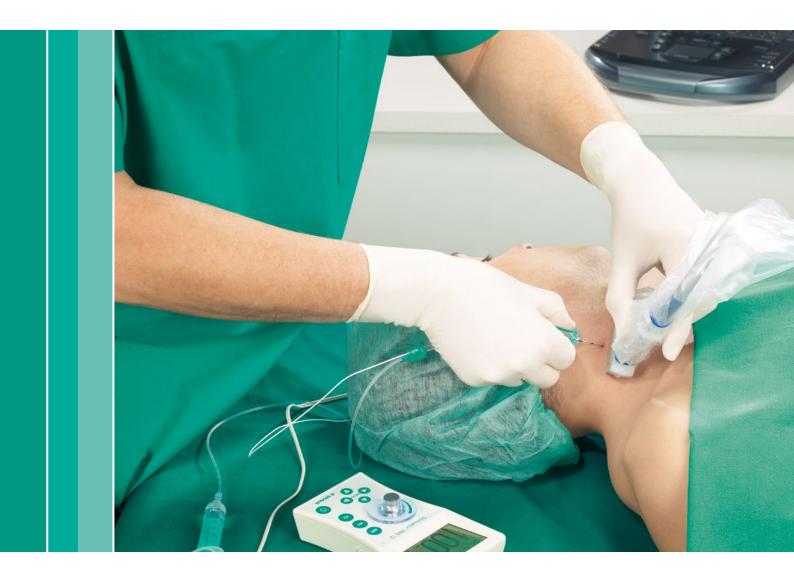
B. Braun Regional Anesthesia: Customers' First Choice for Safe Pain Therapy

Catalogue



New Products inside



B. Braun Regional Anesthesia

Customers' First Choice for Safe Pain Therapy

Patient outcome at the best

During the recent years it became evident that the use of Regional Anesthesia techniques considerably improves patient outcome. Therefore it is our goal to foster the spread of Regional Anesthesia usage and eventually make it the first choice. Beyond providing excellent products it is our commitment to support you with outstanding services:

- In cooperation with our customers we develop innovative products, perfectly adapted to your daily clinical personal needs.
- You will find valuable and up-to-date information material on Regional Anesthesia techniques as well as on our products and their proper application.
- We want you to benefit from our unique offer to share the practical knowledge and experience with your colleagues during educational workshops, lectures and symposia.
- We offer you a well balanced portfolio of innovative and high quality products which are designed to meet your clinical needs.

B. Braun Regional Anesthesia: Customers' First Choice for Safe Pain Therapy







Service and Education



Spinal Anesthesia



Epidural Anesthesia



Combined Spinal & Epidural Anesthesia



Peripheral Nerve Blocks



Continuous Wound Infusion



B. Braun Regional Anesthesia

Sharing Expertise – Our Commitment to Make Clinical Processes Safer, Faster & Easier

Networking the knowledge

Professional performance of Regional Anesthesia does not only require excellent devices but also profound knowledge and skills, i.e. education and training on anatomy, techniques and product application.

All over the world B. Braun runs and supports professional training classes in Regional Anesthesia under the umbrella of Aesculap Academy as well as locally organized lectures, workshops and symposia.

Furthermore, we offer to mediate direct contacts to experts covering all aspects of Regional Anesthesia from simple questions up to individual hands-on training in clinical settings.

Join the various events and learn from international experts and use our MediaService to teach your young care givers.

Participate in our dialogue on knowledge and its value for superior Regional Anesthesia.

Be part of the network

- Profit from education and training tailored to your needs
- Obtain CME credits
- Customized workshops perfectly adapted to your individual needs
- Professional and constantly updated MediaService to improve your internal education

The power of knowledge

Outstanding products and superior solutions for Regional Anesthesia are the essential benefits you can expect from B. Braun. We offer a source of knowledge from the world of practice to the world of practice.

Providing students, physicians and nursing staff with such information B. Braun significantly contributes to a higher level of quality in medical care.

B. Braun Regional Anesthesia: Customers' First Choice for Safe Pain Therapy







App RKU Tutorial

Peripheral Regional Anesthesia, tutorial in the Ulm Rehabilitation Hospital (RKU) http://itunes.apple.com



PNB NYSORA POSTER

- Upper extremity: Humeral canal approach
- Lower extremity: Sciatic nerve block

Product	Code No. (REF)				
Upper Extremity	606 1202				
Lower Extremity	606 1201				



RKU Tutorial DVD

Peripheral Regional Anesthesia, tutorial in the Ulm Rehabilitation Hospital (RKU), 4th expanded edition



Espocan® DVD

CSE - The Clinical Practice of Combined Spinal and Epidural Anesthesia DVD, duration 41 min.





RKU Compact

Peripheral Regional Anesthesia, tutorial in the Ulm Rehabilitation Hospital (RKU), 4th



(Ver. 2) ON-Q® Tunneling Videos

Placement Techniques

 ON-Q® Catheter Placement Videos

Product	Code No. (REF)
ON-Q® DVD	606 7006
ON-Q® DVD	606 7006



Dual Guidance Brochure



Code No. (REF) Product **Dual Guidance** 606 8070 Brochure

... for further information visit www.bbraun.com and www.nerveblocks.net. Please get in contact with your B. Braun office.

B. Braun Spinal Anesthesia

Design Follows Function - Without Compromise!

Spinal Anesthesia is undoubtedly a standard technique in Regional Anesthesia. However, innovation focused on other Regional Anesthesia disciplines so far and as such, Spinal needles remained relatively unchanged.

In order to improve our well known Spinocan® and Pencan® needles we made sure to listen to the market – to you.

With input from our customers around the globe, we defined the key features that are most important for the spinal procedure:

- Quick and easy visible CSF flashback
- Superior tactile feedback for easy identification of tissue structures
- Consistent feel

Your expert feedback resulted in the design of a unique new product... one that will lead the way into the precision in Spinal Anesthesia.

User benefits for safe application

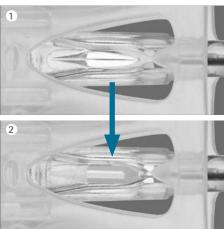
- Ergonomic hub designed for:
 - enhanced needle control
 - improved grip and tactile feedback
- Crystal prism for fast and easy identification of CSF flashback in the needle hub:
 - "Total reflection" Prism shines silver before CSF enters the hub (1)
 - Transparency Prism turns transparent when CSF enters the hub (2)
- Introducer design providing 10mm more usable
 Spinal needle length



Ergonomic hub



Crystal prism



New introducer





Scale 20:1

... needles unchanged, proven quality!





Scale 20:1

Pencan® with Pencil Point bevel

- Safe handling through easy identification of tissue structures, excellent tactile feedback
- Protection against PDPH, paresthesias, vascular puncture and nerve damage thanks to the atraumatic tip design
- Sturdy design, no tip deformation even after bone contact
- Minimal intrathecal penetration depth, avoiding incomplete blocks due to needle-tip design

Spinocan® with Quincke bevel

- Sharp bevel for low puncture force
- Safe control due to reliable sensation of the tactile dura click
- Low rate of PDPH thanks to fine gauge needle design
- Perfect stylet fit, i.e. no tissue coring (risk of epidermoid tumor formation)

Atraucan® with Two-Zone bevel

- Low puncture force
- Minimal puncture trauma
- Greatly reduced risk of PDPH

Atraucan® features a particularly subtle, sensitive bevel geometry allowing atraumatic puncture. First, a small, accurate incision is made with the first sharp zone bevel. Then, the dura mater is dilated by the second non-cutting zone bevel with no further trauma, minimizing the risk of postdural puncture headache (PDPH).

B. Braun Continuous Spinal Anesthesia

Advanced Accurate Technique - Spinocath

Continuous Spinal Anesthesia - A safe method

Which anesthetic technique is most suitable for the specific procedure and patient is one of the central questions confronting anesthesiologists every day. Continuous Spinal Anesthesia (CSA) offers many advantages for both physician and patient.

Compared to Epidural Anesthesia, CSA provides safer preoperative confirmation of catheter position, faster onset of action and more reliable blockade. Moreover, only 1/10 to 1/5 of anesthetic is required, resulting in a much lower risk of systemic toxic reactions.

In contrast to single-dose Spinal Anesthesia, with CSA the anesthetic can be administered during the operation.

Repeat dosing to prolong and control the duration and level of blockade is possible at any time, thereby improving overall anesthesia control. The block also subsides more rapidly.

The risk of cardiovascular side effects and respiratory compromise is significantly reduced.

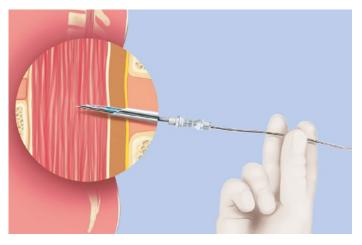


User benefits

- Intelligent over-the-needle design:
 No CSF leakage, therefore minimized risk of PDPH
- Quick positive feedback on catheter position
- Less medication required, i.e. minimal risk of toxic reactions and cardiovascular side effects
- Postoperative pain management
- Short recovery periods

The typical Spinocath grip for safe catheter/needle insertion





Spinocath® - intelligent design

Spinocath® features a unique catheter-over-needle design, the catheter is positioned over the spinal needle. After puncturing the dura mater the needle is withdrawn from the catheter, which simultaneously seals the hole in the dura. In this way, CSF leakage is prevented right at the start of the procedure, reducing the risk of postdural puncture headache (PDPH) to a minimum.

Spinocath® provides the anesthesiologist with accurate feedback. The pronounced dura click, and the visual check of CSF flashback in a second, confirming the intrathecal catheter position.

Control through feedback

Conventional products: CSF leakage – high risk of PDPH

Catheter is smaller than dural opening, considerable CSF leakage after removal of the puncture needle is to be expected



1. Situation upon dural puncture within the intrathecal space



2. Outside the intrathecal space after removal of needle

Spinocath®:

No CSF leakage – minimal risk of PDPH Catheter is larger than spinal needle thus dilates and seals the dural opening



1. Situation upon dural puncture within the intrathecal space



2. Outside the intrathecal space after removal of needle



B. Braun Spinal Anesthesia

Product Specifications

Spinocan®	Size	Length ø (mm)	Needle ø (mm)	Length (inch)	Sales unit/Pcs.	Code No. (REF)
	Quincke needle	s for Spinal Anes	thesia			
	29 G	88 *	0.33	31/2"	25	4501900-13
	27 G	88	0.4	31/2"	25	4503902-01
	26 G	88	0.45	31/2"	25	4502906-01
	25 G	75	0.5	3"	25	4505751-01
	25 G	88	0.5	31/2"	25	4505905-01
	■ 22 G	40	0.7	11/2"	25	4507401-13
	■ 22 G	75	0.7	3"	25	4507754-13
	■ 22 G	88	0.7	31/2"	25	4507908-01
	20 G	75	0.9	3"	25	4509757-13
	20 G	88	0.9	31/2"	25	4509900-01
	19 G	40	1.1	11/2"	25	4501144-13
	19 G	88	1.1	31/2"	25	4501195-13
	18 G	75	1.3	3"	25	4501373-13
	18 G	88	1.3	31/2"	25	4501390-01
	Quincke needle	s long length				
T#7	29 G	120	0.33	43/4"	25	4501918-13
ile e	27G	120	0.4	43/4"	25	4502140-13
	26 G	120	0.45	43/4"	25	4504917-13
	25G	120	0.5	43/4"	25	4505913-13
*with guide needle	■ 22G	120	0.7	43/4"	25	4506090-13

Pencan®	Size	Length ø (mm)	Needle ø (mm)	Length (inch)	Sales unit/Pcs.	Code No. (REF)
	Pencil-poi	nt needles for Spinal A	Anesthesia			
	27 0	88	0.4	31/2"	25	4502027-01
	27 0	88*	0.4	31/2"	25	4502051-13
	27 0	i 103*	0.4	4"	25	4502124-13
	27 0	120	0.4	43/4"	25	4502132-13
	25 0	i 88	0.5	31/2"	25	4502019-01
	25 0	88*	0.5	31/2"	25	4502043-13
	25 0	i 103*	0.5	4"	25	4502116-13
	25 0	i 120	0.5	43/4"	25	4502120-13
	25 0	i 156	0.5	6"	25	333877-05
	■ 22 6	88	0.7	31/2"	25	4502035-13
	Pencil poir	nt needles long length				
	27G	120	0.4	43/4"	25	4502132-13
747	25G	120	0.5	43/4"	25	4502120-13
	25G	156	0.5	6"	25	333877-05
	For Pediat	ric Anesthesia				
	27 0	50	0.4	2"	25	4502175-13
	25 0	3 25	0.5	1"	25	4502167-13
*with spinal introducer needle	25 0	i 50	0.5	2"	25	4502159-13
Spinal Introducer Needles (Round Hub)	Size	Length ø (mm)	Needle ø (mm)	Length (inch)	Sales unit/Pcs.	Code No. (REF)
for Spinocan® and Pencan®:	for spinal	needles 29 G and	27 G			
10mm additional usable needle length	22 G	35	0.7	1³/ ₈ "	25	4500059-13
1111	for spinal	needles 26G and	25 G			
	20 G	35	0.9	13/8"	25	4505000-13

B. Braun Spinal Anesthesia

Product Specifications

Spinocan®		Size	Length ø (mm)	Needle ø (mm)	Length (inch)	Sales unit/Pcs.	Code No. (REF)
	Quinc	ke needles	for Spinal Anest	thesia			
		29 G	88 *	0.33	31/2"	25	4501900
		27 G	88	0.4	31/2"	25	4503902
		26 G	88	0.45	31/2"	25	4502906
		25 G	75	0.5	3"	25	4505751
		25 G	88	0.5	31/2"	25	4505905
		22 G	40	0.7	11/2"	25	4507401
		22 G	75	0.7	3"	25	4507754
		22 G	88	0.7	31/2"	25	4507908
		20 G	75	0.9	3"	25	4509757
		20 G	88	0.9	31/2"	25	4509900
		19 G	40	1.1	11/2"	25	4501144
		19 G	88	1.1	31/2"	25	4501195
		18 G	75	1.3	3"	25	4501373
		18 G	88	1.3	31/2"	25	4501390
	Quinc	ke needles	long length				
1		29G	120	0.33	43/4"	25	4501918
Total Tales		27G	120	0.4	43/4"	25	4502140
		26G	120	0.45	43/4"	25	4504917
		25G	120	0.5	43/4"	25	4505913
*with guide needle	•	22G	120	0.7	43/4"	25	4506090
Atraucan®	Š	Size	Length ø (mm)	Needle ø (mm)	Length (inch)	Sales unit/Pcs.	Code No. (REF)
	Specia	al atraumat	ic needles for S	pinal Anesthesia	, with Atraucan® gu	ide needle	
		26 G	88	0.45	31/2"	25	4504739
	Specia	al atraumat	tic needles for P	ediatric Anesthe	esia: Atraucan® Paed		
		26 G	25	0.45	1"	25	4504771
		26 G	50	0.45	2"	25	4504763

Pencan®	Size	Length ø (mm)	Needle ø (mm)	Length (inch)	Sales unit/Pcs.	Code No. (REF)			
1	Pencil-point needles for Spinal Anesthesia								
	27 G	88	0.4	31/2"	25	4502027			
	27 G	88*	0.4	31/2"	25	4502051			
	27 G	103*	0.4	4"	25	4502124			
	25 G	88	0.5	31/2"	25	4502019			
	25 G	88*	0.5	31/2"	25	4502043			
	25 G	103*	0.5	4"	25	4502116			
	■ 22 G	88	0.7	31/2"	25	4502035			
	Pencil point need	dles long length							
	27G	120	0.4	43/4"	25	4502132			
	25G	156	0.5	6"	25	333877			
707	For Pediatric And	esthesia							
g de	27 G	50	0.4	2"	25	4502175			
	25 G	25	0.5	1"	25	4502167			
*with guide needle	25 G	50	0.5	2"	25	4502159			
Spinal Introducer Needles (Square Hub)	Size	Length ø (mm)	Needle ø (mm)	Length (inch)	Sales unit/Pcs.	Code No. (REF)			
for Spinocan® and Pencan®	for spinal needle	es 29 G and	27 G						
	22 G	35	0.7	13/8"	25	4500059			
	for spinal needle	es 26 G and	25 G						
	20 G	35	0.9	13/8"	25	4505000			
Spinocath [®]	Needle outer ø (mm)	G Cather	ter outer/ ø (mm)	Catheter length (mm/inch)	G Sales unit/ Pcs.	Code No. (REF)			
	Catheter set 24 (G, with needle, P	erifix® LOR syri	inge, Perifix® cathete	r connector				
0.4	0.33	29 0.7	'1/0.41 	720/28"	24 5	4517717			
	-			ringe, Perifix® cathete					
	0.4	27 0.8	85/0.45	720/28"	22 5	4517725			
of Perilad Perila and Perilad Perilad for Perilad Perilad for Perilad Perilad of Perilad Perilad perilad Perilad Perilad perilad Perilad Perilad perilad Perilad Perilad Perilad perilad Perilad Perilad Perilad perilad Perilad Peril					Upda ^s packag	ging!			

B. Braun Epidural Anesthesia

Uncomprimising Quality in Your Experienced Hands

B. Braun epidural needles

Each patient presents a unique anatomical challenge, therefore precision and versatility are equally important in epidural procedures. With B. Braun epidural needles you are ensured accurate construction and reliability.

Tuohy-type needles

- The unique Tuohy curve and bevel design: Excellent feel and differentiation of tissue layers
- Highest quality of bevel grinding: Consistent tactile feedback in each procedure
- Polished inner bevel edge: Minimizes the risk of catheter shearing



Polished inner bevel edge minimizes the risk of catheter shearing

User benefits for safe application

- Unique high precision Tuohy curve and bevel design for excellent tactile feedback and differentiation of tissue
- Superior bending stiffness perfect control of needle advancement
- Full range of adult and pediatric sizes for all procedures



Threading assist guide fits securely into needle hub and assists easy advancement of the catheter



Safe catheter insertion using the threading assist guide





Perifix® catheters are highly appreciated - worldwide

An increasing use of epidural catheters for various applications in anesthesia, analgesia and pain therapy requires specific catheter features and a diversity of performance criteria.

Perifix® epidural catheters are made from a unique plasticizer-free and latex-free formulation of polyamide with superior bio-compatibility.

User benefits for safe application

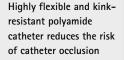
- Perifix® Standard and Soft Tip catheters
 - Excellent shaft stability and kink resistance while still flexible for easy placement and removal
 - Crystal clear for easy visualization of fluids
- Perifix® Soft Tip catheter
 Additional features to the above:
 - Flexible and atraumatic soft tip design
 - Reduced risk of complications
- Perifix® ONE
 - High success rates and fewer complications, easy and safe to place
 - Complete blocks through perfect spread
 - Increased safety, no confusion with other infusion lines

Perifix® – The most comprehensive range of epidural catheters

Easy catheter insertion requires a relatively stiff catheter shaft to provide adequate thrust: Perifix® Standard.

However, a soft catheter is more difficult to thread and remove. The ideal epidural catheter is the combination of a stiff but flexible catheter shaft combined with a very soft atraumatic tip: Perifix® Soft Tip.

Now ideal stiffness for catheter insertion, desired softness for placement inside the body are combined with a novel tip configuration, and 3 pairs of laser drilled micro-holes in ONE yellow catheter: Perifix® ONE.





Perifix® ONE Paed and Perifix® ONE (1), Perifix® Standard with closed tip and 3 lateral eyes (2), Highly flexible tip and standard shaft with 3 lateral openings: Perifix® Soft Tip (3)

Scale 20:1

B. Braun Epidural Anesthesia

The Innovation Line - Perifix®

Loss-of-Resistance (LOR) syringe

Clear identification of the epidural space does not only require skill and experience on the part of the anesthesiologists, but also a high precision low-friction Loss-of-Resistance device. The Perifix® LOR syringe is suitable for both, air and saline technique and all Perifix® LOR syringes are latex-free. The performance of the Loss-of-Resistance technique requires a good match between the Tuohy epidural needle and the LOR syringe.

User benefits

- Easy-glide plunger with excellent glide characteristics
- Parabolic graduation markings prevent confusion with conventional syringes
- Latex-free

Perifix® filter with PinPad

In epidural anesthesia, filters provide an additional degree of safety and control to prevent bacterial infections. Minimal dead space enables accurate dosing. A high pressure resistance up to 7 bar enhances safety during manual injection. Together with our ideal fixation aid – the Perifix® PinPad – substantial time savings are possible. The self-adhesive, latex-free and hypoallergenic foam pad can be attached quickly to the skin and makes patient hygiene easy and more comfortable.

- Perifix® filter with PinPad
 - Improved patient comfort and hygiene
 - Flexible fixation no time wasted
- Perifix® connector
 - Safe catheter fixation
 - Easy to use ergonomic design
 - Clear feedback of action "click and ready"





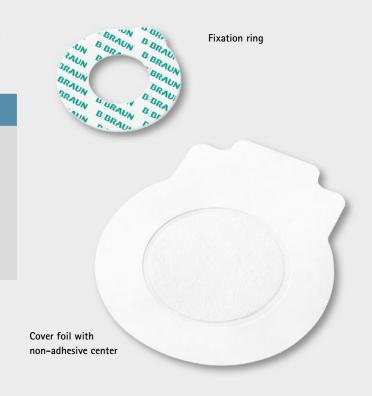




Perifix® Catheter Fixation

The Perifix® Catheter Fixation combines easy handling with enhanced catheter safety. Secondary catheter migration can be easily avoided. The examination of the puncture site is possible without the risk of re-positioning the catheter during the indwelling time. The flat design ensures high patient comfort.

- Fixation ring:
 - offers a secure and easy fixation to prevent catheter migration
- Cover foil with non-adhesive center:
 - provides comfortable protection of puncture site
 - can easily be exchanged without risk of catheter displacement



Easy examination of the puncture site due to the features of the cover foil



Flat design ensures high patient comfort



B. Braun Epidural Anesthesia

Advanced Equipment for Your Little Patients

The most delicate procedures require the most advanced equipment

Regional Anesthesia in children has received worldwide acceptance in the past decade and now plays a major role in stress-and pain control.

In children regional techniques are usually combined with light general anesthesia.

Regional blocks provide excellent peri- and postoperative pain relief which is an advantage for all children undergoing surgery. Regional anesthetic techniques can be used successfully and applied widely in pediatrics; however, specially designed and safe equipment is mandatory where children are concerned. In close co-operation with renowned experts in pediatric Regional Anesthesia, B. Braun has developed a comprehensive practice-related product range which meets the up-to-date requirements in the field of epidural, caudal as well as plexus and Spinal Anesthesia ranging from single shot needles to sets for continuous catheterization.

- Complete product range suitable for each indication
- Suitable sizes for newborns, infants and schoolchildren
- Perfect stylet fit avoids coring effects







Perican® Paed - Tuohy pediatric epidural needles

Three different needle sizes (1.3mm/18 G, 0.9mm/20 G, 0.7mm/22G)

- For continuous catheter placement and single shot technique
- Special length of 50 mm with 5 mm depth markings:
 Safe and accurate epidural puncture
- Precisely fitting stylets:
 Reduces the risk of tissue coring and potential epidermoid tumor development



Three different needle sizes (0.9mm/20 G, 0.7mm/22 G, 0.5mm/25 G)

- Special lengths of 50 mm, 35 mm, and 30 mm with 5 mm depth markings: Safe and accurate caudal puncture
- Precisely fitting stylets:
 Reduces the risk of tissue coring and potential epidermoid tumor development

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 practice-related distance markings for pediatric use
- For safe catheter insertion and position control







B. Braun Epidural Anesthesia

The ProSet Principle

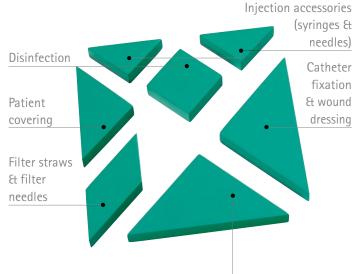
ProSet – the intelligent concept for optimizing your processesSafety only exists when all components in a process chain are optimally aligned with one another. The intelligent ProSet solution combines clinical requirements with your needs.

Tangram, the ancient Chinese puzzle consisting of seven pieces, is a synonym for the ProSet system solution. The individual alignment of Tangram pieces allows for a variety of combination options to form different mosaics.

Similar to Tangram, we offer a range of selected components that can be used to fulfill your needs and medical requirements. ProSet's modular system helps to define standards and therefore increases the quality and safety of your work.

ProSet – a variety of options to optimize your processes.

- Everything needed is assembled in one kit, no mix-ups and less contamination risk
 - Save time and efforts
 - Create your most effective and economic procedure kit



- Spinal Anesthesia
- Epidural Anesthesia
- Combined Spinal & Epidural Anesthesia
- Peripheral Nerve Blocks









Excellent preconditions for treatment success

Choose the configuration that suits you from our successful Perifix® series and increase safety and reliability in your day-to-day work. To meet increasing requirements, there is an extensive range of application-specific sets – that match individual techniques and processes.

The epidural anesthesia module consists of the following components:

- Perican® Tuohy epidural needle
- Perifix® epidural catheter
- Perifix® catheter connector
- Perifix® EF epidural filter 0.2μ
- Perifix® PinPad
- Perifix® LOR syringe

The comprehensive range of epidural needles and catheters meets your individual requirements and has been optimized to suit the needs of clinical practice. The innovative and ergonomic design of the components in your ProSet offers improved hygiene and increased patient comfort.

Our service for your perfect solution

Our ProSet team offers their services to consult and support you in composing the optimal procedure kit tailored to your specific clinical needs. You can choose from a variety of component assemblies which reflect the customers' needs and facilitate the selection of components required.

For further information please contact your local representative.

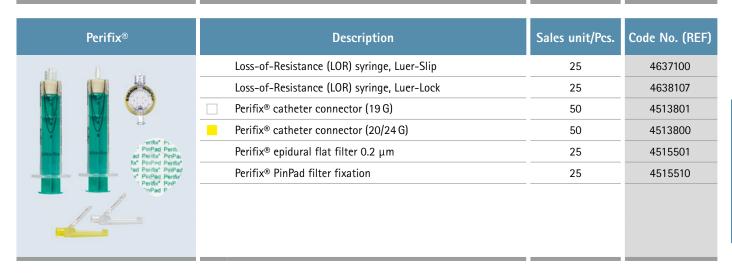


B. Braun Epidural Anesthesia

Product Specifications

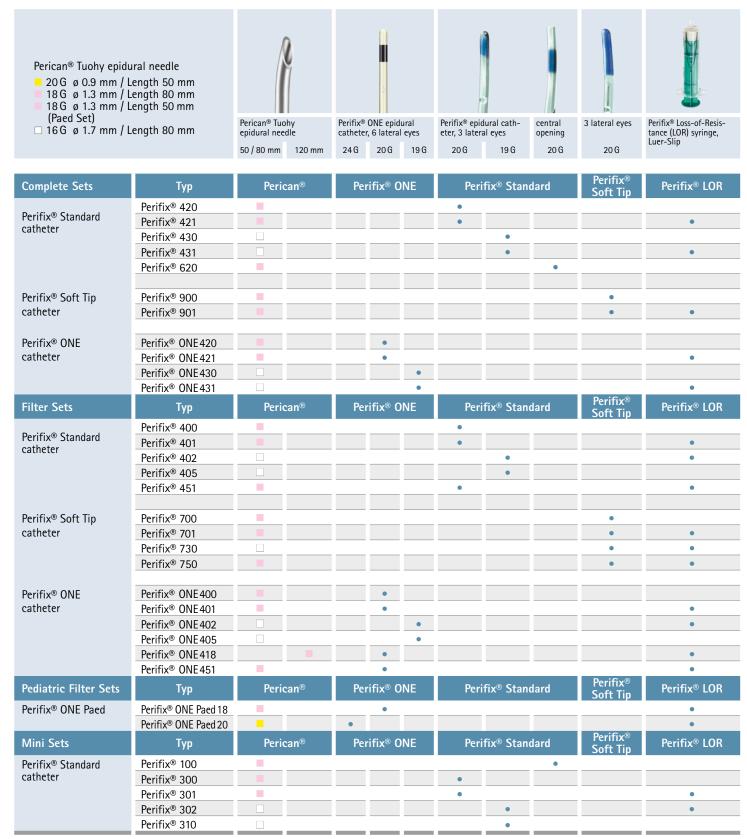
Epidural Needles	Size	Length (mm)	Needl (mm		Length (inch)	Sales unit/Pcs.	Code No. (REF)
	Perican® with	Tuohy bevel					
	18 G	80	1.3		31/4"	25	4512383
	18 G	120	1.3		43/4"	25	4512453
	18 G	150	1.3		6"	25	4512200
	17 G	80	1.5		31/4"	25	4512588
	16 G	80	1.7		31/4"	25	4512782
	Epican® with	45° Crawford beve	I				
	18 G	90	1.3		31/2"	25	4513908
Pediatric Needles	Size	Length (mm)	Needle ø (mm)	Leng (incl	th n) Wings	Sales unit/Pcs.	Code No. (REF)
	Perican® Paed	with Tuohy bevel				_	
	■ 22 G	50	0.73	2"		25	4502078
	20 G	50	0.9	2"	•	25	4502094
	18 G	50	1.3	2"	•	25	4502302
	Epican® Paed	for caudal anesthe	sia			_	
	25 G	30	0.53	11/8	···	25	4502400
	22 G	35	0.73	19/8		25	4502418
	20 G	50	0.9	2"		25	4502426
Epidural Catheter with Catheter Connector	Catheter @ Length	outer/inner/ (mm) (G)	Suit	able fo	r Perican®	Sales unit/Pcs.	Code No. (REF)
Perifix® Standard catheter	Catheter with	3 lateral eyes					
		/ 1000 (20 G)		18 G 1.3 mm		25	4513150
	1.05 / 0.60	/ 1000 (19 G)		16G 1	.7 mm	25	4513258
	Catheter with	central opening					
	0.85 / 0.45	/ 1000 (20 G)		18 G 1	.3 mm	25	4513177
Perifix® Soft Tip catheter	Catheter with	· · · · · · · · · · · · · · · · · · ·					
	0.85 / 0.45	/ 1000 (20 G)		18G 1	.3 mm	25	4515048
Perifix® ONE catheter	Catheter with	<u>'</u>					
— e — — —		/ 1000 (20 G)		18 G 1		25	4513150C
	1.05 / 0.60	/ 1000 (19 G)		16G 1	.7 mm	25	4513258C

Perifix® Catheter Fixation	Description	Sales unit/Pcs.	Code No. (REF)
	Perifix® Catheter Fixation	25	4511200
On all and all all and all all and all all all all all all all and all all all all all all all all all al	Perifix® Catheter Fixation Cover (only)	25	4511201



B. Braun Epidural Anesthesia

Product Specifications





Omnifix® three part syringe, 3 ml, Luer-Lock



Omnifix® three part syringes,3 ml, 20 ml, Luer-Lock, 3 hypodermic needles*



Omnifix® three part syringes,3 ml, 10 ml, 20 ml, Luer-Lock, 3 hypodermic needles*



Perifix® epidural filter 0.2 µm pressure resistant up to 7 bar



Perifix® PinPad filter fixation



Perifix® catheter connector

* Sterican® needles

25G Length 16 mm, ø 0.5 mm 21G Length 40 mm, ø 0.8 mm 18G Length 40 mm, ø 1.2 mm

Omnifix®	Omnifix®/ Sterican®	Omnifix®/ Sterican®	Perifix® Filter	Perifix® Pin- Pad	Perifix® catheter connector	Sales unit/ Pcs.	Code No. (REF)
		•	•	•	•	10	4514203
	•		•	•	•	10	4514211
		•	•	•	•	10	4514300
	•		•	•	•	10	4514319
		•	•	•	•	10	4516206
		•	•	•	•	10	4510291
	•		•	•	•	10	4510305
		•	•	•	•	10	4514203C
	•		•	•	•	10	4514211C
		•	•	•	•	10	4514300C
	•		•	•	•	10	4514319C
Omnifix®	Omnifix®/ Sterican®	Omnifix®/ Sterican®	Perifix® Filter	Perifix® Pin- Pad	Perifix® catheter connector	Sales unit/ Pcs.	Code No. (REF)
			•		•	20	4514009
			•		•	20	4514017
			•		•	20	4514025
			•		•	20	4514050
			•	•	•	20	4514513
			•	•	•	20	4510216
			•		•	20	4510097
			•	•	•	20	4517309
			•	•	•	20	4517504
			•		•	20	4514009C
			•		•	20	4514017C
			•	•	•	20	4514025C
			•	•	•	20	4514050C
			•	•	•	10	4514183C
			•	•	•	20	4514513C
Omnifix®	Omnifix®/ Sterican®	Omnifix®/ Sterican®	Perifix® Filter	Perifix® Pin- Pad	Perifix® catheter connector	Sales unit/ Pcs.	Code No. (REF)
•			•	•	•	10	4512006C
•			•	•	•	10	4512014C
Omnifix®	Omnifix®/ Sterican®	Omnifix®/ Sterican®	Perifix® Filter	Perifix® Pin- Pad	Perifix® catheter connector	Sales unit/ Pcs.	Code No. (REF)
					•	20	4511000
					•	20	4513002
					•	20	4513010
					•	20	4513029
					•	20	4513100

B. Braun Combined Spinal & Epidural Anesthesia

The Perfect Team - Espocan®

System for Combined Spinal-Epidural Anesthesia

Combined Spinal-Epidural Anesthesia (CSE) combines the advantages of Spinal and Epidural Anesthesia, the two major and well-established Regional Anesthesia techniques, which are used extensively in surgery and pain relief.

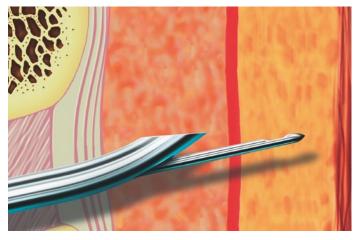
The conventional single interspace needle-through-needle approach was further improved by the development of a special Tuohy needle with an aperture (a back-eye) in the curved tip and a spinal needle with a plastic centering sleeve. This is the core of the perfect team of highest quality and well proven devices including Perifix® LOR syringe, epidural catheter, catheter connector as well as the Perifix® filter with PinPad.

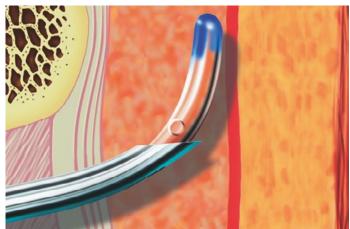
The perfect team you can always rely on.

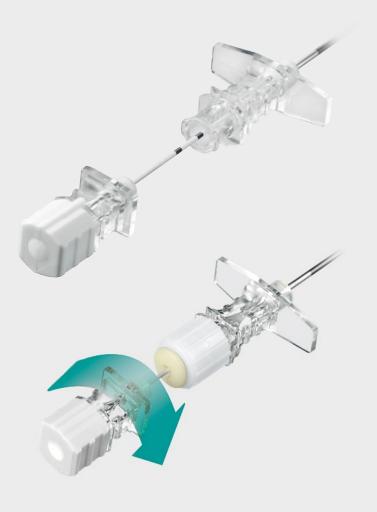
User benefits for safe application

- Perfectly matching components for a safe procedure
 - Back-eye in Tuohy needle for safe insertion of spinal needle
 - Docking system for safe fixation of spinal needle
 - Sleeved spinal needle for smooth exit through the Tuohy needle back-eye and optimal tactile feedback









Markings on spinal needle for Espocan®

For more safety the spinal needles in each Espocan® set have special markings to indicate the moment when the spinal needle tip passes the back-eye. The markings refer to the use either with or without docking system.

The docking system

- Ensures safe and easy fixation of the spinal needle inside the Tuohy needle after successful dural puncture
- Allows rotation of the spinal needle even in the fixed position
- Avoids the difficult and uncomfortable finger grip to steady the spinal needle in position



The ideal protrusion of the spinal needle is:

- 15 mm for the Pencil Point needle to compensate for tenting effect
- 13 mm for the "Quincke" type needle

B. Braun Combined Spinal & Epidural Anesthesia

Product Specifications

Espocan® and Perifix® Standard	Size	Length (mm)	Needle ø (mm)	Length (inch)	Sales unit/Pcs.	Code No. (REF)
	With Quincke r	needle: Spinocan®				
	27G	125.5	0.42	5"	10	4556674
	With Pencil poi	nt needle: Pencan®	9			
	27G	127.5	0.42	5"	10	4556666
	 Perican® epidu Perifix® Loss- 	dard catheter, 20 G ural needle ø 1.3 mr of-Resistance (LOF ural flat filter 0.2 μ d	n, 18 G x 3¹/₂" R) syringe, Luer–Sl	lip		

Espocan® and Perifix® Soft Tip and Docking system	Size	Length (mm)	Needle ø (mm)	Length (inch)	Sales unit/Pcs.	Code No. (REF)			
	With Quincke	needle: Spinocan®							
	27G	136.5	0.42	53/8"	10	4556747			
	With Pencil po	int needle: Pencan®	1						
	27G	138.5	0.42	53/8"	10	4556763			
	All sets including:								
	- Perifix® Soft	Tip catheter, 20 G, 3	lateral eyes						
	 Docking syst 	em							
The Tay of	- Perican® epid	ural needle ø 1.3 mm	ı, 18 G x 3¹/₂"						
	- Perifix® Loss-of-Resistance (LOR) syringe, Luer-Slip - Perifix® epidural flat filter 0.2 μm								
	- Perifix® PinP	- Perifix® PinPad - Perifix® catheter connector							
	- Perifix® cath								

B. Braun Peripheral Nerve Blocks

New Innovation for Best Patient Care

New Ultrasound Product Platform

Ultrasound is revolutionizing the way peripheral Regional Anesthesia is being performed today. B. Braun's answer to the emerging customer needs with respect to ultrasound friendly Regional Anesthesia products is the Ultraline platform. The Ultraline intial package includes four products: two single shot cannulas and two continuous nerve block sets. The development of our echogenic portfolio concentrates on precision and patient safety. B. Braun has developed an unique precision laser technology, that allows us to optimize the ultrasound visibility of our needles, without compromising on the worldwide appreciated feel of our first class needles.

More information on www.ultraline-bbraun.com.

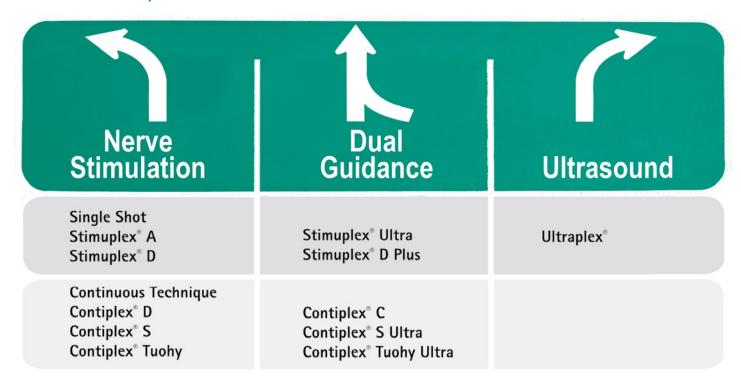
The Next Generation Catheter System

Contiplex® C stands for the second area of innovation for this dynamic medical discipline of peripheral Regional Anesthesia. The patened Multi-talent from B. Braun is the next generation of continuous peripheral nerve block system. Contiplex® C brings the best of both worlds together: single shot similar handling with the pain treatment abilities of a nerve block catheter.

Regardless of the technique and the approach you choose, B. Braun remain committed to offer you the right products and services to deliver the best patient care possible.

More information on www.contiplexc-bbraun.com

Whichever road you take ...



... B. Braun has the right products to get you there.

Contiplex® C



As easy as a single shot with the power of a catheter

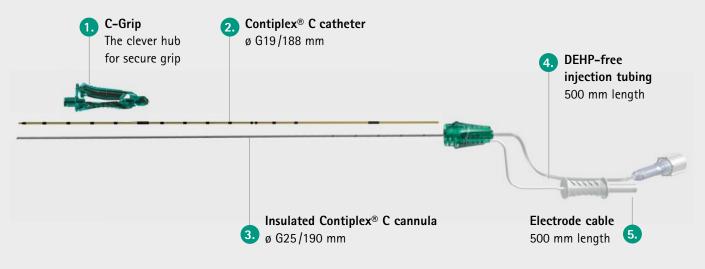
Contiplex® C is a novel and patented catheter placement system that makes continuous nerve blocks better, easier, and safer. The innovative catheter-over-the-needle design helps to overcome several of the limitations associated with peripheral catheters.

Further, the system provides optimized handling for ultrasound guided catheter placement.

User benefits

- Ideal for ultrasound:
 Highly echogenic catheter and ultrasound friendly
 handling that enables one handed catheter placement
- Less complexity: Fewer and more effective handling steps.
- Less leakage: More precise and reliable catheter placement.
- Less trauma¹: More patient comfort with G25 puncture cannula.

¹Steinfeldt T. Nerve injury by needle nerve perforation in regional anesthesia: does size matter? Br J Anaesth 2010. 104:245-53









Ultrasound pictures provided by Dr. S. Bloc, Claude Galien Private Hospital France

B. Braun Peripheral Nerve Blocks

Single-shot Technique

Single shot unipolar needles provide the basic anesthesia for short-term interventions or additional single nerve blocks in continuous techniques.

Stimuplex® A

- With depth markings to identify puncture depth
- Crystal clear coating for excellent gliding through all tissue layers
- Well-proven puncture characteristics of 30° facet bevel

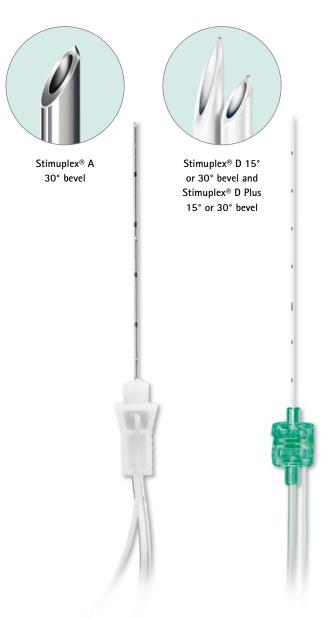
Stimuplex® D

- Atraumatic fully coated stimulation needle
- Pin point electrode for precise nerve stimulation
- Available in 15° or 30° facet bevels according to personal gliding and puncture behavior preferences

Stimuplex® D Plus

- Same features as Stimuplex® D
- Excellent ultrasound visibility through echogenic laser markings

- Excellent puncture and gliding characteristics
- Comprehensive assortment of needle lengths from 35 to 150 mm and G25 to G20 sizes
- Ergonomic needle hub for enhanced tactile feedback







Stimuplex® Ultra and Ultraplex®



Stimuplex® Ultra

- For nerve stimulation and ultrasound
- Laser-crafted ultrasound reflectors with safety code pattern
- Well-approved 30° facet bevel with back cut
- High quality low friction coating
- 50 cm long DEHP-free injection tubing

Ultraplex®

- A non-stimulating ultrasound only needle
- Laser-crafted ultrasound reflectors with safety code pattern
- Well-approved 30° facet bevel with back cut
- High quality low friction coating
- 50 cm long DEHP-free injection tubing

- Echogenic laser markings facilitate excellent needle visualization with minimal acoustic shodowing.¹
- 50 cm long DEHP-free injection tubing.
 Same good puncture and gliding behavior of the cannulas.
- Ultrasound reflectors at multiple sites for easy needle detection.
 - ¹ Reg Anesth Pain Med. 2010 Sep-Oct;35(5):E191.

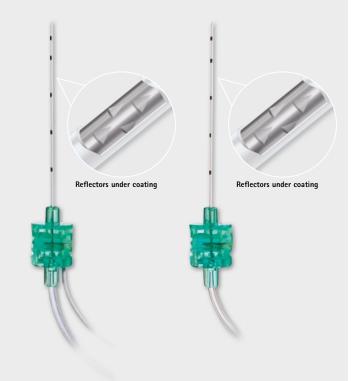




Stimuplex® Ultra 30° bevel



Ultraplex® 30° bevel





B. Braun Peripheral Nerve Blocks

Continuous Technique

Continuous peripheral nerve block catheter sets allow pain relief during and after surgical procedures, providing the best possible patient recovery.

Contiplex® D

- 15° or 30° pin point facet tip
- Braunula catheter placement system

Contiplex® S

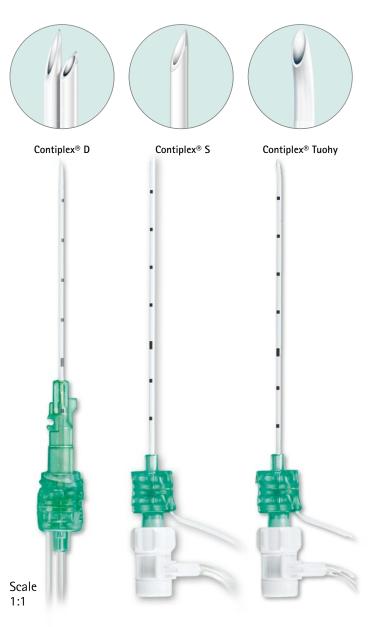
- 20° facet bevel with pin point electrode
- Through-the-needle system

Contiplex® Tuohy

- Fully coated Tuohy needle with pin point tip
- Through-the-needle system

User benefits

- Wide range of catheter sets in cannula sizes G18 and G20 and lengths from 40-150 mm and catheters in 400, 500, and 1000 mm length
- Easy advancement and effective catheter placement with through-the-needle or Braunula Contiplex® system
- Improved ultrasound visibility of new Contiplex® catheter





Contiplex® set components

- Insulated Contiplex® needle with integrated wire
- Catheter with threading assist guide
- Hemostasis Valve/Sideport (only for Contiplex® S/Contiplex® Tuohy)
- Perifix® catheter connector
- Perifix® filter
- Perifix® PinPad
- Omnifix® 5ml syringe
- Catheter label (Nerve blocks)

Contiplex® S Ultra and Contiplex® Tuohy Ultra



Contiplex® S Ultra

- For Nerve stimulation and ultrasound
- Fully coated 20° facet bevel with micro-dot electrode
- Catheter through-the-needle system
- With laser-crafted ultrasound reflectors for improved echogenicity

Contiplex® Tuohy Ultra

- For Nerve stimulation and ultrasound
- Fully coated Tuohy bevel with micro-dot electrode
- Catheter through-the-needle system
- With laser-crafted ultrasound reflectors for improved echogenicity



Contiplex® Sideport adapter

User benefits

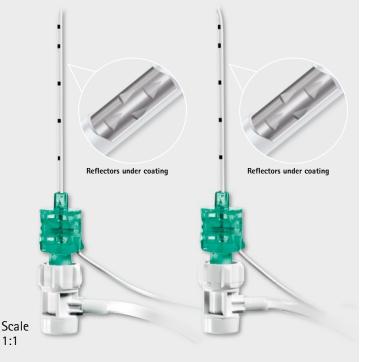
- Laser-reflector enhanced puncture needles for excellent echogenicity
- Improved ultrasound visibility of Contiplex® Ultra catheter
- Sideport adapter for simultaneous injection/aspiration and catheter threading



Contiplex® S Ultra 20° bevel



Contiplex® Tuohy Ultra



Contiplex® Ultra catheter with tapered tip and three pairs of lateral eyes





B. Braun Peripheral Nerve Blocks

Stimuplex® HNS 12 with SENSe

The enlarged full graphic LC-display gives you all necessary information at a glance. High contrast and a wide viewing angle ensure excellent readability.

The following information is permanently displayed:

- Stimulus amplitude in mA (large digits)
- Stimulus duration in ms
- Stimulus frequency in Hz
- Load impedance in kΩ
- Charge delivered (in nC, if activated)

- Now with SENSe technology for safer, easier and more efficient nerve stimulation
- Advanced ergonomic shape and large display
- Digital ratchet dial for precise and tactile current adjustment
- Quick access buttons allow direct switching of key parameter values during procedure
- Alarm screens and acoustic signals inform the user of any relevant deviations



Transcutaneous nerve mapping with Stimuplex® Pen



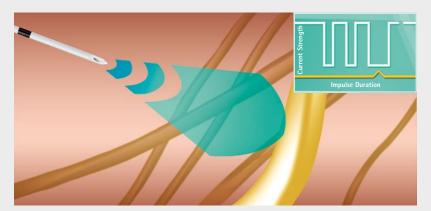


What is SENSe?

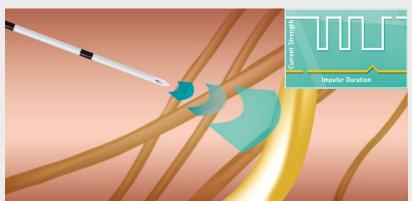
Easier with SENSe

SENSe is a further development on the Stimuplex® HNS 12 offering more patient safety and improved clinical efficiency. In practice, marginal needle movements often lead to loosing the muscle twitch. The SENSe technology (Sequential Electrical Nerve Stimulation) is a sequence of two fixed impulse durations

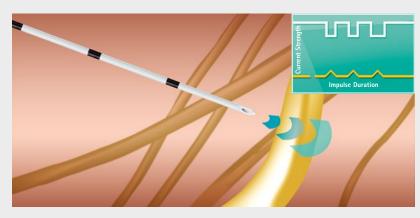
of 0.1 ms along with a third longer impulse duration. This results in getting the first muscle twitch already at a distance from the nerve and requires less adjustments to the amperage control, while maintaining the visual feedback.



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 toward 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 0.3 mA, not one but three muscle twitches are visible as all three impulses stimulate the nerve, thus SENSe allows easier and more reliable nerve localization for better blocks.

Product Specifications

Stimuplex® D	ø (G) and Length (inch)	ø and Length (mm)	Sales unit/Pcs.	Code No. (REF)
	Needles with 15° bevel			
	25 G x 1 ¹ / ₃ "	0.5 x 35 mm	25	4894103N
	25 G x 2 ¹ / ₈ "	0.5 x 55 mm	25	4894111N
	23 G x 1 ¹ / ₂ "	0.6 x 40 mm	25	4894120N
	23 G x 2 ³ / ₄ "	0.6 x 70 mm	25	4894138N
	22 G x 2"	0.7 x 50 mm	25	4894146N
	22 G x 3 ¹ / ₈ "	0.7 x 80 mm	25	4894154N
	22 G x 4 ³ / ₄ "	0.7 x 120 mm	25	4894162N
	20 G x 6"	0.9 x 150 mm	25	4894170N
	Needles with 30° bevel			
	22 G x 1 ¹ / ₂ "	0.7 x 40 mm	25	4894189N
	22 G x 2"	0.7 x 50 mm	25	4894197N
	22 G x 3 ¹ / ₈ "	0.7 x 80 mm	25	4894200N
Stimuplex® D Plus	ø (G) and Length (inch)	ø and Length (mm)	Sales unit/Pcs.	Code No. (REF)
	Needles with 15° bevel			
	25 G x 1 ¹ / ₃ "	0.5 x 35 mm	25	4894103U
	22 G x 2"	0.7 x 50 mm	25	4894146U
	22 G x 3 ¹ / ₈ "	0.7 x 80 mm	25	4894154U
	22 G x 4 ³ / ₄ "	0.7 x 120 mm	25	4894162U
	Needles with 30° bevel			
	22 G x 2"	0.7 x 50 mm	25	4894197U
Stimuplex® A	ø (G) and Length (inch)	ø and Length (mm)	Sales unit/Pcs.	Code No. (REF)
	Needles with 30° bevel			
	24 G x 1"	0.55 x 25 mm	25	4894251
	22 G x 1"	0.70 x 25 mm	25	4894539
	22 G x 1 ¹ / ₈ "	0.70 x 35 mm	25	4894367
	22 G x 2"	0.70 x 50 mm	25	4894502
	21 G x 2"	0.80 x 50 mm	25	4894375
	21 G x 4"	0.80 x 100 mm	25	4894260
	20 G x 6"	0.90 x 150 mm	25	4894278
Stimuplex® Ultra	ø (G) and Length (inch)	ø and Length (mm)	Sales unit/Pcs.	Code No. (REF)
	Needles with 30° bevel			
	22 G x 1 ³ / ₈ "	0.70 x 35 mm	25	4894367U
	22 G x 2"	0.70 x 50 mm	25	4894502U
	22 G x 3 ¹ / ₈ "	0.70 x 80 mm	25	4894279U
	22 G x 4"	0.70 x 100 mm	25	4894260U
	20 G x 6"	0.90 x 150 mm	25	4894278U

Ultraplex®	ø (G) and Length (inch)	ø and Length (mm)	Sales unit/Pcs.	Code No. (REF)
	Needles with 30° bevel			
	22 G x 1 ³ / ₈ "	0.70 x 35 mm	25	4894001U
	22 G x 2"	0.70 x 50 mm	25	4894002U
	22 G x 3 ¹ / ₈ "	0.70 x 80 mm	25	4894003U
	20G x 4"	0.90 x 100 mm	25	4894004U
	20 G x 6"	0.90 x 150 mm	25	4894005U
Contiplex® C Sets	Description	Needle (OD x Length)	Sales unit/Pcs.	Code No. (REF)
	Contiplex® Catheter 1.10 x 0.60 >	c 188 mm		
	Extension tubing, 2.4 x 1.0 x 300	mm		
	25 G x 7 ¹ / ₂ ", 15° bevel	0.53 x 190 mm	5	4898115
Contiplex® D	Description	Needle (OD x Length)	Sales unit/Pcs.	Code No. (REF)
	Contiplex® D Needle			
	Contiplex® D, Needle with 15° bevo	el		
	18 G x 2 ¹ / ₈ "	1.3 x 55 mm	25	4894219N
	18 G x 3 ¹ / ₈ "	1.3 x 80 mm	25	4894296N
	18 G x 4 ³ / ₈ "	1.3 x 110 mm	25	4894294N
	Contiplex® D, Needle with 30° bevo	el		
	18 G x 2 ¹ / ₈ "	1.3 x 55 mm	25	4894227N
Contiplex® D Sets	Description	Needle (OD x Length)	Sales unit/Pcs.	Code No. (REF)
	Contiplex® D Sets			
	Contiplex® Catheter 0.41 x 0.71 x	400 mm		
0	with Contiplex® D Needle $20 \mathrm{G} \times 1^{1}/_{3}$ ", 15° bevel	1.1 x 33 mm	10	4892402N
	with Contiplex® D Needle 20 G x 2 ¹ / ₈ ", 15° bevel	1.1 x 55 mm	10	4892410N
	Contiplex® Catheter 0.45 x 0.85 x	Contiplex® Catheter 0.45 x 0.85 x 400 mm		
	with Contiplex® D Needle 18 G x 2 ¹ / ₈ ", 15° bevel	1.3 x 55 mm	10	4894235N
	with Contiplex® D Needle 18 G x 21/8", 30° bevel	1.3 x 55 mm	10	4894243N
	Contiplex® Catheter 0.45 x 0.85 x	(1000 mm		
	with Contiplex® D Needle 18 G x 3", 15° bevel	1.3 x 80 mm	10	4895819N
	with Contiplex® D Needle 18 G x $4^3/_8$ ", 15° bevel	1.3 x 110 mm	10	4894391N

Product Specifications

Contiplex® Tuohy Sets	Description	Needle (OD x Length)	Sales unit/Pcs.	Code No. (REF)		
	Contiplex® Tuohy Sets					
	Contiplex® Catheter 500mm, 18Gx11/2"	1.3 x 40 mm	10	331695N		
	Contiplex® Catheter 500mm, 18Gx2"	1.3 x 50 mm	10	331691N		
	Contiplex® Catheter 500mm, 18Gx4"	1.3 x 100 mm	10	331693N		
	Contiplex® Catheter 1000mm, 18Gx6"	1.3 x 150 mm	10	331694N		
Contiplex® S Sets	Description	Needle (OD x Length)	Sales unit/Pcs.	Code No. (REF)		
	Contiplex® S Sets					
	Contiplex® Catheter 500mm, 20°, 18Gx2"	1.3 x 50 mm	10	4898750		
	Contiplex® Catheter 500mm, 20°, 18Gx4"	1.3 x 100 mm	10	4898752		
	Contiplex® Catheter 1000mm, 20°, 18Gx6		10	4898754		
Contiplex® Tuohy Ultra Sets	Description	Needle (OD x Length)	Sales unit/Pcs.	Code No. (REF)		
	Contiplex® Ultra Catheter 0.45 x 0.85 x 400 mm, sideport adapter, connector, filter PinPad, syringe					
	with cannula $18 \text{G} \times 1^1/2^n$, 400 mm, isolated Tuohy type	1.3 x 40 mm	10	331695NC		
	with cannula 18 G x 2", 400 mm, isolated Tuohy type	10	331691NC			
	Contiplex® Ultra Catheter 0.45 x 0.85 x 1000 mm, sideport adapter, connector, filter PinPad, syringe					
	with cannula 18 G x 4", isolated Tuohy type	1.3 x 100 mm	10	331693NC		
	with cannula 18 G x 6", isolated Tuohy type	1.3 x 150 mm	10	331694NC		
Contiplex® S Ultra Sets	Description	Needle (OD x Length)	Sales unit/Pcs.	Code No. (REF)		
	Contiplex® Ultra Catheter 0.45 x 0.85 x	400 mm, sideport adapter	, connector, filter PinF	ad, syringe		
	18 G x 2", 20° bevel	1.3 x 50 mm	10	4898750NC		
	Contiplex® Ultra Catheter 0.45 x 0.85 x	1000 mm, sideport adapte	er, connector, filter Pin	Pad, syringe		
	18 G x 4", 20° bevel	1.3 x 100 mm	10	4898752NC		
	18 G x 6", 20° bevel	1.3 x 150 mm	10	4898754NC		

Plexufix [®]	Description	ø (G) and Length (inch)	ø and Length (mm)	Sales unit/Pcs.	Code No. (REF)
Needle for immobile needle	Needle with 45° beve	l and extension tube 0.7	5 x 1.85 x 300 mm		
technique according to Winnie	24 G x 1" 0.55 x 25 mm		50	4891520	
		24 G x 2"	0.55 × 50 mm	50	4891562
	Extension Tube for Plexufix® 0.75 x 1.85 x 230 mm, screwed			50	4891511

Nerve Stimulators	Description	Sales unit/Pcs.	Code No. (REF)
500	Stimuplex® HNS 12 nerve stimulator for Stimuplex® and Contiplex® needles	1	4892098
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Accessories	Description	Sales unit/Pcs.	Code No. (REF)
for peripheral nerve blocks	Stimuplex® Pen, device for percutaneous nerve mapping	1	4892099
	Electrode cable for Stimuplex® HNS 11/12, length 125 cm	1	4892070
	Electrode cable for Stimuplex® Dig RC, length 150 cm	1	4892917B
	Stimuplex® Remote Control for sterile one-hand operation	1	4892216B
	Knob for sterile handling	1	4892283
	Fingerrings for Stimuplex® Remote Control	1	4892224B
	Suitcase for Stimuplex® HNS 12	1	4892095
	Test resistance for Stimuplex® HNS 12	1	4892096
	Battery cover for Stimuplex® HNS 12	1	4892094

A Great Match for the Continuous Technique: Easypump® C-bloc RA™

Post-OP and ambulatory pain control

Continuous peripheral nerve blocks are known for their superb post-op pain control. The light weight portable design, combined with excellent pain relieve significantly increases patient satisfaction and compliance with necessary physical therapy.

Easypump ® C-bloc RA™ is cost effective as it works without any complicated electronics. There is no need for complex staff training, no hassle with batteries or maintenance and safety checks.

Separate color-coded filling port:

- Safe and easy filling
- · Color coding to help avoid dosage errors

Smart construction:

- Increased patient comfort
- Strong and reliable
- No complicated electronics
- Completely silent

User benefits

- Convenient and strong design
- Reliable and silent infusion without complicated electronics
- The closed system reduces infection risk and gives tamper resistance & evidence
- Flexibly adaptable system with the Select-A-Flow™ and OnDemand™ units
- Cost-effective disposable system without consequential costs

Closed system:

 Reduces infection risk and ensures tamper resistance









Select-A-Flow (SAF): Always the right basal rate at hand

The basal rate can be adjusted in 7 discrete steps according to the needs of your patients. "Peaks and troughs" are avoided and unscheduled, pain induced contact with the "on-call" physician is minimized. Safety is an important issue: The detachable key and lockable cover make the Select-A-Flow™ unit tamper evident. The unit comes completely integrated into the closed system of the pump and is not removable this minimizes the infection risk.

Select-A-Flow™ unit:

- 7 discrete steps for an ideal basal rate adjustment
- Integrated into the closed Easypump® C-bloc RA™ system



OnDemand™ Bolus Delivery: Safe and simple bolus administration

The OnDemand™ unit allows your patient to administer a 5 ml bolus once per hour with a subsequent 60 minute lockout period.

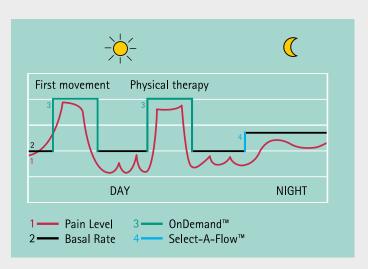
Automatic Bolus Delivery (ABD) makes bolus injection simple and convenient. Whereas with other PCA devices the patient must administer the bolus volume manually, the OnDemand™ unit delivers the bolus automatically with the push of a button without any residual volume. The refill indicator informs your patient when the next bolus can be administered. Just like Select-A-Flow[™], the OnDemand[™] unit comes completely integrated into the closed Easypump® C-bloc RA™ system – this provides tamper resistance and reduces infection risk.

Automatic Bolus Delivery:

 Simple bolus injection without residual volume

Refill indicator:

Indicates to the patient when the next bolus can be administered



Integrated safety:

 The OnDemand™ unit comes integrated as a part of the closed Easypump® C-bloc RA™ system.



Product Specifications

Easypump® C-bloc RA™	Description	Color Code/ FlowRate	Vol.	Sales unit/Pcs.	Code No. (REF)
*	Easypump® C-bloc RA™ Fixed Flow Rate	O 5 ml/h	400 ml	10	4440003
	Easypump® C-bloc RA™ Fixed Flow Rate	○ 8 ml/h	400 ml	10	4440004
7 1	Easypump® C-bloc RA™ Fixed Flow Rate	0 10 ml/h	400 ml	10	4440005
<u> </u>	Easypump® C-bloc RA™ Fixed Flow Rate				
• `	5 ml/h + OnDemand™ (5 ml Bolus,	= max. 10 ml/h	400 ml	10	4440006
	60 minutes lock-out period)				
in the second					
+ 🔐	Easypump® C-bloc RA™ + Select-A-Flow™	2 ml/h – 14 ml/h	400 ml	10	4440007
A A	Easypump® C-bloc RA™ + Select-A-Flow™				
+ 1	+ OnDemand™ (5 ml Bolus, 30 minutes	2 ml/h – 14 ml/h	400 ml	5	4440008
	lock-out period)				
	Easypump® C-bloc RA™ Carry Pouch			1	4434455

Color-coded rings on the filling port indicate the following flow rates: ○5 ml/h ○ 8 ml/h ○ 10 ml/h

B. Braun Continuous Wound Infusion

Less Pain after Surgery & Faster Recovery - ON-Q® PainBuster®

With ON-Q® PainBuster® you are redefining recovery Continuous wound infusion is a technique that delivers local anesthetic through a multi-holed catheter directly into the surgical site for post operative pain relief.

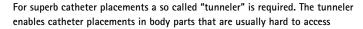
With ON-Q® and continuous wound infusion, you may expect:

- Quicker return to normal, including ambulation, body functions, and full range of motion¹
- Decreased complications associated with narcotics such as respiratory depression, nausea, vomiting, dizziness and constipation¹
- Clinically proven success used in thousands of surgeries¹
- Over 90 % patient satisfaction¹
- 1 to 3 fewer days in the ICU or hospital¹
- Up to 30% reduction in treatment costs²

User benefits

- Reduced hospital stays
- Significantly less narcotics
- Simplicity no electronics, no maintenance
- Reduction in treatment costs







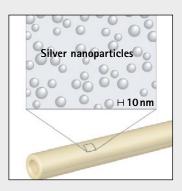


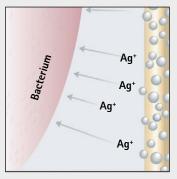
Soaker Catheter™ features and benefits:

Easy to use introducer needle with peel-away sheath

• Unique catheter design with multiple lateral holes along the

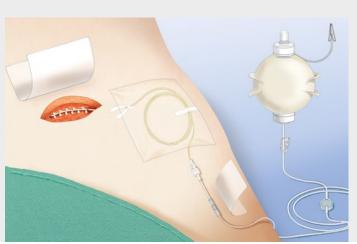
- Length markings for more accurate positioning
- Dual catheter systems available
- Catheter is treated with a specially formulated antimicrobial silver agent that may destroy or inhibit the growth of micro organisms on the inner and outer surface of the catheter (only SilverSoaker™)





Bacterium attacked by silver ions (Ag+s) released by SilvaGard®





- 1 Liu SS, Richman JM, Thirlby RC, Wu CL. Efficacy of Continuous Wound Catheters Delivering Local Anaesthetic for Postoperative Analgesia: A Quantitative and Qualitative Systematic Review of Randomized Controlled Trials. JACS 2006; 203(6): 914-932.
- 2 Zimberg S, Reducing Pain and Costs with Innovative Postoperative Pain Management, Managed Care Quarterly 2003; 11(1): 34-36 .

B. Braun Continuous Wound Infusion

Product Specifications

	PainBuster® PainBuster									
Delivery Time Days³	Fill Volume (ml)	Flow Rate (ml/h)	Catheter 1 Soaker Catheter™	in (2.5 cm) Silver Soaker™	Catheter 2.5 Soaker Catheter™	in (6.5 cm) Silver Soaker™	Catheter 5 i Soaker Catheter™	n (12.5 cm) Silver Soaker™	Catheter 10 Soaker Catheter™	in (25 cm) Silver Soaker™
4	100	1	5001790	-	-	-	_	-	_	-
2	100	2	5001489	-	5001258	5001656	5001473	-		-
5	270	2	_	-	5001259	5001793	5001474	-		-
2 1/4	270	5	5001490	-	5001260	5001657	5001302	5001659		-
3	270	4 (2x2)	_	-	5001275	5001658	5001475	5001660	5001679	5001796
3 1/2	400	5	_	-	5001825	-	5001456	5001794	5001680	5001797
2	400	10		-	5001823	-	5001457	-		-
4	400	4 (2x2)		-	5001455	-	5001458	5001795	_	-

³ Delivery time is approximate and based on nominal specifications. See Instructions For Use for complete product information.

All cases include 5 PainBuster® kits and each kit includes:

- Infusion pump
- 60 ml filling syringe
- E-clip or carry case
- Soaker Catheter(s)™
- 17 G T-peel introducer(s) and sheath(s)
- 5 ml priming syringe
- Medication label
- Peel-Away labels
- Patient guidelines
- Instructions for use
- Filling extension set 400 ml models only

Expansion Kits ⁵	Code No. (REF)				
ON-Q® Soaker Catheter™ 2.5 cm (1")	5001731				
ON-Q® Soaker Catheter™ 6.5 cm (2.5″)	5001729				
ON-Q® Soaker Catheter™ 12.5 cm (5")	5001730				
ON-Q® Soaker Catheter™ 25 cm (10″)	5001732				
ON-Q® SilverSoaker™ 2.5 cm (1")	5001710				
ON-Q® SilverSoaker™ 6.5 cm (2.5″)	5001708				
ON-Q® SilverSoaker™ 12.5 cm (5")	5001709				
ON-Q® SilverSoaker™ 19.1 cm (7.5″)	5001818				
ON-Q® SilverSoaker™ 25 cm (10″)	5001711				
[Contactor Contactor (a) Toronto and (a) For animina amina Toronto and	Contactor Continuents Annie II and anadis (a) For mining a miner Tourism III and Stari Starica III				

⁵Contents: Soaker catheter(s), T-peel needle(s), 5cc priming syringe, Tegaderm™ and Steri-Strips"

PainBuster® Accessories

PainBuster® Accessories	Code No. (REF)
Soaker introducer needle 3.25" (8.3 cm)	5001402
Soaker introducer needle 6" (15.2 cm)	5001430
Soaker introducer needle 8" (20.3 cm)	5001429
Filling extension set	5001439

Disposable Tunnelers ⁶	Code No. (REF)
Disposable tunneler 3.25" (8.25 cm), 17G	5001685
Disposable tunneler 5" (12.5 cm), 17G	5001687
Disposable tunneler 8" (20.3 cm), 11G	5001763
Disposable tunneler 8" (20.3 cm), 17G	5001689
Disposable tunneler 12" (30.5 cm), 11G	5001765
Disposable tunneler 12" (30.5 cm), 16G	5001761

⁶Contents: Tunneler and two disposable sheaths

