturing technology has enabled us to combine two non-PVC materials in the same product. The polypropylene material forming the body of the Intersurgical EcoLite mask is clear, lightweight and rigid enough to maintain the mask's shape. The second softer thermoplastic elastomer (TPE) material is utilized in the seal which is in contact with the patient's face.



illustrated

Comfortable for the Environment

The Intersurgical EcoLite mask is an important part of our Eco range, designed as part of our ongoing focus on sustainable development. The use of PVC in medical products has been questioned and its impact on the environment. The utilization of alternative materials has resulted in the elimination of PVC from the Intersurgical EcoLite mask, reducing the environmental impact.



www.intersurgical.com/info/IntersurgicalEcoLite

Video available at www.intersurgical.com

Incurved nose seal

Conforms to different nose shapes designed to prevent oxygen entering patient's eyes

No metal nose clip

MRI compatible

Exhalation Ports

Designed to minimize the amount of rebreathed carbon dioxide

Lighter

50% lighter than a PVC mask, more comfortable for the patient



Soft face seals

Increases patient comfort

Elastic can be positioned under or over the ears

Below ear position eliminates trauma to top of ears



A choice of "under chin" or "on chin" positions

Provides a better fit on a wider range of patient face shapes

Code	Description	Tube length	Box Qty.	
1136015	Intersurgical EcoLite, adult, medium concentration oxygen mask		55	
1135015	Intersurgical EcoLite, adult, medium concentration oxygen mask with tube	2.1m	40	
11366100	Intersurgical EcoLite, adult, medium concentration oxygen mask with Universal Connector tube	1.8m	30	

Lower environmental impact product

Pediatric medium concentration oxygen mask

The Intersurgical EcoLite™ is one of the lightest and most comfortable pediatric masks available. Every aspect of the design has been addressed, achieving unparalleled levels of comfort and fit. Not only comfortable for the patient but also comfortable for the environment.

The elimination of PVC from the masks has dramatically lowered their environmental impact.



illustrated

Code	Description	Tube length	Box Qty.
1190015	Intersurgical EcoLite, pediatric, medium concentration oxygen mask		42
11906100	Intersurgical EcoLite, pediatric, medium concentration oxygen mask with Universal Connector tube	1.8m	40
1196015	Intersurgical EcoLite, pediatric, medium concentration oxygen mask with tube	2.1m	40

Sentri™ ETCO₂ mask

The Sentri Mask is an adult, medium concentration Intersurgical EcoLite oxygen mask with a Luer lock connector enabling the connection of a monitoring line, the other end of which is connected to a capnometer. The Sentri mask is used for measuring end-tidal CO₂ (ETCO₂) in expired gases while supplying oxygen to the patient.



illustrated



us.intersurgical.com/info/Sentri



CO₂ monitoring line for Microstream® (Oridion®) capnography with filter, 2.1m

Code	Description	Tube length	Box Qty.
1141015	Sentri, Intersurgical EcoLite, adult, mask with tube	2.1m	30
11416500	Sentri, Intersurgical EcoLite, adult, mask with CO ₂ monitoring line for Microstream® (Oridion®) capnography with filter and tube	2.1m	25
1142015	Sentri, Intersurgical EcoLite, adult, mask with CO ₂ monitoring line and tube	2.1m	30
11426100	Sentri, Intersurgical EcoLite, adult, mask with CO ₂ monitoring line with Universal Connector tube	1.8m	30
1143015	Sentri, Intersurgical EcoLite, adult, mask with CO ₂ monitoring line, filter and tube	2.1m	30
11436100	Sentri, Intersurgical EcoLite, adult, mask with CO ₂ monitoring line, filter and Universal Connector tube	2.1m	30
93716000	CO ₂ Sampling Line for Microstream (Oridion) capnography w/filter and tube	2.1m (7ft)	25


Lower environmental impact product

Oridion and Microstream are registered trademarks of Oridion Medical 1987 Ltd.

FiltMask™

The FiltMask combines an oxygen delivery system with a filter media covering the exhalation ports. FiltMask is intended for use on patients who may be a source of aerosolized infectious pathogens and who also require supplementary oxygen.







Code	Description	Tube length	Box Qty.
1145000	FiltMask, Eco, adult, medium concentration oxygen mask with tube	2.1m	15 

High concentration oxygen mask

Adult and pediatric high concentration oxygen masks. The Intersurgical EcoLite™ adult mask design is both comfortable for the patient and seals on the patient's face, which results in higher oxygen concentrations as less ambient air enters the mask.



 illustrated

Code	Description	Tube length	Box Qty.
 1181015	Intersurgical EcoLite, adult, high concentration oxygen mask with tube	2.1m	24 
11816100	Intersurgical EcoLite, adult, high concentration oxygen mask with Universal Connector tube	1.8m	20 
11926000	Pediatric, high concentration oxygen mask with tube	2.1m	50

Silente™ venturi mask kit

The Silente has been designed to operate at a very low noise level. The large diameter body provides space for clear, widely spaced calibration and incorporates a “pull-twist” action to prevent accidental adjustment.

The concentration delivered is unaffected by the patient’s breathing pattern provided that the optimum flow indicated on the valve is set on the oxygen flow meter.



illustrated

Incurved nose seal

Conforms to different nose shapes designed to prevent oxygen from entering the patient’s eyes

Large, well spaced calibration settings

Easy to read, minimizes errors

Pull-Twist controls

Prevent inadvertent adjustment

One piece design

No parts to change or lose

Extremely quiet

Much improved patient environment

Accurate oxygen concentrations

Soft face seals

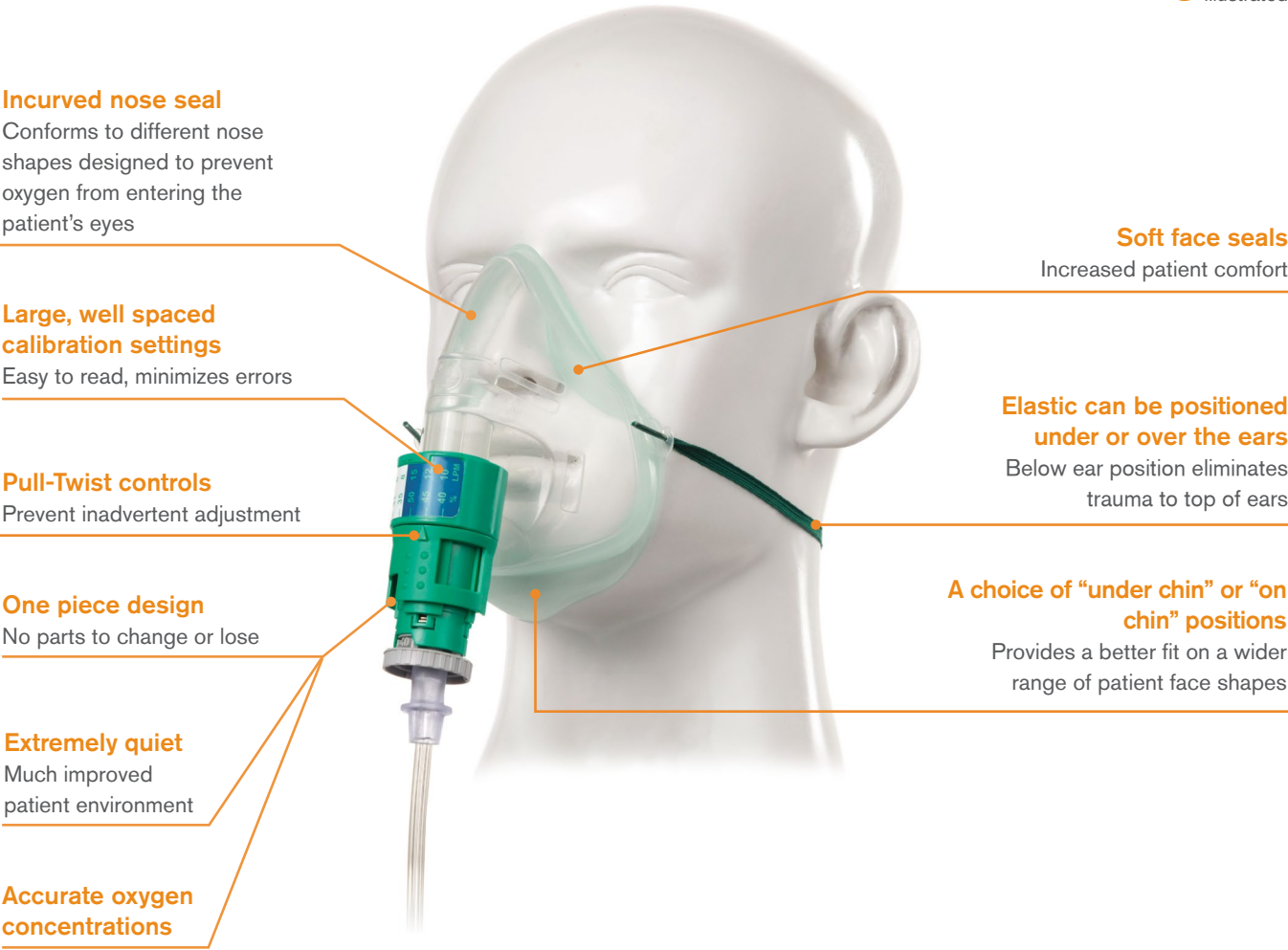
Increased patient comfort

Elastic can be positioned under or over the ears

Below ear position eliminates trauma to top of ears

A choice of “under chin” or “on chin” positions

Provides a better fit on a wider range of patient face shapes




Code	Description	Tube length	Box Qty.
1137015	Silente, Intersurgical EcoLite™, adult, adjustable venturi mask kit with tube	1.8m	30
11376100	Silente, Eco, adult, adjustable venturi mask kit with Universal Connector tube	1.8m	50
1138015	Silente, Intersurgical EcoLite, pediatric, adjustable venturi mask kit with tube	1.8m	40
11386100	Silente, Intersurgical EcoLite, pediatric, venturi mask kit with Universal Connector tube	1.8m	30
1139030	Silente, adjustable venturi, valve only		50





MultiOx™ venturi mask kits

The MultiOx provides a lower cost option when compared to the Silente range while maintaining the same levels of accuracy.

The concentration delivered is unaffected by the patient's breathing pattern provided that the optimum flow indicated on the valve is set on the oxygen flow meter.



 illustrated

	Code	Description	Tube length	Box Qty.	
	1117015	MultiOx, Intersurgical EcoLite™, adult, adjustable venturi mask kit with tube	1.8m	80	
	11176100	MultiOx, Intersurgical EcoLite, adult, adjustable venturi mask kit with Universal Connector tube	1.8m	50	
	1118005	MultiOx, Intersurgical EcoLite, pediatric, adjustable venturi mask kit with tube	1.8m	40	

Venturi valves

A comprehensive range of Venturi valves available individually. These products are color-coded for easy identification.

The flow printed on the valves ensures that the patient receives a total flow of approximately 40 L/min. This is designed to meet the patients normal peak flow requirements.



	Code	Description	Case Qty.
	0060000	Venturi valve 60% oxygen, green	200
	0070000	Venturi valve 50% oxygen, pink	200
	0040000	Venturi valve 40% oxygen, red	200
	0035000	Venturi valve 35% oxygen, yellow	200
	0031000	Venturi valve 31% oxygen, orange	200
	0028000	Venturi valve 28% oxygen, white	200
	0024000	Venturi valve 24% oxygen, blue	200















Lower environmental impact product

Venturi valve mask kits

A comprehensive range of venturi valve mask kits that provide an unprecedented level of comfort and a reduced environmental impact.




 illustrated

	Code	Description	Box Qty.	
	1060085	Intersurgical EcoLite™, adult, oxygen mask with 60% venturi valve, green	40	
	1040085	Intersurgical EcoLite, adult, oxygen mask with 40% venturi valve, red	40	
	1035085	Intersurgical EcoLite, adult, oxygen mask with 35% venturi valve, yellow	40	
	1031085	Intersurgical EcoLite, adult, oxygen mask with 31% venturi valve, orange	40	
	1028085	Intersurgical EcoLite, adult, oxygen mask with 28% venturi valve, white	40	
	1024085	Intersurgical EcoLite, adult, oxygen mask with 24% venturi valve, blue	40	

Intersurgical EcoLite adult venturi mask kit

A complete kit comprised of six valves, an adult Intersurgical EcoLite aerosol mask, oxygen tube and humidification cup. The flow rate printed on the valves ensures that the patient receives a total flow of approximately 40 L/min. This is designed to meet the patient's normal peak flow requirements.




	Code	Description	Box Qty.	
	1107085	Intersurgical EcoLite, adult, venturi mask kit	25	

Oxygen tubing

A non-PVC version is available which provides an environmentally friendly choice.

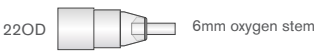


 illustrated


Code	Description	Length	Box Qty.
1174010	Non-PVC, oxygen tube	2.1m	100 
 1174030	Oxygen tube	2.1m	50

Oxygen tube connectors

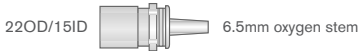
Straight oxygen connectors, with 6mm and 6.5mm oxygen stems.



Code	1968000
Case Qty.	200



Code	1568000
Case Qty.	160



Code	1974000
Case Qty.	180




Aerosol Therapy






Intersurgical EcoLite™ aerosol face masks

Intersurgical EcoLite aerosol masks are available in pediatric and adult sizes and are made from non-PVC materials, as part of our Eco range.



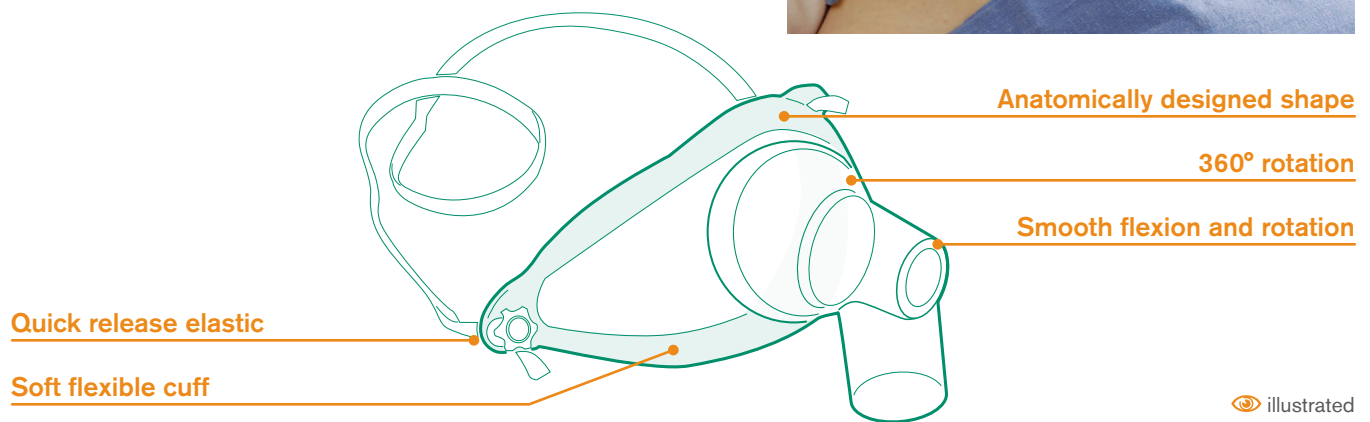
 illustrated

	Code	Description	Connectors	Box Qty.	
	1188015	Intersurgical EcoLite, adult, aerosol mask	22OD	50	
	1198015	Intersurgical EcoLite, pediatric, aerosol mask	22OD	42	



Tracheostomy masks and T-pieces

A high quality, lightweight mask with a quick-release elastic for ease of use.

Because we don't use any PVC, the environmental impact of the Intersurgical EcoLite adult tracheostomy mask is significantly less than conventional masks, in fact 82% less.



 illustrated

	Code	Description	Connectors	Box Qty.	
	1200050	Intersurgical EcoLite, adult, tracheostomy mask	22OD	30	
	1206000	Pediatric, tracheostomy mask	22OD	35	
	1980000	Tracheostomy T-piece	22OD – 22OD – 22OD/15ID	100*	
	1984000	Tracheostomy T-piece with 7.6mm port	22OD – 22OD – 22OD/15ID	100*	

*Case Qty.

 Lower environmental impact product

Aerosol therapy accessories

A range of accessories for aerosol therapy



Code	Description	Connectors	Case Qty.
1966001	Straight connector	22OD – MDI port away from patient – 22OD	100
1964001	Straight connector	22OD – MDI port away from patient – 22ID	100
1947001	Straight connector	15OD – MDI port away from patient – 15ID	100
1947003	Straight connector	15OD – MDI port towards patient – 15ID	100
19536000	Anti-pollution T-piece directional valve	22ID – 22OD – 22OD	50*

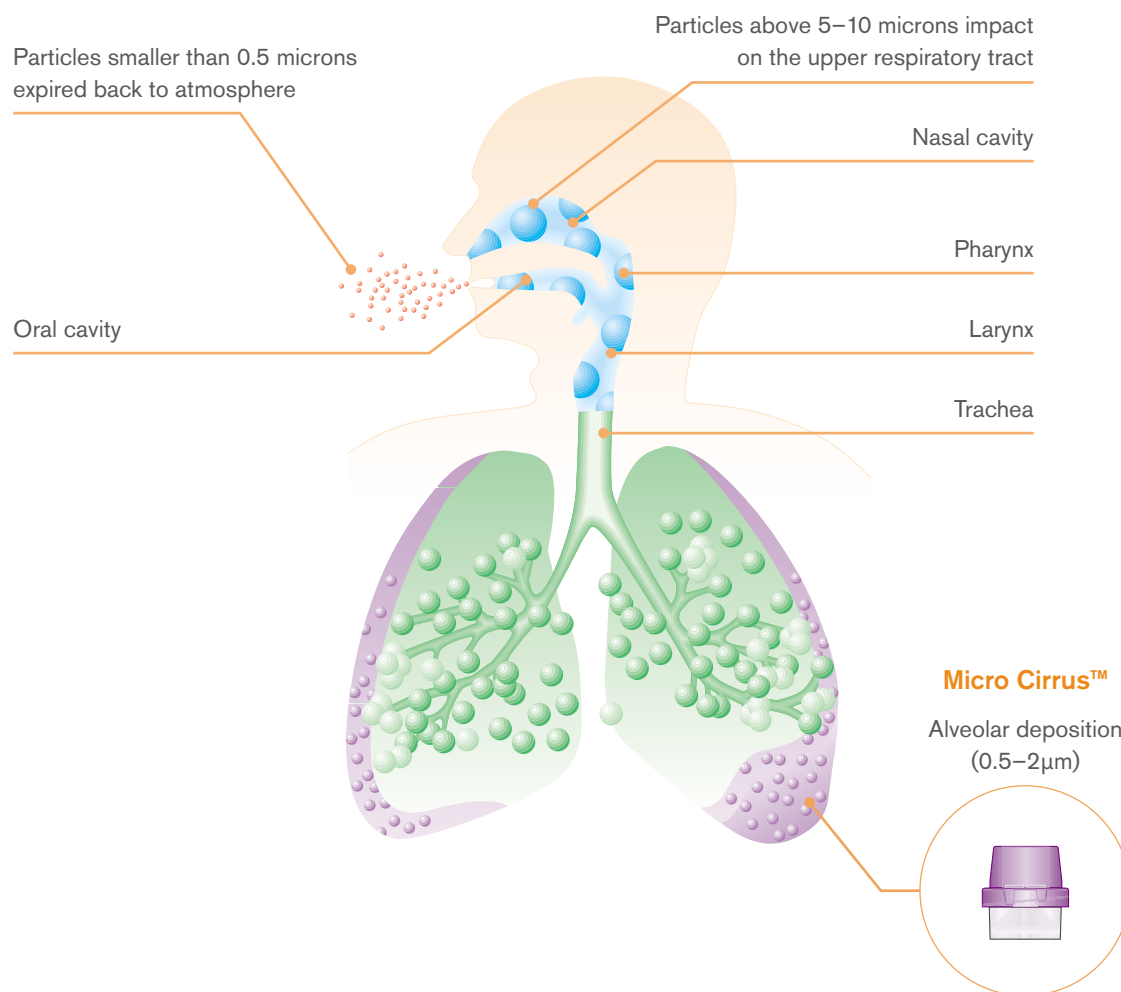
*Box Qty.



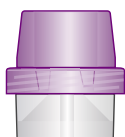
Nebulizer Therapy



Choosing a nebulizer



Alveolar deposition



Micro Cirrus nebulizer


The Micro Cirrus has been specifically designed to create a small particle aerosol with a MMD of 1.2 microns


At a driving gas flow of 8 L/min
90% of the particles will be less than 2 microns in diameter

Micro Cirrus™ nebulizer and nebulizer kits

The Micro Cirrus nebulizer has been specifically designed to create a small particle aerosol with a Mass Median Diameter of 1.2 microns. At a driving gas flow of 8 L/min 90% of the particles will be less than 2 microns in diameter to give alveolar deposition.



 illustrated

Code	Description	Tube Length	Box Qty.
15036000	Micro Cirrus nebulizer		50
 14176000	Micro Cirrus nebulizer anti-pollution kit with mouthpiece, filter and oxygen tube	2.1m	20

Mouthpieces

Three mouthpieces are available for use with the Micro Cirrus nebulizer.



1477003



1931000



1930030

Code	Description	Connectors	Box Qty.
1477003	Nebulizer angled mouthpiece	22OD – 22OD – mouthpiece	75
1931000	Straight mouthpiece	22ID – mouthpiece	140*
1930030	Straight mouthpiece	22OD – mouthpiece	200*

T-pieces

The two T-pieces used in our 22mm and 15mm breathing system kits are available individually to allow Micro Cirrus™ to be adapted for use within a breathing system.



18006000



19866000

Code	Description	Connectors	Box Qty.
18006000	T-piece	15OD – 15ID – 22OD	50
19866000	T-piece	22OD/15ID – 22ID – 22OD	50

*Case Qty.

Code	Page	Code	Page	Code	Page	Code	Page	Code	Page	
0		1139030	82	1344711S	23	1873000	27	1946000	72	
		1141015	80	14176000	91	1874030	27	1947001	72, 88	
	0024000	83	11416500	80	1441030	32	1875000	28	1947003	72, 88
	0028000	83	1142015	80	1477003	71, 91	1875000S	28	1947000	72
	0031000	83	11426100	80	15036000	91	1875001	28	1948030	72
	0035000	83	1143015	80	1514000	36	1875001S	28	19496000	72
	0040000	83	1145000	81	1515000	36	1891000	18	1950000	73
	0060000	83	1160030	77	1516000	36	1893000	18	1952000	73
	0070000	83	1160031	77	1517000	36	1897000	18	19536000	88
1		1160032	77	15146000	40	1898000	18	19546000	73	
		1161000	77	15156000	40	1899000	18	19596000	73	
	10006000	9	1163030	77	15166000	40	1900000	74	19606000	71
	1024085	84	1164030	77	15176000	40	1901000	74	1961000	71
	1028085	84	1165000	77	1526000	41	19026000	74	1962000	72
	1031085	84	1165002	77	1541000	32	1903000	74	1963000	71
	1035085	84	1166000	77	15416500	32	1906000	30	1964000	71
	1040085	84	1167000	77	1544000	24	1911030	62	1964001	72, 88
	1060085	84	1174010	85	1560000	29	1912030	62	19656000	71
	11006000	9	1174030	85	15606500	29	1915000	62	1966000	71
	1107085	84	1181015	81	1568000	71, 85	1916000	62	1966001	72, 88
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	1111030	9	1188015	87	1690000	25, 69	1927000	74	1968000	71, 85
	1111031	9	1190015	80	1701000	72	19296000	74	1969000	71
	1112030	9	11906100	80	1702000	72	1930030	71, 91	1970000	46, 69, 71
	1113030	9	11926000	81	17036000	72	1931000	71, 91	1971000	46, 71
	1114030	9	1196015	80	1704000	72	1933000	71	1974000	72, 85
	1115030	9	1198015	87	17056000	72	1937000	71	19756000	46, 71
	1117015	83	1200050	87	17066000	72	1938000	71	1978000	46, 61, 71
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	1118005	83	1331000S	31	1790000	26	19416500	30	1980000	73, 87
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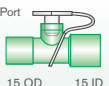
15mm Straight Connectors



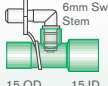
15 OD 15 OD
Code: 1945000




15 OD 15 ID
Code: 1946000




7.6mm Port
15 OD 15 ID
Code: 19476000




6mm Swivel Stem
15 OD 15 ID
Code: 1948030




15 ID 15 ID
Code: 19496000




15 OD 22 OD
Code: 1943000



15 OD 22 ID
Code: 1962000



15 ID 22 ID
Code: 1979000



Luer Port and Cap
15 OD 15 ID
Code: 2712030

Elastomeric Connectors



For 6-9mm Spigot
15 ID
Code: 1702000



For 9-11mm Spigot
15 ID
Code: 17036000



For 22mm lipped or non ISO connectors
22 ID
Code: 1704000



For 22mm lipped or non ISO connectors
22 ID
Code: 17066000




For 22mm lipped or non ISO connectors
22 ID
Code: 17056000




For 22mm lipped or non ISO connectors
22 ID 15 ID
Code: 1701000

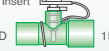
MDI Connectors



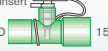
MDI Insert
22 OD 22 OD
Code: 1966001



MDI Insert
22 OD 22 ID
Code: 1964001




MDI Insert
15 OD 15 ID
Code: 1947003

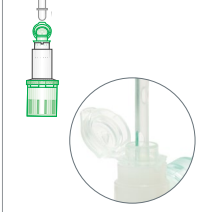


MDI Insert
15 OD 15 ID
Code: 1947001

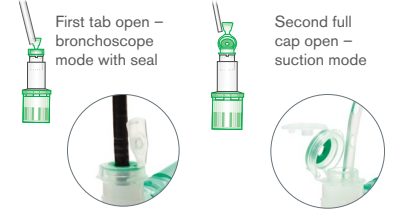
Ports and Caps Guide



Luer ports
For secure attachment of gas sampling and proximal pressure 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


22mm Straight Connectors




22 OD 22 OD
Code: 19606000



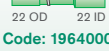
22 OD 22 ID
Code: 1961000




7.6mm port
22 OD 22 OD
Code: 1966000




6mm Swivel Stem
22 OD 22 OD
Code: 19656000



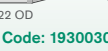
22 OD 22 ID
Code: 1964000




22 OD 22 OD/15 ID
Code: 1969000



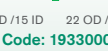
22 ID 22 ID
Code: 1967000



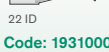
Mouthpiece
22 OD
Code: 1930030



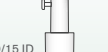
Mouthpiece
22 OD
Code: 1477003




22 OD/15 ID 22 OD/15 ID
Code: 1933000



Angled mouthpiece
22 OD/15 ID
Code: 1931000



Angled mouthpiece
22 OD/15 ID
Code: 1938000



Angled mouthpiece
15 OD
Code: 1937000


Swivel Elbows



Flip top cap with 7.6mm port
15 OD Swivel 22 OD/15 ID Swivel
Code: 1899000




15 OD Swivel 22 OD/15 ID Swivel
Code: 1897000




Double 'Flip top cap with seal
15 OD Swivel 22 OD/15 ID Swivel
Code: 1898000

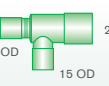
T-Pieces




15 OD 15 ID 15 ID
Code: 1802000




15 OD 15 ID 22 OD
Code: 1800000




15 OD 22 OD 15 OD
Code: 1988000




15 OD 22 OD 22 OD
Code: 1989000




22 OD 15 ID 22 OD
Code: 19596000




22 OD/15 ID 22 ID 22 ID
Code: 1983000




22 OD 22 ID 22 OD
Code: 1981000



22 OD 22 ID 22 OD/15 ID
Code: 19856000




22 OD 22 ID 22 ID
Code: 1982000




22 OD/15 ID 22 ID 22 ID
Code: 19866000


Oxygen Connectors & Adaptors




22 OD 6mm Oxygen Stem
Code: 1968000



6mm Oxygen Stem 22 ID
Code: 1568000




6.5mm Oxygen Stem
15 ID/22 OD Swivel
Code: 1974000




6mm swivel system
22 OD 22 ID
Code: 1963000

Tracheostomy T-Pieces




7.6mm Port
22 OD 22 OD 22 OD/15 ID
Code: 1984000




22 OD 22 OD 22 OD/15 ID
Code: 1980000

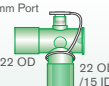
Fixed Elbows



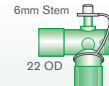
15 OD 22 OD/15 ID
Code: 1997000




Flip top cap with 7.6mm port
15 OD 22 OD/15 ID
Code: 1993000




7.6mm Port
22 OD 22 OD/15 ID
Code: 1995000




6mm Stem
22 OD 22 OD/15 ID
Code: 1990000




7.6mm Port
22 ID 22 OD/15 ID Swivel
Code: 1893000



22 ID 22 OD
Code: 1992000

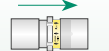


6mm Stem
22 ID 22 OD
Code: 19916000

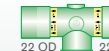


7.6mm Port
22 ID 22 ID
Code: 1891000


Directional Valves




22 OD 22 OD
Code: 1950000



22 OD 22 OD 22 OD/15 ID
Code: 19546000




22 OD 22 ID 22 OD
Code: 19536000




22 OD 22 ID 22 OD
Code: 1952000




Y-Pieces




22 OD 22 OD 22 OD/15 ID
Code: 1900000




22 OD 7.6mm port 22 OD/15 ID
Code: 1901000




22 OD Swivel Luer Lock Port 22 OD Swivel 22 OD/15 ID Swivel
Code: 19296000




15 OD 15 OD 15 ID
Code: 19026000



15 OD 7.6mm ports 22 OD/15 ID
Code: 1903000




22 OD 7.6mm ports 22 OD/15 ID
Code: 1927000




22 OD 22 OD 22 OD/15 ID
Code: 19266000


Scavenging Connectors



22 OD 19 OD
Code: 19756000




22 OD 30 OD
Code: 1970000




22 OD 30 ID
Code: 1971000


Monitoring Connectors



Luer Port & Cap
15 OD 22 OD/15 ID
Code: 2714000




Female Luer Fitting
Code: 27106000




Luer Port & Cap
15 OD 22 OD/15 ID
Code: 2713030


Superset Tube Catheter Mounts




22 ID 22 OD/15 ID
Code: 3504000S*




22 ID 22 OD/15 ID
Code: 3502000




Flip top cap with 7.6mm port
22 ID 22 OD/15 ID
Code: 3520000




Double Flip top cap with seal. Covers 7.6mm and 9.5mm applications
22 ID 22 OD/15 ID
Code: 3521000




22 ID 22 OD/15 ID
Code: 3512000



Luer port and cap
22 ID 22 OD/15 ID
Code: 3514031




22 ID 15 ID
Code: 91236000




7.6mm Port
15 OD 15 ID
Code: 3532000


Flexible Tube Catheter Mounts



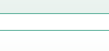
22 ID 22 OD/15 ID
Code: 3511000



Double Flip top cap with seal. Covers 7.6mm and 9.5mm applications
22 ID 22 OD/15 ID
Code: 3505000



22 ID 22 OD/15 ID Swivel
Code: 3506000



Flip top cap with 7.6mm port
22 ID 22 OD/15 ID Swivel
Code: 3516000

Size Selection Chart

15 OD

22 OD

30 OD

15 ID

22 ID

30 ID



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