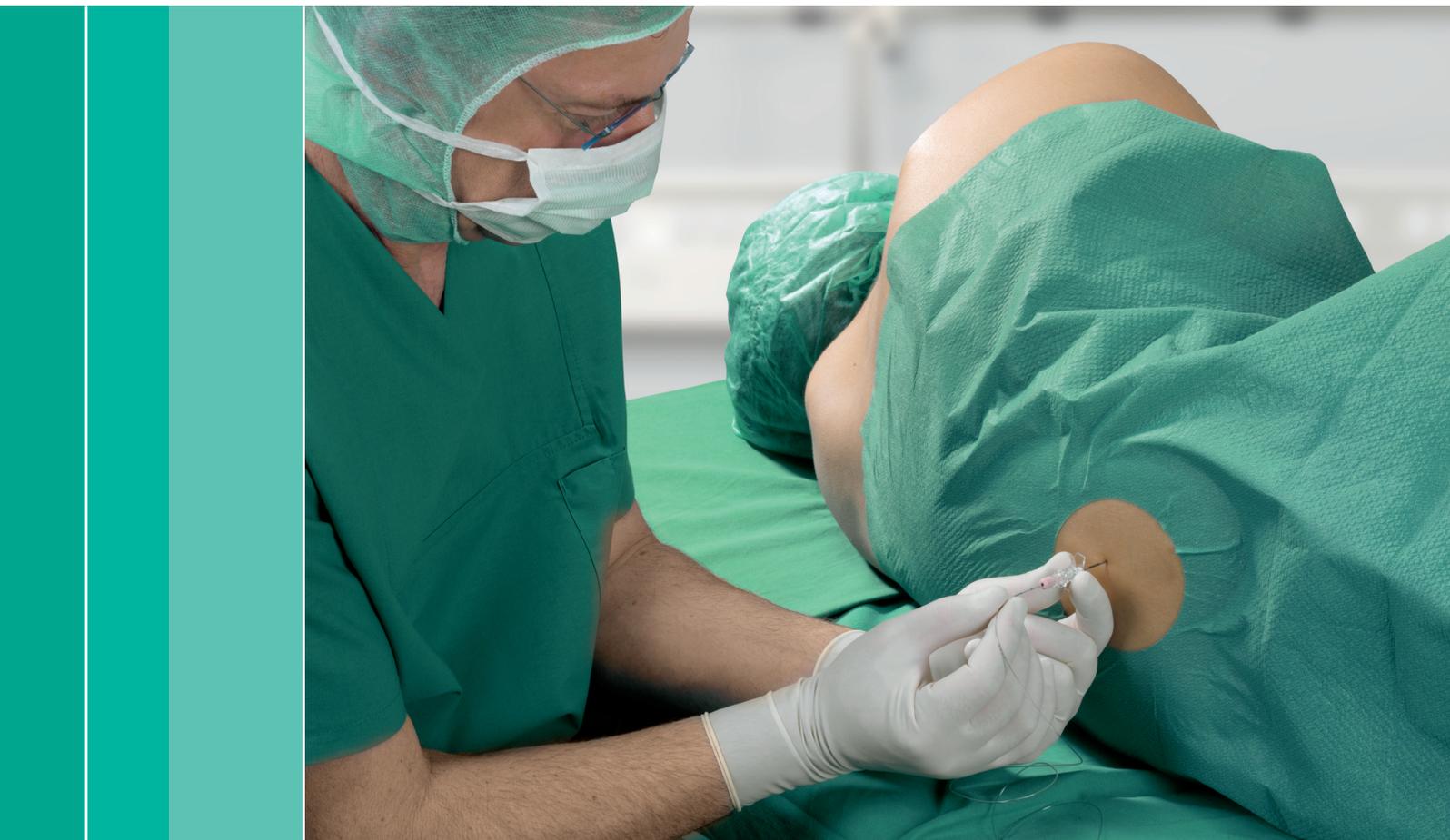


B. Braun Epidural Anesthesia



B. Braun Epidural Regional Anesthesia

B. Braun Epidural Anesthesia

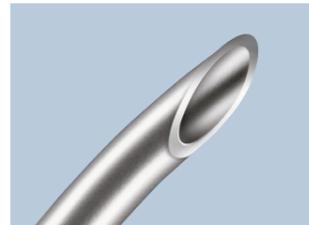
Only Highest Quality in Your Experienced Hands

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



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



Safe catheter insertion using the threading assist guide



User benefits

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

Perifix® catheters are highly appreciated – world wide

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

- 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.



Highly flexible and kink-resistant polyamide catheter reduces the risk of catheter occlusion



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 requires not only 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 perfect match between the Tuohy epidural needle and the LOR syringe.

Perifix® filter with PinPad

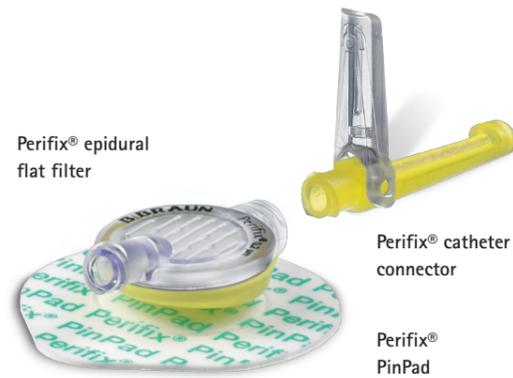
In epidural anesthesia, filters provide an additional degree of safety and control to prevent bacterial infections. Minimal dead space enables accurate dosing. A high pressure resistance up to 7 bar enhances safety during manual injection. Together with our ideal fixation aid – the Perifix® PinPad – 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.

User benefits Perifix® LOR

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

User benefits Perifix® filter

- 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.

Features and user benefits

- 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



Cover foil with non-adhesive center

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 world wide acceptance in the past decade and now plays a major role in stress- and pain control.

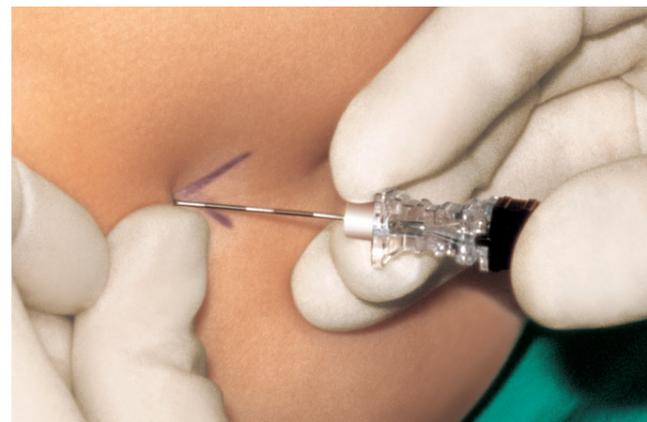
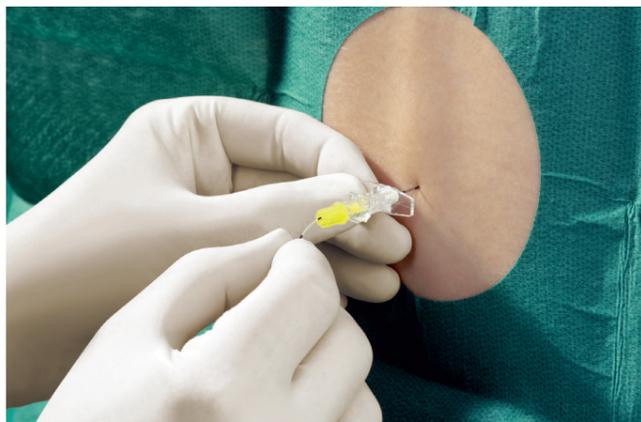
In children regional techniques are usually combined with light general anesthesia.

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.

User benefits

- 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



Epican® Paed – Caudal pediatric needles

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

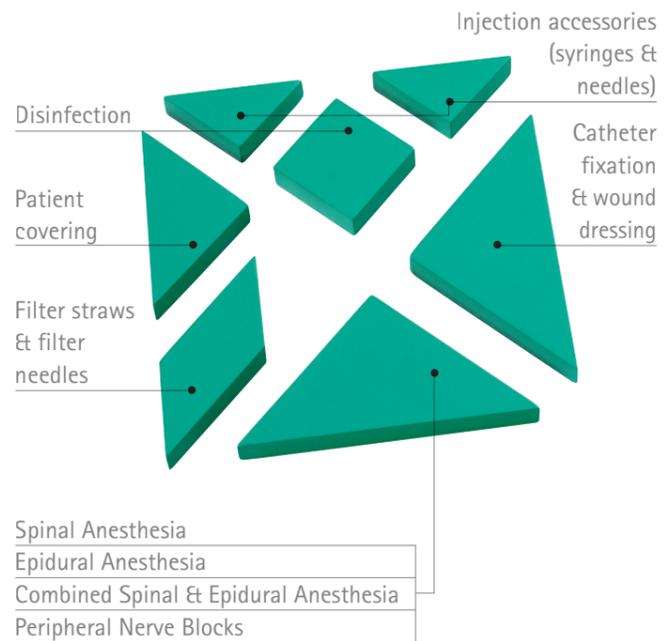
The ProSet principle

ProSet – the intelligent concept for optimizing your processes
 Safety 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.



User benefits

- 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

Your complete
ProSet



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)	Needle ø (mm)	Length (inch)	Sales unit/Pcs.	Code No. (REF)
	Perican® with Tuohy bevel					
	18 G	80	1.3	3 1/4"	25	4512383
	18 G	120	1.3	4 3/4"	25	4512453
	18 G	150	1.3	6"	25	4512200
	17 G	80	1.5	3 1/4"	25	4512588
	16 G	80	1.7	3 1/4"	25	4512782
Epican® with 45° Crawford bevel						
18 G	90	1.3	3 1/2"	25	4513908	

Pediatric Needles	Size	Length (mm)	Needle ø (mm)	Length (inch)	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 anesthesia						
	25 G	30	0.53	1 1/8"		25	4502400
22 G	35	0.73	1 9/8"		25	4502418	
20 G	50	0.9	2"		25	4502426	

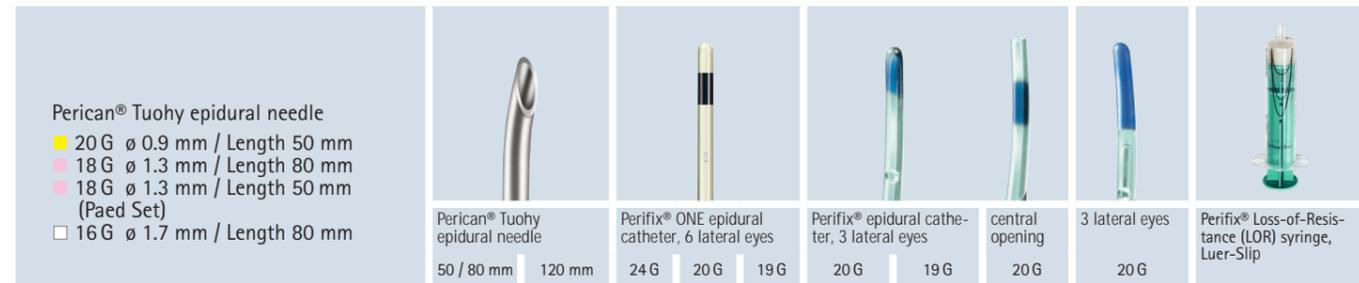
Epidural Catheter with Catheter Connector	Catheter ø outer/inner/Length (mm) (G)	Suitable for Perican®	Sales unit/Pcs.	Code No. (REF)
Perifix® Standard catheter 	Catheter with 3 lateral eyes			
	0.85 / 0.45 / 1000 (20 G)	18 G 1.3 mm	25	4513150
	1.05 / 0.60 / 1000 (19 G)	16 G 1.7 mm	25	4513258
	Catheter with central opening			
	0.85 / 0.45 / 1000 (20 G)	18 G 1.3 mm	25	4513177
Perifix® Soft Tip catheter 	Catheter with 3 lateral eyes			
	0.85 / 0.45 / 1000 (20 G)	18 G 1.3 mm	25	4515048
Perifix® ONE catheter 	Catheter with 6 lateral eyes			
	0.85 / 0.45 / 1000 (20 G)	18 G 1.3 mm	25	4513150C
	1.05 / 0.60 / 1000 (19 G)	16 G 1.7 mm	25	4513258C

Catheter Fixation	Description	Sales unit/Pcs.	Code No. (REF)
	Perifix® Catheter Fixation	25	4511200
	Perifix® Catheter Fixation Cover	25	4511201

Perifix®	Description	Sales unit/Pcs.	Code No. (REF)
	Loss-of-Resistance (LOR) syringe, Luer-Slip	25	4637100
	Loss-of-Resistance (LOR) syringe, Luer-Lock	25	4638107
	<input type="checkbox"/> Perifix® catheter connector (19 G)	50	4513801
	<input checked="" type="checkbox"/> Perifix® catheter connector (20/24 G)	50	4513800
	Perifix® epidural flat filter 0.2 µm	25	4515501
	Perifix® PinPad filter fixation	25	4515510

B. Braun Epidural Anesthesia

Product Specifications



Complete Sets	Typ	Perican®	Perifix® ONE	Perifix® Standard	Perifix® Soft Tip	Perifix® LOR
Perifix® Standard catheter	Perifix® 420	■		•		
	Perifix® 421	■		•		•
	Perifix® 430	□		•		
	Perifix® 431	□		•		•
	Perifix® 620	■			•	
Perifix® Soft Tip catheter	Perifix® 900	■			•	
	Perifix® 901	■			•	•
Perifix® ONE catheter	Perifix® ONE 420	■	•			
	Perifix® ONE 421	■	•			•
	Perifix® ONE 430	□		•		
	Perifix® ONE 431	□		•		•
Filter Sets	Typ	Perican®	Perifix® ONE	Perifix® Standard	Perifix® Soft Tip	Perifix® LOR
Perifix® Standard catheter	Perifix® 400	■		•		
	Perifix® 401	■		•		•
	Perifix® 402	□			•	•
	Perifix® 405	□			•	
	Perifix® 451	■		•		•
Perifix® Soft Tip catheter	Perifix® 700	■			•	
	Perifix® 701	■			•	•
	Perifix® 730	□				•
	Perifix® 750	■				•
Perifix® ONE catheter	Perifix® ONE 400	■	•			
	Perifix® ONE 401	■	•			•
	Perifix® ONE 402	□		•		•
	Perifix® ONE 405	□		•		
	Perifix® ONE 418	■	■	•		•
	Perifix® ONE 451	■		•		•
Pediatric Filter Sets	Typ	Perican®	Perifix® ONE	Perifix® Standard	Perifix® Soft Tip	Perifix® LOR
Perifix® ONE Paed	Perifix® ONE Paed 18	■	•			•
	Perifix® ONE Paed 20	■	•			•
Mini Sets	Typ	Perican®	Perifix® ONE	Perifix® Standard	Perifix® Soft Tip	Perifix® LOR
Perifix® Standard catheter	Perifix® 100	■		•		
	Perifix® 300	■		•		
	Perifix® 301	■		•		•
	Perifix® 302	□			•	•
	Perifix® 310	□			•	

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

Catheter gauge sizes according to EN ISO 9626

