

# EC Certificate - Full Quality Assurance System

Directive 93/42/EEC on Medical Devices, Annex II excluding Section 4

**No.****CE 661325****Issued To:**

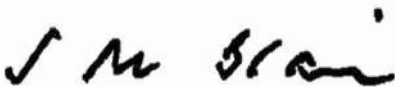
**Smiths Medical International Ltd.**  
**Boundary Road**  
**Hythe**  
**Kent**  
**CT21 6JL**  
**United Kingdom**

In respect of:

**See certificate scope page.**

on the basis of our examination of the quality assurance system under the requirements of Council Directive 93/42/EEC, Annex II excluding section 4. The quality assurance system meets the requirements of the directive. For the placing on the market of class III products an Annex II section 4 certificate is required.

For and on behalf of BSI, a Notified Body for the above Directive (Notified Body Number 0086):



Stewart Brain, Head of Compliance & Risk -  
Medical Devices

First Issued: **2017-06-28**

Date: **2017-06-28**

Expiry Date: **2022-06-27**

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Page 1 of 2

Validity of this certificate is conditional on the quality system being maintained to the requirements of the Directive as demonstrated through the required surveillance activities of the Notified Body. This approval excludes all products designed and/or manufactured by a third party on behalf of the company named on this certificate, unless specifically agreed with BSI.

This certificate was issued electronically and is bound by the conditions of the contract.

Certificate No: CE 661325

## Certificate Scope:

**The design, development and manufacture of sterile:**

**Breathing Systems, Drainage Devices, Feeding Devices, Filtration Devices for Breathing Circuits, Infusion Disposables, Intubation Systems, Obstetrics and Gynaecology Sampling Devices, Oxygen and Humidity Management Devices, Pressure Monitoring Accessories, Resuscitation Devices, Suction Catheters, Tracheostomy Tubes, Vascular Access Devices**

**The design, development and manufacture of non-sterile:**

**Breathing Systems, Intubation Systems, Resuscitation Devices, Gynecologic Pessaries, Tracheostomy Tubes, Oxygen and Humidity Management Devices**

First Issued: **2017-06-28**Date: **2017-06-28**Expiry Date: **2022-06-27**

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Page 2 of 2

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# EC Certificate - Full Quality Assurance System

Directive 93/42/EEC on Medical Devices, Annex II excluding Section 4

## List of Significant Subcontractors

Recognised as being involved in services relating to the product covered by:

Certificate No: **CE 661325**  
 Date: **2017-06-28**  
 Issued To: **Smiths Medical International Ltd.**  
**Boundary Road**  
**Hythe**  
**Kent**  
**CT21 6JL**  
**United Kingdom**

Subcontractor:	Service(s) supplied
Brightwake Limited Lowmoor Business Park Kirkby-in-Ashfield Nottinghamshire NG17 7JZ United Kingdom	Manufacture
GaleMed Corporation No. 87, Li-Gong 2nd Road Wu-Jia YILAN 268 Taiwan	Manufacture
GE Medical Pollards Wood Nightingales Lane Chalfont Saint Giles HP8 4SP United Kingdom	Manufacture

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**Kent**  
**CT21 6JL**  
**United Kingdom**

Subcontractor:	Service(s) supplied
Koo Medical Equipment (Shanghai) Co., Ltd 100 Zhongde Road Dakun Industrial Park Songjiang, Shanghai 201614 China	Manufacture
Pentair Filtration Solutions 1350 Hammond Road St. Paul Minnesota 55110 USA	Crucial Supplier
Quadrant EPP Belgium N.V. Industriepark Noord Robert Tavernierlaan 2 Tielt 8700 Belgium	Manufacture

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**Hythe**  
**Kent**  
**CT21 6JL**  
**United Kingdom**

### Subcontractor:

### Service(s) supplied

Smiths Healthcare Manufacturing  
 SA de CV  
 Avenida Calidad No.4  
 Parque, Industrial Internacional  
 Tijuana  
 22425  
 Mexico

**Manufacture**

Smiths Healthcare Manufacturing  
 SA de CV  
 Carretera Miguel Alemán Km 21.7  
 Parque Industrial Monterrey  
 Apodaca  
 Nuevo León  
 66603  
 Mexico

**Manufacture**

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# EC Certificate - Full Quality Assurance System

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**Hythe**  
**Kent**  
**CT21 6JL**  
**United Kingdom**

Subcontractor:	Service(s) supplied
Smiths Medical ASD Inc. 10 Bowman Dr. Keene New Hampshire 03431 USA	Manufacture
Smiths Medical ASD Inc. 1265 Grey Fox Road St Paul Minnesota 55112 USA	Manufacture
Smiths Medical ASD Inc. 201 West Queen St., Southington Connecticut 06489 USA	Manufacture

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**Boundary Road**  
**Hythe**  
**Kent**  
**CT21 6JL**  
**United Kingdom**

Subcontractor:	Service(s) supplied
Smiths Medical ASD Inc. 6250 Shier Rings Road Dublin Ohio 43016 USA	Manufacture
Smiths Medical ASD Inc. 9124 Polk Lane, Suite 101 Olive Branch Mississippi 38654 USA	Distribution
Smiths Medical Czech Republic a.s. Olomoucká 306 753 01 Hranice Czech Republic	Manufacture

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**Hythe**  
**Kent**  
**CT21 6JL**  
**United Kingdom**

Subcontractor:	Service(s) supplied
Smiths Medical Gary 5700 W 23rd Ave Gary Indiana 46406 USA	Manufacture
Smiths Medical International Ltd 52 Grayhill Rd Cumbernauld Glasgow G68 9HQ United Kingdom	Manufacture
Smiths Medical International Nijmegen Bijsterhuizen 22-08 6604 LD Wijchen The Netherlands	Distribution

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# EC Certificate - Full Quality Assurance System

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**Boundary Road**  
**Hythe**  
**Kent**  
**CT21 6JL**  
**United Kingdom**

Subcontractor:	Service(s) supplied
Smiths Medical Italia Srl Via della Stazione, 2 Latina Scalo 04100 Italy	Packaging
Sterigenics Belgium (Petit-Rechain) SA Zoning Industriel de Petit-Rechain Avenue Andre Ernst 21 B-4800 Verviers Belgium	ETO Sterilization
Sterigenics UK Limited Cotes Park Estate Somercoates Alfreton DE55 4NJ United Kingdom	ETO Sterilization

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# EC Certificate - Full Quality Assurance System

Directive 93/42/EEC on Medical Devices, Annex II excluding Section 4

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**Boundary Road**  
**Hythe**  
**Kent**  
**CT21 6JL**  
**United Kingdom**

Subcontractor:	Service(s) supplied
Sterigenics US, LLC 344 Bonnie Circle Corona California 92880 USA	Gamma Sterilization
Sterigenics, LLC 1700 College Blvd. West Memphis Arkansas 72301 USA	Gamma Sterilization
Sterilization Services of Tennessee, Inc 2396 Florida Street Memphis Tennessee 38109 USA	ETO Sterilization

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**Boundary Road**  
**Hythe**  
**Kent**  
**CT21 6JL**  
**United Kingdom**

**Subcontractor:****Service(s) supplied**

STERIS ISOMEDIX Services, Inc  
7685 Saint Andrews Avenue  
San Diego  
California 92154  
USA

**ETO Sterilization**

UPG  
Avenida La Cuspide #1  
Parque Industrial Tecnomex  
Del. Playas de Tijuana  
Tijuana  
Baja California  
22700  
Mexico

**Manufacture**

Velcro USA Inc.  
95 Sundial Avenue  
Manchester  
New Hampshire  
03103-7206  
USA

**Crucial Supplier**

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# EC Certificate - Full Quality Assurance System

## Certificate History

Certificate No: **CE 661325**  
Date: **2017-06-28**  
Issued To: **Smiths Medical International Ltd.**  
**Boundary Road**  
**Hythe**  
**Kent**  
**CT21 6JL**  
**United Kingdom**

Date	Reference Number	Action
Current	8603100 8603169	First issue. Transferred from another Notified Body. Certificate renewal.

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Page 1 of 1

Validity of this certificate is conditional on the quality system being maintained to the requirements of the Directive as demonstrated through the required surveillance activities of the Notified Body. This approval excludes all products designed and/or manufactured by a third party on behalf of the company named on this certificate, unless specifically agreed with BSI.

This certificate was issued electronically and is bound by the conditions of the contract.

# Certificat CE - Sistem Integral de Asigurare a Calitatii

Directiva 93/42/CEE privind dispozitivele medicale, Anexa II excluzand Sectiunea 4

Nr. **CE 661325**  
Titular: **Smiths Medical International Ltd.**  
**Boundary Road**  
**Hythe**  
**Kent**  
**CT21 6JL**  
**Marea Britanie**

Obiect:

**Consultati pagina cu obiectul certificatului.**

pe baza examinarii noastre a sistemului de asigurare a calitatii conform cerintelor Directivei Consiliului 93/42/CEE, Anexa II excluzand Sectiunea 4. Sistemul de asigurare a calitatii indeplineste cerintele Directivei. Pentru lansarea pe piata a produselor din clasa III este necesar certificatul mentionat in Anexa II, Sectiunea 4.

Pentru si in numele BSI, organ de certificare in acceptiunea sus-mentionatei Directive (Organ de certificare cu numarul 0086):



Stewart Brain, Sef compartiment conformitate si risc

Dispozitive medicale

Prima editie: **2017-06-28**

Data: **2017-06-28**

Data expirarii: **2022-06-27**

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Pagina 1 din 2

Valabilitatea prezentului certificat este conditionata de mentinerea sistemului nde calitate la cerintele Directivei dovedita de organul de certificare care supravegheaza compania. Prezenta aprobare exclude toate produsele proiectate si/sau fabricate de o terta parte on in numele companiei care detine prezentul certificat, cu exceptia unui acord contrar, incheiat cu BSI. Prezentul certificat a fost redactat electronic si este conditionat de respectarea caietului de sarcini.

Informatii si contact: BSI, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP. Tel: + 44 345 080 9000 BSI Assurance UK Limited, inregistrata in Anglia sub numarul 7805321 in 389 Chiswick High Road, Londra W4 4AL, UK. A membra a grupului BSI.





Certificat nr.: CE 661325

## Obiectul certificatului:

### Proiectarea, dezvoltarea si fabricatia produselor sterile:

**Sisteme de respiratie, Dispozitive de drenaj, Dispozitive de nutritie, Dispozitive de filtrare pentru Circuite respiratorii, Consumabile pentru perfuzii, Sisteme de intubatie, Dispozitive de prelevare a probelor pentru obstetrica si ginecologie, Dispozitive de gestionare a oxigenului si umiditatii, Accesorii de control al presiunii, Dispozitive de resuscitare, Catetere de absorbtie, Tuburi de traheostomie, Dispozitive de acces vascular**

### Proiectarea, dezvoltarea si fabricatia de produse nesterile:

**Sisteme de respiratie, Sisteme de intubatie, Dispozitive de resuscitare, Supozitoare vaginale, Tuburi de traheostomie, Dispozitive de gestionare a oxigenului si umiditatii**

Prima editie: **2017-06-28**Data: **2017-06-28**Data expirarii: **2022-06-27**

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Pagina 2 of 2

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Assurance UK Limited, inregistrata in Anglia sub numarul 7805321 in 389 Chiswick High Road, Londra W4 4AL, UK. A  
membra a grupului BSI.





# Certificat CE - Sistem Integral de Asigurare a Calitatii

Directiva 93/42/CEE privind dispozitivele medicale, Anexa II excluzand Sectiunea 4

## Lista subcontractantilor majori

Recunoscuti ca participanti la prestatii aferente produsului certificat prin:

Certificat nr.: **CE 661325**  
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 Titular: **Smiths Medical International Ltd.**  
**Boundary Road**  
**Hythe**  
**Kent**  
**CT21 6JL**  
**Marea Britanie**

### Subcontractant:

### Servicii prestate

Brightwake Limited  
 Lowmoor Business Park  
 Kirkby-in-Ashfield  
 Nottinghamshire  
 NG17 7JZ  
 Marea Britanie

**Fabricatie**

GaleMed Corporation  
 Nr. 87, Li-Gong 2nd Road  
 Wu-Jia  
 YILAN 268  
 Taiwan

**Fabricatie**

GE Medical  
 Pollards Wood  
 Nightingales Lane  
 Chalfont Saint Giles  
 HP8 4SP  
 Marea Britanie

**Fabricatie**

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# Certificat CE - Sistem Integral de Asigurare a Calitatii

Directiva 93/42/CEE privind dispozitivele medicale, Anexa II excluzand Sectiunea 4

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Titular: **Smiths Medical International Ltd.**  
**Boundary Road**  
**Hythe**  
**Kent**  
**CT21 6JL**  
**Marea Britanie**

### Subcontractant:

### Servicii prestate

Koo Medical Equipment (Shanghai)  
Co., Ltd  
100 Zhongde Road  
Dakun Industrial Park  
Songjiang, Shanghai 201614  
China

**Fabricatie**

Pentair Filtration Solutions  
1350 Hammond Road  
St. Paul  
Minnesota  
55110  
USA

**Furnizor crucial**

Quadrant EPP Belgium N.V.  
Industriepark Noord  
Robert Tavernierlaan 2  
Tielt  
8700  
Belgia

**Fabricatie**

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# Certificat CE - Sistem Integral de Asigurare a Calitatii

Directiva 93/42/CEE privind dispozitivele medicale, Anexa II excluzand Sectiunea 4

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**Boundary Road**  
**Hythe**  
**Kent**  
**CT21 6JL**  
**Marea Britanie**

### Subcontractant:

### Servicii prestate

Smiths Healthcare Manufacturing  
 SA de CV  
 Avenida Calidad Nr.4  
 Parque, Industrial Internacional  
 Tijuana  
 22425  
 Mexic

**Fabricatie**

Smiths Healthcare Manufacturing  
 SA de CV  
 Carretera Miguel Alemán Km 21.7  
 Parque Industrial Monterrey  
 Apodaca  
 Nuevo León  
 66603  
 Mexic

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# Certificat CE - Sistem Integral de Asigurare a Calitatii

Directiva 93/42/CEE privind dispozitivele medicale, Anexa II excluzand Sectiunea 4

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**Boundary Road**  
**Hythe**  
**Kent**  
**CT21 6JL**  
**Marea Britanie**

### Subcontractant:

### Servicii prestate

Smiths Medical ASD Inc.  
10 Bowman Dr.  
Keene  
New Hampshire  
03431  
USA

**Fabricatie**

Smiths Medical ASD Inc.  
1265 Grey Fox Road  
St Paul  
Minnesota  
55112  
USA

**Fabricatie**

Smiths Medical ASD Inc.  
201 West Queen St.,  
Southington  
Connecticut  
06489  
USA

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# Certificat CE - Sistem Integral de Asigurare a Calitatii

Directiva 93/42/CEE privind dispozitivele medicale, Anexa II excluzand Sectiunea 4

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**Hythe**  
**Kent**  
**CT21 6JL**  
**Marea Britanie**

### Subcontractant:

### Servicii prestate

Smiths Medical ASD Inc.  
 6250 Shier Rings Road  
 Dublin  
 Ohio  
 43016  
 USA

**Fabricatie**

Smiths Medical ASD Inc.  
 9124 Polk Lane, Suite 101  
 Olive Branch  
 Mississippi  
 38654  
 USA

**Distributie**

Smiths Medical Republica Ceha a.s.  
 Olomoucká 306  
 753 01 Hranice  
 Republica Ceha

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# Certificat CE - Sistem Integral de Asigurare a Calitatii

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**Hythe**  
**Kent**  
**CT21 6JL**  
**Marea Britanie**

### Subcontractant:

### Servicii prestate

Smiths Medical Gary  
5700 W 23rd Ave  
Gary  
Indiana  
46406  
USA

**Fabricatie**

Smiths Medical International Ltd  
52 Grayhill Rd  
Cumbernauld  
Glasgow  
G68 9HQ  
Marea Britanie

**Fabricatie**

Smiths Medical International  
Nijmegen  
Bijsterhuizen 22-08  
6604 LD Wijchen  
Olanda

**Distributie**

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# Certificat CE - Sistem Integral de Asigurare a Calitatii

Directiva 93/42/CEE privind dispozitivele medicale, Anexa II excluzand Sectiunea 4

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**Boundary Road**  
**Hythe**  
**Kent**  
**CT21 6JL**  
**Marea Britanie**

### Subcontractant:

### Servicii prestate

Smiths Medical Italia Srl  
Via della Stazione, 2  
Latina Scalo  
04100  
Italia

**Ambalare**

Sterigenics Belgium  
(Petit-Rechain) SA  
Zoning Industriel de Petit-Rechain  
Avenue Andre Ernst 21  
B-4800 Verviers  
Belgium

**Sterilizare ETO**

Sterigenics UK Limited  
Cotes Park Estate  
Somercotes  
Alfreton  
DE55 4NJ  
Marea Britanie

**Sterilizare ETO**

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# Certificat CE - Sistem Integral de Asigurare a Calitatii

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**Hythe**  
**Kent**  
**CT21 6JL**  
**Marea Britanie**

**Subcontractant:****Servicii prestate**

Sterigenics US, LLC  
344 Bonnie Circle  
Corona  
California  
92880  
USA

**Sterilizare cu raze gamma**

Sterigenics, LLC  
1700 College Blvd.  
West Memphis  
Arkansas  
72301  
USA

**Sterilizare cu raze gamma**

Sterilization Services of  
Tennessee, Inc  
2396 Florida Street  
Memphis  
Tennessee 38109  
USA

**Sterilizare ETO**

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# Certificat CE - Sistem Integral de Asigurare a Calitatii

Directiva 93/42/CEE privind dispozitivele medicale, Anexa II excluzand Sectiunea 4

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**Boundary Road**  
**Hythe**  
**Kent**  
**CT21 6JL**  
**Marea Britanie**

### Subcontractant:

### Servicii prestate

STERIS ISOMEDIX Services, Inc  
 7685 Saint Andrews Avenue  
 San Diego  
 California 92154  
 USA

**Sterilizare ETO**

UPG  
 Avenida La Cuspide #1  
 Parque Industrial Tecnomex  
 Del. Playas de Tijuana  
 Tijuana  
 Baja California  
 22700  
 Mexic

**Fabricatie**

Velcro USA Inc.  
 95 Sundial Avenue  
 Manchester  
 New Hampshire  
 03103-7206  
 USA

**Furnizor crucial**

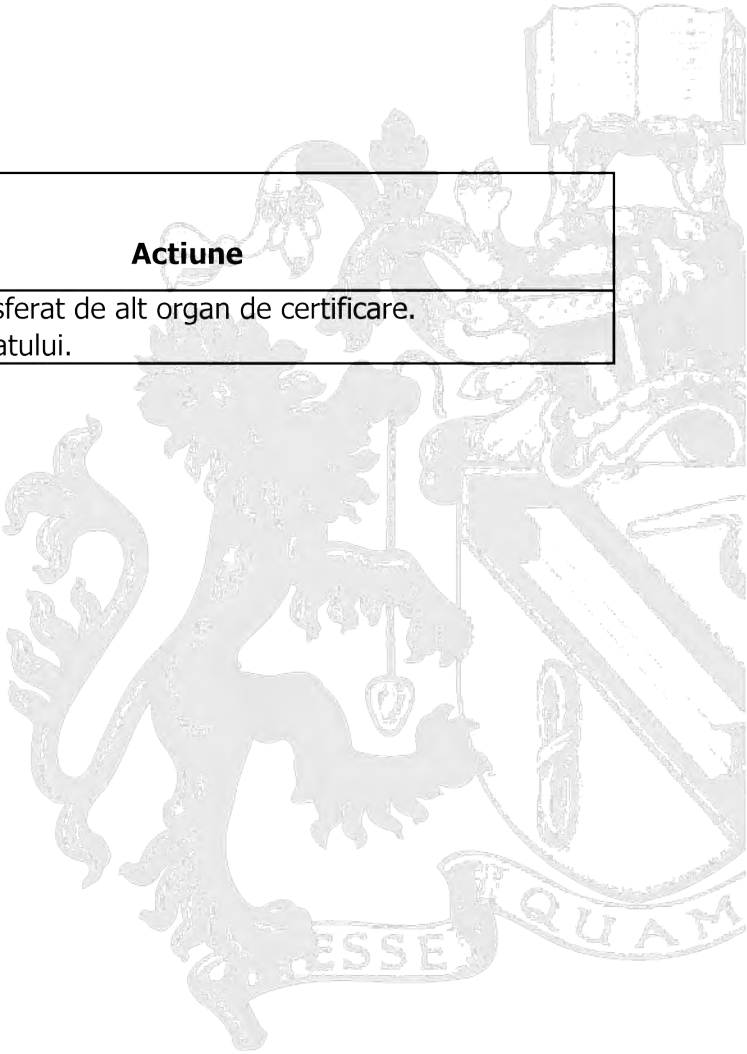
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# Certificat CE - Sistem Integral de Asigurare a Calitatii – Istoricul certificatului

Certificat nr.: **CE 661325**  
Data: **2017-06-28**  
Titular: **Smiths Medical International Ltd.**  
**Boundary Road**  
**Hythe**  
**Kent**  
**CT21 6JL**  
**Marea Britanie**

Data	Numar de referinta	Actiune
Curenta	8603100 8603169	Prima editie. Transferat de alt organ de certificare. Reinnoirea certificatului.



Valabilitatea prezentului certificat este conditionata de mentinerea sistemului nde calitate la cerintele Directivei dovedita de organul de certificare care supravegheaza compania. Prezenta aprobare exclude toate produsele proiectate si/sau fabricate de o terta parte on in numele companiei care detine prezentul certificat, cu exceptia unui acord contrar, incheiat cu BSI.  
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\*\*\*\*\*

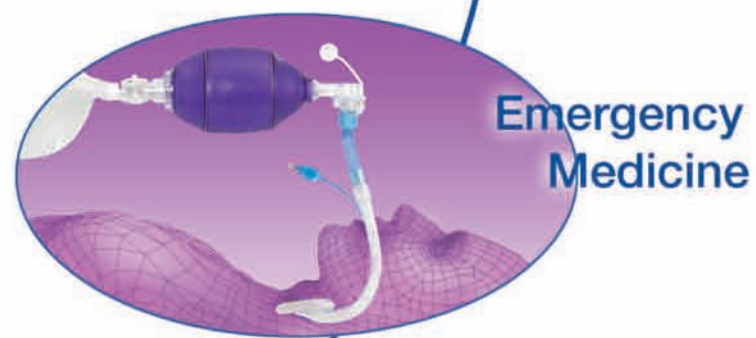
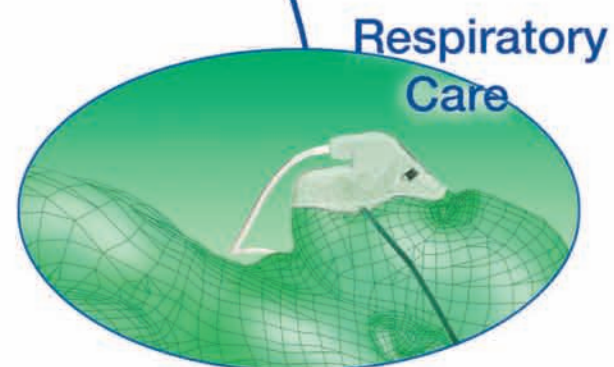
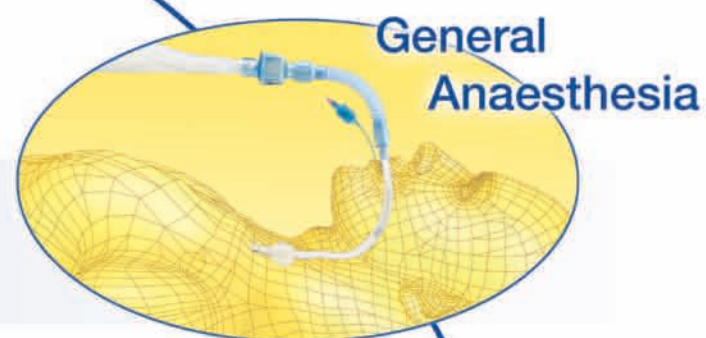
Subsemnata MUSUROIA MIRELA, traducator autorizat de Ministerul Justitiei, certific exactitatea acestei traducerii cu textul înscrisului original în limba engleza, ce a fost vizat de mine.

Traducător autorizat  
Nr. 2769/2015

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# Smiths Medical Airway Management



## UK Customers Services

Customers in the UK with queries on any product in this supplement should contact:

Tel: 0870 6016789

Fax: 01303 265560

## International Customer Services

Customers outside the UK with queries on any product in this supplement should contact:

Tel: +44 (0) 1303 260551

Fax: +44 (0) 1303 236899

We will be happy to put you in touch with your nearest distributor.

Additional information is available at  
[www.smiths-medical.com](http://www.smiths-medical.com)

# 1

## Percutaneous Tracheostomy Kits

Percutaneous tracheostomy provides a convenient and rapid method of tracheostomy tube insertion which can be performed at the bedside, making it ideal for use in Intensive Care.

With the introduction of the new ULTRAperc dilational percutaneous kits Smiths Medical can now offer kits for the three major techniques: Single dilation, Serial dilation or Griggs dilating forceps.



## New ULTRAPerc kits for percutaneous dilational tracheostomy

ULTRAPerc provides the clinician with a range of totally integrated procedural kits for percutaneous dilational tracheostomy for use in Intensive Care or theatre.

Only ULTRAPerc kits include every component required from initial incision to final tube insertion using a purpose designed introducer. Also, because ULTRAPerc kits are available with Blue Line Ultra, by using ULTRAPerc you will gain all the added benefits of this innovative and popular range of tracheostomy tubes.

ULTRAPerc is produced with the meticulous attention to detail and quality you expect from Smiths Medical, and offers the clinician:

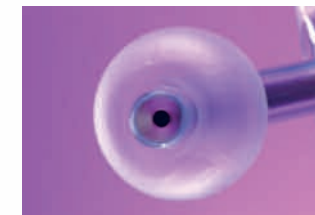
- Totally integrated components, with unique introducer
- The advantages of Blue Line Ultra
- A wide choice of kits to meet individual requirements
- A convenient package including everything required for the procedure
- Ergonomic design for ease of use
- Cost-effective kits



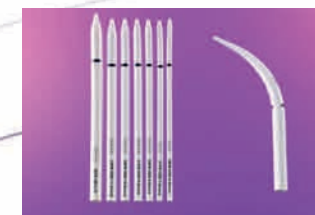
**ULTRAPerc**

PERCUTANEOUS TRACHEOSTOMY KITS

**A close fit** - the ULTRAPerc introducer is tailor made for Blue Line Ultra tracheostomy tubes. The tapered tube tip fits the introducer to minimise trauma on insertion.



**A wide choice** - with the range of single stage or serial PDT kits, an ULTRAPerc solution is available whatever your preferred technique - each option is designed for a safe, rapid and controlled procedure either by the bedside or in theatre.



**A convenient package** - Only Smiths Medical ULTRAPerc PDT kits can offer the option of the unique introducer and Blue Line Ultra tracheostomy tube all in one kit, avoiding the compromise of mis-matched components.



**An ergonomic design** - the handle of the ULTRAPerc single stage dilator has a chevron-style design, giving a good grip when use of lubricant jelly makes for slippery handling.



**The benefits of Blue Line Ultra** - ULTRAPerc PDT kits with Blue Line Ultra include all the advantages of this tube range: Soft-Seal cuff, flexible flange, tapered tip, thermo-sensitive PVC material for patient comfort and is suitably radio-opaque for x-ray visualisation.



**Also available** - Smiths Medical has produced supporting educational material for users of the ULTRAPerc kit. The 'How To Guide: Percutaneous Tracheostomy' is produced in association with Care of the Critically Ill. The educational video demonstrates the technique for inserting Blue Line Ultra tubes using the ULTRAPerc system.

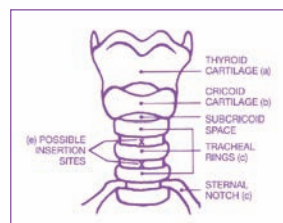


# ULTRAperc kits for percutaneous dilational tracheostomy

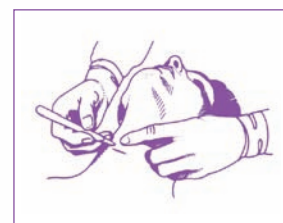
## Using Ultraperc single dilation technique



1. With the patient in the supine position, hyperextend the neck using a suitable support.



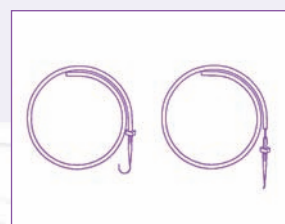
2. Locate and mark the anatomical landmarks. Prepare patient for surgery. Suction pharynx and (if present) re-establish airway with the tracheal tube cuff above the vocal cords to avoid the risk of damaging the tube. If appropriate, inject the site with local anaesthetic.



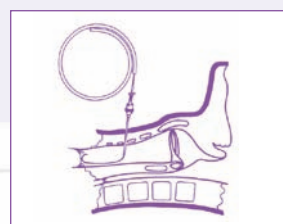
3. Make a horizontal incision (1.5-2cm) at the chosen insertion site.



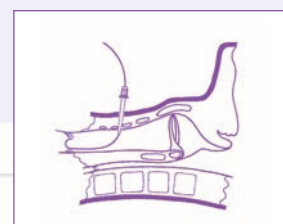
4. Insert the needle and cannula (with the syringe attached). Advance the needle until aspiration of air confirms entry into the trachea.



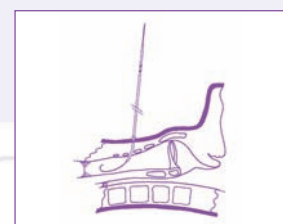
5. Ease the guidewire introducer out from its sheath and straighten the 'J' tip, leaving a sufficient length of exposed guidewire (2-3cm) to enable its dispensing with the forefinger and thumb.



6. Using the introducer, feed the guidewire into the trachea.



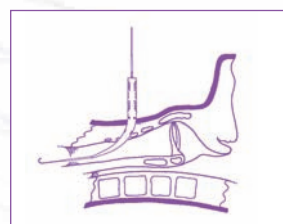
7. Pass the dilator over the guidewire towards the trachea and push the dilator forward to penetrate the tracheal wall and at the same time dilate both the tissues and the tracheal wall.



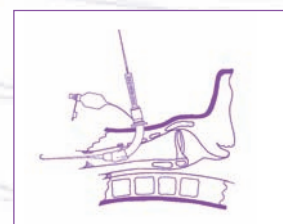
8. Pass the long guiding catheter over the guidewire into the trachea in the direction of the arrow marked on the catheter (safety stop end first) until the safety stop on the guiding catheter is located at the skin. Align the proximal end of the guiding catheter with the proximal band mark on the guidewire to determine the depth of insertion.



9. Immediately prior to insertion, immerse the distal end of the "single stage" dilator in sterile water or saline to activate the lubricious coating on the dilator. Pass the dilator over the guiding catheter until it reaches the "safety stop". In this position, the proximal mark on the guiding catheter will just be visible at the handle end of the dilator.



10. Whilst stabilising the guidewire and guiding catheter to ensure they remain stable and in position in the trachea, insert and partially remove the dilator several times in order to slightly over-dilate the trachea to a size appropriate for the tracheostomy tube to be inserted. The dilator is marked, for guidance, with 38FR and maximum insertion depth.



11. Insert the lubricated tracheostomy tube located on its lubricated introducer over the guiding catheter through the stoma with a slight twisting motion.

## Single Stage Dilator

### Ordering information

#### Percutaneous Dilation Tracheostomy Kit with Single Stage Dilator

Description	Product Code
With Blue Line Ultra Tracheostomy Tube (7mm) and Introducer	100/561/070
With Blue Line Ultra Tracheostomy Tube (8mm) and Introducer	100/561/080
With Blue Line Ultra Tracheostomy Tube (9mm) and Introducer	100/561/090



#### Percutaneous Dilation Tracheostomy Kit with Single Stage Dilator and Soft Introducers for 7, 8 & 9mm Tubes Only

Description	Product Code
Without Tracheostomy Tube	100/562/000





## Griggs dilating forceps kits for percutaneous tracheostomy

Based on the widely accepted Seldinger guidewire technique, these kits incorporate the unique and patented Griggs guidewire dilating forceps.

The design of the Griggs forceps permits:

- Single step dilation
  - No need for repeated insertions
  - Minimises tracheal trauma
  - One instrument for a wide range of adult sizes
- Retention of guidewire in situ throughout procedure
  - Maintains accuracy and safety

Smiths Medical kits for Griggs technique percutaneous tracheostomy provide the option for immediate minimally invasive and minimally disruptive treatment, at the bedside or in theatre, which has been shown to have lower complications and morbidity rates versus the traditional surgical technique.<sup>1,2</sup>



### References:

- 1: Griggs WM, Myburgh JA, Worthley LG. A prospective comparison of a percutaneous tracheostomy technique with standard surgical tracheostomy. *Int Care Med* 1991; **17**: 261-263.  
 2: Leinhardt DJ, Mughal M, Bowles B, Glew R, Kishen R et al. *Br J Surg* 1992; **79**: 255-258.

PERCUTANEOUS TRACHEOSTOMY KITS

Only Smiths Medical kits include the unique, patented Griggs guidewire dilating forceps:

- Lock over guidewire for easy, atraumatic insertion
- Allow single step dilation
- Minimise tracheal trauma
- Re-usable to ensure cost-effectiveness



Smiths Medical kits provide what you need:

- Full procedure pack (excluding drapes) - avoids delay and inconvenience
- Kits available with or without guidewire dilating forceps - for flexible economy
- Include a Smiths Medical tracheostomy tube with unique guidewire obturator - to ensure convenience and compatibility
- Choice of three tracheostomy tube sizes - to suit a wide range of patients

Kits are also available with the Adjustable Flange Tracheostomy Tube:

- Moveable flange to facilitate stoma hygiene
- Suitable for patients with deep-set tracheas
- Tapered tube tip and tapered obturator which clips onto bonded connector aid tube insertion
- Siliconised PVC eases passage of suction catheter

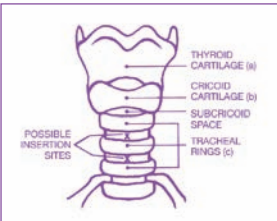


# Kits for Griggs technique percutaneous tracheostomy

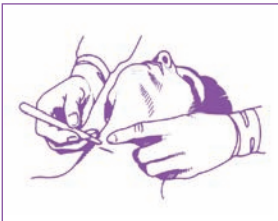
## Using the Griggs technique



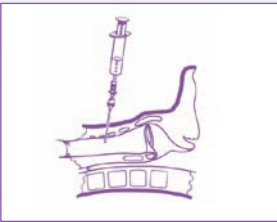
1. With the patient in the supine position, hyperextend the neck using a suitable support.



2. Locate and mark the anatomical landmarks. Prepare patient for surgery. Suction pharynx and (if present) re-establish airway with the tracheal tube cuff above the vocal cords to avoid the risk of damaging the tube. If appropriate, inject the site with local anaesthetic.



3. Make a horizontal incision (1.5-2cm) at the chosen insertion site.



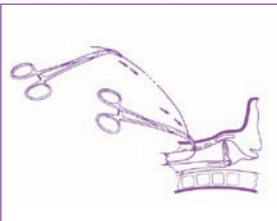
4. Insert the needle and cannula (with the syringe attached). Advance the needle until aspiration of air confirms entry into the trachea.



5. Using the introducer, feed the guidewire into the trachea.



6. Pass the dilator over the guidewire towards the trachea and push the dilator forward to penetrate the tracheal wall and at the same time dilate both the tissues and the tracheal wall.



7. Thread the guidewire through the clamped Guidewire Dilating Forceps and advance the forceps until the anterior tracheal wall is reached. Dilate the pre tracheal tissues by opening the forceps and remove the forceps in the open position.



8. Re-thread the forceps as described and now advance through the tracheal wall. Raise forceps handles into the vertical position so that the forceps jaws further penetrate the tracheal wall and lie longitudinally in the trachea. Dilate the trachea by opening forceps. Remove forceps in the open position.



9. Thread the guidewire through the obturator of the tracheostomy tube and advance both into the trachea. Remove obturator and guidewire.

## Ordering information

### Smiths Medical Blue Line Ultra Percutaneous Tracheostomy kit with Guidewire Dilating Forceps

Description	Product Code
Kit with 7mm I.D. tracheostomy tube	100/541/070
Kit with 8mm I.D. tracheostomy tube	100/541/080
Kit with 9mm I.D. tracheostomy tube	100/541/090

### Smiths Medical Blue Line Ultra Percutaneous Tracheostomy kit without Guidewire Dilating Forceps

Description	Product Code
Kit with 7mm I.D. tracheostomy tube	100/543/070
Kit with 8mm I.D. tracheostomy tube	100/543/080
Kit with 9mm I.D. tracheostomy tube	100/543/090



100/541



100/543

### Smiths Medical Blue Line Ultra Suctionaid Percutaneous Tracheostomy kit with Guidewire Dilating Forceps

Description	Product Code
Kit with 7mm I.D. tracheostomy tube	100/891/070
Kit with 8mm I.D. tracheostomy tube	100/891/080
Kit with 9mm I.D. tracheostomy tube	100/891/090

### Smiths Medical Blue Line Ultra Suctionaid Percutaneous Tracheostomy kit without Guidewire Dilating Forceps

Description	Product Code
Kit with 7mm I.D. tracheostomy tube	100/893/070
Kit with 8mm I.D. tracheostomy tube	100/893/080
Kit with 9mm I.D. tracheostomy tube	100/893/090



100/891



100/893

### Smiths Medical Blue Line Percutaneous Tracheostomy kit with Guidewire Dilating Forceps

Description	Product Code
Kit with 7mm I.D. tracheostomy tube	100/540/070
Kit with 8mm I.D. tracheostomy tube	100/540/080
Kit with 9mm I.D. tracheostomy tube	100/540/090

### Smiths Medical Blue Line Percutaneous Tracheostomy kit without Guidewire Dilating Forceps

Description	Product Code
Kit with 7mm I.D. tracheostomy tube	100/542/070
Kit with 8mm I.D. tracheostomy tube	100/542/080
Kit with 9mm I.D. tracheostomy tube	100/542/090



100/540



100/542

### Smiths Medical Adjustable Flange Tracheostomy kit with Guidewire Dilating Forceps

Description	Product Code
Kit with 7mm I.D. tracheostomy tube	100/545/070
Kit with 8mm I.D. tracheostomy tube	100/545/080
Kit with 9mm I.D. tracheostomy tube	100/545/090

### Smiths Medical Adjustable Flange Tracheostomy kit without Guidewire Dilating Forceps

Description	Product Code
Kit with 7mm I.D. tracheostomy tube	100/546/070
Kit with 8mm I.D. tracheostomy tube	100/546/080
Kit with 9mm I.D. tracheostomy tube	100/546/090



100/545



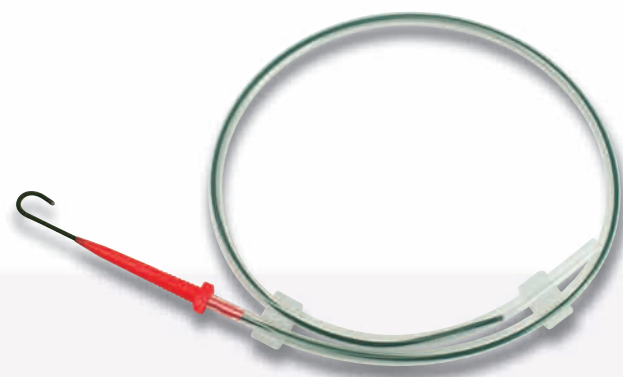
100/546

# Guidewires

Spare guidewires for use with either the Dilational or Griggs technique percutaneous tracheostomy kits.

## Ordering information

Description	Pack Size	Product Code
Spare guidewires	5	100/544/000



# 2 Tracheostomy tubes

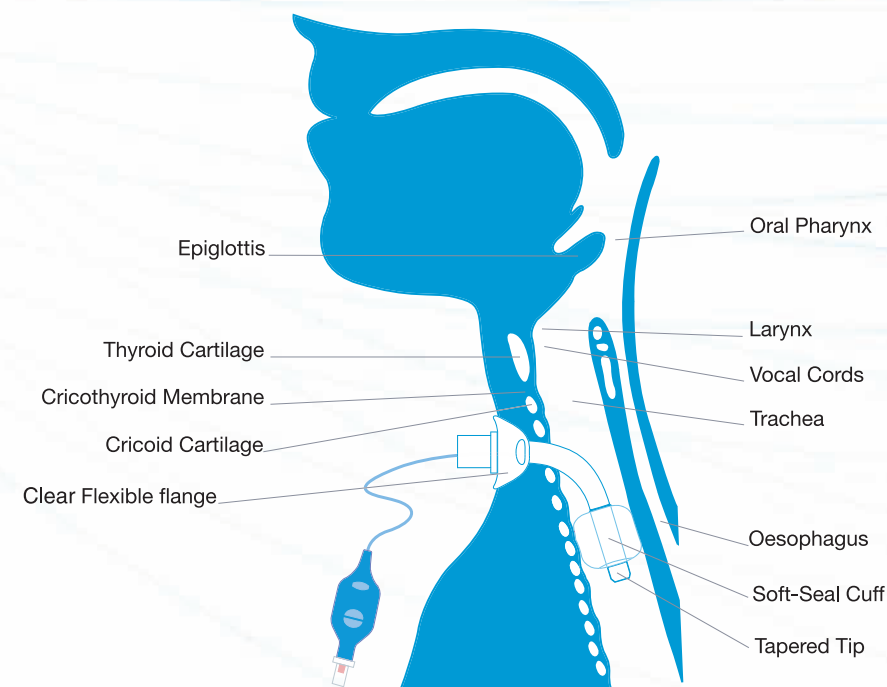
Smiths Medical have been experts in the production of tracheostomy tubes for over quarter of a century. We offer an extensive choice of tracheostomy tubes, from the traditional Blue Line range to our next generation of Blue Line Ultra tubes which, because we know that clinicians have different requirements for their own clinical procedures, offer the ultimate in choice and flexibility. Smiths Medical now also offers the complete range of Bivona tracheostomy tubes including paediatric and neonatal tubes.



## Blue Line Ultra with inner cannula

### The benefits of the Blue Line Ultra inner cannula system

- Inner cannula designed to be robust and easy to use. Clicks into place to confirm correct insertion. Can be used for up to 30 days
- Ring-pull design aids smooth insertion and removal from tube, minimising patient trauma
- Size of inner cannula indicated to avoid errors in use
- 15mm ISO termination is permanent part of the tube, patient can be ventilated with or without inner cannula in place
- A cleaning brush is supplied for cleaning inner cannula. Brush features soft nylon filaments and smooth brush tip
- Fenestrated inner cannula is coloured red for ease of identification of use
- Multiple fenestrations match those of tracheostomy tube and minimise risk of blockages
- Provided with two reusable inner cannulae and tube holder to secure tube



## Blue Line Ultra tracheostomy tubes

When caring for a patient with a tracheostomy, you need to choose the tracheostomy tube that best suits the specific clinical need. The Blue Line Ultra range has many benefits:

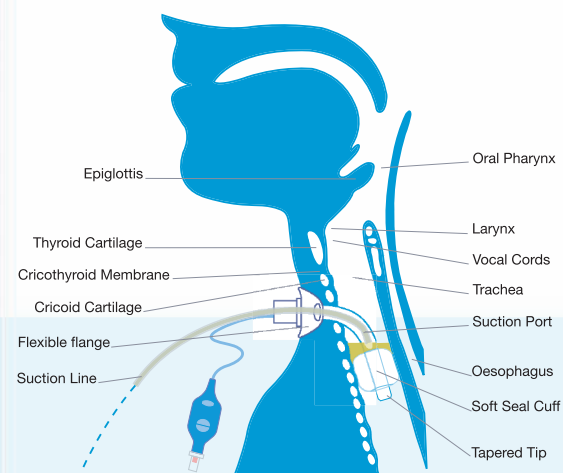
- Comprehensive range - available with or without inner cannula, cuffed or uncuffed, rigid or thermosensitive, fenestrated or unfenestrated
- Thermosensitive PVC tubes provides sufficient rigidity for initial insertion, and then softens at body temperature to accommodate individual patient anatomy
- Soft-Seal cuff - low pressure, high volume cuff for minimal trauma whilst providing an effective seal. When deflated, cuff relaxes smoothly to tube minimising discomfort on insertion and removal. Velvet soft material with larger cuff resting diameter
- Clear markings on pilot balloon provide relevant information
- Flange is soft for maximum patient comfort, and clear to ensure aesthetic acceptability
- Tube material is suitably radio-opaque to enable confirmation of tube position
- Multiple fenestrations to minimise risk of occlusions
- Obturator provides rigidity for tube insertion. Rounded obturator tip for insertion with minimal trauma
- Special clip design minimises obturator tip movement during tube insertion





# New Blue Line Ultra Suctionaid

A new addition to the Blue Line Ultra range, the Blue Line Ultra Suction Aid is ideal for improving patient well-being by maintaining a clean, hygienic and unobstructed airway and having the ability to remove secretions from above the cuff.



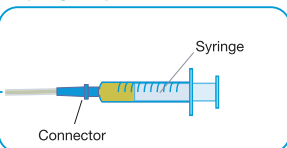
## Reducing the potential risk of infection

Accumulation and stasis of contaminated mucus and subglottic secretions above the cuff of tracheostomy tubes can be uncomfortable for patients and provides an ideal growth medium for pathogens. The integral suction lumen of Blue Line Ultra Suctionaid allows removal of these pooled secretions.

## Reducing the risk of aspiration

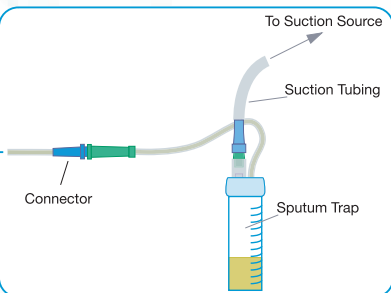
However good the cuff, microaspiration of contaminated material can potentially lead to pulmonary infection. Maintaining tracheostomy hygiene and regular removal of secretions with Blue Line Ultra Suctionaid can help reduce this aspiration.

### Syringe Aspiration

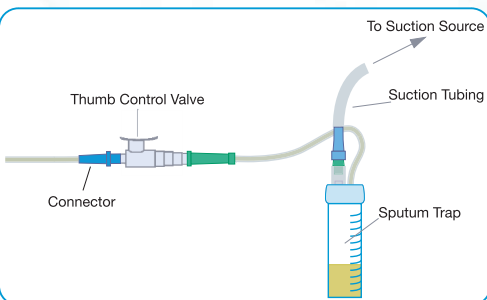


When using continuous or intermittent suctioning, use low level suction up to a maximum of 300mmHg

### Continuous Suction



### Intermittent Suction



# Blue Line Ultra tracheostomy tubes

## Ordering information

Blue Line Ultra tube with Profile Soft-Seal cuff			
Sizes (Tube I.D.mm)	Pack size	Product Code	Fenestrated Product Code
6.0	10	100/800/060	100/802/060
7.0	10	100/800/070	100/802/070
7.5	10	100/800/075	100/802/075
8.0	10	100/800/080	100/802/080
8.5	10	100/800/085	100/802/085
9.0	10	100/800/090	100/802/090
10.0	10	100/800/100	100/802/100



Blue Line Ultra tube kit with inner cannulae					
Sizes (Tube I.D.mm)	Pack size	Cuffed Product Code	Uncuffed Product Code	Cuffed Fenestrated Product Code	Uncuffed Fenestrated Product Code
6.0	1 unit	100/810/060	100/811/060	100/812/060	100/813/060
7.0	1 unit	100/810/070	100/811/070	100/812/070	100/813/070
7.5	1 unit	100/810/075	100/811/075	100/812/075	100/813/075
8.0	1 unit	100/810/080	100/811/080	100/812/080	100/813/080
8.5	1 unit	100/810/085	100/811/085	100/812/085	100/813/085
9.0	1 unit	100/810/090	100/811/090	100/812/090	100/813/090
10.0	1 unit	100/810/100	100/811/100	100/812/100	100/813/100



Blue Line Ultra tube change kit with Inner cannulae					
Sizes (Tube I.D.mm)	Pack size	Cuffed Product Code	Uncuffed Product Code	Cuffed Fenestrated Product Code	Uncuffed Fenestrated Product Code
7.0	1 unit	100/820/070	100/821/070	100/822/070	100/823/070
7.5	1 unit	100/820/075	100/821/075	100/822/075	100/823/075
8.0	1 unit	100/820/080	100/821/080	100/822/080	100/823/080
9.0	1 unit	100/820/090	100/821/090	100/822/090	100/823/090



Blue Line Ultra tube Orator speaking valve kit with Inner cannulae				
Sizes (Tube I.D.mm)	Pack size	Uncuffed Product Code	Cuffed Fenestrated Product Code	Uncuffed Fenestrated Product Code
7.0	1 unit	100/831/070	100/832/070	100/833/070
7.5	1 unit	100/831/075	100/832/075	100/833/075
8.0	1 unit	100/831/080	100/832/080	100/833/080
9.0	1 unit	100/831/090	100/832/090	100/833/090



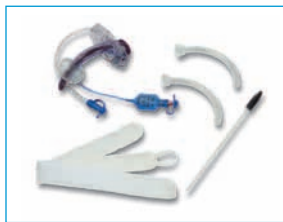
When a fenestrated tube kit is ordered, it will be provided with one fenestrated and one plain inner cannula.

**Blue Line Ultra Suctionaid tube with Profile Soft-Seal Cuff**

Sizes (Tube I.D.mm)	Pack size	Product Code
6.0	10	100/860/060
7.0	10	100/860/070
7.5	10	100/860/075
8.0	10	100/860/080
8.5	10	100/860/085
9.0	10	100/860/090
10.0	10	100/860/100

**Blue Line Ultra Suctionaid tube with Profile Soft-Seal Cuff and inner cannulae**

Sizes (Tube I.D.mm)	Pack size	Product Code
6.0	1	100/870/060
7.0	1	100/870/070
7.5	1	100/870/075
8.0	1	100/870/080
8.5	1	100/870/085
9.0	1	100/870/090
10.0	1	100/870/100

**Blue Line Ultra Suctionaid tube change kit with Profile Soft-Seal Cuff and inner cannulae**

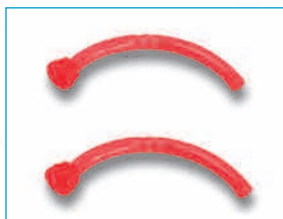
Sizes (Tube I.D.mm)	Pack size	Product Code
6.0	1	100/880/060
7.0	1	100/880/070
7.5	1	100/880/075
8.0	1	100/880/080
8.5	1	100/880/085
9.0	1	100/880/090
10.0	1	100/880/100

**Inner Cannulae****Replacement inner cannulae, plain**

Sizes (Tube I.D.mm)	Pack size	Product Code
6.0	2	100/850/060
7.0	2	100/850/070
7.5	2	100/850/075
8.0	2	100/850/080
8.5	2	100/850/085
9.0	2	100/850/090
10.0	2	100/850/100

**Replacement inner cannulae, fenestrated**

Sizes (Tube I.D.mm)	Pack size	Product Code
6.0	2	100/851/060
7.0	2	100/851/070
7.5	2	100/851/075
8.0	2	100/851/080
8.5	2	100/851/085
9.0	2	100/851/090
10.0	2	100/851/100

**Blue Line tracheostomy tubes**

The comprehensive range of Blue Line tracheostomy tubes meets the varying needs of different departments and different patients.

In Surgery the primary requirement is for ventilation, which needs an atraumatic tube with a good cuff seal against air and liquid. These needs are met by Blue Line cuffed, thermosensitive tubes.

In Intensive Care the patient also needs to be weaned off ventilation, and to restart vocalisation. Tubes for this setting, as well as being atraumatic with a good cuff seal against air and liquid, need to permit airflow to the larynx. Blue Line cuffed, thermosensitive, fenestrated tubes fulfil this requirement.

On the Ward spontaneous breathing obviates the need for the cuff, while vocalisation demands airflow to the larynx. For these patients Blue Line uncuffed thermosensitive tubes are ideal.

In the Home, patients who still require a tracheostomy although they are breathing spontaneously and vocalising want a tube which is unobtrusive, as well as atraumatic and permitting a good airflow to the larynx. For them the solution is a Blue Line uncuffed, thermosensitive, fenestrated tube with no 15mm connector.

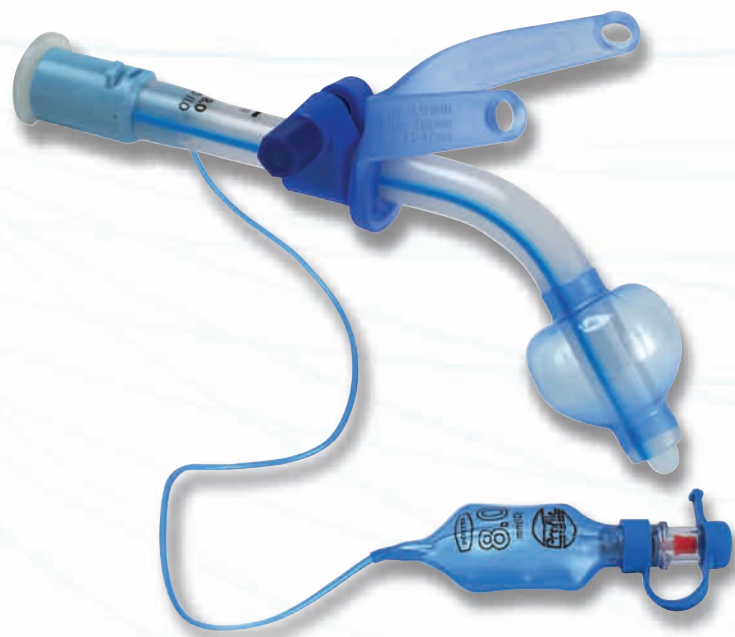
The Blue Line range is also broad and flexible enough to cover the enormous variation in individual patient anatomy by offering customised tubes (see pages 56-62).



## Blue Line tracheostomy tubes

Blue Line tubes are designed to meet all your needs.

- Thermosensitive material
  - Initial rigidity for easy intubation
  - Flexibility at body temperature to adapt to the individual patient's anatomy
- Atraumatic design
  - Anatomical tube shape
  - Smooth contours for maximum comfort
  - Non-toxic siliconised PVC tube
  - Low pressure, high volume Profile cuff
- Large choice of tubes
  - Cuffed or uncuffed, fenestrated or unfenestrated, with or without 15mm connector
  - Specialised products for specific needs



## Blue Line tracheostomy tubes

### Ordering information

Cuffed tubes			
Product	Sizes (I.D.mm)	Pack size	Product Codes
Profile cuff tube	6-10	10	100/518/060 - 100/518/100
Double cuff tube	7-10	10	100/512/070 - 100/512/100
Vocalaid tube	6-10	10	100/517/060 - 100/517/100



Uncuffed tubes			
Product	Sizes (I.D.mm)	Pack size	Product Codes
Uncuffed tube	3-10	10	100/506/030 - 100/506/100
Uncuffed single fenestrated tube	3-10	10	100/536/030 - 100/536/100
Uncuffed double fenestrated tube	6-10	10	100/537/060 - 100/537/100



Uncuffed tubes without 15mm connector			
Product	Sizes (I.D.mm)	Pack size	Product Codes
Uncuffed tube	3-10	10	100/505/030 - 100/505/100
Uncuffed fenestrated tube	3-10	10	100/535/030 - 100/535/100



Adjustable flange tubes			
Product	Sizes (I.D.mm)	Pack size	Product Codes
Profile cuff tube	6-10	2	100/523/060 - 100/523/100
Uncuffed tube	6-10	2	100/526/060 - 100/526/100



The last 3 digits indicate the correct tube size e.g. for a size 8.0mm I.D. tube, the product code is 100/518/**080**

No inner cannulae are available for these products.

100/505 products are available single packed. To order replace '0' with '1' - e.g. 100/505/130. Code for size 10mm tube as single item is 100/505/110.



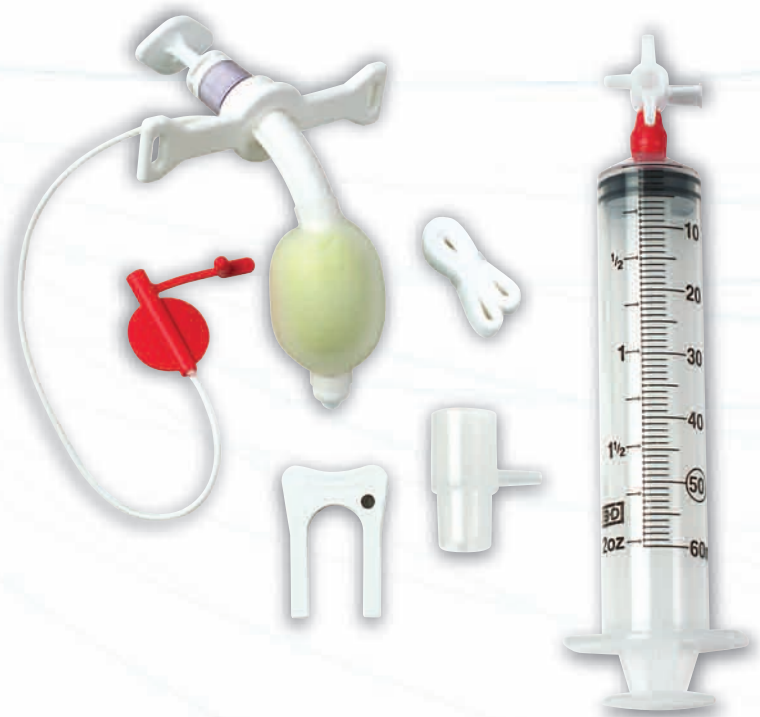
## Bivona Adult tracheostomy tubes

Bivona adult tracheostomy tubes provide a range of steam autoclavable silicone products which provide a high level of comfort.

This range provides you with tubes that offer:

- High level of protection from aspiration in Fome-Cuf® products<sup>3</sup>
- Reduced risk of tracheal dilation
- The flexibility of adjustable neck flanges and flexible reinforced shafts
- A range of cuff designs to suit individual clinician preference

All Bivona tubes are designed to ensure optimal patient comfort and safety.



3: BJA 1990; 65: 433-437

TRACHEOSTOMY TUBES

Bivona tracheostomy tubes incorporate an advanced design to ensure that the needs of your patients are exactly met.

These special features include:

- Fome-Cuf®
  - Auto-expanding foam filled cuff that conforms to the contours of each individual patient's trachea
- TTS™ (Tight to Shaft) cuff
  - Offers the benefits of a cuff with the profile of an uncuffed tube
  - Can be partially or completely inflated to meet varying needs
  - Provides exceptional versatility
- Aire-Cuf® tubes
  - For those who prefer a more traditional design
- Hyperflex™ wire reinforced shafts
  - Flexible to conform to unusual anatomy or pathology
  - Available with either adjustable or fixed neck flange and TTS™ cuff
- CMD™ cuff maintenance device
  - Allows monitoring of cuff volume and simplifies routine cuff maintenance
- SidePort™ and DryPort™ AutoControl™ airway connectors



# Bivona Adult tracheostomy tubes

## Ordering information

### Fome-Cuf® kit with SidePort™ AutoControl™ airway connector and CMD™

Size (I.D.mm)	Sizes (O.D.mm)	Length (mm)	Pack Size	Product Code
5.0	7.3	60	1	850150
6.0	8.7	70	1	850160
7.0	10.0	80	1	850170
8.0	11.0	88	1	850180
9.0	12.3	98	1	850190
9.5	13.3	98	1	850195



### Fome-Cuf® StomaSeal™ kit with DryPort™ AutoControl™ airway connector and CMD™

Size (I.D.mm)	Solid Silicone StomaSeal™ (O.D.mm)	Compressed Fome Cuff® (O.D.mm)	Shaft (O.D.mm)	Length (mm)	Pack Size	Product Code
5.0	12.5	13.0	7.3	60	1	851550
6.0	13.5	14.0	8.7	70	1	851560
7.0	15.5	16.0	10.0	80	1	851570
8.0	16.5	18.0	11.0	88	1	851580
9.0	18.5	19.0	12.3	98	1	851590
9.5	18.5	19.0	13.3	98	1	851595



### TTS™ tracheostomy tube

Size (I.D.mm)	Sizes (O.D.mm)	Length (mm)	Pack Size	Product Code
5.0	7.3	60	1	670150
6.0	8.7	70	1	670160
6.5	9.4	70	1	670165
7.0	10.0	80	1	670170
7.5	10.4	80	1	670175
8.0	11.0	88	1	670180
8.5	11.8	88	1	670185
9.0	12.3	98	1	670190
9.5	13.3	98	1	670195



### Mid-range Aire-Cuf® tracheostomy tube

Size (I.D.mm)	Sizes (O.D.mm)	Length (mm)	Pack Size	Product Code
5.0	7.3	60	1	750150
6.0	8.7	70	1	750160
7.0	10.0	80	1	750170
8.0	11.0	88	1	750180
9.0	12.3	98	1	750190
9.5	13.3	88	1	750195



### Uncuffed adult tracheostomy tube

Size (I.D.mm)	Sizes (O.D.mm)	Length (mm)	Pack Size	Product Code
5.0	7.3	60	1	60A150
6.0	8.7	70	1	60A160
7.0	10.0	80	1	60A170
8.0	11.0	88	1	60A180
9.0	12.3	98	1	60A190
9.5	13.3	88	1	60A195



### Mid-range Aire-Cuf® adjustable neck flange Hyperflex™ tracheostomy tubes kit

Size (I.D.mm)	Sizes (O.D.mm)	Length (mm)	Pack Size	Product Code
6.0	8.7	110	1	75HA60
7.0	10.0	120	1	75HA70
8.0	11.0	130	1	75HA80
9.0	12.3	140	1	75HA90



### TTS™ adjustable neck flange Hyperflex™ tracheostomy tubes kit

Size (I.D.mm)	Sizes (O.D.mm)	Length (mm)	Pack Size	Product Code
6.0	8.7	110	1	67HA60
7.0	10.0	120	1	67HA70
8.0	11.0	130	1	67HA80
9.0	12.3	140	1	67HA90



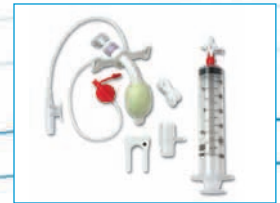
### TTS™ fixed neck flange Hyperflex™ tracheostomy tubes

Size (I.D.mm)	Sizes (O.D.mm)	Length (mm)	Pack Size	Product Code
6.0	8.7	70	1	67FH60
7.0	10.0	80	1	67FH70
8.0	11.0	88	1	67FH80
9.0	12.3	98	1	67FH90



### Fome-Cuf® tracheostomy tube with talk attachment

Size (I.D.mm)	Sizes (O.D.mm)	Length (mm)	Pack Size	Product Code
5.0	7.3	60	1	855150
6.0	8.7	70	1	855160
7.0	10.0	80	1	855170
8.0	11.0	88	1	855180
9.0	12.3	98	1	855190
9.5	13.3	98	1	855195



### Mid-range Aire-Cuf® tracheostomy tube with talk attachment

Size (I.D.mm)	Sizes (O.D.mm)	Length (mm)	Pack Size	Product Code
5.0	7.3	60	1	755150
6.0	8.7	70	1	755160
7.0	10.0	80	1	755170
8.0	11.0	88	1	755180
9.0	12.3	98	1	755190
9.5	13.3	88	1	755195





## Paediatric and neonatal tracheostomy tubes

While many of the tracheostomy tube needs of neonatal or paediatric patients are the same as for adults, this patient group has special additional requirements.

### Bivona paediatric and neonatal tracheostomy tubes

The Bivona range of neonatal and paediatric tracheostomy tubes offers a number of features which make them leaders in this field.

The tubes provide high flexibility, to conform to the wide anatomical variation found in these patients, coupled with kink resistance and atraumatic design for maximum patient comfort.

FlexTend Plus™ tubes, with:

- Flexible one piece, kink resistant, wire reinforced silicone shaft
- Independently flexing proximal and distal shafts
- Atraumatic neck flange

Improved tube access for children in the prone position, while minimising the risk of tube occlusion associated with head flexion. Ideal for patients with minimal chin to stoma distances, they reduce excoriation from tracheostomy tube connections.

Both cuffed and uncuffed standard neonatal and paediatric tubes are kink resistant yet soft, flexible and compliant and feature an atraumatic contoured neck flange.

The Cuffless Adjustable Neck Flange Hyperflex™ tube is in effect "instantly customisable" to accommodate unusual anatomy or pathology, assuring these patients a secure airway.



## Smiths Medical paediatric and neonatal tracheostomy tubes

Smiths Medical paediatric tubes maximise comfort and safety and are designed to conform to the individual child's trachea for short and long term ventilation. The Smiths Medical infant tracheostomy tube is designed to conform closely to the infant's anatomy to provide maximum comfort.



Paediatric tracheostomy tubes



Neonatal tracheostomy tube

## Paediatric tracheostomy tubes

### Ordering information

Product	Size (I.D.mm)	Size (O.D.mm)	Length (mm)	PackSize	Product Code
Fome-Cuf® Paediatric tracheostomy tube with Tracheostoma seal	2.5	4.0	38	1	85P025
	3.0	4.7	39	1	85P030
	3.5	5.3	40	1	85P035
	4.0	6.0	41	1	85P040
	4.5	6.7	42	1	85P045
	5.0	7.3	44	1	85P050
	5.5	8.0	46	1	85P055



Product	Size (I.D.mm)	Size (O.D.mm)	Length (mm)	PackSize	Product Code
TTS™ Paediatric tracheostomy tube	2.5	4.0	38	1	67P025
	3.0	4.7	39	1	67P030
	3.5	5.3	40	1	67P035
	4.0	6.0	41	1	67P040
	4.5	6.7	42	1	67P045
	5.0	7.3	44	1	67P050
	5.5	8.0	46	1	67P055



Product	Size (I.D.mm)	Size (O.D.mm)	Length (mm)	PackSize	Product Code
Aire-Cuf® Paediatric tracheostomy tube	2.5	4.0	38	1	65P025
	3.0	4.7	39	1	65P030
	3.5	5.3	40	1	65P035
	4.0	6.0	41	1	65P040
	4.5	6.7	42	1	65P045
	5.0	7.3	44	1	65P050
	5.5	8.0	46	1	65P055



Product	Size (I.D.mm)	Size (O.D.mm)	Length (mm)	PackSize	Product Code
Uncuffed Paediatric tracheostomy tube	2.5	4.0	38	1	60P025
	3.0	4.7	39	1	60P030
	3.5	5.3	40	1	60P035
	4.0	6.0	41	1	60P040
	4.5	6.7	42	1	60P045
	5.0	7.3	44	1	60P050
	5.5	8.0	46	1	60P055



Product	Size (I.D.mm)	Size (O.D.mm)	Length (mm)	PackSize	Product Code
FlexTend Plus™ paediatric tubes	3.5	5.3	40	1	60PFP35
	4.0	6.0	44	1	60PFP40
	4.5	6.7	48	1	60PFP45
	5.0	7.3	50	1	60PFP50
	5.5	8.0	52	1	60PFP55



Product	Size (I.D.mm)	Size (O.D.mm)	Length (mm)	PackSize	Product Code
FlexTend Plus™ standard paediatric tubes	2.5	4.0	38	1	60PFS25
	3.0	4.7	39	1	60PFS30
	3.5	5.3	40	1	60PFS35
	4.0	6.0	41	1	60PFS40
	4.5	6.7	42	1	60PFS45
	5.0	7.3	44	1	60PFS50
	5.5	8.0	46	1	60PFS55



Product	Size (I.D.mm)	Size (O.D.mm)	Length (mm)	PackSize	Product Code
Uncuffed adjustable neck flange Hyperflex™ tubes	2.5	4.0	55	1	60HA25
	3.0	4.7	60	1	60HA30
	3.5	5.3	65	1	60HA35
	4.0	6.0	70	1	60HA40
	4.5	6.7	75	1	60HA45
	5.0	7.3	80	1	60HA50
	5.5	8.0	85	1	60HA55



Product	Size (I.D.mm)	Size (O.D.mm)	Length (mm)	PackSize	Product Code
Smiths Medical Tracheostomy Tube, Paediatric with clear angled 15mm connector	2.5	4.5	30	1	555025
	3.0	5.2	36	1	555030
	3.5	5.8	40	1	555035
	4.0	6.5	44	1	555040
	4.5	7.1	48	1	555045
	5.0	7.7	50	1	555050
	5.5	8.3	52	1	555055



All Bivona products are packaged individually sterile with obturator, twill tape ties and 15mm disconnect wedge.

Adjustable neck flange tracheostomy tubes (60HA codes) are intended for temporary use until the proper length fixed neck flange tube can be obtained. **Not for home care use.**

## Neonatal tracheostomy tubes

### Ordering information

Product	Size (I.D.mm)	Size (O.D.mm)	Length (mm)	PackSize	Product Code
Fome-Cuf® Neonatal tracheostomy tube with Tracheostoma seal	2.5	4.0	30	1	85N025
	3.0	4.7	32	1	85N030
	3.5	5.3	34	1	85N035
	4.0	6.0	36	1	85N040



Product	Size (I.D.mm)	Size (O.D.mm)	Length (mm)	PackSize	Product Code
TTS™ Neonatal tracheostomy tube	2.5	4.0	30	1	67N025
	3.0	4.7	32	1	67N030
	3.5	5.3	34	1	67N035
	4.0	6.0	36	1	67N040



Product	Size (I.D.mm)	Size (O.D.mm)	Length (mm)	PackSize	Product Code
Aire-Cuf® Neonatal tracheostomy tube	2.5	4.0	30	1	65N025
	3.0	4.7	32	1	65N030
	3.5	5.3	34	1	65N035
	4.0	6.0	36	1	65N040



Product	Size (I.D.mm)	Size (O.D.mm)	Length (mm)	PackSize	Product Code
Uncuffed Neonatal tracheostomy tubes	2.5	4.0	30	1	60N025
	3.0	4.7	32	1	60N030
	3.5	5.3	34	1	60N035
	4.5	6.0	36	1	60N045



Product	Size (I.D.mm)	Size (O.D.mm)	Length (mm)	PackSize	Product Code
FlexTend Plus™ neonatal tubes	2.5	4.0	30	1	60NFP25
	3.0	4.7	32	1	60NFP30
	3.5	5.3	34	1	60NFP35
	4.0	6.0	36	1	60NFP40



Product	Size (I.D.mm)	Size (O.D.mm)	PackSize	Product Code
Smiths Medical Tracheostomy Tube, Infant G.O.S design without 15mm connector	3.0	4.5	10	100/501/450



All Bivona products packaged individually sterile with obturator, twill tape ties and 15mm disconnect wedge.



# Customised tracheostomy tubes

On occasions your patients may have special requirements which cannot be met from our comprehensive range of tracheostomy tubes.

For these occasions, Smiths Medical can offer customised tracheostomy tubes based on either the Blue Line or Bivona ranges.

The Bivona customised tube service allows you to select the tube shaft style, curvature, length, internal and external diameter, cuff design, cuff position and neck flange that best meets your patient's needs.

Templates for tube customisation may be found at the back of this supplement pgs 56-62.

For further information please contact:

International Customer Services - Tel: +44 (0) 1303 260 551 Fax: +44 (0) 1303 236 899

UK Customer Services - Tel: 0870 601 6789 Fax: 01303 265 560


INTERNATIONAL CUSTOMIZED - CUFFLESS TRACHEOSTOMY TUBE TEMPLATE


SELECT TYPE SERVICE


☐ 3-4 WEEKS (STERILE)

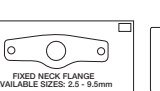
☐ EXPRESS SERVICE (NON STERILE)

NECK FLANGE TYPE:


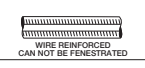
A  ☐ FIXED NECK FLANGE  
AVAILABLE SIZES: 2.5 - 5.5mm  
☐ WITH ISO CONNECTOR OR  
☐ WITHOUT ISO CONNECTOR

B  ☐ FIXED NECK FLANGE  
AVAILABLE SIZES: 2.5 - 5.5mm  
☐ WITH ISO CONNECTOR OR  
☐ WITHOUT ISO CONNECTOR

C  ☐ FIXED NECK FLANGE  
AVAILABLE SIZES: 2.5 - 5.5mm  
☐ WITH ISO CONNECTOR OR  
☐ WITHOUT ISO CONNECTOR

D  ☐ FIXED NECK FLANGE  
AVAILABLE SIZES: 2.5 - 5.5mm  
☐ WITHOUT ISO CONNECTOR

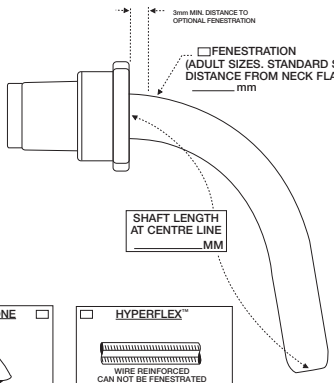
SHAFT I.D. \_\_\_\_\_ mm  
(OR) O.D. \_\_\_\_\_ mm

SHAFT STYLE:  
☐ STANDARD SILICONE   
☐ HYPERFLEX™   
WIRE REINFORCED  
CAN NOT BE FENESTRATED

SHAFT LENGTH  
AT CENTRE LINE  
\_\_\_\_\_ MM

☐ FENESTRATION  
(ADULT SIZES, STANDARD SILICONE ONLY)  
DISTANCE FROM NECK FLANGE  
\_\_\_\_\_ mm

3mm MIN. DISTANCE TO  
OPTIONAL FENESTRATION



**BIVONA**

DISTRIBUTOR:

DISTRIBUTOR CONTACT NAME:

TEMPLATE REF. NO. : \_\_\_\_\_ DATE: \_\_\_\_\_

BIVONA USE ONLY

BIVONA ENGRG. APPROVAL:

REORDER:

TMPLATEIA-INTL REV. 0  
CAUTION: FEDERAL (USA) LAW RESTRICTS THIS DEVICE TO SALE BY OR ON THE ORDER OF A PHYSICIAN.  
NOTE: PLEASE PRINT CLEARLY. BIVONA STAFF CANNOT MAKE ANY ALTERATIONS TO THE COMPLETED TEMPLATE.

## 3

### Speciality products

Tracheostomy is only one of the procedures which may be required to provide tracheal access in Theatre or Intensive Care. Smiths Medical also cater for those patients who require minitracheotomy, emergency cricothyrotomy or laryngectomy with a range of products from initial incision to long term voice restoration.

TRACHEOSTOMY TUBES

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## Mini-Trach II minitracheotomy kits

After surgery, infection or injury, sputum retention can be a real problem which, if not effectively treated can lead to significant morbidity and even death. When there is the risk that natural sputum removal by coughing, with or without physiotherapy, will not be adequate, prophylactic minitracheotomy can prevent the problem arising and offers many advantages over conventional techniques for managing sputum retention: <sup>4,5,6,7</sup>

- Constant tracheal access
  - No need for tracheal intubation or tracheostomy
- Less invasive
  - No need for sedation during sputum removal
- Maintains natural mechanisms for minimal patient disturbance
  - Spontaneous breathing and normal respiration
  - Speech
  - Cough
  - Humidification
  - Normal eating and drinking
- Quick healing with minimal scarring
  - Only a small incision is required
- Suitable for use in Theatre, Intensive Care or Ward
  - Two alternative kits for Theatre or bedside use

SPECIALITY PRODUCTS

## Mini-Trach II kit for surgical insertion in Theatre

- Guarded scalpel allows the correct incision to be made without risk of damage to the posterior wall of the trachea
- Introducer guides the cannula into the trachea
- 4.0mm ID soft PVC cannula provides access to the trachea both as an airway and for suctioning
- 15mm connector allows standard connection to breathing systems. 10F low friction suction catheter allows immediate initial suctioning following cannulation



## Mini-Trach II Seldinger kit for therapeutic insertion in Theatre, Intensive Care or Ward

- Guarded scalpel to make initial midline skin incision
- 16G bevelled needle allows simple puncture of the cricothyroid membrane
- Aspirating syringe allows confirmation of correct needle placement
- Flexible tipped guidewire helps introduction of dilator without trauma to posterior tracheal wall
- Curved dilator expands the opening to permit smooth insertion of the Mini-Trach cannula
- Introducer guides the cannula into the trachea
- 4.0mm ID soft PVC cannula provides access to the trachea both as an airway and for suctioning
- 15mm connector allows standard connection to breathing systems
- 10F low friction suction catheter allows immediate initial suctioning following cannulation





## Mini-Trach II minitracheotomy kits

### Using the Mini-Trach II Seldinger kit



1. The patient is positioned supine with head, neck and chin fully extended. The operator stands above the patient's head facing the patient's feet.



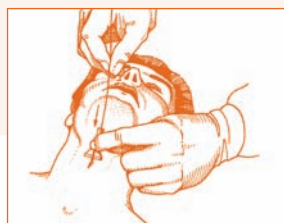
2. The skin is cleansed and the position of the cricothyroid membrane located by palpation and marked.



3. A midline vertical 1cm skin incision is made using the guarded scalpel.



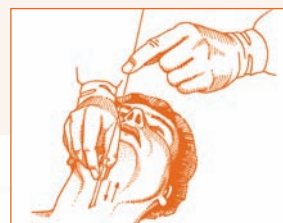
4. The 16G bevelled needle is fitted to the syringe. With the trachea immobilised the bevelled needle is inserted vertically (with the opening of the needle facing caudally) through the cricothyroid membrane. Correct placement is confirmed by aspiration of air.



5. The syringe is removed carefully, keeping the needle in position. The flexible tip of the guidewire is inserted through the bevelled needle into the trachea.



6. The bevelled needle is removed carefully while holding the guidewire to ensure that the guidewire is not moved out of position.



7. The curved dilator is fed onto the guidewire and passed through the cricothyroid membrane.



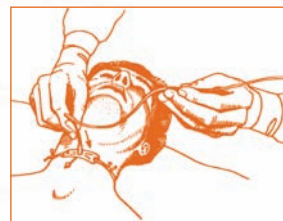
8. The dilator is removed carefully while holding the guidewire to ensure that the guidewire is not moved out of position. The curved introducer with the premounted Mini-Trach cannula is then fed onto the guidewire and introduced into the trachea with firm pressure.



9. The introducer and guidewire are removed holding the cannula flange in place against the skin.



10. The cannula is fixed in place with neck tapes.



11. The suction catheter is passed immediately to remove any existing blood and secretions.

### Ordering information

Mini-Trach II		
Description	Pack Size	Product Code
Seldinger kit	5	100/461/000
Non-Seldinger kit	10	100/462/000



100/461

## Nu-Trake®, Pedia-Trake™

### For emergency airway restoration

#### Nu-Trake®: adult cricothyrotomy device

A complete cricothyrotomy system for emergency airway access, Nu-Trake®:

- Rapidly establishes up to 7.2mm airway
- Allows immediate ventilation through integral 15mm connector
- Allows introduction of a suction catheter through the airway
- Provides a user-friendly system



#### Pedia-Trake™: emergency airway system for paediatric applications

When you need to establish an emergency airway in paediatric patients Pedia-Trake™ gives you:

- Fast restoration of air flow
- Minimal bleeding
- Simplicity in use



### Ordering information

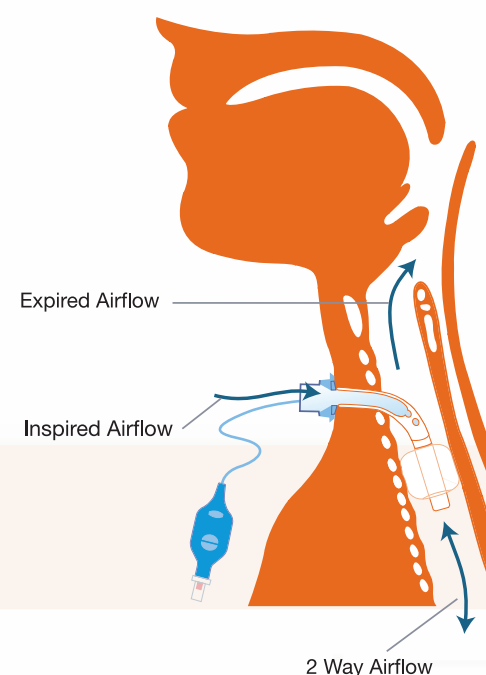
Nu-Trake® cricothyrotomy device		
Description	Pack Size	Product Code
Adult	1 unit	B10100

Pedia-Trake™ emergency airway system		
Description	Pack Size	Product Code
Paediatric	1 unit	B20100



## Orator Speaking Valve

Orator allows the patient with a tracheostomy to communicate, by ensuring that expelled air is re-directed to the larynx.

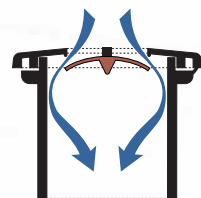


Orator provides:

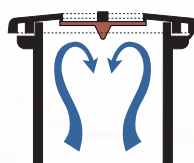
- A simple but effective one-way valve
- Quiet operation
- Attachable to supplementary oxygen supply
- Compatibility with standard ISO 15mm connectors
- Flip-top cap for easy cleaning
- Cosmetic cap and oxygen supply cap

Which offer your patients:

- Comfortable and effective speech
- Easier communication between users and listeners
- Unobtrusive and cosmetically acceptable design
- Simplicity in use



Inspired airflow directed to lungs



Expired airflow directed to larynx



### Ordering information

#### Orator Speaking Valve

Description	Pack Size	Product Code
With cosmetic cap & oxygen supply cap	2	Code: 100/550/000

## Voice restoration

### OptiVox Plus Electrolarynx kit

The Optivox Electrolarynx is a complete artificial speech aid kit including everything needed for immediate post laryngectomy voice production.

- Tonal purity and clarity without harsh background noise
- Functions as either a neck or intra-oral device
- Simple pitch adjustment



### Ordering information

OptiVox Plus Electrolarynx kit		
Product	Pack Size	Product Code
Electrolarynx Kit	1	OPTIVEXP
Replacement Oral tubes		
Standard silicone	3	OPTISOFT
Plastic	5	OPTIORAL

### Ultra Low™ and Duckbill voice prostheses

- Large variety of sizes to fit varying patient requirements
- Rounded tip and thin retention collar for easy insertion
- Auxiliary airflow port available



### Ordering information

Length	Ultra Low™ Resistance Product codes		Duckbill Product codes	
	16 Fr	20 Fr	16 Fr	20 Fr
1.4	B614UO	B214UO	BRVO614	BRVO214
1.6	B616UO	B216UO	BRVO616	BRVO216
1.8	B618UO	B218UO	BRVO618	BRVO218
2.0	B620UO	B220UO	BRVO620	-
2.2	B622UO	B222UO	BRVO622	BRVO222
2.6	B626UO	B226UO	BRVO626	BRVO226
3.0	B630UO	B230UO	BRVO630	BRVO230
3.3	-	-	BRVO633	BRVO233

All products supplied individually non-sterile with insertion device

## Voice restoration

### Bivona-Colorado™ voice prostheses

Available in either Duckbill or Ultra Low™ resistance, in a wide range of sizes.

#### Ordering information

Button O.D.(mm)	Valve Stem Length (mm)	Duckbill		Ultra Low™ Resistance	
		Product codes		Product codes	
		16 Fr	20 Fr	16 Fr	20 Fr
15.0	15.0	B51615	B52015	B5U615	B5U215
	20.0	B51620	B52020	B5U620	B5U220
	25.0	B51625	B52025	B5U625	B5U225
	30.0	B51630	B52030	B5U630	B5U230
17.5	15.0	B71615	B72015	B7U615	B7U215
	20.0	B71620	B71020	B7U620	B7U220
	25.0	B71625	B72025	B7U625	B7U225
	30.0	B71630	B72030	B7U630	B7U230
20.0	15.0	B21615	B22015	B2U615	B2U215
	20.0	B21620	B22020	B2U620	B2U220
	25.0	B21625	B22025	B2U625	B2U225
	30.0	B21630	B22030	B2U630	B2U230

All products supplied individually, non-sterile

### Dummy Prosthesis Depth Gauge

For rapid, accurate determination of required Bivona prosthesis length:

- Easy to read markings
- Thin retention collar for easy insertion
- Maintains puncture site
- Radio-opaque

#### Ordering information

Product Code	16Fr BDDG16	20Fr BDDG20
--------------	-------------	-------------

Products supplied individually, non-sterile

### Dummy Prosthesis

A stent to maintain the puncture site.

- Prevents puncture from closing
- Radio-opaque

#### Ordering information

Dummy prostheses		
Length	Product codes	
	16 Fr	20 Fr
2.2	DRC622	DRC222
2.6	DRC626	DRC226
3.0	DRC630	DRC230
3.3	DRC633	DRC233
3.6	DRC636	DRC236
4.0	DRC640	DRC240
4.3	DRC643	DRC243

All products supplied individually, non-sterile

## Voice restoration

### Bivona-Colorado™ accessories

Available in either duckbill or ultra low resistance, in a wide range of sizes.

#### Ordering information

Bivona-Colorado™ accessories				
Description	Button O.D. (mm)	(12 Fr)	Product codes (16 Fr)	(20 Fr)
Template	15.0		BTMP15	
	17.5		BTMP17	
	20.0		BTMP20	
Button	15.0		BTNO15	
	17.5		BTNO17	
	20.0		BTNO20	
Dummy prosthesis	15.0	B1512S	B1516S	B1520S
	17.5	B1712S	B1716S	B1720S
	20.0	B2012S	B2016S	B2020S
Sizing device			BCSD16	BCSD20

All products supplied individually, non-sterile

### Tracheostoma Valve

- Special fitting kit allows evaluation of adaptability, comfort and size for the individual patient

#### Ordering information

Tracheostoma Valve				
Product	Product codes			
Professional fitting kit	BPFKT4			
	Ultra light	Light	Medium	Firm
Patient kit	BPATUL	BPATLL	BPATMM	BPATFF
Valve only	BVNLYU	BVNLYL	BVNLYM	BVNLYF

Fitting kit contains 4 valve assemblies, 4 valve housings, 4 packages of adhesive discs, 1 bottle of silicone adhesive and an instruction manual. Patient kit contains one valve assembly, 2 valve housings, 2 packages of adhesive discs, 1 bottle of silicone adhesive and an instruction manual

### Tracheostoma Valve II

- Reliable performance
- Valve performance not affected by temperature or humidity
- Integral cough band reduces valve blowout

#### Ordering information

Tracheostoma Valve II		
Product	Product codes	
	Complete kit	Valve only
Tracheostoma Valve II	BTSVK2	BTSVO2
Tracheostoma Valve II Large	BTSVKL	BTSVOL

Complete kits contain 1 assembled valve, a set of 4 interchangeable springs, 2 valve housings, spare parts and adhesive materials. Valve only contains 1 assembled valve, 4 interchangeable springs and 1 spare parts kit

## Voice restoration

### Tracheostoma Vent

#### Ordering information

Tracheostoma Vent					
Size	(I.D./O.D. mm)	18(mm)	Product Code		
			27(mm)	36(mm)	55(mm)
8	(9.5/12.0)	BV0818	BV0827	BV0836	BV0855
9	(10.5/13.5)	BV0918	BV0927	BV0936	BV0955
10	(12.0/15.0)	BV1018	BV1027	BV1036	BV1055
12	(13.5/17.0)	BV1218	BV1227	BV1236	BV1255
14	(16.5/20.0)	BV1418	BV1427	BV1436	BV1455
16	(20.5/24.0)	BV1618	BV1627	BV1636	BV1655
Kit: Includes one each of all Size 8, 9, 10 and 12 codes					BV0KIT

All products supplied individually, non-sterile



### Bivona HME System for the Laryngectomee

- Replaces the functions of the nose and upper airway bypassed by laryngectomy
- Provides resistance, filtration, heat and humidity to the inspired air
- Enhances pulmonary function



HME101

#### Ordering information

Bivona HME System		
Description	Pack size	Product code
HME Cartridge	10	HME101
Self-Adhesive Housing	10	SAH101

## Special Tubes

### Sleep Apnea Tracheostomy Tube

- Non-wetting silicone surface facilitates suctioning and resists encrustation
- Easily capped and concealed low-profile design
- Steam autoclavable



#### Ordering information

Sleep Apnea Tracheostomy Tube				
I.D. (mm)	O.D. (mm)	Length (mm)	Pack size	Product Code
6.0	9.0	68	1	SAT605
6.5	10.0	73	1	SAT656
7.5	11.0	79	1	SAT757

Packed non-sterile with twill tape tie and (2) plugs

### Laryngectomy Tube

- Longer shaft lengths
- Wider neck flanges
- Soft and compliant silicone design for patient comfort



#### Ordering information

Laryngectomy Tube				
I.D. (mm)	O.D. (mm)	Shaft Length (mm)	Pack size	Product Code
9.5	12.0	85	1	BOSL1L
9.5	12.0	55	1	BOSL1S
11.0	14.0	105	1	BOSL3L
11.0	14.0	55	1	BOSL3S
13.0	16.0	85	1	BOSL5L
13.0	16.0	55	1	BOSL5S

Packed non-sterile with twill tape tie



# Special tubes

## 'Montandon' Tracheostomy Tube

- Extended tube design locates breathing system away from operative field for easier access
- Non-toxic, implant tested, kink resistant, soft ivory PVC protects delicate mucosal tissues
- Small volume traditional cuff on adult sizes ideal for intubation through delicate stomas while maintaining good short term seal
- Sterile and single use to avoid the risk of cross infection

### Ordering information

Montandon tube			
I.D. (mm)	O.D. (mm)	Pack size	Product Code
6.0	8.8	2	100/509/060
7.0	10.2	2	100/509/070
8.0	11.6	2	100/509/080
9.0	13.0	2	100/509/090
10.0	14.2	2	100/509/100



SPECIALITY PRODUCTS

## 4

### Associated products

As the producers of one of the most advanced and comprehensive range of tracheostomy products available, Smiths Medical are aware that care of these patients is not completed by intubation. The Smiths Medical range of associated products are all designed and manufactured to the same exacting standards to ensure total compatibility.

For full details of all these products please see the General Anaesthesia Supplement or main Airway Catalogue.



## Stericath

A closed ventilation suction system which allows simple and safe maintenance of pressures during suctioning of the critically ill patient, while also reducing the risk of cross contamination. Available in single and dual lumen.

- Single lumen
  - The whole of the lumen diameter is available as a suction pathway. Ideal if an irrigation channel is not required. Available with catheter mount in pack.
- Dual lumen
  - Ideal if saline installation is indicated. The integral irrigation line delivers fluid from the tip for effective bronchial lavage.



### Ordering information

Description	Sizes (F)/O.D. (mm)	Length (mm)	Pack size	Product Code
Single Lumen	14F/4.7	300	20	6109-14
Single lumen with catheter mount	14F/4.7	300	20	6109-14FE
Dual Lumen	14F/4.7	300	20	6111-14

## Suction Catheters

The comprehensive range of endobronchial suction catheters with Terminal or Terminal and Lateral Eye offer quality, safety and economy in response to all suctioning requirements.



### Ordering information

Sizes (F)	O.D. (mm)	Length (mm)	Pack size	Suction Catheter Terminal eye	Suction Catheter Terminal eye & 2 Lateral eyes
4	1.3	380	50	100/360/040	
5	1.7	380	50	100/360/050	
6	2.0	460	50	100/360/060	100/361/060
8	2.7	460	50	100/360/080	100/361/080
10	3.3	460	50	100/360/100	100/361/100
12	4.0	610	50	100/360/120	100/361/120
14	4.7	610	50	100/360/140	100/361/140
16	5.3	610	50	100/360/160	100/361/160
18	6.0	610	50	100/360/180	100/361/180
20	6.7	610	50	100/360/200	100/361/200

## Thermovent T

A 15mm female connector, single use Heat & Moisture Exchanger (HME) which captures heat and moisture on expiration and returns it to the patient on inspiration. It is suitable for spontaneously breathing patients with a tracheostomy tube.



- Low-profile design ensures maximum comfort and minimal protrusion
- High performance, double paper element reduces the risk of blockage with minimal resistance to flow
- Lightweight. Minimises the drag on tracheostomy tube
- Convenient oxygen therapy - can easily accommodate Thermovent O<sub>2</sub>
- Sterile and single use. Avoids risk of cross infection

### Ordering information

Description	Pack Size	Product Code
Thermovent T	50	100/570/015

## Thermovent O<sub>2</sub> Delivery Aid

A specifically designed oxygen delivery aid for Thermovent T, provides the easiest and most comfortable way of supplying oxygen enriched humidified air.



### Ordering information

Description	Pack Size	Product Code
Thermovent O <sub>2</sub>	10	100/575/010

## Thermovent HEPA

- Low deadspace bacterial and viral filter with HME properties offering optimum hydrophobic filtration performance
- Hydrophobic filter medium provides protection against liquid and airborne contamination
- Even-pleated filter medium allows maximum filtration efficiency with minimal resistance to flow
- Gas sampling port, centrally located to ensure accuracy of readings



### Ordering information

Description	Pack Size	Product Code
Thermovent HEPA	50	100/585/000

## Thermavent 600 and Thermavent 1200

- High efficiency HME paper elements recover approximately 75% of energy and moisture
- Low resistance to flow minimises pressure build and reduces the work of breathing
- Small dead space
- Lightweight



### Ordering information

Description	Pack Size	Product Code
Thermavent 600	10	100/580/015
Thermavent 1200	10	100/582/000

## Catheter mounts

- Single use lightweight design minimises the drag upon anaesthetic breathing equipment
- Transparent material allows identification of blockages or fluid accumulation within the device
- Low deadspace, minimises re-breathing
- Non-conductive
- Available with Double Swivel Connector and Gas Sampling Elbow



100/590

### Ordering information

Description	Pack Size	Product Code
Without Double Swivel Connector:	20	100/590/000
With Double Swivel Connector:	10	100/594/000
Plain	50	2837
With Gas Sampling Elbow	50	2838

# 5

## Accessories

Smiths Medical provide a number of accessories to further enhance the ease of use of their tubes for both clinician and patient.

### Tracheostomy tube holder - Velcro™ fastening

- Velcro tabs for quick, easy and secure fastening
- Elastic section combines with Velcro fastening to ensure a comfortable and reliable fit
- Soft absorbent lining for minimum chafing
- Wide band to prevent twisting and constriction



#### Ordering information

Description	Pack Size	Product Code
Width 25mm	10	100/503/200

### Tracheostomy tube holder - Foam

- Strong, soft, lightweight, fabric covered foam increases patient comfort
- Available in adult, paediatric and infant sizes



#### Ordering information

Description	Pack Size	Product Code
Adult	100	520000
Paediatric	100	520001
Infant	100	520002

### Cuff Inflator Pressure Gauge

- Controlled initial cuff inflation
- Intermittent monitoring with instant visual confirmation of intra-cuff pressure

#### Ordering information

Description	Pack Size	Product Code
Cuff Inflator & Pressure with Gauge Connecting Tube	1	100/568/000*
Separate Connecting Tubes	10	100/569/000

\*Product 100/568/000 contains latex

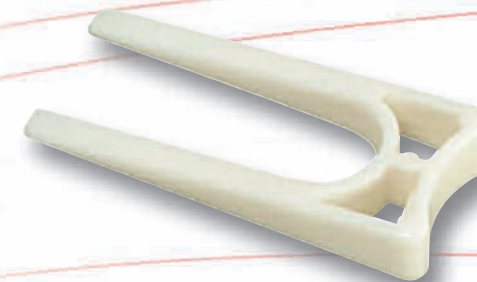


### Tracheostomy tube Disconnection Wedge

- Facilitates disconnection of circuit from tracheostomy tube

#### Ordering information

Description	Pack Size	Product Code
Tube Disconnection Wedge	20	100/555/100



### Brushes

- For cleaning re-usable inner cannulae

#### Ordering information

Description	Pack Size	Product Code
Brushes	40	100/855/000

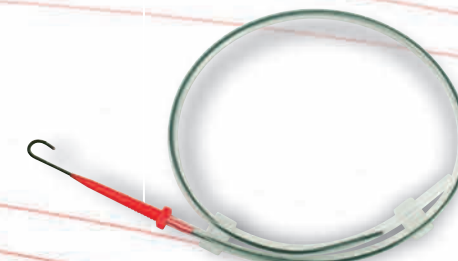


### Guidewires

- Spare guidewires for use with either the Dilational or Griggs technique percutaneous tracheostomy kits

#### Ordering information

Description	Pack Size	Product Code
Spare guidewires	5	100/544/000





## Tracheostomy mask and connectors

### Ordering information

Description	Pack Size	Product Code
Tracheostomy mask, vinyl, adult.	50	2400
Venturi Aerosol tracheostomy mask, adult, 24-50%	25	2640
Tracheostomy Y-assembly, drainage bag	50	1573
Tracheostomy T-piece, 15mm I.D./22mm O.D.	50	1575
Tracheostomy elbow, 15mm I.D./22mm O.D., with cap	50	1577



2400

## Stoma button

- Prevents narrowing of the stoma during intermittent use of tracheostomy or laryngectomy tubes.

### Ordering information

Description	Size O.D. (mm)	Pack Size	Product Code
Size 1	8	10	109/530/010
Size 2	10	10	109/530/020
Size 3	12	10	109/530/030
Size 4	14	10	109/530/040



## 6 Educational Materials

Smiths Medical also produces a range of support materials for all those involved in the care of the tracheostomy patient, as well as for the patient.



## Educational literature



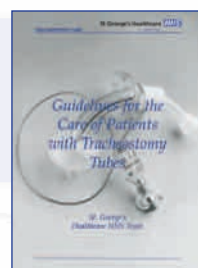
Tracheostomy Patient Support Guide - Booklet to help patients and relatives to understand physical effects and implications of having a tracheostomy.

Available from your local Smiths Medical distributor  
or Smiths Medical on **+44 (0) 1303 260551**



Tracheostomy Educational Support Guide - Booklet to help Nurses and ward staff understand what is a tracheostomy, types of tracheostomy tubes and basics of tracheostomy care.

Available from your local Smiths Medical distributor  
or Smiths Medical on **+44 (0) 1303 260551**



'Guidelines for the care of patients with tracheostomy tubes'. Second edition of tracheostomy care policy as practiced at St Georges Hospital in London, UK. The aim of the policy is to set out standards necessary to provide the basis of high quality patient care.

Available from your local Smiths Medical distributor  
or Smiths Medical on **+44 (0) 1303 260551**



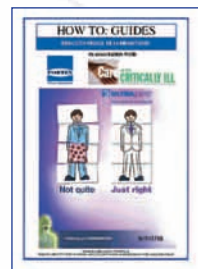
'How To Guide: Tracheostomy tube management. Produced in association with Care of the Critically Ill, these guides are specifically aimed at those working in intensive care. This guide looks at the management of patients with tracheostomy tubes.

Available from your local Smiths Medical distributor  
or Smiths Medical on **+44 (0) 1303 260551**



How To Guide: 'Pitfalls in tracheostomy care'. Produced in association with Care of the Critically Ill, these guides are specifically aimed at those working in intensive care. This guide looks at the management of complications occurring in patients with tracheostomy tubes.

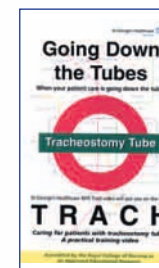
Available from your local Smiths Medical distributor  
or Smiths Medical on **+44 (0) 1303 260551**



How To Guide: 'Percutaneous Tracheostomy'. Produced in association with Care of the Critically Ill, these guides are specifically aimed at those working in intensive care. This guide looks at the advantages of using ULTRAPerc for percutaneous tracheostomy.

Available from your local Smiths Medical distributor  
or Smiths Medical on **+44 (0) 1303 260551**

## Educational Videos



"Going Down The Tubes" is a practical training video for healthcare practitioners who undertake to care for patients with tracheostomies.

Available from St Georges Medical Television.

Telephone: **+44 (0) 208-725-2701**



Single Dilator Percutaneous Technique Video

Educational video demonstrating the technique for inserting Blue Line Ultra tracheostomy tubes using the new 'ULTRAPerc' percutaneous dilational tracheostomy kits from Smiths Medical.

Available from your Smiths Medical distributor  
or Smiths Medical on **+44 (0) 1303 260551**



Griggs Percutaneous Technique Video

Educational video demonstrating the technique for inserting Blue Line tracheostomy tubes using the Griggs forceps percutaneous tracheostomy kits from Smiths Medical.

Available from your Smiths Medical distributor  
or Smiths Medical on **+44 (0) 1303 260551**



Fome-Cuf® Video

A short in-service training tape for teaching the function and applications of the Fome-Cuf® tracheostomy systems.

Available from your Smiths Medical distributor  
or Smiths Medical on **+44 (0) 1303 260551**



Nu-Trake™/Pedia-Trake™ Cricothyrotomy Video

Educational video demonstrating the techniques for utilising the Nu-Trake™ and Pedia-Trake™ Cricothyrotomy devices.

Available from your Smiths Medical distributor  
or Smiths Medical on **+44 (0) 1303 260551**

# Demonstration Heads

The Smiths Medical Tracheostomy Head is a multifunctional mannequin, which presents an anatomical challenge to the user, but also offers a realistic feel particularly when using the Smiths Medical Percutaneous Dilatational Tracheostomy Products. The unique design provides an ideal simulation mannequin for:

- Practicing the Percutaneous Tracheostomy procedure using the ULTRAperc Single or Serial Dilator methods or the Griggs Dilating Forceps method
- Patient demonstration and education of tracheostomy tube change, care and management
- Support during nurse training and education
- Practicing the Cricothyroidotomy procedure using Mini-Trach II Seldinger kit

Up to 16 procedures can be performed on a single trachea, which is replaceable along with the highly realistic skin.



### Ordering information

Description	Pack Size	Product Code
Tracheotomy Trainer & Case	1	TOT100*
Trauma Kit (2 Tracheas & 4 Skins)	1	TOT101
Replacement Thyroid	1	TOT102
Replacement Carina with balloons	1	TOT103*
Black Carry Case	1	TOT104

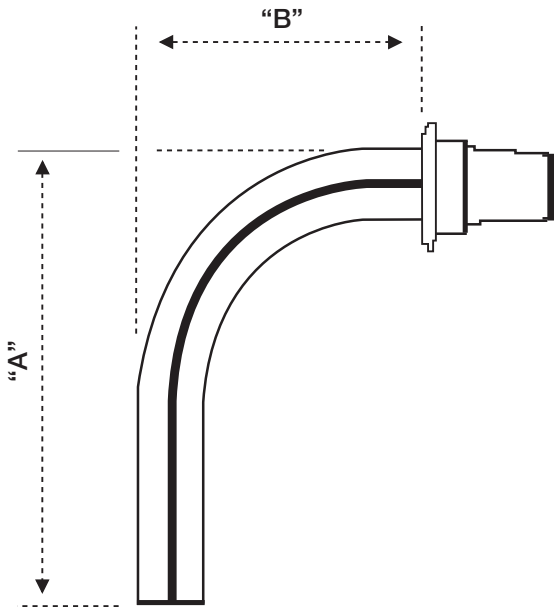
\*Product codes TOT100 and TOT103 contains latex.

## 7 Customisation Templates

Smiths Medical endeavour to produce a product range to suit the widest variation among patients. For those patients whose needs cannot be met by our normal range, these templates will enable us to provide you with a product made to their precise requirements and your exact specification.

To order, complete the details on the required template and fax to the appropriate number.

# Smiths Medical Special Tracheostomy Tube Guides Standard Product Dimensions



**A = Measurement "bend to tip"**  
**B = Measurement "bend to flange"**

If you require a longer tube, from bend to tip and/or bend to flange; add the additional length in Millimetres to those for a tube with the same I.D. as described below.

If you require a shorter tube, from bend to tip and/or bend to flange; subtract the additional length in Millimetres to those for a tube with the same I.D. as described below.

TUBE SIZE (i.d.)	STANDARD PRODUCT "A" Dimension (Bend to Tip)	STANDARD PRODUCT "B" Dimension (Bend to Flange)
3.0mm	29.0mm	17.0mm
3.5mm	31.0mm	19.0mm
4.0mm	33.0mm	22.0mm
4.5mm	35.0mm	24.0mm
5.0mm	37.0mm	26.0mm
6.0mm	43.0mm	28.0mm
7.0mm	51.0mm	33.0mm
7.5mm	55.0mm	36.0mm
8.0mm	59.0mm	39.0mm
9.0mm	67.0mm	44.0mm
10.0mm	76.0mm	50.0mm

# Smiths Medical Special Tracheostomy Tube Request

PLEASE COMPLETE THE FOLLOWING IN **BLOCK CAPITALS**

Requested By: \_\_\_\_\_ Prescribing Clinician

For: \_\_\_\_\_ Patient

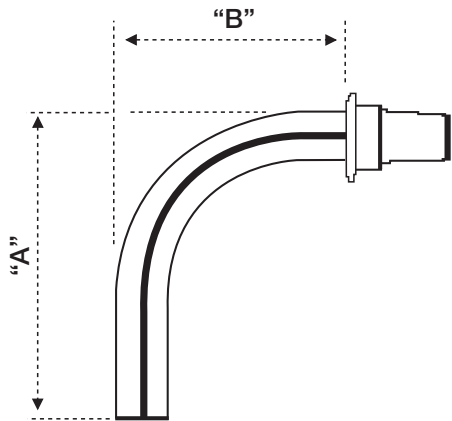
Ward/Unit: \_\_\_\_\_

Hospital Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Post Code: \_\_\_\_\_

Telephone: \_\_\_\_\_ Ext: \_\_\_\_\_ Fax: \_\_\_\_\_

Order Number: \_\_\_\_\_ Purchasing Contact: \_\_\_\_\_



See reference sheet  
for measurements of  
standard products

Product Type: \_\_\_\_\_  
(Cuffed or uncuffed)

Size: (I.D.): \_\_\_\_\_

"A" Dimension: \_\_\_\_\_ mm

"B" Dimension: \_\_\_\_\_ mm

Flange Type: \_\_\_\_\_  
(Plain or 15mm Termination)

Quantity Required: \_\_\_\_\_

A = Measurement "bend to tip"  
B = Measurement "bend to flange"

Design Approved \_\_\_\_\_ / /  
(Signature of prescribing clinician) Date

Special Requirements

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

International customers fax to +44 (0) 1303 236899  
UK customers fax to +44 (0) 1303 265560



# Customisation Templates

Patient's Name: \_\_\_\_\_

Hospital: \_\_\_\_\_

Consultant: \_\_\_\_\_

Nurse/Coordinator: \_\_\_\_\_

Hospital Purchase Order No: \_\_\_\_\_

Patient's Date of Birth: \_\_\_\_\_

Dept: \_\_\_\_\_

Tel No: \_\_\_\_\_

Fax No: \_\_\_\_\_

Smiths Medical Internal Order No: \_\_\_\_\_

## INTERNATIONAL CUSTOMIZED FLEXTEND TRACHEOSTOMY TUBE TEMPLATE

SELECT TYPE SERVICE

☐ 3-4 WEEKS (STERILE)

☐ EXPRESS SERVICE (NON STERILE)

NECK FLANGE TYPE:

A

FIXED NECK FLANGE

AVAILABLE SIZES:

2.5 - 5.5mm

B

FIXED NECK FLANGE

AVAILABLE SIZES:

2.5 - 9.5mm

C

FIXED NECK FLANGE

AVAILABLE SIZES:

2.5 - 9.5mm

D

FIXED NECK FLANGE

AVAILABLE SIZES:

2.5 - 9.5mm

\*"C" SHAFT IS WIRE REINFORCED ON ALL OPTIONS

OPTIONAL:

☐ SOLID SILICONE

☐ FOME-CUF® CUFF POSITION FLUSH (OR) \_\_\_\_\_ mm

☐ AIRE-CUF® CUFF

☐ TTS™ CUFF

FROM NECK FLANGE

"C" SHAFT LENGTH AT CENTRE LINE \_\_\_\_\_ MM

"D" SHAFT LENGTH AT CENTRE LINE \_\_\_\_\_ MM

SHAFT STYLE: ("D" SHAFT ONLY)

☐ STANDARD CURVE

☐ HYPERFLEX™

NON WIRE REINFORCED

WIRE REINFORCED

CUFF DISTANCE FROM TIP \_\_\_\_\_ mm

(OR)

☐ STANDARD DISTANCE

\*\* SHAFT: I.D. \_\_\_\_\_ MM

(OR) O.D. \_\_\_\_\_ MM

CUFF TYPE(S):

☐ UNCUFFED

☐ TTS™ TIGHT TO SHAFT

5mm MIN

5mm MIN

☐ AIRE-CUF®

PED. A/C

ADULT A/C (MID-RANGE)

5mm MIN

☐ FOME-CUF®

3mm MIN

DISTRIBUTOR:

DISTRIBUTOR CONTACT NAME:

TEMPLATE REF. NO. : \_\_\_\_\_

DATE:

TMPLATE1-INTL REV. 0

SR.034

CAUTION: FEDERAL (USA) LAW RESTRICTS THIS DEVICE TO SALE BY OR ON THE ORDER OF A PHYSICIAN.

NOTE: PLEASE PRINT CLEARLY. BIVONA STAFF CANNOT MAKE ANY ALTERATIONS TO THE COMPLETED TEMPLATE.

BIVONA

BIVONA USE ONLY

BIVONA ENGRG. APPROVAL:

REORDER:

# Customisation Templates

Patient's Name: \_\_\_\_\_

Hospital: \_\_\_\_\_

Consultant: \_\_\_\_\_

Nurse/Coordinator: \_\_\_\_\_

Hospital Purchase Order No: \_\_\_\_\_

Patient's Date of Birth: \_\_\_\_\_

Dept: \_\_\_\_\_

Tel No: \_\_\_\_\_

Fax No: \_\_\_\_\_

Smiths Medical Internal Order No: \_\_\_\_\_

## INTERNATIONAL CUSTOMIZED ADJUSTABLE NECK FLANGE HYPERFLEX™

SELECT TYPE SERVICE

☐ 3-4 WEEKS (STERILE)

☐ EXPRESS SERVICE (NON STERILE)

NECK FLANGE TYPE:

A

ADJUSTABLE NECK FLANGE

AVAILABLE SIZES:

2.5 - 5.5mm

B

ADJUSTABLE NECK FLANGE

AVAILABLE SIZES:

5.0 - 9.5mm

C

ADJUSTABLE NECK FLANGE

AVAILABLE SIZES:

5.0 - 9.5mm

CUFF DISTANCES FROM TIP \_\_\_\_\_ MM

(OR)

☐ STANDARD DISTANCE

SHAFT LENGTH \_\_\_\_\_ mm

SHAFT I.D. \_\_\_\_\_ mm

HYPERFLEX™ WIRE REINFORCED

CUFF TYPE(S):

☐ UNCUFFED

☐ TTS™ TIGHT TO SHAFT

5mm MIN

5mm MIN

☐ AIRE-CUF®

PED. A/C

ADULT A/C (MID-RANGE)

5mm MIN

☐ FOME-CUF®

3mm MIN

DISTRIBUTOR:

DISTRIBUTOR CONTACT NAME:

TEMPLATE REF. NO. : \_\_\_\_\_

DATE:

TMPLATE2-INTL REV. 0

SR.034

CAUTION: FEDERAL (USA) LAW RESTRICTS THIS DEVICE TO SALE BY OR ON THE ORDER OF A PHYSICIAN.

NOTE: PLEASE PRINT CLEARLY. BIVONA STAFF CANNOT MAKE ANY ALTERATIONS TO THE COMPLETED TEMPLATE.

BIVONA

BIVONA USE ONLY

BIVONA ENGRG. APPROVAL:

REORDER:

# Customisation Templates

Patient's Name: \_\_\_\_\_ Patient's Date of Birth: \_\_\_\_\_  
Hospital: \_\_\_\_\_ Dept: \_\_\_\_\_  
Consultant: \_\_\_\_\_ Tel No: \_\_\_\_\_  
Nurse/Coordinator: \_\_\_\_\_ Fax No: \_\_\_\_\_  
Hospital Purchase Order No: \_\_\_\_\_ Smiths Medical Internal Order No: \_\_\_\_\_

# INTERNATIONAL CUSTOMIZED - CUFFLESS TRACHEOSTOMY TUBE TEMPLATE


**SELECT TYPE SERVICE**

☐ 3-4 WEEKS (STERILE)

☐ EXPRESS SERVICE (NON STERILE)

**NECK FLANGE TYPE:**


**A**



**FIXED NECK FLANGE**  
AVAILABLE SIZES: 2.5 - 5.5mm

☐ WITH ISO CONNECTOR OR  
☐ WITHOUT ISO CONNECTOR


**B**



**FIXED NECK FLANGE**  
AVAILABLE SIZES: 2.5 - 5.5mm

☐ WITH ISO CONNECTOR OR  
☐ WITHOUT ISO CONNECTOR

**C**




**FIXED NECK FLANGE**  
AVAILABLE SIZES: 2.5 - 9.5mm

☐ WITH ISO CONNECTOR OR  
☐ WITHOUT ISO CONNECTOR


**SHAFT: I.D. \_\_\_\_\_ mm**  
**(OR) O.D. \_\_\_\_\_ mm**

**SHAFT STYLE:**

☐ **STANDARD SILICONE**



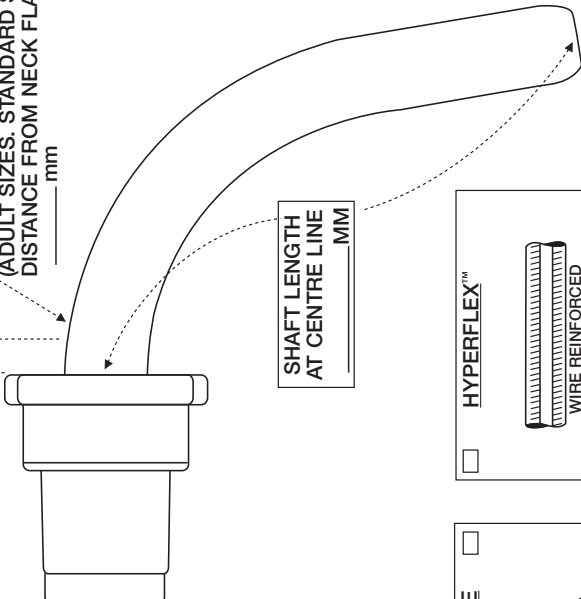
☐ **HYPERFLEX™**



**WIRE REINFORCED  
CAN NOT BE FENESTRATED**


**3mm MIN. DISTANCE TO  
OPTIONAL FENESTRATION**

☐ **FENESTRATION  
(ADULT SIZES. STANDARD SILICONE ONLY)  
DISTANCE FROM NECK FLANGE \_\_\_\_\_ mm**



**SHAFT LENGTH  
AT CENTRE LINE \_\_\_\_\_ MM**

**D**



**FIXED NECK FLANGE**  
AVAILABLE SIZES: 2.5 - 9.5mm

☐ **WITHOUT ISO CONNECTOR**

**SHAFT: I.D. \_\_\_\_\_ mm**  
**(OR) O.D. \_\_\_\_\_ mm**

**DISTRIBUTOR:**

**DISTRIBUTOR CONTACT NAME:**

**TEMPLATE REF. NO. :**

**DATE:**

**BIVONA USE ONLY**

**BIVONA ENGRG. APPROVAL:**

**REORDER:**

**TEMPLATE1A-INTL REV. 0**

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# CERTIFICATE OF REGISTRATION

This is to certify that the management system of:

## SMITHS MEDICAL DEUTSCHLAND GmbH

Bretonischer Ring 3, D-85630 Grasbrunn, Germany

See appendix for additional sites and additional site scopes

has been registered by Intertek as conforming to the requirements of:

## EN ISO 13485:2016

The management system is applicable to:

Design, manufacture, inspection, storage and distribution of  
Pressure Monitoring, Infusion Disposables, Interventional  
Imaging, Neurosurgery, Vascular Access.

The Servicing of active medical devices.

**Certificate Number:**

119-04 C

**Initial Certification Date:**

08 June 2004

**Date of Certification Decision:**

25 June 2018

**Issuing Date:**

25 June 2018

**Valid Until:**

24 June 2021



061

**Calin Moldovean**

President, Business Assurance

AMTAC Certification Services Limited, T/A Intertek;  
Milton Keynes, UK

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of Intertek Holdings Ltd"

Intertek Certification Limited is a  
UKAS accredited body under  
schedule of Accreditation No. 061





## CERTIFICAT DE ÎNREGISTRARE

Se certifică prin prezenta că sistemul de management al:

# SMITHS MEDICAL DEUTSCHLAND GmbH

Bretonischer Ring 3, D-85630 Grasbrunn,  
Germania

Pentru locații și domenii suplimentare, vedeți anexa

a fost înregistrată de către Intertek deoarece se  
conformează cerințelor:

## EN ISO 13485:2016

### Sistemul de management este aplicabil pentru:

Proiectarea, fabricarea, inspectarea,  
depozitarea și distribuirea Dispozitivelor de  
Monitorizare a Tensiunii, a Dispozitivelor de  
Injectare de Unică Folosință, a Dispozitivelor  
pentru Intervenții, Imagistică, Neurochirurgie,  
Acces Vascular.

Service-ul dispozitivelor medicale active.

Certificat Număr:

119-04 C

Data Certificării Inițiale:

08 Iunie 2004

Data Deciziei Certificării:

25 Iunie 2018

Data Emiterii:

25 Iunie 2018

Valabil Până la:

24 Iunie 2021



Semnătura - indescifrabilă

**Calin Moldovean**

Președinte, Business Assurance

AMTAC Certification Services Limited, T/A Intertek;  
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Nr. 2769/2015



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