NRFit®

Reducing Risks of Misconnections in Regional Anesthesia

Connecting what belongs together

Medical device connectors for Neuraxial & Regional Anesthesia applications are changing to meet international design standards.

Medication errors during Regional Anesthesia procedures

The universally compatible Luer connector has been identified as a key element in 'wrong route' medication errors. Luer connectors are widely used for delivery of infusions. Literature shows that any patient having multiple access systems in place are exposed to higher risks of misconnections.[1]

The increasing sensitivity to medication errors in clinical settings is visible in an increasing number of publications on this subject in Pubmed between 2000 and 2014 (Fig. 1).

FIGURE 1

NUMBER OF REPORTS

800
700
600
500
400
300
200
0

2000 2002 2004 2006 2008 2010 2012 2014
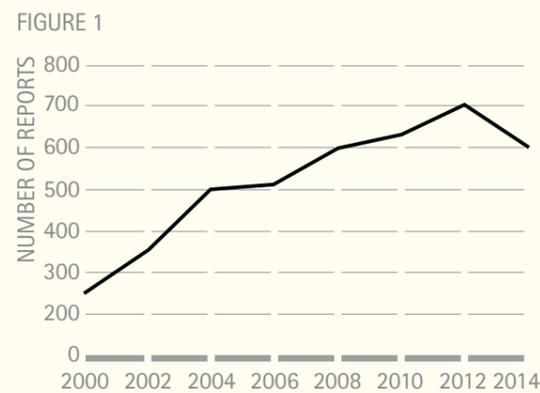
Enhancing patient safety with NRFit®

To reduce the risk of wrong route medication errors the International Organization for Standardization (ISO) has developed standards for small-bore connectors, one being in the field of Neuraxial and Regional Anesthesia (ISO 80369-6). The name that will be used to identify devices that comply with the ISO 80369-6 standard is:

NRFit®

ISO 80369-6 in detail

The ISO Standard 'specifies requirements for small-bore connectors intended to be used for connections in Neuraxial applications. Neuraxial applications involve the use of medical devices intended to administer medications to neuraxial sites, wound infiltration anesthesia delivery, and other Regional Anesthesia procedures or to monitor or remove cerebro-spinal fluid for therapeutic or diagnostic purposes.'[2]

» *The International Organization for Standardization (ISO) has identified several medical application areas for which an ISO standard will be developed. These standards are part of the ISO 80369 series. Each standard will provide design and performance specifications for the specific connectors.[3]*

NRFit®

Neuraxial & Regional Anesthesia applications

Connector design based on ISO 80369-6

ENFit®

Enteral applications

URETHRAL AND URINARY APPLICATIONS

BREATHING SYSTEMS AND DRIVING GASES APPLICATIONS

LIMB CUFF INFLATION APPLICATIONS

INTRAVASCULAR OR HYPODERMIC APPLICATIONS
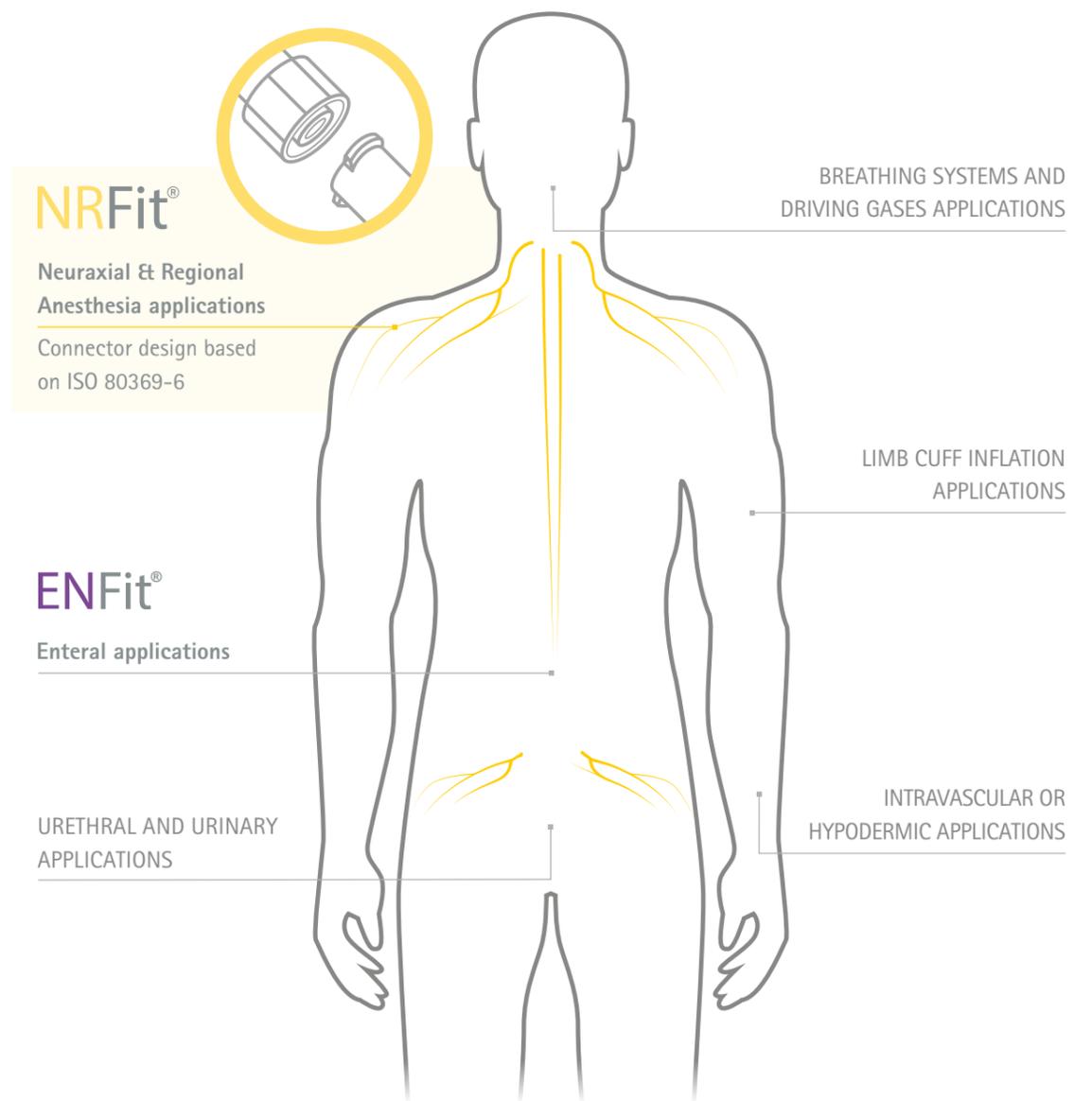
Connector Changes in Regional Anesthesia

And how it impacts your working process

Observe. Listen. Understand. To find solutions that fit into everyday clinical life, B. Braun conducts a vivid dialog with customers. Learning the importance of clear structures, we identified five major steps that represent customary therapy processes. Each of these steps is mapped with aligned products that are dedicated towards improving comfort and achieving a higher level of safety for users and for patients.

| PRESCRIPTION | PATIENT ACCESS | PREPARATION | APPLICATION | DISCHARGE MANAGEMENT |
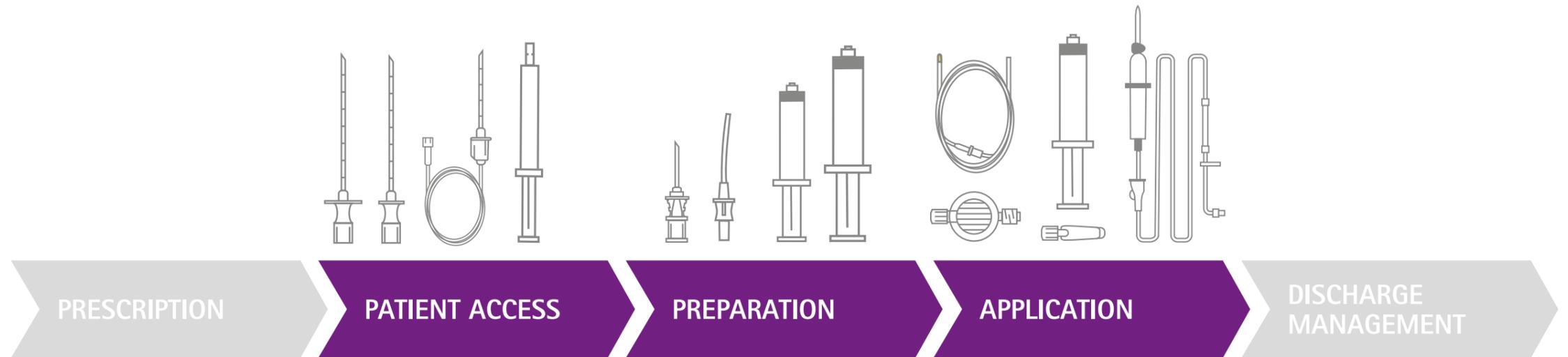
Regional Anesthesia products with NRFit® connector

In line with the ISO Standard for Neuraxial and Regional Anesthesia devices, B. Braun has developed a comprehensive portfolio with NRFit® connectors for the corresponding process steps:

PATIENT ACCESS: Spinal, Epidural and PNB needles and LOR syringes
PREPARATION: Filter needles, straws and syringes
APPLICATION: Catheter, syringes, filter, catheter connector, pump disposables

Luer connector

NRFit® connector

User Benefits

- Dedicated connectors intended to help reduce the risks of misconnections
- 20 % smaller in diameter
- Yellow color coding where feasible allows faster identification of Regional Anesthesia devices
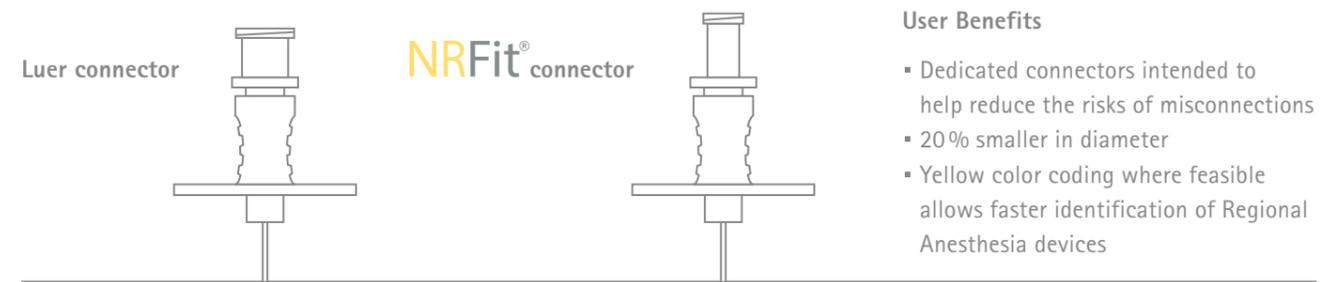
B. Braun, as a true *System Partner*, helps to stay on top of evolving standards and their realization across multiple stakeholders, e. g. nurses, pharmacists and anesthetists. With access to our comprehensive product portfolio in Pain Therapy and through constructive dialogue, our partners benefit from B. Braun's know-how and expertise.

Neuraxial Anesthesia with NRFit®

Connecting what belongs together

Therapeutic and anesthetic decisions depend upon a number of factors, including the type and duration of the surgical intervention, patient status and selected postoperative patient management approaches.

Regional Anesthesia can be divided into central and peripheral techniques. When a local anesthetic agent is used next to the spinal cord, this is referred to as Neuraxial Anesthesia. Neuraxial methods include Spinal and Epidural Anesthesia.
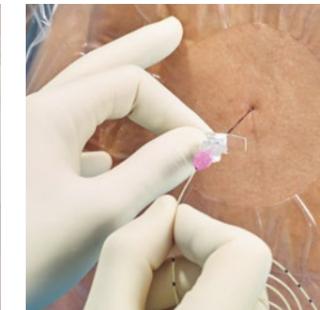
NRFit®

Products with NRFit® connector

| PATIENT ACCESS: SPINAL ANESTHESIA PRODUCTS | | PATIENT ACCESS: EPIDURAL ANESTHESIA   PRODUCTS | | | APPLICATION: EPIDURAL ANESTHESIA PRODUCTS | |
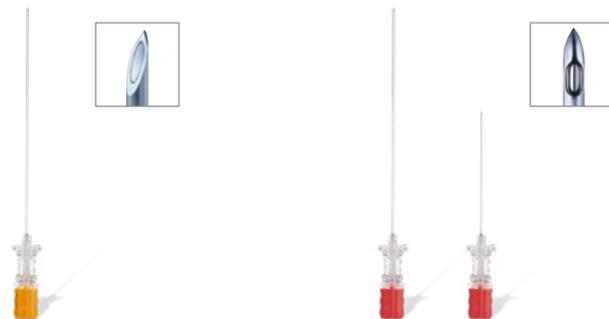
Spinocan®

Spinocan® spinal needles with Quincke bevel provide sharpness for low puncture force. A prism included in the spinal needle hub, supports identification of CSF flashback.

Pencan® and Pencan® Paed

Pencan® spinal needles have an atraumatic Pencil point bevel, which helps reduce PDPH.[4] They are available in adult and pediatric sizes. A prism included in the spinal needle hub, supports identification of CSF flashback.

Perican®

Perican® epidural needles with Tuohy bevel are available in different sizes. Their polished inner bevel edge helps to reduce the risk of catheter shearing.

Epican® Paed Caudal

Epican® Paed Caudal needles with 45° Crawford type bevel for caudal Pediatric Anesthesia come in three different needle sizes with adjusted depth markings.

Perifix® LOR syringe

Perifix® LOR is a dedicated device for the loss of resistance technique in Epidural Anesthesia. Suitable for air and saline application. Its parabolic graduation helps to differentiate it from conventional syringes.

Perifix® catheters

Perifix® catheters for Epidural Anesthesia are available in different versions and types – Standard, Soft Tip and ONE.

Perifix® filter and Perifix® catheter connector

Filters provide an additional degree of safety and control to reduce the risk of bacterial infections. The design of the Perifix® catheter connector and it's 'click and ready' mechanism ensure easy use in daily practice.

PRESCRIPTION ▸ **PATIENT ACCESS** ▸ PREPARATION ▸ **APPLICATION** ▸ DISCHARGE MANAGEMENT

Peripheral Nerve Blocks with NRFit®

Connecting what belongs together

Peripheral and Plexus Nerve Blocks are one of the segments of Regional Anesthesia, where a local anesthetic agent is used next to a nerve to provide sensory and motor blockades.

Peripheral nerve blocks can be employed for Anesthesia and for Postoperative Analgesia in order to support early patient mobilization and rehabilitation. PNBs are also used in combination with other forms of Anesthesia and where volatile anesthetics are contraindicated.
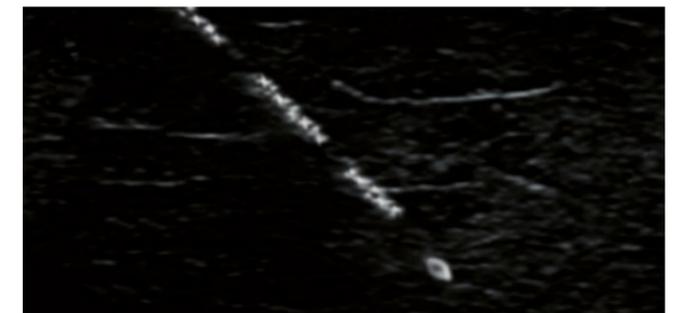
NRFit®

Products with NRFit® connector
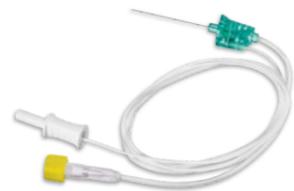
Stimuplex® Ultra 360® needles

Stimuplex® Ultra 360® is designed to perform an ultrasound guided peripheral nerve block and nerve stimulation. Due to high visibility of the X-pattern, the needle is easy to visualize under ultrasound with few artefacts.

Ultraplex® 360 needles

Ultraplex® 360 is a non-stimulating ultrasound needle, equipped with improved product properties to perform ultrasound guided peripheral nerve blocks, when nerve stimulation is not indicated (e.g. transversus abdominalplane block).

Contiplex® S Ultra 360® needles

Contiplex® S Ultra 360® is a continuous technique needle with a 20° facet bevel, designed to perform ultrasound guided peripheral nerve blocks in combination with nerve stimulation.

Contiplex® Tuohy Ultra 360® needles

Contiplex® Tuohy Ultra 360® is a continuous technique needle with Tuohy bevel, designed to perform ultrasound guided peripheral nerve blocks in combination with nerve stimulation.

Contiplex® C

Contiplex® C is a patented catheter placement system with the innovative catheter-over-needle design. It is designed to help overcome the limitations associated with peripheral catheters, such as complexity of catheter placement, leakage and catheter displacement.

PRESCRIPTION | PATIENT ACCESS | PREPARATION | APPLICATION | DISCHARGE MANAGEMENT

Regional Anesthesia Accessories and Complementary Portfolio

Connecting what belongs together
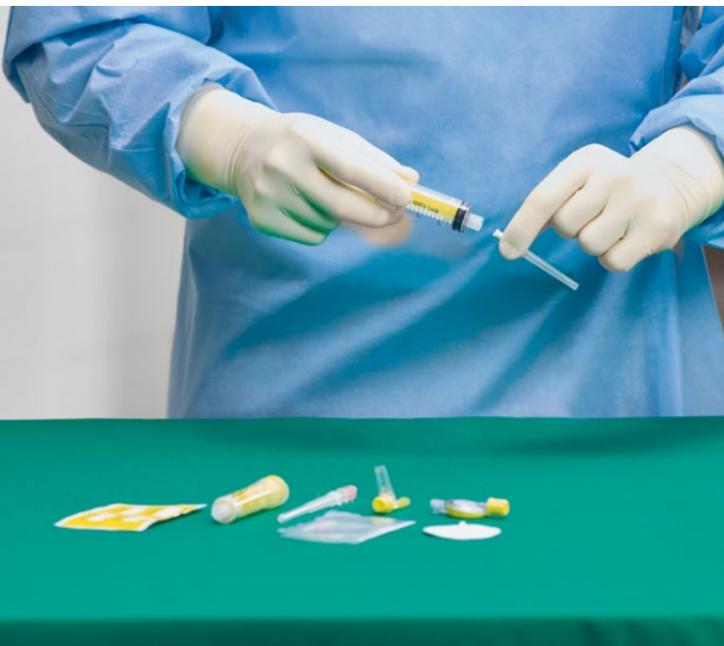
Preparation is a fundamental and irreplaceable part of health care practices. B. Braun preparation devices with NRFit® connectors are designed to reduce risks of wrong route medication errors and particulate contamination from the very beginning in Neuraxial and Regional Anesthesia procedures.

The method of drug application depends on the chosen technique of anesthesia and on the selected post-operative pain management approach. Different options require dedicated systems. Whether the chosen method of delivery is a bolus or a continuous application, the variety of B. Braun's portfolio ensures flexibility.

The yellow product color coding of syringes and lines helps to visually differentiate between regular and NRFit® dedicated equipment.

Dedicated pump disposables with NRFit® connectors are pressure resistant and suitable for use with compatible electronic pumps.

Products with NRFit® connector

PREPARATION: DRAWING-UP DEVICES, FILTER AND CONNECTOR

Sterifix® filter needle

Equipped with a 5 µm filter, Sterifix® filter needle allows for filtering particles during the injection or the withdrawal of medication for Regional Anesthesia.

Sterifix® filter straws

Sterifix® filter straws for Regional Anesthesia with a 5 µm integrated filter allow for the withdrawal of solutions whilst filtering particles.

Perifix® filter

Perifix® filters for Regional Anesthesia are pressure resistant up to 7 bar. In combination with Perifix® PinPad, a self-adhesive fixation device, they can easily be attached to the patient's skin.

Perifix® catheter connector

Perifix® catheter connectors are available in two sizes (19G and 20/24G). A viewing window allows for catheter insertion control to ensure successful connection.

Products with NRFit® connector

APPLICATION: SYRINGES AND PUMP DISPOSABLES

NRFit® syringe caps and NRFit® stoppers

NRFit® syringe caps are a single sterile solution for storage and/or transport alongside our Omnifix® portfolio. NRFit® stoppers are there to close our NRFit® filter or Perifix® catheter connector.

Omnifix® 1–50 ml

Omnifix® 3-piece syringes are available in a broad portfolio NRFit® Slip and Lock. 3-20 ml Lock versions and 50 ml syringes with NRFit® Lock connector can be used in combination with compatible syringe pumps.

Original Perfusor® Line

The Original Perfusor® Line equipped with the NRFit® connector enables compatibility to NRFit® syringes for pump applications. The translucent yellow tubes help to visually differentiate from other lines.

Infusomat® Space Lines

Dedicated Infusomat® Space Lines have a piercing spike and an NRFit® patient connector. The translucent yellow tubes help to visually differentiate from other lines.

PRESCRIPTION → PATIENT ACCESS → PREPARATION → APPLICATION → DISCHARGE MANAGEMENT

Regional Anesthesia Products with NRFit®

Product specifications

SPINAL NEEDLES

Spinocan®	Color code	Size (G)/ Length (inch)	ø/Length (mm)	Units per box	Code no. (REF)
	🟥 red	29 x 3¹/₂"	0.35 x 88		4501900N-01*
	⬜ grey	27 x 3¹/₂"	0.40 x 88		4503902N-01
	🟫 brown	26 x 3¹/₂"	0.45 x 88		4502906N-01
	🟧 orange	25 x 3"	0.50 x 75		4505751N-01
	🟧 orange	25 x 3¹/₂"	0.50 x 88		4505905N-01
	⬛ black	22 x 1¹/₂"	0.70 x 40		4507401N-01
	⬛ black	22 x 3"	0.70 x 75	25	4507754N-01
	⬛ black	22 x 3¹/₂"	0.70 x 88		4507908N-01
	🟨 yellow	20 x 3"	0.90 x 75		4509757N-01
	🟨 yellow	20 x 3¹/₂"	0.90 x 88		4509900N-01
	cream	19 x 1¹/₂"	1.10 x 40		4501144N-01
	cream	19 x 3¹/₂"	1.10 x 88		4501195N-01
	🩷 pink	18 x 3"	1.30 x 75		4501373N-01
	🩷 pink	18 x 3¹/₂"	1.30 x 88		4501390N-01
Long Length					
	🟥 red	29 x 4³/₄"	0.35 x 120		4501918N-01
	⬜ grey	27 x 4³/₄"	0.40 x 120		4502140N-01
	🟫 brown	26 x 4³/₄"	0.45 x 120	25	4504917N-01
	🟧 orange	25 x 4³/₄"	0.50 x 120		4505913N-01
	⬛ black	22 x 4³/₄"	0.70 x 120		4506090N-01
	⬛ black	22 x 6"	0.70 x 150		4506095N-01
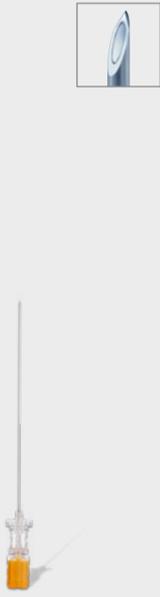
*With Spinal Introducer Needle

Pencan®	Color code	Size (G)/ Length (inch)	ø/Length (mm)	Units per box	Code no. (REF)
	⬜ grey	27 x 3¹/₂"	0.40 x 88		4502027N-01 / 4502051N-01*
	🟧 orange	25 x 3¹/₂"	0.50 x 88	25	4502019N-01 / 4502043N-01*
	⬛ black	22 x 3¹/₂"	0.70 x 88		4502035N-01
Long Length					
	⬜ grey	27 x 4"	0.40 x 103		4502124N-01*
	⬜ grey	27 x 4³/₄"	0.40 x 120		4502132N-01
	🟧 orange	25 x 4"	0.50 x 103	25	4502116N-01*
	🟧 orange	25 x 4³/₄"	0.50 x 120		4502120N-01
	🟧 orange	25 x 6.1"	0.50 x 156		333877N-01

*With Spinal Introducer Needle

12

SPINAL NEEDLES

Pencan® Paed	Color code	Size (G)/ Length (inch)	ø/Length (mm)	Units per box	Code no. (REF)
	⬜ grey	27 x 2"	0.40 x 50		4502175N-01
	🟧 orange	25 x 1"	0.50 x 25	25	4502167N-01
	🟧 orange	25 x 2"	0.50 x 50		4502159N-01

INTRODUCER

Spinal Introducer Needles (for Spinocan® and Pencan®)	Color code	Size (G)/ Length (inch)	ø/Length (mm)	Units per box	Code no. (REF)
	For Spinal Needles 29 G and 27 G				
	⬜ white	22 x 1³/₈"	0.70 x 35	25	4500059
	For Spinal Needles 26 G and 25 G				
	🟨 yellow	20 x 1³/₈"	0.90 x 35	25	4505000

EPIDURAL NEEDLES

Perican®	Color code	Size (G)/ Length (inch)	ø/Length (mm)	Units per box	Code no. (REF)
	🩷 pink	18 x 3¹/₄"	1.30 x 80	25	4512383N-01
	⬜ white	16 x 3¹/₄"	1.70 x 80		4512782N-01
	Long Length				
	🩷 pink	18 x 4³/₄"	1.30 x 120		4512453N-01
	🩷 pink	18 x 6"	1.30 x 150	25	4512200N-01
	⬜ white	16 x 4³/₄"	1.70 x 120		4512785N-01
	⬜ white	16 x 6"	1.70 x 150		4512784N-01

Perican® Paed	Color code	Size (G)/ Length (inch)	ø/Length (mm)	Units per box	Code no. (REF)
	⬛ black	22 x 2"	0.73 x 50		4502078N-01
	🟨 yellow	20 x 2"	0.90 x 50	25	4502094N-01
	🩷 pink	18 x 2"	1.30 x 50		4502302N-01

Epican® Paed Caudal	Color code	Size (G)/ Length (inch)	ø/Length (mm)	Units per box	Code no. (REF)
	🟧 orange	25 x 1¹/₈"	0.53 x 30		4502400N-01
	⬛ black	22 x 1³/₈"	0.73 x 35	25	4502418N-01
	🟨 yellow	20 x 2"	0.90 x 50		4502426N-01

13

Regional Anesthesia Products with NRFit®

Product specifications

EPIDURAL CATHETERS

Perifix® catheter	Catheter ø outer/inner/ Length (mm) (G)	Suitable for Perican® Size (G)	Units per box	Code no. (REF)
Perifix® Standard catheter (with 3 lateral eyes)				
	1.05/0.60/1000 (19)	16	25	4513258N-01
	0.85/0.45/1000 (20)	18		4513150N-01
Perifix® Standard catheter (with central opening)				
	0.85/0.45/1000 (20)	18	25	4513177N-01
Perifix® Soft Tip catheter (with 3 lateral eyes)				
	0.85/0.45/1000 (20)	18	25	4515048N-01
Perifix® ONE catheter (with 6 lateral eyes)				
	1.05/0.60/1000 (19)	16	25	45132581N-01
	0.85/0.45/1000 (20)	18		45131501N-01

ACCESSORIES & COMPLEMENTARY PORTFOLIO

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

Perifix® catheter connector		Size (G)	Units per box	Code no. (REF)
		19	50	4513801N-01
		20/24		4513800N-01

Perifix® filter		Particle filter (µm)	Units per box	Code no. (REF)
		0.20	25	4515501N-01

ACCESSORIES & COMPLEMENTARY PORTFOLIO

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

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

Perifix® Loss-of-Resistance (LOR) Syringe NRFit®	Description	Units per box	Code no. (REF) NRFit®
	Perifix® LOR Syringe, Slip NRFit®	25	4637110
	Perifix® LOR Syringe, Lock NRFit®		4638110

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

Regional Anesthesia Products with NRFit®

EPIDURAL ANESTHESIA SETS

Legend
- 🟨 20 G x 2", ø 0.90 x 50 mm
- 🟪 18 G x 3¹⁄₄", ø 1.30 x 80 mm,
- 🟪 18 G x 2", ø 1.30 x 50 mm (Paed Set)
- ⬜ 16 G x 3¹⁄₄", ø 1.70 x 80 mm

Products (left block):
- Perican® Tuohy needle (50 mm / 80 mm)
- Perifix® ONE epidural catheter, 6 lateral eyes (24 G / 20 G / 19 G)
- Perifix® epidural catheter, 3 lateral eyes (20 G / 19 G)
- Perifix® Soft Tip epidural catheter, 3 lateral eyes (20 G)
- Perifix® Loss of Resistance syringe

Products (right block):
- Omnifix® three part syringe, 20 ml, Lock, Sterifix® filter needle
- Omnifix® three part syringe, 3 ml, Lock, Sterifix® filter needle
- Perifix® Filter 0.20 µm, pressure resistant up to 7 bar
- Perifix® catheter connector 19 G or 20/24 G
- Perifix® PinPad filter fixation
- Omnifix® three part syringe, 3 ml, Luer Lock, 3 hypodermic Luer needles* — **Caution: Product with Luer connection**

* Sterican® needles
- 25 G, 16 mm, ø 0.50 mm
- 21 G, 40 mm, ø 0.80 mm
- 18 G, 40 mm, ø 1.20 mm

Set versions	Perican® with NRFit®	Perifix® ONE with NRFit®	Perifix® Standard with NRFit®	Perifix® Soft Tip with NRFit®	Perifix® LOR with NRFit®	Omnifix® and Sterifix® with NRFit® (20 ml)	Omnifix® and Sterifix® with NRFit® (3 ml)	Perifix® Filter with NRFit®	Perifix® catheter connector with NRFit®	Perifix® PinPad	Omnifix® and hypodermic needles with Luer	Units per box	Code No. (REF)
Complete Sets													
Perifix® 421	🟪		■		■	■		■	■	■	■		4514211N-01
Perifix® Soft Tip 901	🟪			■	■	■		■	■		■	10	4510305N-01
Perifix® ONE 421	🟪	■			■	■		■	■		■		45142111N-01
Filter Sets													
Perifix® 400	🟪		■				■	■	■				4514009N-01
Perifix® 401	🟪		■		■		■	■	■				4514017N-01
Perifix® 402	⬜			■	■		■	■					4514025N-01
Perifix® Soft Tip 701	🟪			■	■		■	■	■			10	4510097N-01
Perifix® Soft Tip 730	⬜			■			■	■					4517309N-01
Perifix® ONE 401	🟪	■			■		■	■	■				45140171N-01
Perifix® ONE 402	⬜	■			■		■	■					45140251N-01
Pediatric Sets													
Perifix® ONE Paed 18	🟪	■					■	■	■	■		10	45120061N-01
Perifix® ONE Paed 20	🟨	■			■		■	■	■				45120141N-01
Mini Set													
Perifix® 300	🟪		■						■			10	4513002N-01

Regional Anesthesia Products with NRFit®

Product specifications

SETS FOR COMBINED SPINAL AND EPIDURAL ANESTHESIA

Espocan® and Perifix® Standard	Size (G)/ Length (inch)	ø/ Length (mm)	Units per box	Code no. (REF)
With Quincke-Bevel: Spinocan®				
	27 x 5"	0.42 x 126	10	4556674N-01
Pencil-Point Cannula: Pencan®				
	27 x 5 ⅛"	0.42 x 130.5	10	4556666N-01
All sets contain				

- Perifix® Standard catheter, 3 lateral eyes
- Perican® epidural cannula ø 1.30 mm, 18 G x 88 mm
- Perifix® LOR Syringe, Slip NRFit®
- Perifix® epidural flat filter 0.20 µm
- Perifix® PinPad
- Perifix® catheter connector

Espocan® and Perifix® Standard with Docking System	Size (G)/ Length (inch)	ø/ Length (mm)	Units per box	Code no. (REF)
With Quincke-Bevel: Spinocan®				
	27 x 5 ½"	0.42 x 139	10	4556747N-01
Pencil-Point Cannula: Pencan®				
	27 x 5 ½"	0.42 x 141	10	4556763N-01
All sets contain				

- Perifix® Soft-Tip catheter, 3 lateral eyes
- Docking system
- Perican® epidural cannula ø 1.30 mm, 18 G x 88 mm
- Perifix® LOR Syringe, Slip NRFit®
- Perifix® epidural flat filter 0.20 µm
- Perifix® PinPad
- Perifix® catheter connector

Notes

Regional Anesthesia Products with NRFit®

Product specifications

SINGLE-SHOT BLOCK NEEDLES

Stimuplex® D	Needle ø (G) and Length (inch)	Needle ø and Length (mm)	Units per box	Code no. (REF)
	Insulated Needles with 15˚ Bevel			
	25 x 1 ⅓"	0.50 x 35 mm		4892153NR
	25 x 2 ⅛"	0.50 x 55 mm		4892155NR
	23 x 1 ½"	0.60 x 40 mm		4892134NR
	23 x 2 ¾"	0.60 x 70 mm	25	4892137NR
	22 x 2"	0.70 x 50 mm		4892105NR
	22 x 3 ⅛"	0.70 x 80 mm		4892108NR
	22 x 4 ¾"	0.70 x 120 mm		4892112NR
	20 x 6"	0.90 x 150 mm		4892115NR
	Insulated Needles with 30˚ Bevel			
	22 x 1 ½"	0.70 x 40 mm		4892204NR
	22 x 2"	0.70 x 50 mm	25	4892205NR
	22 x 3 ⅛"	0.70 x 80 mm		4892208NR

Ultraplex® 360	Size (G)/ Length (inch)	ø/Length (mm)	Bevel (°)	Units per box	Code no. (REF)
	22 x 1 ⅜"	0.70 x 35			4892603NR-01
	22 x 2"	0.70 x 50			4892605NR-01
	22 x 3 ⅛"	0.70 x 80	30	25	4892608NR-01
	20 x 4"	0.90 x 100			4892610NR-01
	20 x 6"	0.90 x 150			4892615NR-01

Stimuplex® Ultra 360®	Size (G)/ Length (inch)	ø/Length (mm)	Bevel (°)	Units per box	Code no. (REF)
	22 x 1 ⅜"	0.70 x 35			4892503NR-01
	22 x 2"	0.70 x 50			4892505NR-01
	22 x 3 ⅛"	0.70 x 80	30	25	4892508NR-01
	20 x 4"	0.90 x 100			4892510NR-01
	20 x 6"	0.90 x 150			4892515NR-01

ACCESSORIES

Nerve Stimulation	Description	Units per box	Code no. (REF)
	Stimuplex® HNS 12 Nerve Stimulator for Stimuplex®, Ultraplex® and Contiplex® needles	1	4892098
	Stimuplex® HNS Compact Nerve Stimulator*	1	4892101

*Stimuplex® HNS Compact is not available in all countries

Nerve Stimulator Accessories and Spare Parts	Units per box	Code no. (REF)
Stimuplex® Pen for cutaneous nerve mapping		4892099
Electrode cable for Stimuplex® HNS 11/12		4892070
Battery cover for Stimuplex® HNS 12	1	4892094
Carrying Case for Stimuplex® HNS 12		4892095
Test resistor for Stimuplex® HNS 12		4892096
Knob for special handling		4892283

Regional Anesthesia Products with NRFit®

Product specifications

SETS FOR CONTINUOUS NERVE BLOCKS

Product	Needle type / G
Contiplex® C catheter-over-the-needle system	25 G
Contiplex® S / Contiplex® S Ultra 360®	18 G
Contiplex® Tuohy / Contiplex® Tuohy Ultra 360®	18 G
Contiplex® D	18 G, 20 G
Perifix® Standard Catheter	
Contiplex® ONE Catheter (6 lateral openings, closed tip, open tip for Contiplex® C)	
Perifix® Catheter Connector 19 G or 20/24 G	
Perifix® PinPad filter fixation	
Perifix® Filter 0.2 µm, Pressure resistant up to 7 bar	
Omnifix® syringe 5 ml	

Set Specifications	Bevel (°) with NRFit®	Needle Size (G) with NRFit®	Needle Size Ø (mm) with NRFit®	Needle Length (mm) with NRFit®	Perifix® Standard 3 lateral openings (closed tip) (mm)	Perifix® Standard central opening (open tip) (mm)	Contiplex® ONE (mm)	Perifix® Catheter Connector	Perifix® PinPad	Perifix® Filter with NRFit®	Omnifix® with NRFit®	Units per box	Code no. (REF)
Contiplex® C Sets													
Contiplex® C	15	25	0.53	190	–	–	187	■	■	■	–	5	4898115NR
Contiplex® C	30	25	0.53	190	–	–	187	■	■	■	–		4898130NR
Contiplex® D Sets													
Contiplex® D	15	18	1.30	110	–	1000	–	■	■	■	■		4898311NR
Contiplex® D	15	20	1.10	33	–	400	–	■	■	■	■		4898323NR
Contiplex® D	15	20	1.10	55	–	400	–	■	■	■	■	10	4898325NR
Contiplex® D	15	18	1.30	55	–	400	–	■	■	■	■		4898305NR
Contiplex® D	30	18	1.30	55	–	400	–	■	■	■	■		4898335NR
Contiplex® S and Contiplex® S Ultra 360® Sets													
Contiplex® S	20	18	1.30	50	500	–	–	■	■	■	■		4898405NR
Contiplex® S	20	18	1.30	100	500	–	–	■	■	■	■		4898410NR
Contiplex® S	20	18	1.30	150	1000	–	–	■	■	■	■	10	4898415NR
Contiplex® S Ultra 360®	20	18	1.30	50	–	–	400	■	■	■	■		4898650NR-27
Contiplex® S Ultra 360®	20	18	1.30	100	–	–	1000	■	■	■	■		4898610NR-27
Contiplex® S Ultra 360®	20	18	1.30	150	–	–	500	■	■	■	■		4898615NR-27
Contiplex® Tuohy and Contiplex® Tuohy Ultra 360® Sets													
Contiplex® Tuohy	Tuohy bevel	18	1.30	40	500	–	–	■	■	■	■		4898504NR
Contiplex® Tuohy	Tuohy bevel	18	1.30	50	500	–	–	■	■	■	■		4898505NR
Contiplex® Tuohy	Tuohy bevel	18	1.30	100	500	–	–	■	■	■	■		4898510NR
Contiplex® Tuohy	Tuohy bevel	18	1.30	150	1000	–	–	■	■	■	■	10	4898515NR
Contiplex® Tuohy Ultra 360®	Tuohy bevel	18	1.30	40	–	–	400	■	■	■	■		4898704NR-01
Contiplex® Tuohy Ultra 360®	Tuohy bevel	18	1.30	50	–	–	400	■	■	■	■		4898705NR-01
Contiplex® Tuohy Ultra 360®	Tuohy bevel	18	1.30	100	–	–	1000	■	■	■	■		4898710NR-01
Contiplex® Tuohy Ultra 360®	Tuohy bevel	18	1.30	150	–	–	1000	■	■	■	■		4898715NR-01

LITERATURE

1. Kress R. Townley, Jason Lane, Robyn Packer, and Rajnish K. Gupta. Unintentional Infusion of Phenylephrine into the Epidural Space. A&A Case Rep. 2016 Mar 1; 6(5):124-6.

2. https://www.iso.org/standard/50734.html (2017-05-23).

3. For information please visit: https://www.iso.org/standard/50734.html.

4. Vallejo MC, Mandell GL, Sabo DP, Ramanathan S. Postdural puncture headache: a randomized comparison of five spinal needles in obstetric patients. Anesth Analg. 2000 Oct; 91(4):916-20.