

Regional Anaesthesia

Product Catalogue

B | BRAUN
SHARING EXPERTISE



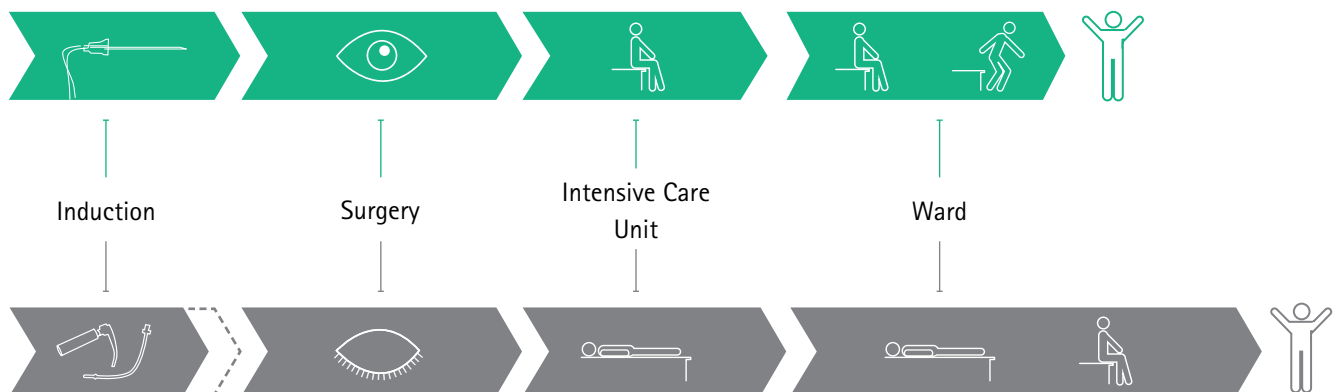
Optimise your processes

Thanks to Regional Anaesthesia

Regional anaesthesia is an essential part of pain therapy, as across several interventions, it offers clear advantages when compared to general anaesthesia.¹ For regional anaesthesia to become an important part of the peri-operative process, there are some prerequisites to consider, like the relevant indications, skilled personnel and the necessary internal processes at the clinic.

The rapid growth of use of regional anaesthesia and the numerous publications on the topic are both a testament to how regional anaesthesia can have a positive impact on both patient outcome and on efficiencies for the clinic.^{2,3}

WITH REGIONAL ANAESTHESIA



WITHOUT REGIONAL ANAESTHESIA

COMPARING TWO POTENTIAL INTERVENTIONS WITH AND WITHOUT REGIONAL ANAESTHESIA:

Looking holistically across the patient pathway, the establishment of regional anaesthesia processes appears to be a favourable investment. When regional anaesthesia is used, patients see better outcomes, faster mobilisation and consequently earlier discharge.^{4,5}

Content

SPINAL ANAESTHESIA

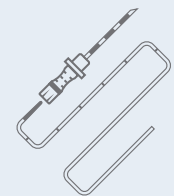
Spinocan™ | Pencan™ | Spinal Introducer Needle



SPINAL ANAESTHESIA

EPIDURAL ANAESTHESIA

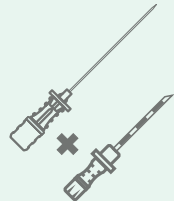
Perican™ | Perican™ Paed
Perifix™ Epidural Catheter | Accessories



EPIDURAL ANAESTHESIA

COMBINED SPINAL & EPIDURAL ANAESTHESIA

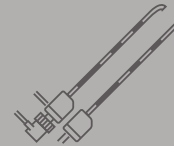
Espocan™ Sets



COMBINED SPINAL AND
EPIDURAL ANAESTHESIA

PERIPHERAL NERVE BLOCKS

Contiplex™ C | Contiplex™ S Ultra 360® | Contiplex™ Tuohy Ultra 360™
Stimuplex™ Ultra 360 | Ultraplex™ 360



PERIPHERAL NERVE
BLOCKS

EZCOVER™



EZCOVER™

EASYPUMP™ II



EASYPUMP™ II

Reducing Risks of Misconnections in Regional Anaesthesia with NRFit®

MEDICAL DEVICE CONNECTORS FOR NEURAXIAL
& REGIONAL ANAESTHESIA APPLICATIONS
ARE CHANGING TO MEET INTERNATIONAL
DESIGN STANDARDS: ISO 80369-6.⁶

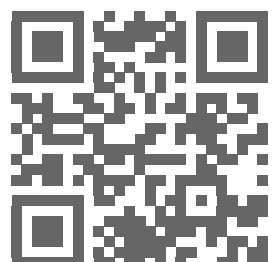
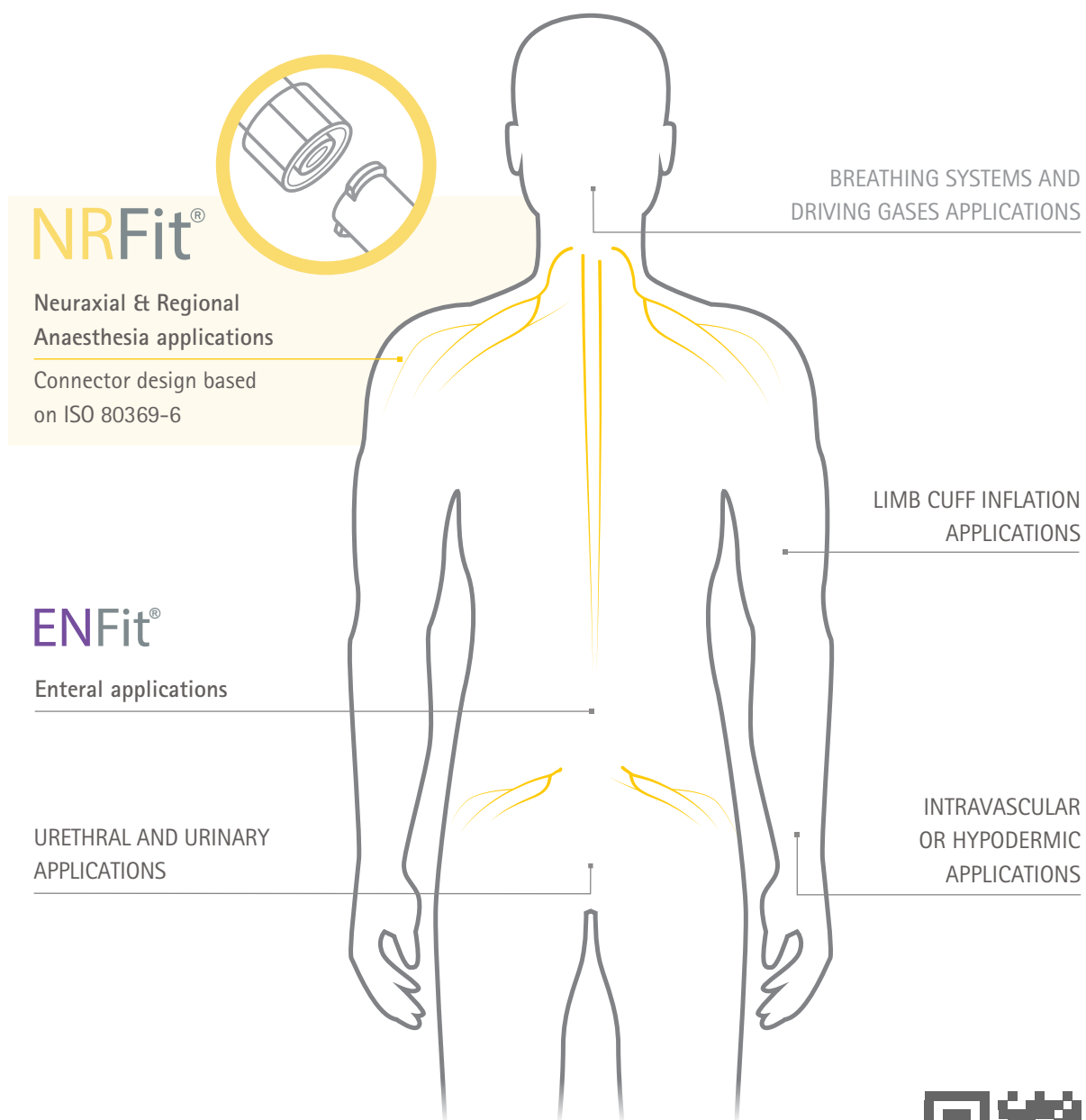
Regional Anaesthesia products with NRFit® connector

In line with the ISO Standard (International Organisation for Standardisation) for neuraxial and regional anaesthesia devices, B. Braun has developed a comprehensive portfolio with NRFit® connectors for the corresponding process steps.

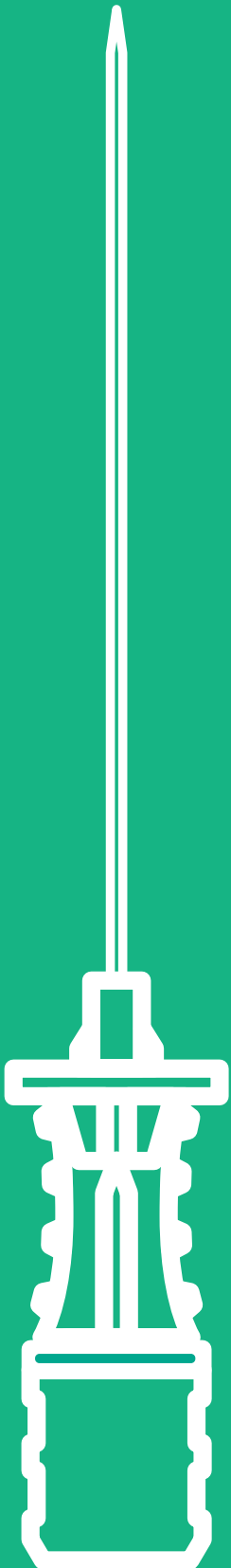
Connecting what belongs together



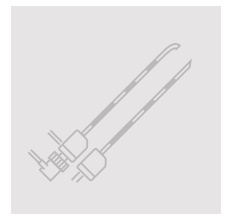
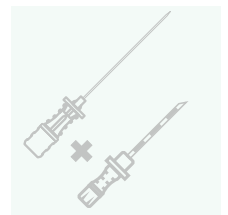
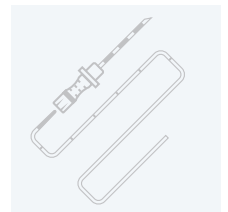
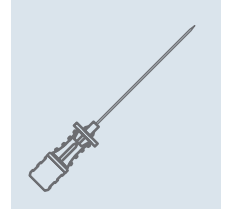
The ISO has identified several medical application areas for which specific ISO standards have been developed. These standards are part of the ISO 80369 series. Each standard will provide design and performance specifications for these connectors. ¹



SPINAL ANAESTHESIA



A comprehensive portfolio of
needles in different bevel types
for spinal anaesthesia.



Products for Spinal Anaesthesia

Quality and Practicality



Thanks to our years of

EXPERIENCE

in the field, B. Braun offers spinal needles with a range of bevel types.

Spinocan™ and Pencan™ have the features you need to meet today's

EXACTING

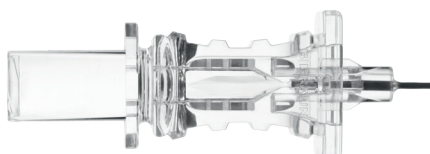
Pain Control demands.

PRECISION

CSF^{ID} System for improved visualization of CSF flashback in the needle hub aiding proper needle placement



Prism has a silver shine before CSF enters the hub



Prism turns transparent once CSF is in the hub

QUALITY

Tritan™ - new hub material

- stress-crack resistant
- highly transparent
- not manufactured with: Latex/ Natural Rubber, BPA, DEHP, PVC

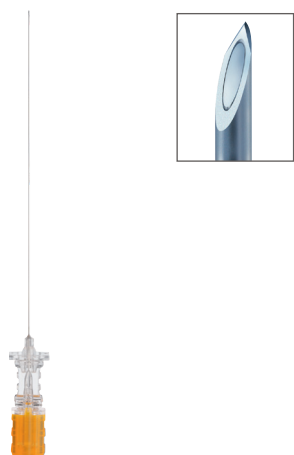


CONTROL

Ergonomic Hub

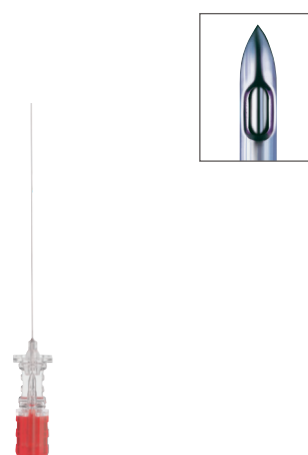
- designed for enhanced needle control, improved grip and tactile feedback
- for both spinal needle and introducer needle





Spinocan™ with Quincke Bevel

- Sharp bevel for low puncture force⁷
- Fitted stylet: to reduce the risk of tissue coring and potential epidermoid tumor development⁸
- Prism included in the spinal needle hub, supports identification of CSF flashback



Pencan™ with Pencil Point Bevel

- Pencil point tip and opening design allows avoidance of incomplete blocks and helps reduce PDPH⁸
- Minimal intrathecal penetration depth⁷
- Identification of tissue structures due to detectable dura click^{7,9}
- Prism included in the spinal needle hub, supports identification of CSF flashback

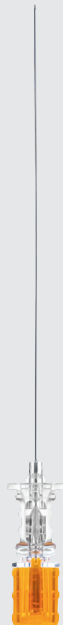


Spinal Introducer Needle

- Introducer needles providing needle guidance for the spinal needle during puncture⁷

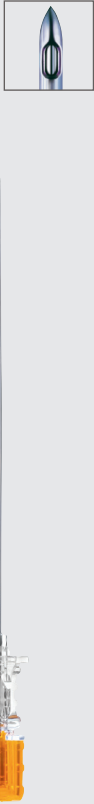
Portfolio Overview

SPINAL NEEDLES

Spinocan™	Color code	Size (G) / Length (inch)	ø / Length (mm)	Units per box	Code no. (REF) NX Luer	Code no. (REF) NX NRFit®
 		29 x 3 ½"	0.35 x 88	25	4522901*	4522901N*
		27 x 3 ½"	0.42 x 88		4522701	4522701N
		26 x 3 ½"	0.47 x 88		4522601	4522601N
		25 x 3"	0.53 x 75		4522501	4522501N
		25 x 3 ½"	0.53 x 88		4522502	4522502N
		23 x 3 ½"	0.65 x 88		4522301	4522301N
		22 x 1 ½"	0.70 x 40		4522201	4522201N
		22 x 3"	0.70 x 75		4522202	4522202N
		22 x 3 ½"	0.70 x 88		4522203	4522203N
		20 x 3 ½"	0.90 x 88		4522001	4522001N
		18 x 3 ½"	1.30 x 88		4521801	4521801N
	Long Length					
		27 x 4 ¾"	0.42 x 120	25	4522702	4522702N
					4522703*	4522703N*
		25 x 4 ¾"	0.53 x 120		4522503	4522503N
		22 x 4 ¾"	0.70 x 120		4522204	4522204N

* with Spinal Introducer (Luer)

SPINAL NEEDLES

Pencan™	Color code	Size (G) / Length (inch)	ø / Length (mm)	Units per box	Code no. (REF) NX Luer	Code no. (REF) NX NRFit®
		27 x 3 1/2"	0.42 x 88	25	4532702	4532702N
					4532703*	4532703N*
		25 x 3 1/2"	0.53 x 88		4532503	4532503N
					4532504*	4532504N*
		22 x 3 1/2"	0.73 x 88		4532201	4532201N
	Long Length					
		27 x 4"	0.42 x 103	25	4532704	4532704N
					4532705*	4532705N*
		27 x 4 3/4"	0.42 x 120		4532706	4532706N
					4532707*	4532707N*
		25 x 4"	0.53 x 103	20	4532505	4532505N
					4532506*	4532506N*
		25 x 4 3/4"	0.53 x 120		4532507	4532507N
					4532508*	4532508N*
		25 x 6.1"	0.53 x 156		4532510*	4532510N*
	Paediatric use					
		27 x 2"	0.42 x 50	25	4532701	4532701N
		25 x 1"	0.53 x 25		4532501	4532501N
		25 x 2"	0.53 x 50		4532502	4532502N

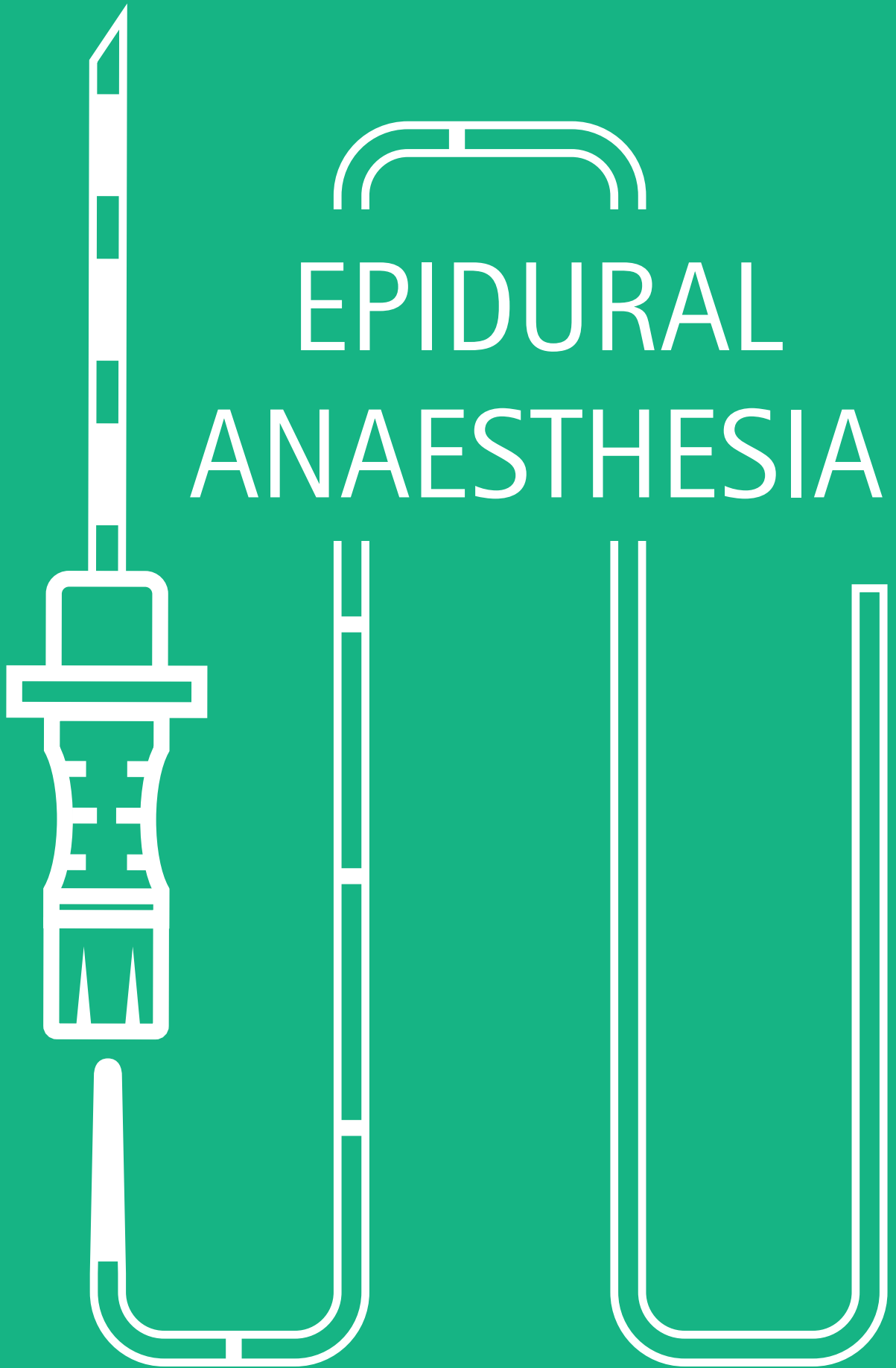
*with Spinal Introducer (Luer)

INTRODUCER

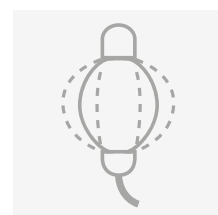
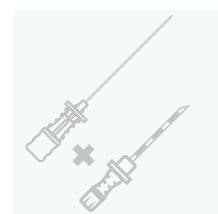
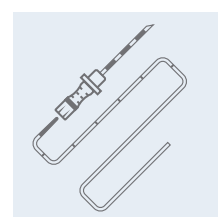
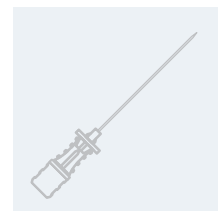
Spinal Introducer Needles (for Spinocan™ and Pencan™)	Colour code	Size (G) / Length (inch)	ø / Length (mm)	Units per box	Code no. (REF) Luer	Code no. (REF) NRFit®
For Spinal Needles 29 G and 27 G, 25 G						
		20 x 1 3/8"	0.9 x 35	25	4505000*	4505000*

*Introducer in Luer

EPIDURAL ANAESTHESIA



To meet individual preferences,
B. Braun offers a broad range of
epidural cannulas, catheters and
accessories for epidural anaesthesia.



Products for Epidural Anaesthesia

Quality and Practicality



Adapting to the unique anatomical challenges of each patient, it is important to use the appropriate needle and accessories.

B. Braun focuses on

QUALITY & PRACTICALITY.



Perican™ Tuohy Needles

- For both continuous and single-shot techniques
- Different needle sizes (16 G, 18 G, 20 G, 22 G)
- With 1 cm graduation in length
- Polished inner bevel edge to reduce the risk of catheter shearing

USER BENEFITS:

- 1 cm marking to control the insertion depth
- High bending stiffness for control during needle advancement
- Fitted stylet: to reduce the risk of tissue coring and potential epidermoid tumor development¹¹

Products for Epidural Anaesthesia

Perifix™ Catheters: Available with different characteristics – Soft-Tip and ONE



Perifix™ Soft-Tip Catheter

- Soft-Tip catheter with a radiopaque tip
- Length 1000 mm
- Three micro-holes enhance the spread of anaesthetic drug
- Clear blue length markings embedded in catheter material
- Does not contain latex, DEHP or PVC
- MRI suitable



Perifix™ ONE

- Epidural catheter with a relatively stiff but flexible shaft and a soft, atraumatic tip
- Length 1000 mm
- Six micro-holes enhance the spread of anaesthetic drug
- Three radiopaque enclosed yellow barium sulphate stripes for identification on x-ray images
- Does not contain latex, DEHP or PVC
- MRI suitable

Products for Epidural Anaesthesia

Perifix™ Accessories



Perifix™ LOR-Syringe

- Easy-gliding plunger with good gliding characteristics and safety stop
- Parabolic graduation to differentiate it from conventional syringes
- Suitable for air and saline applications
- Lock or slip connection



Perifix™ Catheter Connector

- Available in two sizes (19 G and 20/24 G)
- Tactile and acoustic feedback upon closure
- Viewing window allows for catheter insertion control to ensure a successful connection



Perifix™ Filter with PinPad

- Filter fixation on patient in combination with self-adhesive PinPad
- Filter reduces the risk of bacterial infections¹¹
- Pressure resistant up to 7 bar



Perifix™ Catheter Fixation

- Catheter fixation, consisting of fixation ring and non-woven cover foil
- Easy examination of puncture site due to exchangeable cover foils

Products for Epidural Anaesthesia

Epidural Anaesthesia for the Smallest Patients



Perican™ Paed Epidural Needles

- Tuohy bevel
- For continuous or single-shot techniques
- Three different needle sizes (18 G, 20 G, 22 G)
- 5 mm markings to control the insertion depth
- Fitted stylets: to reduce the risk of tissue coring and potential epidermoid tumor development⁸



Perifix™ ONE Paed Epidural Sets

Perifix™ ONE Paed epidural sets in 20/24 G for newborns and infants, and 18/20 G for older children:

- Catheters with distance markings for paediatric use
- For safe catheter insertion and position control
- Catheter with markings each 1 cm in the space between 2 and 20 cm from the needle tip

Portfolio Overview

EPIDURAL NEEDLES

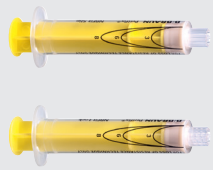
Perican™	Colour code	Size (G)/Length (inch)	ø/Length (mm)	Units per box	Code no. (REF) Luer	Code no. (REF) NRFit®
 		18 x 3¼"	1.3 x 80	25	4512383	4512383N-01
		16 x 3¼"	1.7 x 80		4512782	4512782N-01
	Long Length					
		18 x 4¾"	1.3 x 120	25	4512453	4512453N-01
		18 x 6"	1.3 x 150		4512200	4512200N-01
		16 x 4¾"	1.7 x 120		-	4512785N-01
		16 x 6"	1.7 x 150		-	4512784N-01
Perican™ Paed	Colour code	Size (G)/Length (inch)	ø/Length (mm)	Units per box	Code no. (REF) Luer	Code no. (REF) NRFit®
 		22 x 2"	0.73 x 50	25	4502078	4502078N-01
		20 x 2"	0.9 x 50		4502094	4502094N-01

EPIDURAL CATHETERS

Perifix™ catheter	Catheter ø outer/inner/Length (mm) (G)	Suitable for Perican™ Size (G)	Units per box	Code no. (REF) Luer	Code no. (REF) NRFit®
	Perifix™ Soft Tip catheter (with 3 lateral eyes)				
	0.85/0.45/1000 (20)	18	25	4515048*	4515048N-01
	Perifix™ ONE catheter (with 6 lateral eyes)				
	1.05/0.60/1000 (19)	16	25	4513258C	45132581N-01
	0.85/0.45/1000 (20)	18		4513150C	45131501N-01

* New Zealand Only

EPIDURAL ACCESSORIES

Perifix™ Catheter Fixation	Description	Units per box	Code no. (REF)	
	Perifix™ catheter fixation, consisting of a fixation ring and a non-woven cover foil	25	4511200	
	Perifix™ non-woven replacement cover foil		4511201	
Perifix™ Loss-of-Resistance (LOR) Syringe	Description	Units per box	Code no. (REF) Luer	
	Perifix™ LOR Syringe, Luer-Slip	100	4637100	
	Perifix™ LOR Syringe, Luer-Lock		4638107	
	Perifix™ LOR Syringe, Slip NRFit®	25	4637110	
	Perifix™ LOR Syringe, Lock NRFit®		4638110	
Perifix™ catheter connector	Size (G)	Units per box	Code no. (REF) Luer	Code no. (REF) NRFit®
	19	25	4513801	4513801N-01
	20/24		4513800	4513800N-01
Perifix™ filter	Particle filter (µm)	Units per box	Code no. (REF) Luer	Code no. (REF) NRFit®
	0.2	25	4515501	4515501N-01
Perifix™ PinPad	Description	Units per box	Code no. (REF)	
	Perifix™ PinPad Filter Fixation	25	4515510	

Portfolio Overview

EPIDURAL ACCESSORIES

Sterifix™ filter straws	Particle filter (µm)		Length (cm)	Units per box	Code no. (REF)
	5		4.50	50	4550250N
	5		10		4550200N
Sterifix™ filter needle	Size (G)	Particle filter (µm)	Length (cm)	Units per box	Code no. (REF)
	19	5	3.80	50	4550404N
Infusomat® Space Line			Length (cm)	Units per box	Code no. (REF)
			300	100	8700132SP
Original Perfusor® Line			Length (cm)	Units per box	Code no. (REF)
			200	25	8722865
NRFit® syringe caps NRFit® stoppers	Description			Units per box	Code no. (REF)
	Syringe cap with NRFit® connector			25	4517501N
	Stopper with NRFit® connector			25	4517502N

EPIDURAL ACCESSORIES

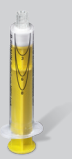
Omnifix™	Description	Filling volume (ml)	Units per box	Code no. (REF)
	Slip NRFit®	1	100	9164001
		3		4616003
		5		4616005
		10		4616014
		20		4616021
	Lock NRFit®	3	100	4617003
		5		4617006
		10		4617014
		20		4617021
		50		4617508F-01

Portfolio Overview

SETS FOR EPIDURAL ANAESTHESIA (LUER)

Legend  20 G x 2", ø 0.9 x 50 mm  18 G x 3 1/4", ø 1.3 x 80 mm, 18 G x 2", ø 1.3 x 50 mm (Paed Set)  16 G x 3 1/4", ø 1.7 x 80 mm							
	Perican™ Tuohy needle		Perifix™ ONE epidural catheter, 6 lateral eyes		Perifix™ Soft Tip epidural catheter, 3 lateral eyes		Perifix™ Loss of Resistance syringe
	50mm	80mm	24G	20G	20G	19G	
Set Versions	Perican™ Tuohy Needle		Perifix™ ONE with NRFit®		Perifix™ Soft Tip		Perifix™ LOR
Complete Sets							
Perifix™ Soft Tip 901 18G							
Perifix™ ONE 421 18G							
Perifix™ Soft Tip 431 16G							
Perifix™ ONE 431 16G							
Filter Sets							
Perifix™ 400 Filter Set 18G							
Perifix™ 402 Filter Set 16G							
Pediatric Sets							
Perifix™ ONE Paed 18G							
Perifix™ ONE Paed 20G							

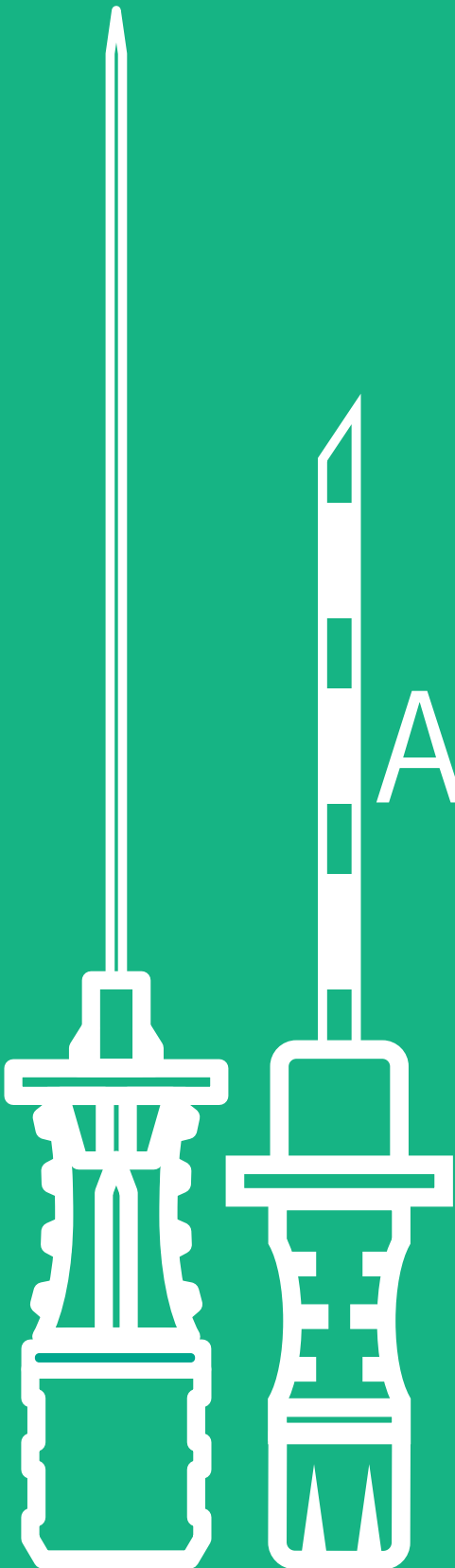
SETS FOR EPIDURAL ANAESTHESIA (NRFit®)

Legend  20 G x 2", ø 0.9 x 50 mm  18 G x 3 1/4", ø 1.3 x 80 mm, 18 G x 2", ø 1.3 x 50 mm (Paed Set)  16 G x 3 1/4", ø 1.7 x 80 mm							
	Perican™ Tuohy needle		Perifix™ ONE epidural catheter, 6 lateral eyes		Perifix™ Soft Tip epidural catheter, 3 lateral eyes		Perifix™ Loss of Resistance syringe
	50mm	80mm	24G	20G	20G	19G	
Set Versions	Perican™ with NRFit®		Perifix™ ONE with NRFit®		Perifix™ Soft Tip with NRFit®		Perifix™ LOR with NRFit®
Complete Sets							
Perifix™ Soft Tip 901 18G NRFit							
Perifix™ ONE 421 18G NRFit							
Filter Sets							
Perifix™ 402 Filter Set 16G NRFit							
Pediatric Sets							
Perifix™ ONE Paed 18G NRFit							
Perifix™ ONE Paed 20G NRFit							

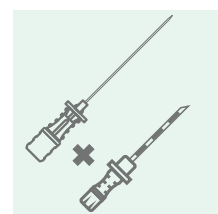
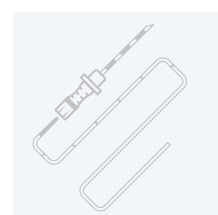
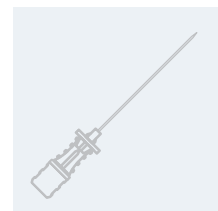
						* Sterican® needles 25G, 16 mm, ø 0.5 mm 21G, 40 mm, ø 0.8 mm 18G, 40 mm, ø 1.2 mm	
Omnifix™ three part syringe, 20 ml, Lock, Sterifix™ filter needle	Omnifix™ three part syringe, 3 ml, Lock, Sterifix™ filter needle	Perifix™ Filter 0.2 µm, pressure resistant up to 7 bar	Perifix™ catheter connector 19 G or 20/24 G	Perifix™ PinPad filter fixation	Omnifix™ three part syringe, 3ml, Luer Lock, 3 Luer hypodermic needles*		
Omnifix™ and Sterifix™	Omnifix™ and Sterifix™	Perifix™ Filter	Perifix™ catheter connector	Perifix™ PinPad	Omnifix™ and hypodermic needles with Luer	Units per box	Code no. (REF)
■		■	■	■	■		4510305
■		■	■	■	■	10	4514211C
■		■	■	■	■		4514319
■		■	■	■	■		4514319C
		■	■			20	4514009
		■	■				4514025
	■	■	■	■		10	4512006C
	■	■	■	■			4512014C

						* Sterican® needles 25G, 16 mm, ø 0.5 mm 21G, 40 mm, ø 0.8 mm 18G, 40 mm, ø 1.2 mm	
Omnifix™ three part syringe, 20 ml, Lock, Sterifix™ filter needle	Omnifix™ three part syringe, 3 ml, Lock, Sterifix™ filter needle	Perifix™ Filter 0.2 µm, pressure resistant up to 7 bar	Perifix™ catheter connector 19 G or 20/24 G	Perifix™ PinPad filter fixation	Omnifix™ three part syringe, 3ml, Luer Lock, 3 Luer hypodermic needles*	Caution: Hypodermic needles (for skin infiltration) stay Luer	
Omnifix™ and Sterifix™ with NRFit®	Omnifix™ and Sterifix™ with NRFit®	Perifix™ Filter with NRFit®	Perifix™ catheter connector with NRFit®	Perifix™ PinPad	Omnifix™ and hypodermic needles with Luer	Units per box	Code no. (REF) NRFit®
■		■	■	■	■		4510305N-01
■		■	■	■	■	10	45142111N-01
		■	■			10	4514025N-01
	■	■	■	■		10	45120061N-01
	■	■	■	■			45120141N-01

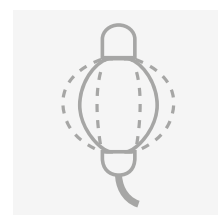
COMBINED SPINAL AND EPIDURAL ANAESTHESIA



Combining the benefits of both techniques – sets for combined spinal and epidural anaesthesia (CSE).



COMBINED SPINAL AND
EPIDURAL ANAESTHESIA



Products for Combined Spinal and Epidural Anaesthesia

SETS FOR COMBINED SPINAL AND EPIDURAL ANAESTHESIA (LUER)

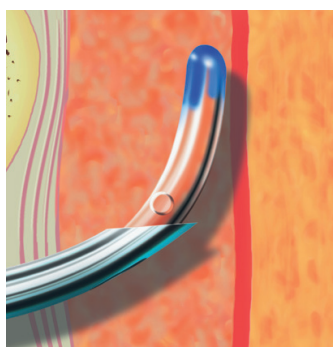
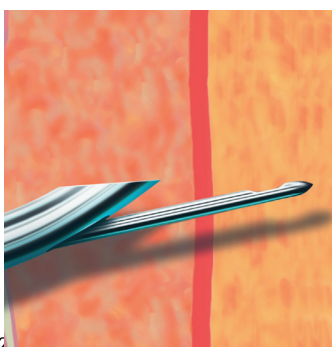
				
Luer Set Version	Perican™ epidural cannula ø 1.3 mm, 18G x 90 mm	Perifix™ Soft-Tip catheter 3 lateral eyes	Perifix™ LOR syringe with Luer Slip	Perifix™ flat filter 0.2 µm
Espocan™ with Docking Station Et Pencan 27G x 141mm with Luer				

SETS FOR COMBINED SPINAL AND EPIDURAL ANAESTHESIA (NRFIT)

				
NRFit Set Version	Perican™ epidural cannula ø 1.3 mm, 18G x 90 mm with NRFit	Perifix™ Soft-Tip catheter 3 lateral eyes, with NRFit	Perifix™ LOR syringe with NRFit	Perifix™ flat filter 0.2 µm with NRFit
Espocan™ with Docking Station Et Pencan 27G x 141mm with NRFit				

Combined Spinal-Epidural Anaesthesia (CSE):

THE BENEFITS of Spinal and Epidural Anaesthesia in the Espocan™ Sets

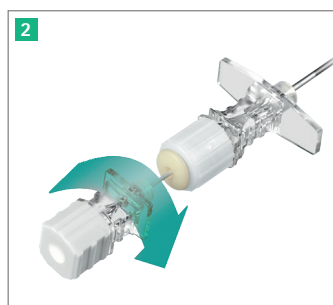
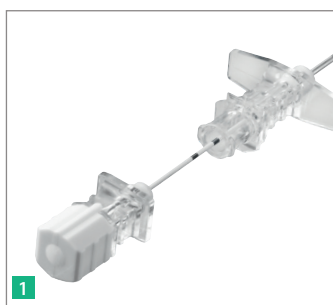


Special Pencan Tuohy Epidural needle with additional back eye in the Tuohy curve plus a Pencan Spinal needle with sleeve to centre the needle inside the epidural Tuohy needle.

- Tip of the spinal needle exits straight through the back eye of the Tuohy needle
- Docking system to hold the spinal needle in place
- Sleeved spinal needle for smooth exit through the back eye

			
Perifix™ catheter connector	Perifix™ PinPad	Units per box	Code Number
■	■	10	4556763

			
Perifix™ catheter connector with NRFit	Perifix™ PinPad	Units per box	Code Number
■	■	10	4556763N-01



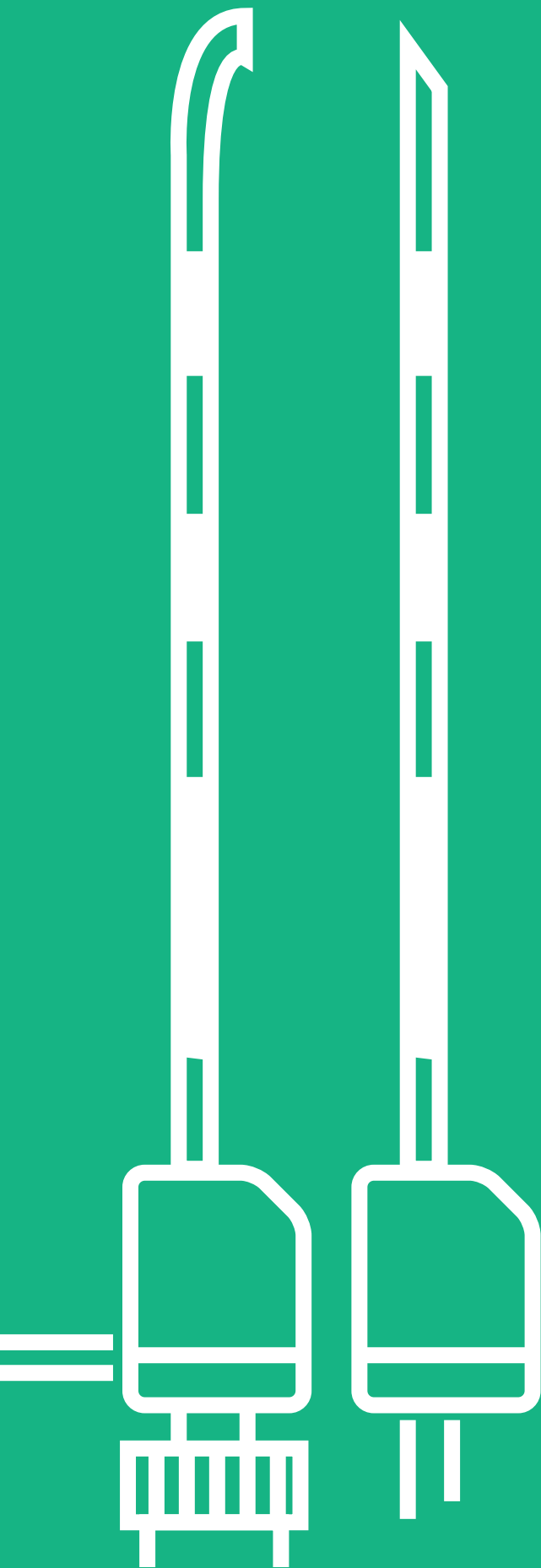
1 Markings on the Spinal Needle

The markings on the spinal needle show, when the tip leaves the back-eye.

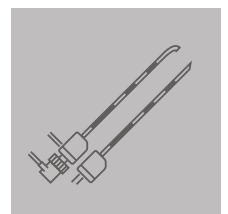
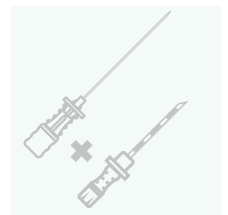
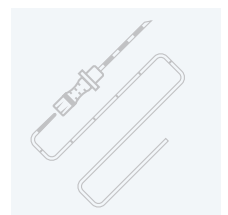
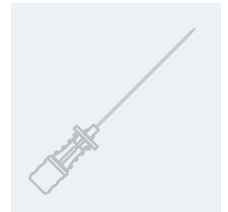
2 USER BENEFITS

- The docking system allows rotation of the spinal needle even in the fixed position. Avoids the difficult and uncomfortable finger grip to steady fix the spinal needle in position
- The docking system ensures fixation of the spinal needle inside the tuohy needle after successful dura puncture and injection of the local anaesthetic.

PERIPHERAL NERVE BLOCKS



Whatever option you prefer –
wide ranged product portfolio for
stimulated and Ultrasound guided
peripheral nerve blocks.



PERIPHERAL NERVE
BLOCKS

Peripheral Nerve Block Portfolio

Quality and Functionality Without Compromise

ULTRASOUND

B. Braun offers a large product range of echogenic needles and catheters. Stimuplex™ Ultra 360®, Ultraplex™ 360® and Contiplex S™ Ultra 360® are B. Braun's latest generation of Ultrasound needles that combines enhanced Ultrasound visibility with smooth gliding properties and a good puncture quality.¹¹

NERVE STIMULATION

For the electrical nerve stimulation B. Braun provides a wide range of stimulating needle and catheter systems for different applications. The well established nerve stimulator Stimuplex™ HNS 12 completes the offer.

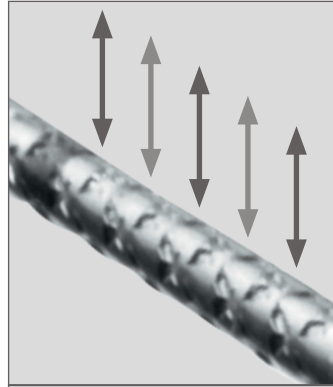


Visibility Without Compromise

The NeXt generations of Echogenic Nerve Block Needles



Circular (360°)
X-pattern-design



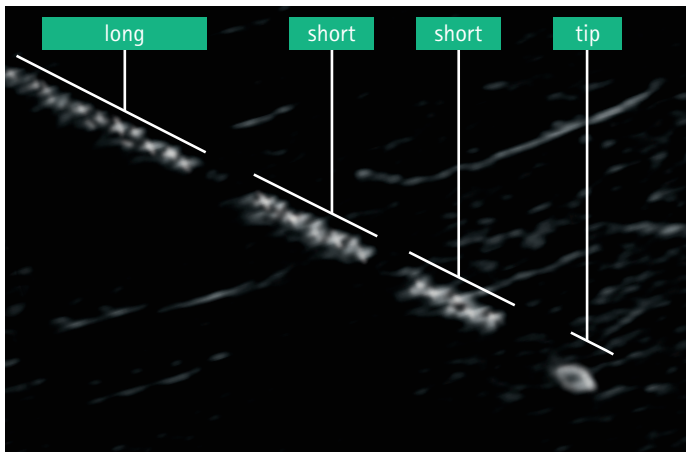
Reflection of the
Ultrasound waves

B. BRAUN ULTRASOUND NEEDLES

Stimuplex™ Ultra 360®, Ultraplex™ 360® and Contiplex™ S Ultra 360® needles feature B. Braun's echogenic 360° X-pattern.

The 'X' is a unique shape, also combined with a clear coating, it's intended to reflect more Ultrasound waves back to the probe than previous designs.¹²

The X-pattern is applied as a segmented safety-code (long-short-short-tip) and facilitates the needle tip identification. The Ultraline 360 portfolio is equipped with 30° back-cut bevel plus 360° X-shaped markings and a clear coating for better ultrasound visualisation and tip identification from all angles.¹³



NAVIGATION

For an easy identification of the needle tip, the X-pattern is strategically applied on the first 20 mm of the needle shaft to create the segmented code "long-short-short-tip". This enables distinction between the needle tip and the upper needle shaft.¹²

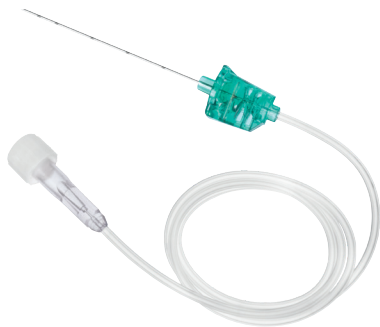
USER BENEFITS

- **Navigation:** Safety code for identification of the needle and needle tip position
- **Visibility:** 360° X-pattern and clear coating result in better Ultrasound visualisation and tip identification compared to previous designs
- **Tactile Feedback:** designed for consistent puncture – same 30° back-cut bevel as previous Stimuplex™ Ultra and Ultraplex™ needles

* Stimuplex™ Ultra 360®, Ultraplex™ 360® and ContiplexS® Ultra 360® are the latest generation of echogenic needles in the B. Braun range and not necessarily the latest generation of all echogenic needles available on the market

Products for Peripheral Nerve Blocks

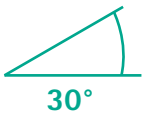
Single Shot Needles



Stimuplex™ and Ultraplex™ single shot needles include navigation markings and an ergonomic design to provide tactile feedback and better needle tip positioning for consistent puncture.

USER BENEFITS

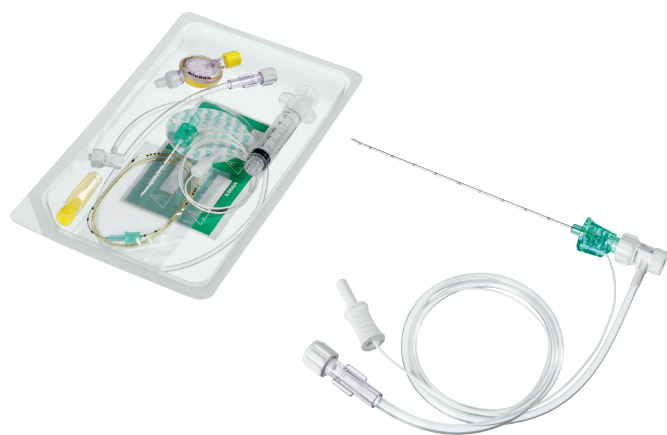
- Improved design allowing better puncture and gliding characteristics
- Broad portfolio of needle lengths from 35 to 150 mm and G22 to G20
- Ergonomic needle hub design for enhanced tactile feedback

Cannula		Bevel	Insulation	Echogenic properties	Stimulating capabilities
		 30°	 Full Tip		
Stimuplex™ Ultra 360®		✓	✓	✓	✓
Ultraplex™ 360®		✓		✓	



Products for Peripheral Nerve Blocks

Sets for Continuous Peripheral Nerve Blocks



Contiplex™ Continuous Nerve Block Sets
Continuous peripheral nerve blocks provide pain relief during and after surgical procedures, for improved patient recovery.¹⁴

USER BENEFITS

- Wide range of catheter sets
- Harmonised set components
- Ultrasound visibility of Perifix™ ONE catheter

Set	Bevel				Echogenic properties	Catheter
	 15°	 20°	 30°	 Tuohy		 ONE
Catheter through the needle technique						
Contiplex™ S Ultra 360 		✓			✓	✓
Contiplex™ Tuohy Ultra 360 				✓	✓	✓
Catheter over the needle						
Contiplex™ C 	✓		✓		✓	✓

Products for Peripheral Nerve Blocks

Nerve Stimulation with the Stimuplex™ HNS 12



1 Stimuplex™ HNS 12 with SENSE



2 Stimuplex™ Pen for cutaneous nerve mapping

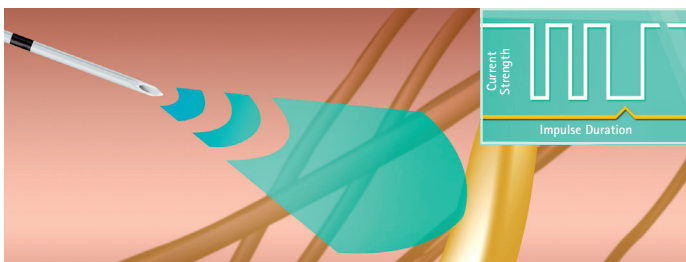
B. Braun Nerve Stimulator – Stimuplex™ HNS 12 with SENSE

What is SENSE?

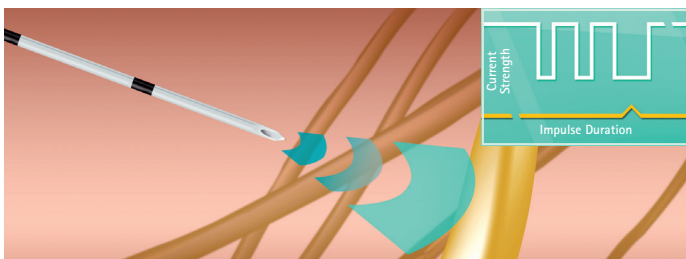
In practice, marginal needle movements often lead to losing the muscle twitch. The SENSE technology (Sequential electrical Nerve Stimulation) is a sequence of two fixed impulse durations of 0.1 ms along with a third longer impulse duration.¹⁵ Most traditional nerve stimulators emit two very short pulses every second. That's because short pulses improve accuracy or specificity when closer to the nerve. The downside is that sensitivity, or the availability to elicit visual feedback at a distance from the nerve, is lost. SENSE technology increases both sensitivity and specificity by adding a third, longer pulse. This results in eliciting a motor response even when the needle is far from or not aimed directly at the nerve and requires less adjustment to the amperage control while retaining the visual feedback.

USER BENEFITS

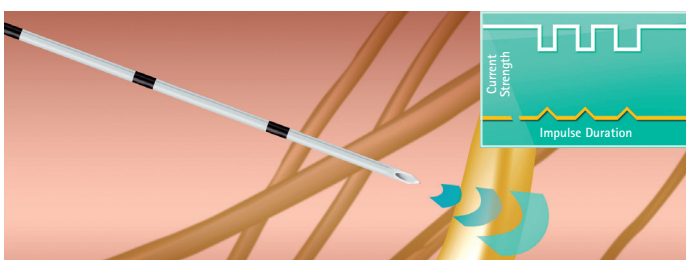
- Stimulation with SENSE-technology designed for more efficient nerve stimulation¹⁵
- Menus designed for easy control of sound and other settings
- Acoustic signals inform the user of any relevant deviations



As the needle is advanced, SENSE generates two short and one long pulse. From the alternating sequence of three impulses, the third longer impulse stimulates the nerve already at a distance. One muscle twitch is visible and indicates that the needle is directed to the nerve.



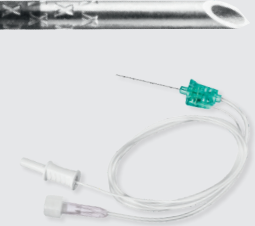
The stimulation needle is further advanced towards the nerve while SENSE maintains the motor response. Current strength adjustments lead to definite reductions of the third impulse.



At the threshold level of approximately 0.5 mA three muscle twitches are visible as all three impulses stimulate the nerve.

Portfolio Overview

SINGLE-SHOT BLOCK NEEDLES

Stimuplex™ Ultra 360®	Needle ø (G) and Length (inch)	Needle ø and Length (mm)	Units per box	Code no. (REF) Luer	Code no. (REF) NRFit®
	Insulated Echogenic Needles with 30° Bevel				
	22 G x 1 3/8"	0.70 x 35 mm	25	4892503-03	4892503NR-01
	22 G x 2"	0.70 x 50 mm		4892505-03	4892505NR-01
	22 G x 3 1/8"	0.70 x 80 mm		4892508-03	4892508NR-01
	20 G x 4"	0.90 x 100 mm		4892510-03	4892510NR-01
	20 G x 6"	0.90 x 150 mm		4892515-03	4892515NR-01

Ultraplex™ 360	Needle ø (G) and Length (inch)	Needle ø and Length (mm)	Units per box	Code no. (REF) Luer	Code no. (REF) NRFit®
	Non-Insulated Echogenic Needles with 30° Bevel				
	22 G x 1 3/8"	0.70 x 35 mm	25	4892603-01	4892603NR-01
	22 G x 2"	0.70 x 50 mm		4892605-01	4892605NR-01
	22 G x 3 1/8"	0.70 x 80 mm		4892608-01	4892608NR-01
	20 G x 4"	0.90 x 100 mm		4892610-01	4892610NR-01
	20 G x 6"	0.90 x 150 mm		4892615-01	4892615NR-01

PERIPHERAL NERVE
BLOCKS

Nerve Stimulation	Description	Units per box	Code no. (REF)
	Stimuplex™ HNS 12 Nerve Stimulator for Stimuplex™, Ultraplex™ and Contiplex™ needles	1	4892098

Nerve Stimulator Accessories and Spare Parts	Units per box	Code no. (REF)
Stimuplex™ pen nerve mapping device	1	4892099
Battery cover for Stimuplex™ HNS 12		4892094
Carrying Case for Stimuplex™ HNS 12		4892095
Test resistor for Stimuplex™ HNS 12		4892096
Electrode cable		4892070
Knob for special handling		4892283

Portfolio Overview

SETS FOR CONTINUOUS NERVE BLOCKS

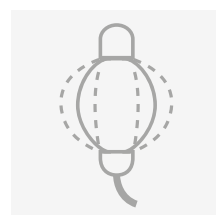
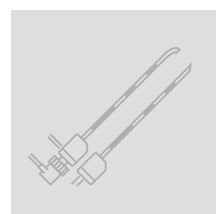
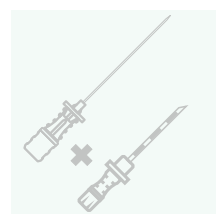
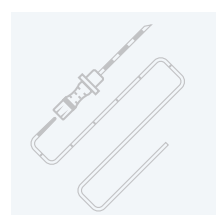
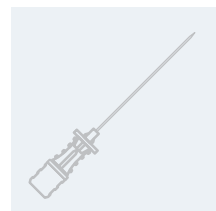
							
				Contiplex™ C catheter-over-the-needle system	Contiplex™ S Ultra 360	Contiplex™ Tuohy Ultra 360	Contiplex™ ONE catheter (6 lateral eyes, open tip)
	Cannula			25G	18G	18G	Contiplex™ ONE Catheter over needle system(mm)
	Size (G)	Size ø (mm)	Length (mm)	Cannula Bevel (°)		Tuohy Bevel	
	Luer and NRFit®			Luer and NRFit®			
Contiplex™ C Sets							
Contiplex™ C	25	0.53	190	15°			188
Contiplex™ C	25	0.53	190	30°			188
Contiplex™ S Ultra 360® Sets							
Contiplex™ S Ultra 360	18	1.3	50		20°		
Contiplex™ S Ultra 360	18	1.3	100		20°		
Contiplex™ S Ultra 360	18	1.3	150		20°		
Contiplex™ Tuohy Ultra 360™ Sets							
Contiplex™ Tuohy Ultra 360	18	1.3	40				
Contiplex™ Tuohy Ultra 360	18	1.3	50				
Contiplex™ Tuohy Ultra 360	18	1.3	100				
Contiplex™ Tuohy Ultra 360	18	1.3	150				

							
Perifix™ ONE Catheter (6 lateral eyes, Closed tip)	Perifix™ Catheter Connector 19G or 20/24G	Perifix™ PinPad filter fixation	Perifix™ Filter 0.2 µm, Pressure resistant up to 7 bar	Omnifix™ syringe 5 ml			
20G Perifix™ ONE catheter through needle system (mm)	Perifix™ Catheter Connector	Perifix™ PinPad	Perifix™ Filter	Omnifix™	Units per box	Code no. (REF) Luer	Code no. (REF) NRFit®
	Luer and NRFit®		Luer and NRFit®	Luer and NRFit®			
				-	5	4898115	4898115NR
				-		4898130	4898130NR
400					10	4898650-27	4898650NR-27
1000						4898610-27	4898610NR-27
500						4898615-27	4898615NR-27
400					10	4898704-27	4898704NR-01
400						4898705-27	4898705NR-01
1000						4898710-27	4898710NR-01
1000						4898715-27	4898715NR-01



EZCOVER™

Improved protection for patient,
user and equipment.



EZCOVER™

EZCOVER™ – improved protection for patient, user and equipment

Ultrasound Probe Cover Set

EZCOVER™. Because infection control matters.

Infection prevention and control are key priorities in the healthcare setting. Although ultrasound is considered one of the safest imaging modalities, infection transmission risks during ultrasound are evident.²⁰ The use of a sterile sheath and gel for interventional ultrasound is an important way to prevent cross-contamination and reduce the risk of healthcare-associated infections.²¹



For invasive procedures (for example, ultrasound guided regional blocks vascular access), the probe and cable should be protected from contamination by use of a sterile cover and be prepared in such a way as to maintain the sterility of the procedural region²³



	Description	Size (W x L cm)	Units	Article Code
Generic Set				
	U/S Probe Cover Set w/Gel	15 x 30	30/Box	PCG15030
	U/S Probe Cover Set w/Gel	15 x 61	30/Box	PCG15061
	U/S Probe Cover Set w/Gel	15 x 122	30/Box	PCG15122
	U/S Probe Cover Set w/Gel	15 x 244	25/Box	PCG15244
Set with STOP (Check)				
	U/S Probe Cover Set, STOP w/Gel	15 x 30	30/Box	PCT15030
	U/S Probe Cover Set, STOP w/Gel	15 x 61	30/Box	PCT15061
	U/S Probe Cover Set, STOP w/Gel	15 x 122	30/Box	PCT15122
	U/S Probe Cover Set, STOP w/Gel	15 x 244	25/Box	PCT15244

Dedicated Protection for Ultrasound Guided Regional Anaesthesia

Stop before you block.

Wrong site blocks (WSB) are classified as never events but they tend to happen frequently.²² A nation-wide patient safety campaign called "Stop before you block" is aimed at reducing the incidence of inadvertent wrong-sided nerve blocks during regional anesthesia.²⁴

EZCOVER™ are available with STOP (Check) label. The sticker reminds the practitioner to STOP immediately prior to the start of the procedure and conduct a final confirmation on the right surgery site and side of the block.

Sterile, latex-free and ensure maximum protection for the patient, the user and the equipment.

EZCOVER™ are suited to all sterile and non-sterile ultrasound applications.

Easy to fit and convenient to use.

The telescopic folding allows for sterile application. Clear instruction labels on the cover support correct use and avoid errors.

Available with or without STOP check peel off sticker

Visibility without compromise.

The high-quality material of the soft sleeve emulates the properties of human tissue. The elastic material facilitates wrinkle and air-free application for distortion free scanning. Probe covers are designed without a seam or crease near the scanning area.

Improved protection

- Latex-free
- Approved for intraoperative use
- Sterile probe cover with sterile gel

Advanced performance

- Soft and comfortable material
- Wrinkle and air-free fit
- No compromise in image quality

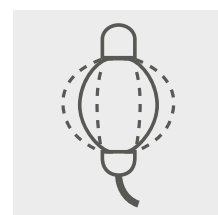
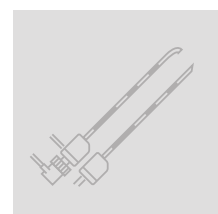
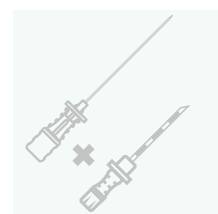
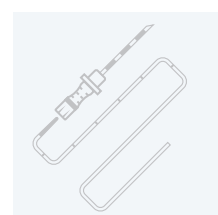
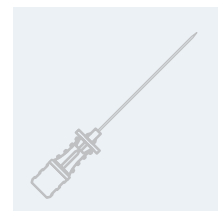
Easy to fit – Convenient to use

- Straightforward handling
- Elastic material – conforms to linear and curvilinear probes
- All necessary components for immediate use in one set



EASYPUMP™ II

Elastomeric infusion devices for
both long term and short term
applications.



Easypump™ II

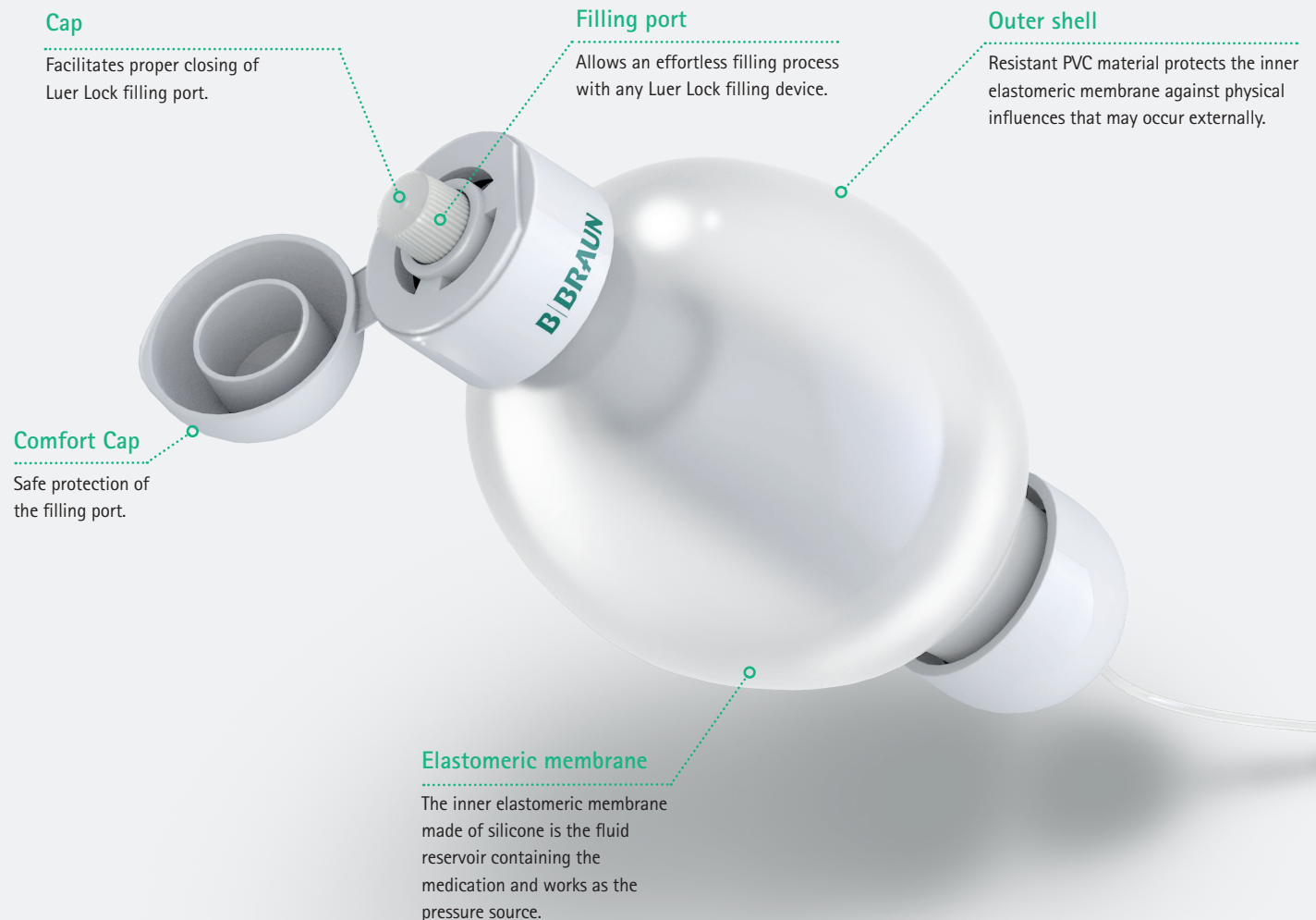
Easypump™ II is a mobile elastomeric infusion pump designed to give clinicians and nurses the option of delivering pre-determined amounts of short or long-term IV therapies to a patient in a continuous and accurate manner, either at the hospital, in an ambulatory setting or at their home.

It offers a broad product portfolio of different versions and features a clear coding system that helps to identify the version that best fits the patients needs.

HOW IT WORKS

Medication is delivered to the patient by positive pressure applied by the elastomeric membrane. The flow rate is determined by the combination of the flow regulation device (flow restrictor) and the positive pressure of the elastomeric membrane.

This pressure delivers the solution against the back-pressure of catheters and blood pressure in the veins.



BENEFITS FOR PATIENTS

- Small and light (especially as therapy progresses)
- Carry Pouch enables discrete transport of the pump
- Allows patient faster discharge from hospital
- Helps to return to normal activities quicker

BENEFITS FOR PHYSICIANS

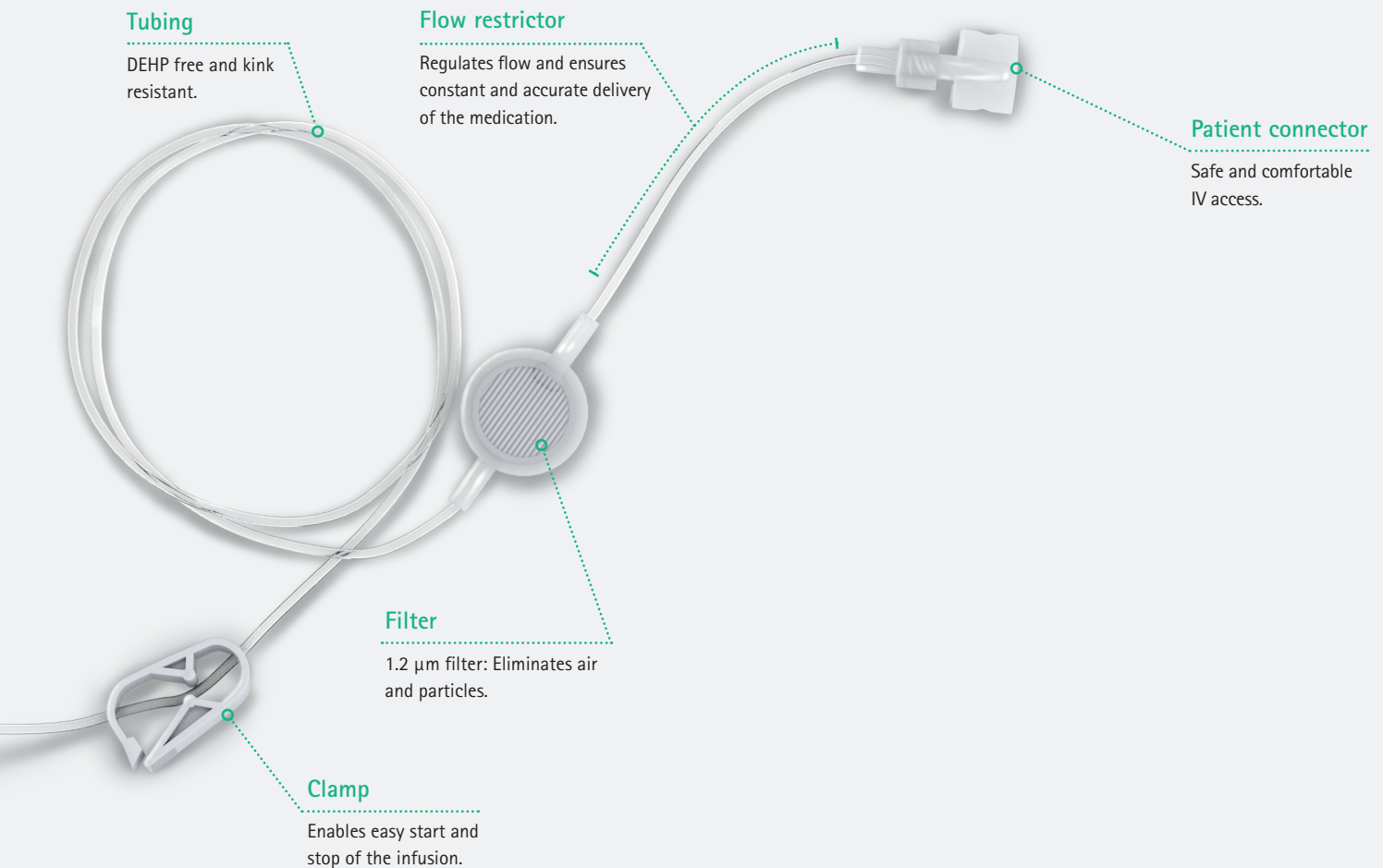
- Versatile use for infusion therapies like chemotherapy and antibiotics
- Broad range of therapies (extensive list of drug stability data available)
- Suitable for intravenous, subcutaneous and epidural treatment
- Suitable for stationary and ambulatory use
- Preset parameters to ensure safety for both hospital and home use
- Safe, single-use system for clean and easy handling
- Fully latex-free product portfolio

BENEFITS FOR PHARMACISTS

- Easy filling with low filling force
- Broad range of therapies (extensive list of drug stability data available)
- Preset parameters to ensure safety for hospital and home use
- No programming or rate changing necessary
- Integrated air venting and particle filter
- Fully latex-free product portfolio
- Minimal training required

BENEFITS FOR NURSES

- Easy maintenance, reduced workload
- Minimal training required
- Low filling force
- No programming or rate changing necessary
- No fuss with batteries or electric devices
- Integrated air venting and particle filter
- Kink-resistant tubing



Easypump™ II

Product specifications

Long-term infusion

Long-term infusion		Filling volume and delivery time						
Description	Color code & flow rate (ml/h)	Nominal filling		Minimum filling		Maximum filling		Code no. (REF)
		ml	h	ml	h	ml	h	
Easypump™ II LT 60-12-S		60	12	30	6	65	13	4540002*
Easypump™ II LT 80-16-S		80	16	50	10	125	25	4540004*
Easypump™ II LT 125-25-S		125	25	60	12	125	25	4540006
Easypump™ II LT 270-27-S		270	27	120	12	335	34	4540008
Easypump™ II LT 60-30-S		60	30	30	15	65	33	4540010
Easypump™ II LT 120-30-S		120	30	60	15	125	31	4540012*
Easypump™ II LT 400-40-S		400	40	240	24	560	56	4540014
Easypump™ II LT 100-50-S		100	50	50	25	125	63	4540016
Easypump™ II LT 270-54-S		270	54	135	27	335	67	4540018
Easypump™ II LT 400-80-S		400	80	240	48	560	112	4540022
Easypump™ II LT 270-68-S		270	68	135	34	335	84	4540026*
Easypump™ II LT 400-100-S		400	100	240	60	560	140	4540028*
Easypump™ II LT 270-135-S		270	135	135	68	335	168	4540032

Short-term infusion

Short-term infusion		Filling volume and delivery time						
Description	Color code & flow rate (ml / h)	Nominal filling		Minimum filling		Maximum filling		Code no. (REF)
		ml	h	ml	h	ml	h	
Easypump™ II ST 100-0.5-S		100	30	50	15	125	38	4540040*
Easypump™ II ST 250-0.5-S		250	30	125	15	295	35	4540042*
Easypump™ II ST 50-1-S		50	60	30	36	65	78	4540044*
Easypump™ II ST 100-1-S		100	60	50	30	125	75	4540046*
Easypump™ II ST 250-1-S		250	60	135	32	335	80	4540048*
Easypump™ II ST 250-1.5-S		250	86	135	46	335	115	4540050*
Easypump™ II ST 400-2-S		400	120	240	72	560	168	4540052*
Easypump™ II ST 500-2-S		500	120	240	58	560	134	4540054*
Easypump™ II ST 100-2-S		100	120	50	60	125	150	4540056*
Easypump™ II ST 400-4-S		400	240	240	144	560	336	4540058*

All Easypump™ II ST-LT versions are provided in boxes of 10 units.
Contact for availability and minimum order requirements.

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