

La Premiere Plus
laryngeal airway
SINGLE USE

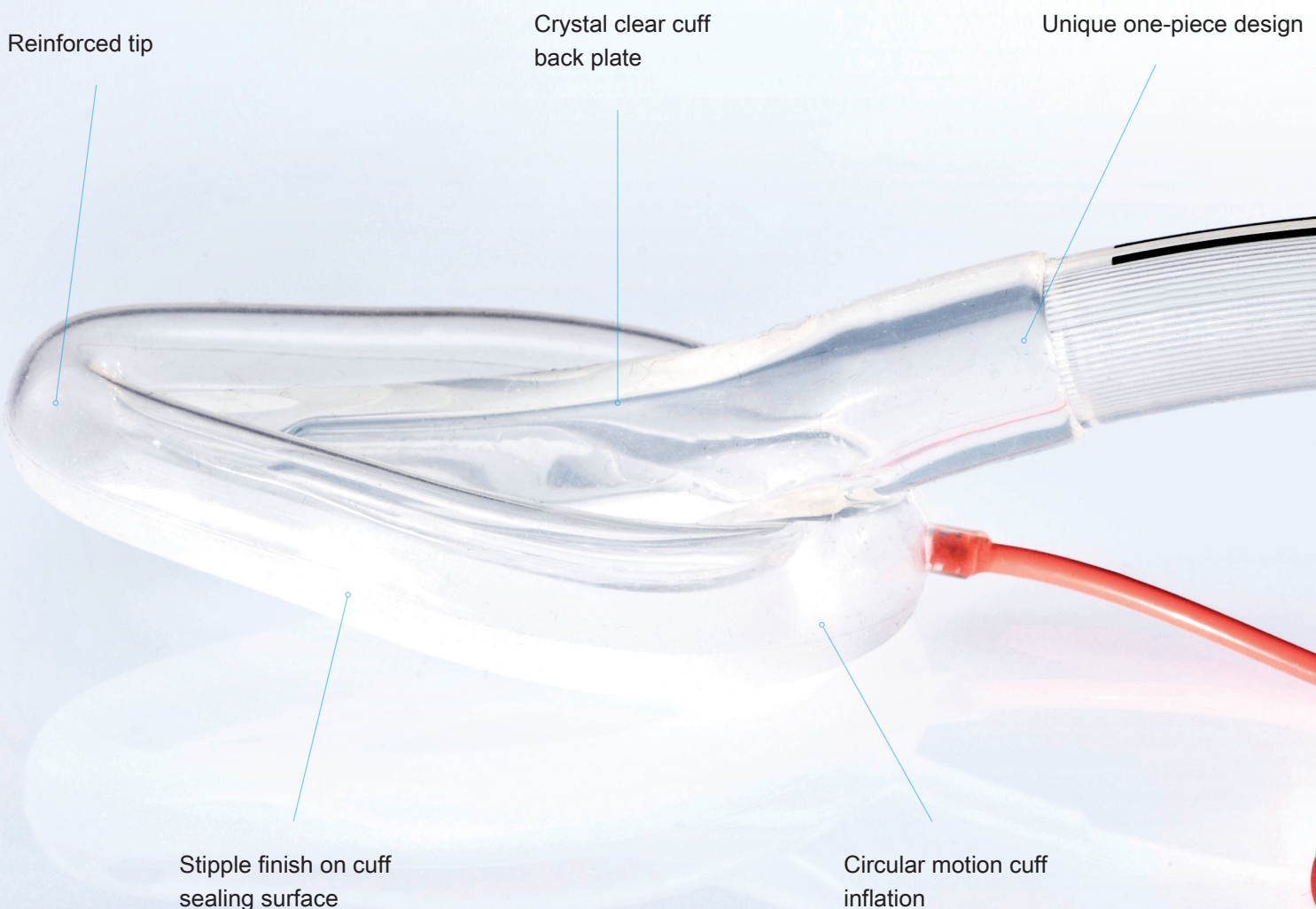
La Encore Plus
laryngeal airway
REUSABLE



**Laryngeal
Airways**

The upper airway is one of the most sensitive regions of the body

The unique features of *la* **Premiere Plus** allow ease of insertion and reduced trauma of soft tissue and is therefore the premiere choice for airway management



Premiere Quality

The unique, one-piece design of the cuff and lumen is made from AmSIL, a special blend of medical grade, liquid silicone rubber.

Premiere Ease of Use

The distinctive, anatomical design allows accurate alignment of the laryngeal airway during insertion.

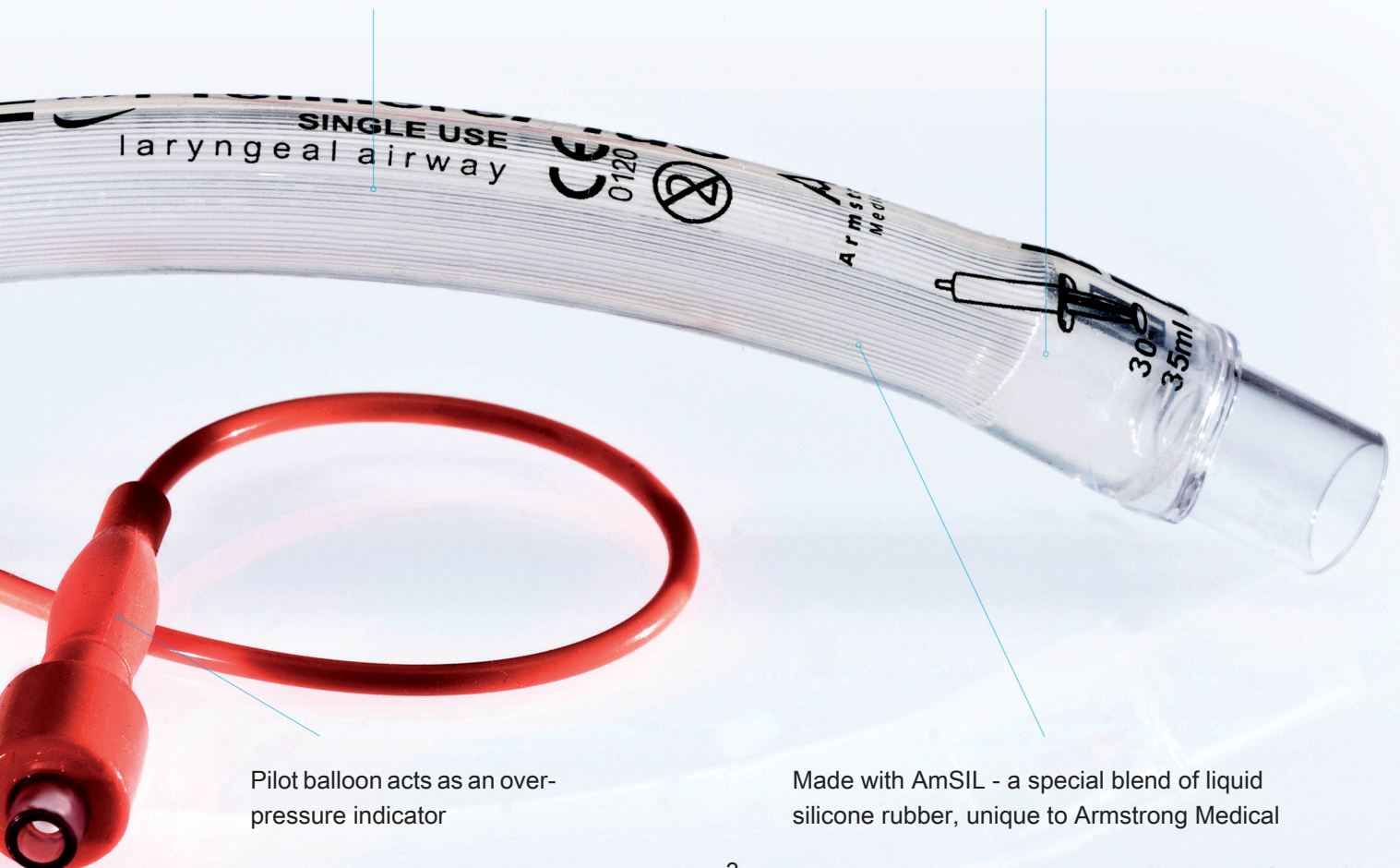
Premiere Features

The new and improved features of LaPremiere Plus optimise patient safety and provide a sterile, single use alternative to masks and, in some cases, ET tubes.

LaPremiere Plus

Lumen resistant to kinking and occlusion

Lumen internal diameter accepts passage of orotracheal tube



Pilot balloon acts as an over-pressure indicator

Made with AmSIL - a special blend of liquid silicone rubber, unique to Armstrong Medical

Ease of Use

Every characteristic of *LaPremiere Plus* has been carefully considered to ensure ease of use



Flexibility

The primary aim of airway management is to provide a patent airway followed by ventilation of the lungs (Ulrich-Pur). Subsequently, the lumen of LaPremiere Plus has been designed to remain patent and resistant to kinking and occlusion when bent to 180°. This unique degree of increased flexibility will assist with positioning of the breathing system outside the surgical field. This flexibility minimises transference of movement, therefore reducing risk of displacement.

When bent, the cuff of the airway exerts less force than PVC cuffs.

Anatomically-shaped Cuff

The unique, anatomically-shaped cuff profile of LaPremiere Plus enables optimal placement of the airway. The 'inflate to fit' mechanism of the airway can reduce tissue trauma.

Visual Indicators

The inflation line and pilot balloon are colour-coded on all 7 sizes of the airway, providing easy identification when sizing and when in use.

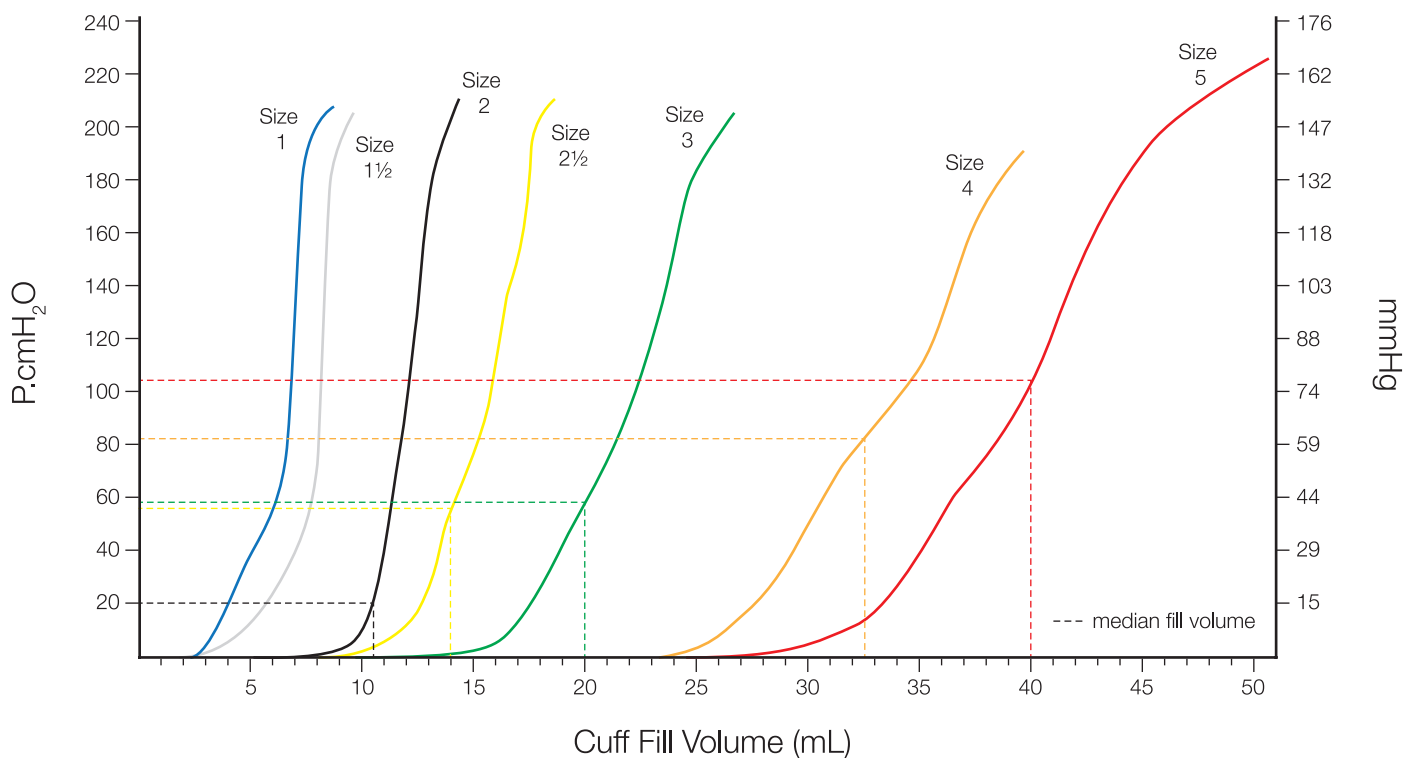
Clear symbols and markings, using non-removable ink, are used on the tube lumen. Unique symbols detail vital information and are strategically placed on the lumen to be clearly visible when the airway is inserted.

The polished, crystal clear cuff back plate of the product improves viewing during placement and enables secretions to be clearly seen upon removal. The more lubricious cuff surface makes insertion less traumatic and assists in achieving more first time placements.

Reusable Option

The distinctive characteristics of the single use airway are also available in a reusable format, LaEncore Plus. Please see LaEncore Plus leaflet for further product details.





Graph 1: Laryngeal Airway Cuff Pressure Volume Curve

Inflation Technique

Studies have shown that inflation of a laryngeal airway cuff should be to the point of providing a “just seal” in the airway (Brimacombe). However, Brain (Irish Congress of Anaesthesia) suggests that common practice is to over-inflate the cuff in spite of manufacturers’ recommendations of a maximum pressure of 60cmH₂O in the cuff.

The cuff of LaPremiere Plus inflates in a circular, even motion starting from the cuff tip. This distinctive inflation mechanism ensures both the accurate positioning of the cuff and a secure seal each time.

For each individual patient the mask forms itself to the contours of the hypopharyngeal area, providing a secure, non-traumatic, even seal, preventing localised high pressure points in pharyngeal soft tissue.

Pharyngeal mucosal perfusion is reduced progressively in the posterior pharynx when mucosal pressure is increased to 80cmH₂O. Cuff pressure provides reliable information about mucosal pressure and should be less than 120cmH₂O to prevent mucosal ischemia (Brimacombe). At the recommended cuff fill volumes using LaPremiere Plus, mucosal pressures remain well below 120cmH₂O

even with the largest mask size (see Graph 1). In addition, the thin wall of the unique pilot balloon acts as an over-pressure indicator. The ‘inflate to fit’ technique of the airway minimises intracuff pressure by clearly indicating pressure in excess of 60cmH₂O.

In current practice, choice of airway size and fixed inflation volume is determined by patient weight, regardless of airway pathology. With LaPremiere Plus a fill volume range enables the clinician to tailor cuff volumes to specific individual needs thereby further reducing the risk of soft tissue injury (see Table 1 for fill volume range details).



Patient Safety

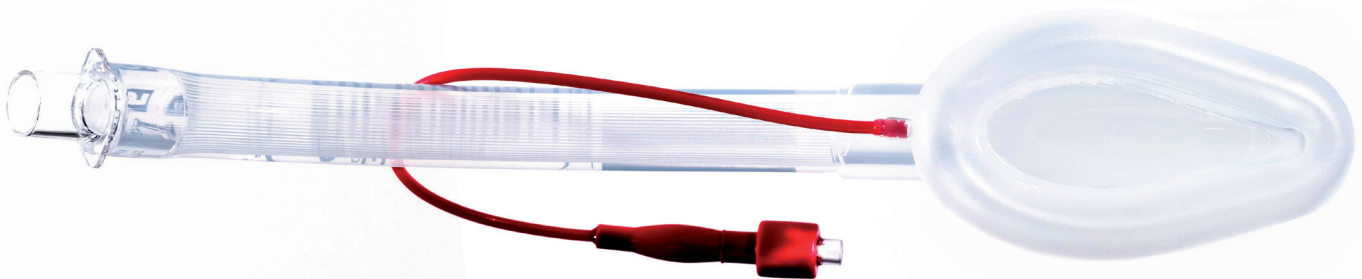
La **Premiere Plus** has been designed to maximise comfort and safety for the patient



Pressure Indicator

Incidence of sore throat following use of a laryngeal mask in airway management can be reduced significantly by reducing intracuff pressure to the minimum required for an effective seal (Nott, Brimacombe). With this airway, distension of the pilot balloon will occur when there is excessive intracuff pressure caused by over-inflation.

Similarly, deflation of the pilot balloon indicates loss of intracuff volume/pressure and may signify a need for additional cuff inflation. LaPremiere Plus therefore reduces the risk of patient trauma, providing the added benefits of safety and security.



Unique One-piece Design

The cuff, back plate and lumen of LaPremiere Plus are made as a unique one-piece moulding from AmSIL, our special blend of liquid silicone rubber. This distinct manufacturing process ensures accurate alignment of the laryngeal airway during insertion.

Conversely, a twisted airway may lead to a misguided positioning and increase the risk of displacement and therefore trauma (Brimacombe). The smooth insertion of the airway ensures protection of the pharyngeal soft tissue.

At the point of insertion, rigidity of the cuff tip is essential. LaPremiere Plus has been designed with a reinforced tip to assist with a better rate of first time placement and resist inadvertent folding of the cuff.

A stipple finish on the cuff sealing surface of the product enables gripping of the soft tissues of the hypopharynx, further reducing the risk of displacement and therefore preventing leakage when the patient moves or whenever torsion is applied to the breathing circuit.

The lumen internal diameter of LaPremiere Plus accepts passage of an orotracheal tube, without cutting the inflation line.

Colour Code	Size	Description	Recommended Patient Weight (kg)	Cuff Fill Volume Range (mL)	Maximum Cuffed Tracheal Tube Outer Diameter (mm)*
	1	Neonatal	< 5	3 - 5	5 (non-cuffed)
	1 1/2	Paediatric	5 - 10	6 - 8	6 (non-cuffed)
	2	Infant	10 - 20	9 - 12	6 (non-cuffed)
	2 1/2	Child	20 - 30	12 - 16	7 (cuffed)
	3	Large Child/Small Adult	30 - 50	18 - 22	9 (cuffed)
	4	Adult	50 - 70	30 - 35	9 (cuffed)
	5	Large Adult	>70	37 - 43	10 (cuffed)

*The Difficult Airway Society (DAS) Guidelines recommend tracheal intubation via a laryngeal airway as part of a default strategy in the event of unexpected failed direct laryngoscopy.

Table 1: Laryngeal Airway Fill Volume Range

Choice

LaPremiere Plus is available in seven sizes and also as a reusable airway, LaEncore Plus.

An extensive range of customised anaesthesia kits and accessories provide convenience and ease of use.

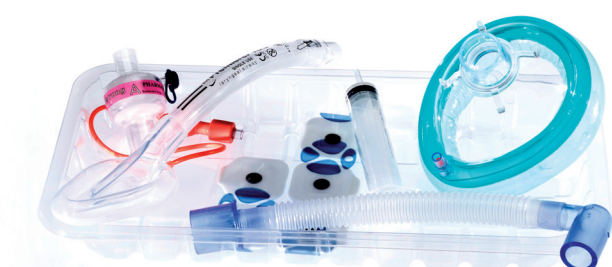


LaEncore Plus

LaPremiere Plus has introduced several important innovations designed to improve performance and increase safety. These unique features are also available in a reusable version - LaEncore Plus. LaEncore Plus provides a cost effective alternative to other reusable laryngeal airways.

Secura

A high quality, single use combined fixation and bite guard for use with orotracheal tubes and supraglottic airways, such as laryngeal airways. Secura mitigates the risk of the patient biting the tube or airway lumen and preventing gas flow.


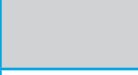





Ultra Select customised kits

Our range of respiratory disposables include pre-packed anaesthesia induction kits, customised for your convenience and choice.

Ordering Information

Laryngeal Airways

Colour	Size	Description	la <i>Encore Plus</i> Reusable	la <i>Premiere Plus</i> Single Use	Qty
	1	Neonatal	AML500100	AML555100	5
	1 1/2	Paediatric	AML500150	AML555150	5
	2	Infant	AML500200	AML555200	5
	2 1/2	Child	AML500250	AML555250	5
	3	Large Child/Small Adult	AML500300	AML555300	10
	4	Adult	AML500400	AML555400	10
	5	Large Adult	AML500500	AML555500	10

For a product sample or further information please do not hesitate to contact us.

All Armstrong Medical Products are manufactured to quality systems under ISO 13485 and EC Directive 93/42/EEC.

Secura

Code	Description	Qty
AMBG1700	Secura Fixation and Bite Guard	50
AMBG17001	Secura Fixation and Bite Guard with Silicone Strap	50
AMBG17002	Secura Fixation and Bite Guard with Rubber Strap	50

*Creating
Support
for Life*

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Brimacombe, J. The Laryngeal Mask Airway - A Review and Practical Guide. 1997. London: W.B. Saunders Company Ltd

Nott M et al. Reducing the incidence of sore throat with the laryngeal mask airway. *European Journal of Anaesthesiology* 1998; vol. 15 (02); pp. 153 - 157

Ulrich-Pur H et al. Comparison of Muscosal Pressures Induced by Cuffs of Different Airway Devices. *Anesthesiology* 2006; vol. 104, pp. 933 - 938

Difficult Airway Society (DAS) www.das.uk.com/guidelines

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