



Pain
Management



Value Life

ANAESTHESIA



SAFIRA[®]

PERIPHERAL NERVE BLOCKS
PRODUCT GUIDE



A groundbreaking new technology for regional anaesthesia

SAFIRA® - SAFer Injection for Regional Anaesthesia

SAFIRA® makes regional anaesthesia a one person procedure, putting control in the hands of the anaesthetist. A unique engineered in safety solution monitors and limits injection pressure. This improves patient safety by reducing the risk of patient nerve damage resulting from the regional anaesthesia procedure. SAFIRA® helps promote better outcomes for both professionals and patients.



Reduces the risk of nerve damage and improves patient outcomes⁽¹⁾

A clinician led approach

Regional anaesthesia is currently a two-person procedure

One anaesthetist holds the ultrasound scanner to guide the needle tip placement, while a second operator injects the anaesthetic at the required pressure.

SAFIRA[®] transforms regional anaesthesia into a one-person procedure

It allows a single operator, an anaesthetist, to conduct the whole regional block at safer pressures.

Anaesthetic solutions are often injected at high pressure

This can cause nerve damage, serious nerve damage occurs in up to 1% of procedures and transient nerve damage in up to 8% of cases.^(2,3)

SAFIRA[®] helps to prevent injection at unsafe pressures

A built in system helps to prevent injection at pressures above 20psi which reduces the risk of incidences of transient or serious nerve damage occurring as a result of the regional anaesthesia procedure.

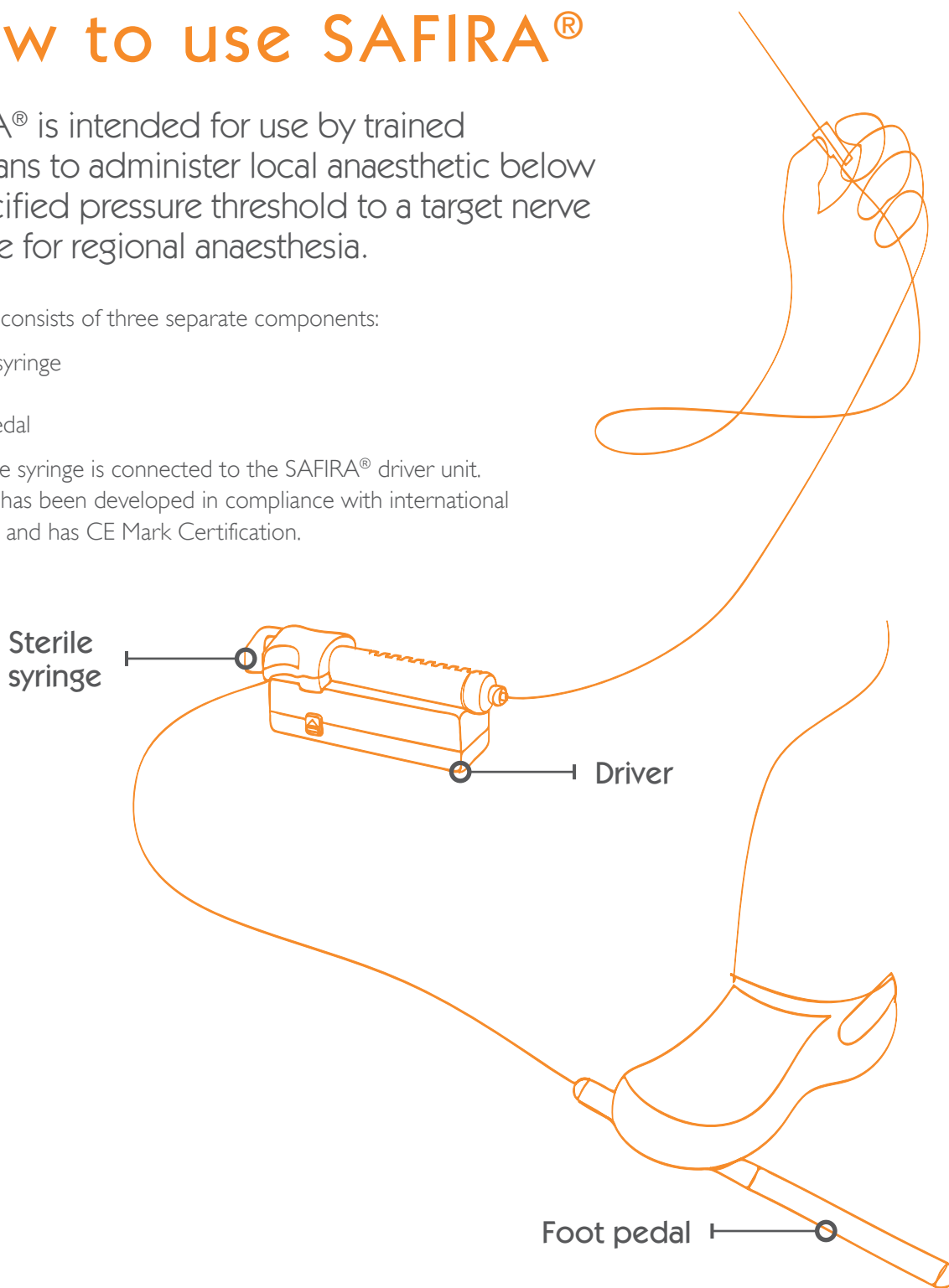
How to use SAFIRA®

SAFIRA® is intended for use by trained clinicians to administer local anaesthetic below a specified pressure threshold to a target nerve bundle for regional anaesthesia.

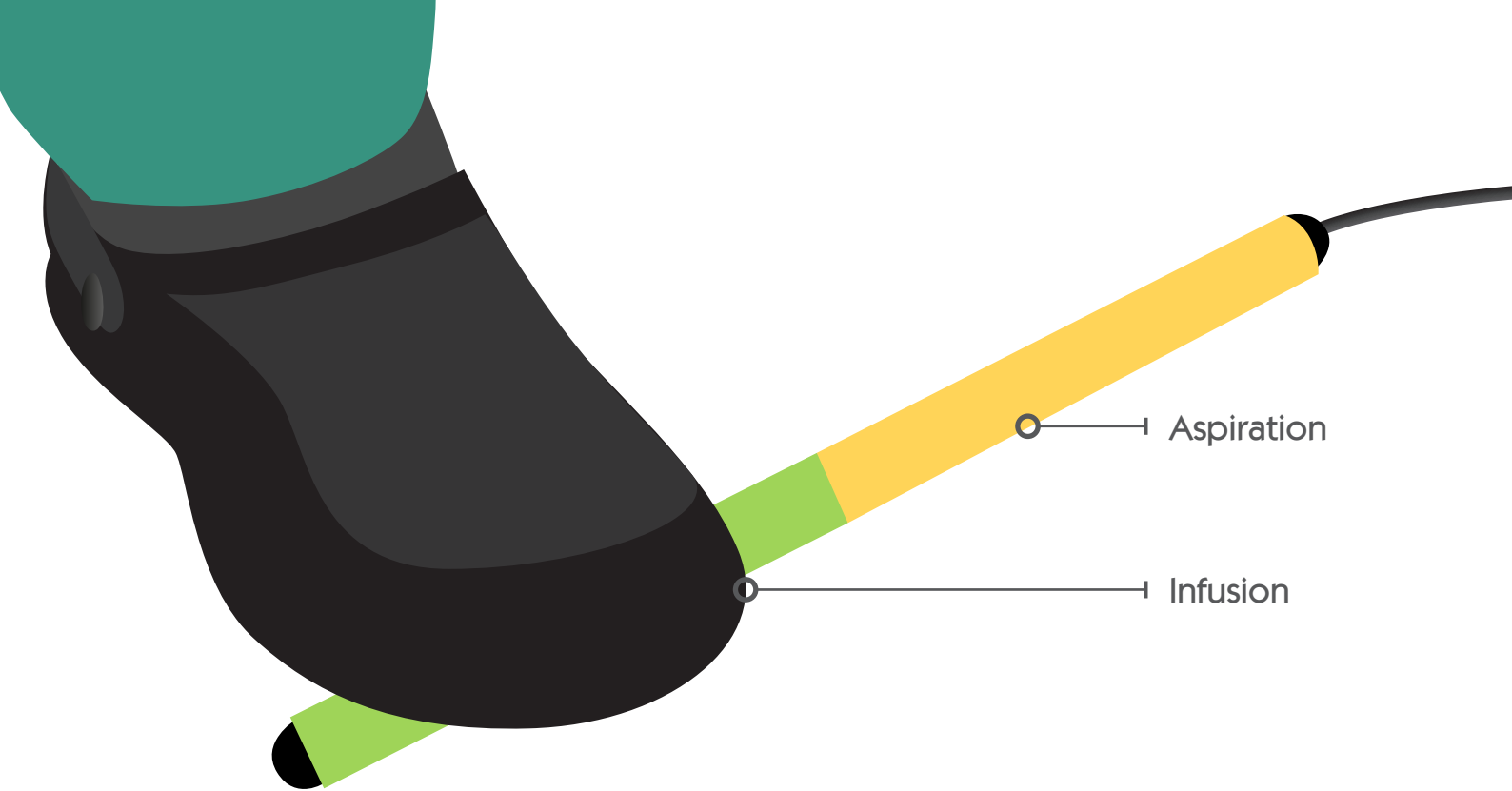
SAFIRA® consists of three separate components:

- Sterile syringe
- Driver
- Foot pedal

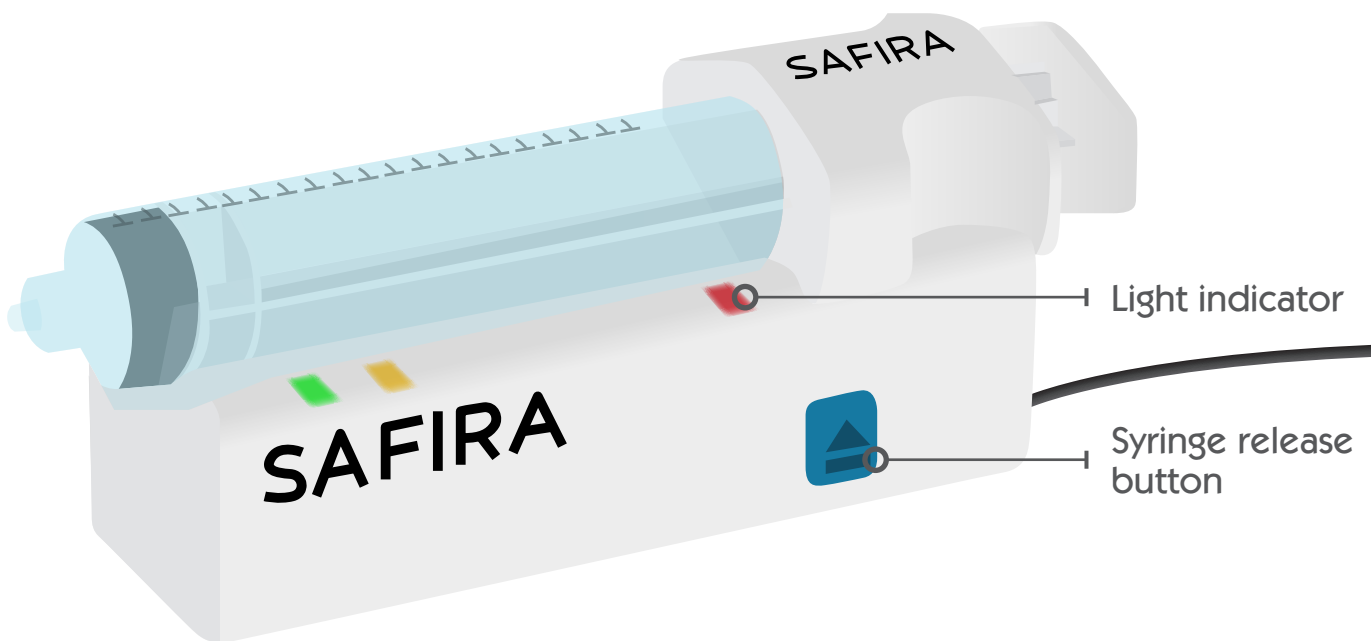
The sterile syringe is connected to the SAFIRA® driver unit. SAFIRA® has been developed in compliance with international standards and has CE Mark Certification.






Vygon code	NHSSC code	Description	Volume (mL)	Number of uses	Sterile
VMJ900029	-	Driver	-	200	No
VMJ900044	-	Foot pedal	-	200	No
VMJ900016	-	Luer syringe	20	Single-use	Yes
VMJ900058	-	NRFit™ syringe	20	Single-use	Yes



The device incorporates an engineered safety solution to limit the maximum anaesthetic administration pressure to 20psi.



Light indicator stages

-  The green light indicator appears when the infusion function is active
-  The yellow light indicator appears when the aspiration function is active
-  If the driver unit detects an unsafe pressure during the infusion process, the driver will automatically stop infusion and a red flashing light will appear

5 reasons to make the switch to SAFIRA®

SAFIRA® gives anaesthetists the tools to take control

SAFIRA® - SAFer Injection for Regional Anaesthesia

SAFIRA® is a safer injection system for regional anaesthesia, allowing a single anaesthetist to conduct a whole regional block at safer pressures.

It makes regional anaesthesia a one operator procedure

By giving anaesthetists control of the whole procedure, they can manage all aspects of the regional block including injection of the anaesthetic. This improves safety and frees up resource as a second supporting operator is no longer required.

SAFIRA® promotes better outcomes for patients

With its integrated safety solution to help limit the injection pressure threshold, SAFIRA® can help reduce the risk of accidental nerve damage, omitting follow up procedures. Minimising the risk of nerve damage also reduces the chance of potential medical negligence compensation claims.⁽¹⁾

It saves time and reduces costs

SAFIRA® saves five minutes per procedure and limits the costs associated with extra operators. When time is money, SAFIRA® saves you both.⁽⁴⁾

It helps improve patient safety by controlling the injection pressure threshold

SAFIRA® incorporates a safety feature to help prevent injection at pressures above 20psi. This reduces the risk of nerve damage in patients, promoting improved safety for regional anaesthesia.

What do leading consultant anaesthetists say?

According to 30 world leading regional consultant anaesthetists (EU & US):

1/30

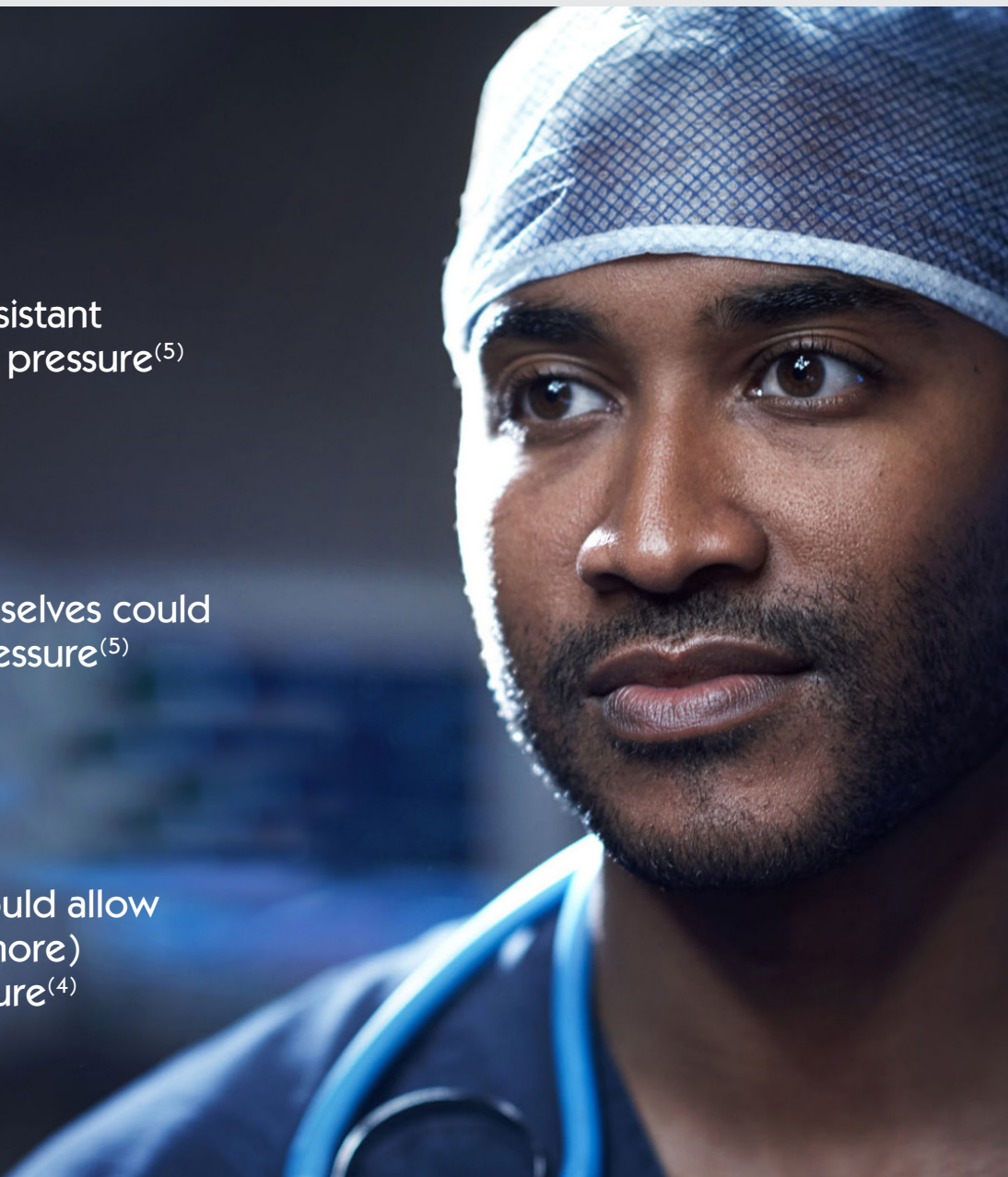
Confident in their assistant applying the correct pressure⁽⁵⁾

2/30

Confident they themselves could apply the correct pressure⁽⁵⁾

23/30

Believed SAFIRA[®] would allow them to save 5 (or more) minutes per procedure⁽⁴⁾



NRFit™ needle

Choice of 20° or 30° lancet point bevel

- For greater or reduced perception of fascia during insertion.

360° markings at precise intervals

- 1mm graduations in the first 2cm and a double mark at 5cm give you control of the needle's position throughout the procedure.

Optimised for echogenicity under ultrasound

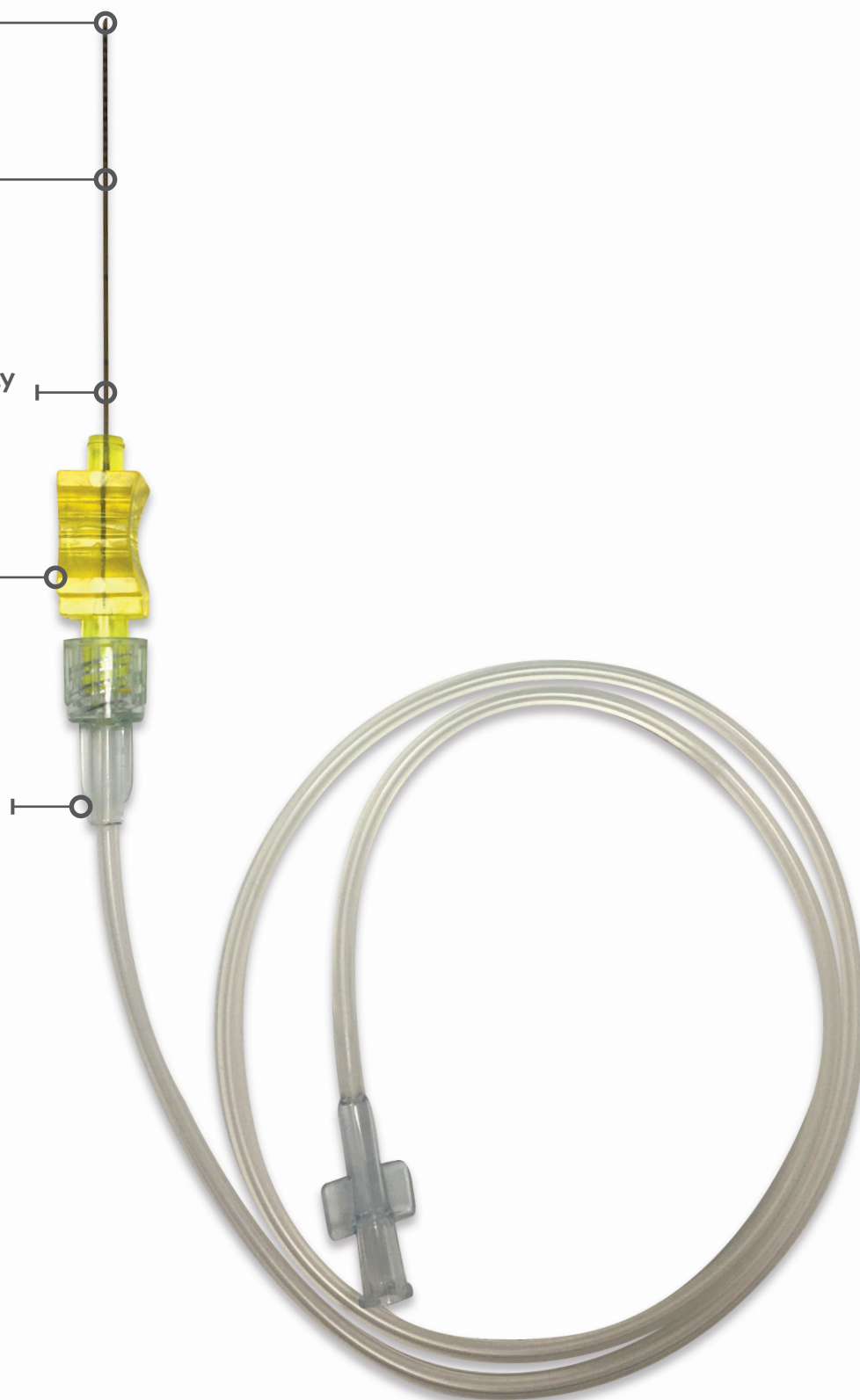
- Sandblasted for optimised echogenicity and PTFE coated for smooth insertion.

Yellow transparent NRFit™ hub

- For quick identification as NRFit™ and clear visualisation of blood reflux or aspiration.
- Curved ergonomic hub for easy handling.

Removable extension line

- Enables connection of a syringe directly to the needle if required, for procedural flexibility.



Ordering codes

Vygon code	NHSSC code	Length (mm)	Size (G)	Bevel angle (Degrees)	Bevel type	Box qty
VAKAEQMNVF24080	-	80	24	30°	Lancet point	10
VAKAEQMNVF24040	-	40	24			
VAKAEQMNVF25050	-	50	25			
VAKAEQMNVF25080	-	80	25			
VAKAEQMNVF25120	-	120	25			
VAKAEQMNVF22050	-	50	22			
VAKAEQMNVF22080	-	80	22			
VAKAEQMNVF21100	-	100	21			
VAKAEQMNVF20100	-	100	20			

Vygon code	NHSSC code	Length (mm)	Size (G)	Bevel angle (Degrees)	Bevel type	Box qty
VAKAEYMNVF24080	-	80	24	20°	Lancet point	10
VAKAEYMNVF24040	-	40	24			
VAKAEYMNVF25050	-	50	25			
VAKAEYMNVF25080	-	80	25			
VAKAEYMNVF25120	-	120	25			
VAKAEYMNVF22050	-	50	22			
VAKAEYMNVF22080	-	80	22			
VAKAEYMNVF21100	-	100	21			
VAKAEYMNVF20100	-	100	20			

NRFit™ needle

Choice of 20° or 30° lancet point bevel

- For greater or reduced perception of fascia during insertion.

360° markings at precise intervals

- 1mm graduations in the first 2cm and a double mark at 5cm give you control of the needle's position throughout the procedure.

Optimised for echogenicity under ultrasound

- Sandblasted for optimised echogenicity and PTFE coated for smooth insertion.

Yellow transparent NRFit™ hub

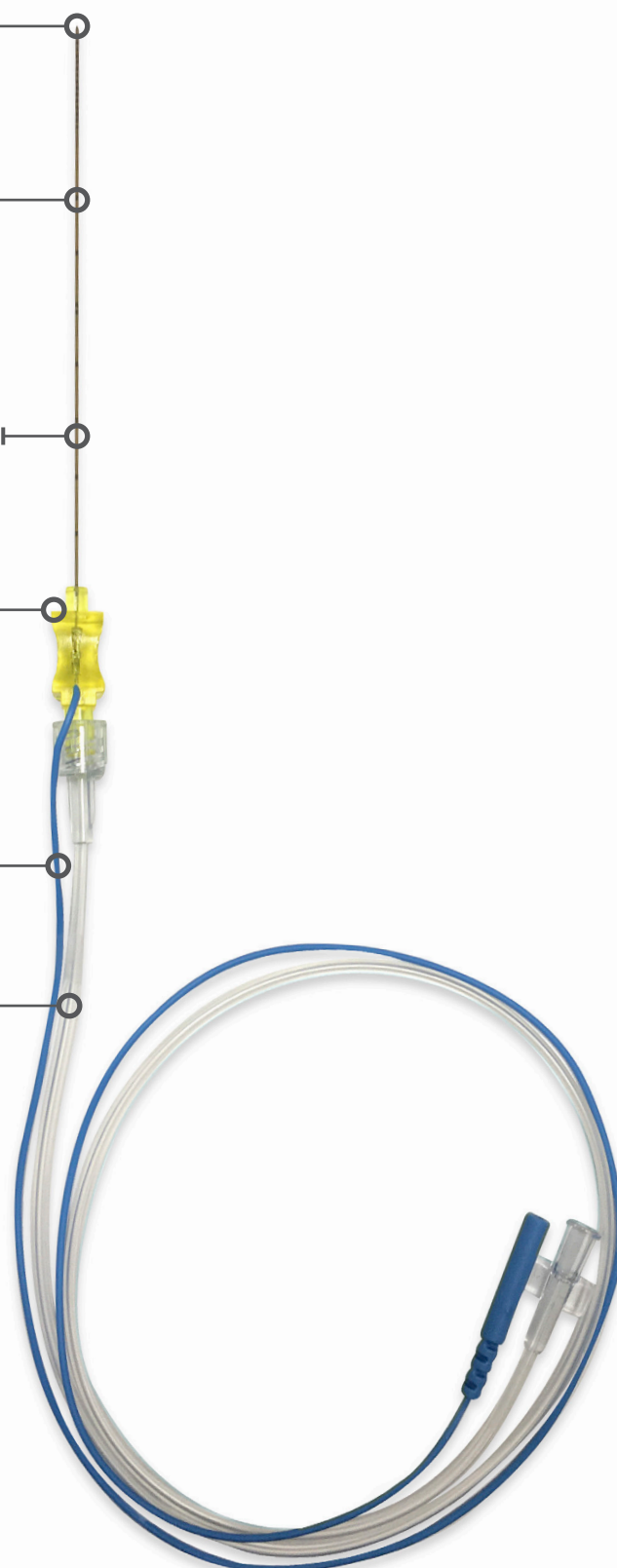
- For quick identification as NRFit™ and clear visualisation of blood reflux or aspiration.
- Curved ergonomic hub for easy handling.

Integrated cable

- For precise tip location when used with Plexygon nerve stimulator.

Removable extension line

- Enables connection of a syringe directly to the needle if required, for procedural flexibility.



Ordering codes

Vygon code	NHSSC code	Length (mm)	Size (G)	Bevel angle (Degrees)	Bevel type	Box qty
VAKAEQMV25050	-	50	25	30°	Lancet point	10
VAKAEQMV25080	-	80	25			
VAKAEQMV25120	-	120	25			
VAKAEQMV24040	-	40	24			
VAKAEQMV24100	-	100	24			
VAKAEQMV24080	-	80	24			
VAKAEQMV24070	-	70	24			
VAKAEQMV23035	-	35	23			
VAKAEQMV22050	-	50	22			
VAKAEQMV22080	-	80	22			
VAKAEQMV21100	-	100	21			
VAKAEQMV21120	-	120	21			
VAKAEQMV20120	-	120	20			

Vygon code	NHSSC code	Length (mm)	Size (G)	Bevel angle (Degrees)	Bevel type	Box qty
VAKAEYMF25050	-	50	25	20°	Lancet point	10
VAKAEYMF25080	-	80	25			
VAKAEYMF25120	-	120	25			
VAKAEYMF24040	-	40	24			
VAKAEYMF24100	-	100	24			
VAKAEYMF24080	-	80	24			
VAKAEYMF24070	-	70	24			
VAKAEYMF23035	-	35	23			
VAKAEYMF22050	-	50	22			
VAKAEYMF22080	-	80	22			
VAKAEYMF21100	-	100	21			
VAKAEYMF21120	-	120	21			
VAKAEYMF20120	-	120	20			

vygoplexTM

ECHO

The new generation of echogenic needles

Luer needle

Choice of 20° or 30° lancet point bevel

- For greater or reduced perception of fascia during insertion.

360° markings at precise intervals

- 1mm graduations in the first 2cm and a double mark at 5cm give you control of the needle's position throughout the procedure.

Optimised for echogenicity under ultrasound

- Sandblasted for optimised echogenicity and PTFE coated for smooth insertion.

Transparent hub

- Clear visualisation of blood reflux or aspiration.
- Curved ergonomic hub for easy handling.

Removable extension line

- Enables connection of a syringe directly to the needle if required, for procedural flexibility.



Ordering codes

Vygon code	NHSSC code	Length (mm)	Size (G)	Bevel angle (Degrees)	Bevel type	Box qty
VAKAEQMNV24080	-	80	24	30°	Lancet point	10
VAKAEQMNV24040	-	40	24			
VAKAEQMNV25050	-	50	25			
VAKAEQMNV25120	-	120	25			
VAKAEQMNV22050	-	50	22			
VAKAEQMNV22080	-	80	22			
VAKAEQMNV21100	-	100	21			
VAKAEQMNV20100	-	100	20			

Vygon code	NHSSC code	Length (mm)	Size (G)	Bevel angle (Degrees)	Bevel type	Box qty
VAKAEYMNV24080	-	80	24	20°	Lancet point	10
VAKAEYMNV24040	-	40	24			
VAKAEYMNV25050	-	50	25			
VAKAEYMNV25120	-	120	25			
VAKAEYMNV22050	-	50	22			
VAKAEYMNV22080	-	80	22			
VAKAEYMNV21100	-	100	21			
VAKAEYMNV20100	-	100	20			

vygoplexTM

ENS & ECHO

The new generation of echogenic needles

Luer needle

Choice of 20° or 30° lancet point bevel

- For greater or reduced perception of fascia during insertion.

360° markings at precise intervals

- 1mm graduations in the first 2cm and a double mark at 5cm give you control of the needle's position throughout the procedure.

Optimised for echogenicity under ultrasound

- Sandblasted for optimised echogenicity and PTFE coated for smooth insertion.

Transparent hub

- Clear visualisation of blood reflux or aspiration.
- Curved ergonomic hub for easy handling.

Removable extension line

- Enables connection of a syringe directly to the needle if required, for procedural flexibility.

Integrated cable

- For precise tip location when used with Plexygon nerve stimulator.



Ordering codes

Vygon code	NHSSC code	Length (mm)	Size (G)	Bevel angle (Degrees)	Bevel type	Box qty
VAKAEQMV25050	-	50	25	30°	Lancet point	10
VAKAEQMV25080	-	80	25			
VAKAEQMV25120	-	120	25			
VAKAEQMV24040	-	40	24			
VAKAEQMV24100	-	100	24			
VAKAEQMV24080	-	80	24			
VAKAEQMV24070	-	70	24			
VAKAEQMV23035	-	35	23			
VAKAEQMV22050	-	50	22			
VAKAEQMV22080	-	80	22			
VAKAEQMV21100	-	100	21			
VAKAEQMV21120	-	120	21			
VAKAEQMV20120	-	120	20			

Vygon code	NHSSC code	Length (mm)	Size (G)	Bevel angle (Degrees)	Bevel type	Box qty
VAKAEYMV25050	-	50	25	20°	Lancet point	10
VAKAEYMV25080	-	80	25			
VAKAEYMV25120	-	120	25			
VAKAEYMV24040	-	40	24			
VAKAEYMV24100	-	100	24			
VAKAEYMV24080	-	80	24			
VAKAEYMV24070	-	70	24			
VAKAEYMV23035	-	35	23			
VAKAEYMV22050	-	50	22			
VAKAEYMV22080	-	80	22			
VAKAEYMV21100	-	100	21			
VAKAEYMV21120	-	120	21			
VAKAEYMV20120	-	120	20			

References

- 1 Heij R, Eldin E, Young P, Carter J, Gibson J, Ali A, et al. Regional Anesthesiology Injection Pressures comparing Skilled Assistants With SAFIRA in a Simulated Ultrasound Guided Technique. In: The Anesthesiology annual meeting [Internet]. 2013 [cited 2020 Mar 31]. Available from: <http://www.asaabstracts.com/strands/asaabstracts/abstract.htm?year=2013&index=17&absnum=3085>
- 2 Borgeat A, Blumenthal S. Nerve injury and regional anaesthesia [Internet]. Vol. 17, Current Opinion in Anaesthesiology. 2004 [cited 2020 Mar 31]. p.417–21. Available from: <http://www.ncbi.nlm.nih.gov/pubmed/17023899>
- 3 Jeng CL, Torrillo TM, Rosenblatt MA. Complications of peripheral nerve blocks. Br J Anaesth [Internet]. 2010 [cited 2020 Mar 31];105(S1):97–107. Available from: https://academic.oup.com/bja/article-abstract/105/suppl_1/97/235950
- 4 Fong-Soe-Khioe R. Health Economic report Medovate commissioned written by a health economist from the University of East Anglia (UEA)
- 5 Health Enterprise East (HEE). Research results using a cohort of volunteer anaesthetists.



For further information, please contact: info@vygon.co.uk

The specifications shown in this leaflet are for information only and is accurate at the time of publication. Information is subject to change.

This brochure has been printed on responsibly sourced and sustainable material. To help us reduce our carbon footprint all of our brochures are available electronically either from your Sales Executive, on our website or by emailing info@vygon.co.uk

[🏠 vygon.co.uk](https://www.vygon.co.uk) [🐦 @vygonuk](https://twitter.com/vygonuk) [🌐 vygonuk](https://www.linkedin.com/company/vygonuk) [📺 vygonuk](https://www.youtube.com/channel/UCvYgONk) [📷 vygonuk](https://www.instagram.com/vygonuk)

Copyright Vygon (UK) Ltd 2022. Content correct as of: 01/2022. Code: V01103 v4

