

Epidural Anaesthesia

For the past 30 years PORTEX* has pioneered Epidural Systems. After being the first to produce epidural catheters for Obstetric anaesthesia in the early 1970s, PORTEX* went on to develop 'single use' devices in the early 1980s, quickly establishing a strong reputation for innovation, quality and reliability expected from a market leader. The PORTEX* MINIPACK was the first 'single-use' kit designed specifically for epidural procedures and included the first plastic, low friction Loss of Resistance Device. The success of this epidural kit has led to the trade name 'Minipack' being used generically within the medical profession to describe a basic single-use epidural pack. Today PORTEX* continues to lead the field in epidural anaesthesia with a broad range of epidural procedure kits and components, including LOCKIT*, the unique catheter fixation device launched in 1999 in response to the welldocumented incidence of epidural catheter migration during post-operative patient management.

Recognising that procedural techniques vary, PORTEX® has pioneered a custom kitting service, allowing clinicians to customise a procedure tray to suit individual needs.



EPIDURAL ANAESTHESIA

	P						
	P				6	H	
Specification	Longih	Broduct Code			-	THE STATE	
Needle Gauge	Length	Product Code				THE	
Needle Gauge 18G Paediatric	50mm (clear hub)	100/395/018				THE REAL	
Needle Gauge 18G Paediatric 19G Paediatric	50mm (clear hub) 50mm (clear hub)	100/395/018 100/395/019				THE REAL	
Needle Gauge 18G Paediatric 19G Paediatric 16G	50mm Iclear hubl 50mm Iclear hubl 80mm	100/395/018 100/395/019 100/395/160				THE REAL	
Needle Gauge 18G Paediatric 19G Paediatric 16G 18G	50mm Iclear hubl 50mm Iclear hubl 80mm 80mm	100/395/018 100/395/019 100/395/160 100/395/180				THE OWNER	
Needle Gauge 18G Paediatric 19G Paediatric 18G 18G 17G	50mm Iclear hubl 50mm Iclear hubl 80mm 80mm 80mm Iclear hubl	100/395/018 100/395/019 100/395/160 100/395/180 L727/61 *	Spec	ification		THE OWNER OF	
Needle Gauge 18G Paediatric 19G Paediatric 16G 18G	50mm Iclear hubl 50mm Iclear hubl 80mm 80mm	100/395/018 100/395/019 100/395/160 100/395/180	Speci	ification Needle Gauge	Length	Product Code	

Supplied sterile, individually packed in cartons of 10 * Supplied sterile, individually packed in cartons of 20

Tuohy Needles

Designed to provide accurate and reliable access to the epidural space.

- Optimised tip profile to maximise the all-important feel during insertion.
- Internal stylets minimise tissue coring during insertion.
- Optional snap on wings allow maximum flexibility in use.
- Depth of needle insertion is easily determined by clear 10mm graduations.
- Extra length and paediatric sizes available.

All Metal Tuohy Needle

Alternative design of epidural needle featuring an all-metal hub and stylet.

Sharps Safety Devices

Description	Product Code	
Point-Lok*	4139	

Supplied in packs of 10 x 100



Specification

	Capacity	Product Code
Epidural LORD	10ml	100/398/000
	Supplied ste	rile, individually packed in cartons of 10

Epidural 'Loss of Resistance' Device

The PORTEX® 'Loss of Resistance' Device is a single-use, low-friction syringe specifically designed to facilitate successful location of the epidural space.

- Designed with low and consistent frictional movement of the plunger to provide excellent sensitivity for epidural space detection.
- Graduated barrel indicates degree of plunger advancement.
- Suitable for use with both air and saline techniques with standard Luer slip connection to epidural needles.

Epidural Single Shot Packs

Specification Tuohy Needle

Gauge

16G

18G

'Loss of Resistance' Device and Tuohy needle set. Ideal for use in chronic pain clinics for bolus injections into the epidural space.

Length

90 mm

90 mm

Product Code

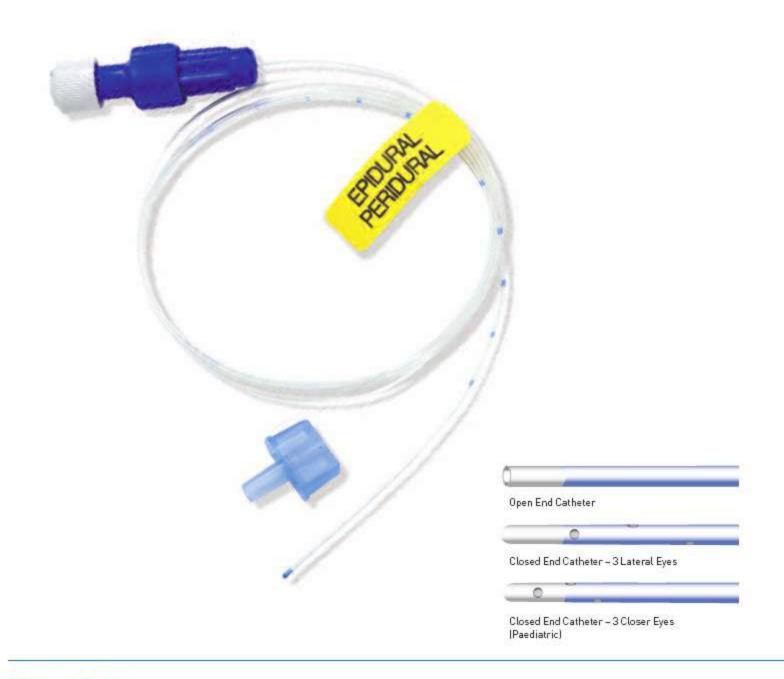
100/380/016

100/380/018

Supplied sterile in packs of 10

Contents: (Tuohy Needle – length 80mm, with attachable wings, a 10ml plastic LORD and a 18G filter needle).





Epidural Catheter

- Manufactured from a clear blend of Polyether block amide for optimum clarity, strength and kink resistance.
- Available in various gauges with a choice of distal tip eye geometry.
- Smooth tip forming to minimise trauma during insertion.
- Standard 1cm catheter marking to facilitate accurate catheter positioning.
- Confirmed patency and consistent flow rates achieved through 100% flow testing after manufacture.

- Distal tip mark to aid visual confirmation of complete catheter on removal.
- Paediatric catheters available in 18G or 19G with option of closer, helically placed eyes for even distribution of drugs, reducing likelihood of multi-compartmental spread of local anaesthetic*.
- All catheters are supplied with a Luer lock connector.

* Collier C B. Gatt SP. A new epidural catheter. Closer eyes for safety? Anaesthesia 1993:48; 803-806.

EPIDURAL ANAESTHESIA

Specification

Clear	For use with	Length	Catheter	Catheter	Catheter	Nominal Di	ameter mm	Product Code
Catheter Type	needle gauge		ID Label	Guide	Connector	Internal	External	
16G Closed End 3 Eyes	16G	915mm		•	•	0.55	1.03	100/382/116
16G 3 Closer Eyes	16G	915mm		•	•	0.55	1.03	100/382/816
18G Closed End 3 Eyes	18G	915mm	1955		*	0.45	0 83	100/382/118
18G 3 Closer Eyes	18G	915mm		•	•	0.45	0.83	100/382/818
18GHD (Higher Stiffness) Closed End 3 Eyes	18G	915mm	•	•	•	0.45	0.83	100/382/218
19G Paediatric Open End	19G	650mm		•		0.38	0.63	100/382/019
Catheters gauged to suit t	he epidural needle i	hrough which	n insertion is in	tended.				Supplied in packs of 1
19G Open End	16G	915mm				0.55	1.01	6994/61
19G Closed End 3 Eyes	16G	915mm				0.55	1.01	G995/61
20G Open End	18G	915mm			•	0.46	0.86	6996/61
20G Closed End 3 Eyes	18G	915mm				0.46	0.86	G997/61
Actual catheter gauge.								Supplied in packs of 1

Specification Size Product Code Tunnelling Device 200mm & Handle 100/387/020 Tunnelling Device 350mm & Handle 100/387/035

Supplied sterile and packed individually.

Subcutaneous Tunnelling Device

With the wider application of epidural analgesia in the management of long-term pain relief, the subcutaneous implantation of epidural catheters offers significant advantages to both clinician and patient.

The PORTEX® Subcutaneous Tunnelling Device is a quality, single-use surgical instrument designed to aid the subcutaneous placement of epidural catheters.

- The atraumatic tip prevents damage to the major blood vessels.
- The thin, smooth wall and large internal diameter allows easy passage of the catheter.

- Manufactured from polished surgical quality stainless steel, it can be gently curved to follow the desired pathway through the tissues.
- Offered in a choice of two lengths 200mm and 350mm to suit individual techniques.
- Subcutaneous implantation reduces the risk of infection in the epidural space, provides security against catheter displacement, particularly in mobile patients, and sites the catheter connection conveniently for infusion of prescribed drugs.



EPIDURAL ANAESTHESIA



Supplied sterile in packs of 20

LOCKIT® Epidural Catheter Fixation Device

LOCKIT® is a unique epidural catheter fixation device designed to prevent unwanted catheter migration. LOCKIT® ensures that pain control delivered via the epidural catheter is not compromised, providing increased confidence and peace of mind during post-operative pain management.

- Transparent locking mechanism maintains catheter patency and permits monitoring of catheter exit site.
- Foam adhesive pad makes application easy and minimises patient discomfort.
- Medical grade adhesive layer avoids skin irritation.
- Easy-to-peel backing makes application straightforward, even when wearing gloves.
- Available for both 16G and 18G catheters.

16G

18G



Specification

Filter Type	Membrane Pore Size	Maximum Pressure kg/cm²	Filter Area cm²	Priming Volume ml	Product Code
Flat	0.2µm hydrophilic 2-way	7.0	4.91	0.75	100/386/010
Disc	0.2µm hydrophilic 2-way	5.3	2.77	0.36	100/385/010
Flat	0.2µm	5.27	4.3	0.7	G556/61

Supplied sterile, individually packed in cartons of 10.

Epidural Filters, Disc & Flat, with Luer Lock connection

Smiths Medical low volume bacterial filters are available from PORTEX*. These filters may be used for the in-line filtration of low volume doses of aqueous solutions. These are especially suitable for filtration of drug solutions during injection into the epidural space in order to protect the patient from the transmission of infection or other particulate matter.

- The 0.2µm hydrophilic-supported membrane allows two-way filtration and the ability to test aspirate.
- Male and female Luer lock connections for maximum security.
- Flat profile for patient comfort (flat filter only).
- Transparent to allow visual monitoring of filtration and low priming volume.
- Suitable for 96 hours period of use (flat filter only).

N.B. We recommend use of these filters with a syringe no smaller than 10ml capacity to avoid undue pressure.



EPIDURAL ANAESTHESIA



Epidural Minipacks System 1/2/3/4

A cost-effective and convenient procedure pack, containing all the essential components needed to perform an epidural procedure. Available in 4 variants providing flexibility and choice. All products are single-use and offered in space-saving packs.



Supplied in packs of 10 x 100

Tuohy Needle Gauge	Length	With Attachable Wings	Clear Catheter with Connector & Guide	Plastic LORD Size	Catheter Identification Label	0.2µm Epidural Filter	Product Code
16G	90 mm		Open End	10ml	•	•	100/391/016
16G	90 mm	•	Closed End 3 Eyes	10ml	•		100/391/116
16G	110mm	•	Closed End 3 Eyes	10ml			100/391/516
16G	90 mm	•	Closed End 3 Closer Eyes	10ml		- 6 9	100/391/816
16G	90 mm	•	Closed End 3 Eyes	7ml		(•)	M477*
17G	90 mm	•	Open End	7ml		1.02	G747*
17G	90 mm	•	Closed End 3 Eyes	7ml		: : ()	G998*
18G	90 mm		Open End	10ml	•		100/391/018
18G	90 mm		Closed End 3 Eyes	10ml	•		100/391/118
18G HD (Higher Stiffness)	90 mm	•	Closed End 3 Eyes	10ml		•	100/391/318
18G	110mm		Closed End 3 Eyes	10ml	•	•	100/391/518
18G	90 mm	•	Closed End 3 Closer Eyes	10ml	•		100/391/818
18G	90 mm	•	Open End	7ml		140	G749*
18G	90 mm	•	Closed End 3 Eyes	7ml			G748*
19G	90 mm	•	Open End	10ml	•		100/391/190

Specification Epidural Minipacks System 1

Supplied in packs of 10 *Supplied in packs of 20

Specification Epidural Minipacks System 1 Paediatric

Tuohy Needle Gauge	Length	With Attachable Wings	Clear Catheter with Connector & Guide	Plastic LORD Size	Catheter Identification Label	0.2µm Epidural Filter	Product Code
18G	50mm	·	Closed End 3 Closer Eyes	10ml	•	·	100/391/180
19G	50mm	•	Open End	10m1	•	•	100/391/019

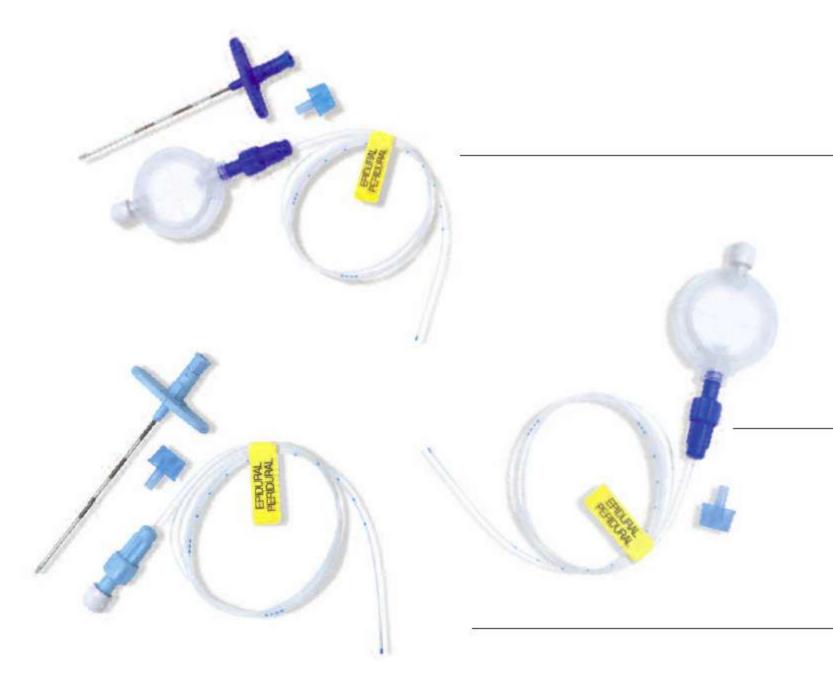
Supplied in packs of 10

Specification Epidural Minipacks System 1 with LOCKIT® Fixation Device

Tuohy Needle Gauge	Length	With Attachable Wings	Clear Catheter with Connector & Guide	Plastic LORD Size	Catheter Identification Label	0.2µm Epidural Filter	Product Code
16G	80mm	•	Closed End 3 Eyes	10ml	•		100/391/716
18G	80mm		Closed End 3 Eyes	10m1	•	•	100/391/718
							Supplied in packs

Supplied in packs of 10





arps Safety De	vices	
Description	Product Code	
Point-Lok®	4139	
	5 (F 2004)	and the second s

Supplied in packs of 10 x 100

Epidural Minipacks System 2

Specification

Fuohy Needle Gauge	Length	With Attachable Wings	Clear Catheter with Connector & Guide	Catheter Identification Label	0.2µm Epidurəl Filter	Product Code	
6G	90mm	•	Clear Closed End 3 Eyes	•		100/392/116*	
17G	90mm	•	Clear Open End	Clear Open End •			
17G	90mm		Clear Closed End 3 Eyes •			F948	
17G	90mm	•	Radio Opaque Closed End 3 Eyes	Radio Opaque Closed End 3 Eyes •		F950	
17G	90mm	•	Clear Closed End 3 Eyes			M123	
18G	80mm	•	Clear Closed End 3 Eyes			100/392/118*	
18G	90mm	•	Clear Closed End 3 Eyes		•	G746	
18G	90mm	•	Clear Closed End 3 Eyes		•	F949	
18G	90mm	•	Clear Closed End 3 Eyes		•	M125	

Supplied in packs of 20 *Supplied in packs of 10

Epidural Minipacks System 3

Specification

Clear Catheter with Connector & Guide	Catheter Identification Label	0.2µm Epidural Filter	Product Code
16G Closed End 3 Eyes	240	•	100/393/116
18G Closed End 3 Eyes	•	•	100/393/118
			Supplied in packs of

Supplied in packs of 10

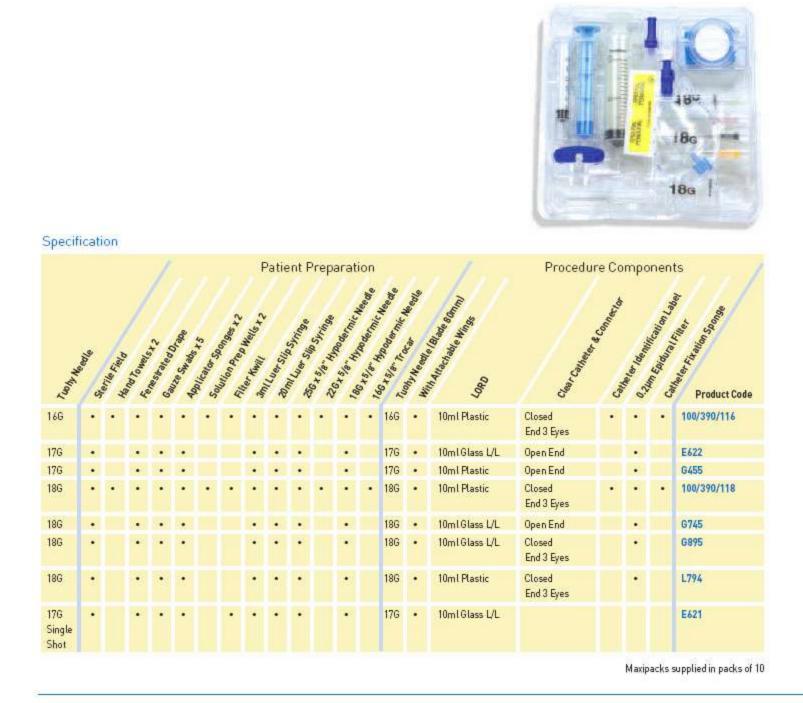
Epidural Minipacks System 4

Specification

Tuohy Needle Gauge	Length	With Attachable Wings	Clear Catheter with Connector & Guide	Catheter Identification Label	Product Code
16G	80mm		Closed End 3 Eyes		100/394/116
18G	80mm	•	Closed End 3 Eyes	•	100/394/118
					Supplied in packs of 1

Supplied in packs of 10





Epidural Maxipacks

A convenient, single-use procedure pack offered in a logical two-layer format with the upper tray containing a selection of patient preparation components and the lower tray containing all the essential epidural procedure components. Available in 16G, 17G and 18G.



Supplied in packs of 10 x 100



Spinal Anaesthesia

Complementing the epidural systems products, Smiths Medical applies the same meticulous attention to detail and quality to a range of precision-engineered spinal needles. Included in the spinal needle range is the RapID® brand of needles. Designed to provide maximum performance without compromising safety, the RapID® spinal needle selection delivers the high performance demanded by today's healthcare professionals. Spinal needles are available in Lancet (Quincke), Atraumatic and Pencil (Whitacre) tip designs, and offered as either individual needles supplied with a matched introducer needle or in convenient procedure trays.

Recognising that procedural techniques vary, the RapID® range of spinal needles are also available through the SELECT custom kitting service, allowing clinicians to customise a spinal procedure tray to suit individual needs.

Supporting the spinal needle range is the 28g Spinal Microcatheter System designed to facilitate effective regional anaesthesia through continuous intrathecal administration.





Pencil Point Spinal Needle Sets (Whitacre)

RapID[®] Spinal Needle Sets and Midi-Trays

The RapID® range of Spinal Needles is available either as a needle set or in a Midi-Tray format.

The Midi-Tray provides a systematic presentation of the key components necessary for the administration of single-shot Spinal Anaesthesia.

- Available in both Pencil and Lancet tip variants from 22G through to 29G depending on patient and procedural requirements. Extra length needles available in 25G, 26G and 27G.
- Pencil tip needles incorporate precision-engineered tip and eye geometry for atraumatic insertion and reduction in Post Dural Puncture Headache (PDPH).

Description	Product Code	-
oint-Lok*	4139	



Lancet Point Spinal Needle Sets (Quincke)

	Spinal Needle	Length	Introducer	Product Code
apID*	22G	90mm	18G	100/496/022
apic	22G	90mm		L746**
apID*	24G	90mm	20 G	100/496/024
apID*	25G	90mm	20 G	100/496/025
	25G	90mm	20 G	M118*
aplD*	26G	90mm	20 G	100/496/026
8100	26G	90mm	20 G	M119*
aplD*	27G	90mm	20 G	100/496/027
12	276	90mm	and a c	L743**
1	27G	90mm	226	M120*
	296	90mm	22G	M341*
				Supplied in packs of 20 **Supplied in packs of 50
				*Supplied in packs of 60
				-Supplied In packs of ot
	6	-		
	10			
	0	1		

- Size and positioning of the lateral eye minimises the potential for 'transdural positioning'. This ensures accurate delivery in the subarachnoid space.
- Clear hubs and excellent cerebrospinal fluid flashback performance provides rapid identification of correct needle placement.
- Colour-coded stylets allow easy identification of needle size.
- Supplied with a matched introducer needle to ensure accurate and safe needle placement within the subarachnoid space.

smiths



Specification

Spinal Needle	Length	Introducer Needle	Intradermal Needle	Hypodermic Needle	Syringe	Filter Kwill	Product Code
22G	90mm	18G	25G	226	3ml & 5ml	•	100/497/122
25G	90mm	20G	25G	226	3ml & 5ml	•	100/497/125
26G	90mm	20G	25G	226	3ml & 5ml		100/497/126
27G	90mm	20G	25G	22G	3ml & 5ml	•	100/497/127

Supplied in packs of 10

Midi-trays

Midi trays are available in pencil point format, containing a spinal needle and introducer, supported by the key components necessary for administration of the local anaesthetic prior to needle insertion.

Filter kwill (5µm, priming volume of 0.3ml) removes particulate matter when drawing up, maximising patient safety.

Description	Product Code	
-------------	--------------	--

Supplied in packs of 10 x 100

SPINAL ANAESTHESIA



				T	r	Pa	atient	Prepa	aration	1	<i>i</i> .	1		1		edure	Compo	onents
Sainar	Sterris	Ham	Fen. Guess 22	Gaussie D'aple	Abon: 45	Soluri Sponger	2×50 Hand un	Pull L.	220 x	Sov - Hand	166 v. Maderin Reads	Spinau .	Shinal M. Course	Same And The Page	Similar And Band	Smip.	Introduce	Product Code
226			200	76		198		2.2		i.		22G	Р	R			18G	100/389/822
22G	•	•			•		192	1.00	18			22G	L	R		1	18G	100/389/022
2G				1.		-	10.52			1		226	Ŀ	BD			18G	E619
4G			•				1152					24G	A	A		•	19G	G888
.5G						10	-	20	Terre	Terre .		256	Ρ	R	-		18G	100/389/825
5G	•				•/							25G	L	R		1	18G	100/389/025
25G					•		1052			1 1		256	P	A			19G	6973
.5G			•	600			165	-				25G	L	BD		•	19G	E620
6G			200	30		30	-	202	-	i.		26G	P	R			18G	100/389/826
6G	•	•			•		192	1.00		•		26G	L	R		1	18G	100/389/026
26G				100			10.52				1	26G	Ŀ	BD			20G	G421
27G				1		100	1158	-	1158	1.00		27G	Ρ	R				100/389/827
27G				101	•	100		201	-	Terra		27G	L	R				100/389/027
27G					•	7 12			-		-	27G	E	BD	-		20G	G972

Spinal Maxipack, Pencil Point Needle & Lancet Tip Needle

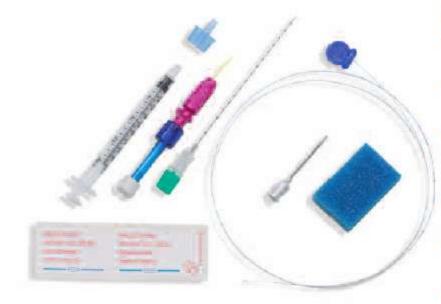
The spinal Maxipack provides all the essential components required for spinal anaesthesia in a single pack.

Presented in a logical two-layer format, the upper tray contains a selection of patient preparation components and the lower tray contains the essential components to perform the spinal block.

Available in 22G to 27G pencil tip or lancet tip format, dependent on the patient and procedure requirements, high performance and safety are assured.

smiths ²¹

SPINAL ANAESTHESIA



The System Includes

- 23G Crawford Spinal Needle with optimised 30° angle of bevel.
- Needle bevel heel and sides blunted to minimise risk of potential catheter shearing.
- 28G Styletted Microcatheter.
- Graduated markings permit accurate catheter positioning.
- PTFE coated stylet aids easy withdrawal from catheter.
- Correct catheter placement may be confirmed by aspiration of CSF.
- Supplied with catheter identification label to avoid confusion with epidural catheters or other infusion lines.
- Supplied with Luer lock connector.
- 1ml syringe for accurate dose delivery.
- Compact 0.2µm syringe filter .

Specification

Pack Contents	Product Code
23G Crawford Spinal Needle	100/384/023
28G Styletted Microcatheter	
18G Introducer Needle	
1ml Syringe	
Microcatheter Fixation Device	
Luer Lock Connector	
Microcatheter Guide	
Spinal Catheter Label	
0.2µm Syringe Filter	
	Supplied in packs of



Microcatheter System

The Spinal Microcatheter System for continuous spinal anaesthesia is considered appropriate for a wide range of surgical and pain management applications, providing a rapid and controlled response. The technique permits precise dose titration and allows minimal amounts of local anaesthetic to be used, minimising the risk of systemic toxic reactions.



Supplied in packs of 10 x 100



Combined Spinal Epidural Systems

Bringing together the well documented advantages of epidural and spinal anaesthesia, the Smiths Medical range of Combined Spinal Epidural products includes the unique CSEcure® locking needle system.

Launched in 1998, the CSEcure® needle system provides a safe and effective solution to needle control during the CSE procedure, without compromising the all-important feel. CSEcure® is available in a wide range of pack options from individual sets of needles through to full procedure packs. Recognising that procedural techniques vary, the CSE needle range is also available through the SELECT custom kitting service, allowing the clinician to customise a CSE procedure tray to suit their individual needs. In addition, the CSE range offers a selection of traditional non-locking needle systems supplied as either matched needle sets or in full procedure trays. Now offered in the traditional 'needle-through-needle' CSE range is a back-eye design of Tuohy needle to facilitate spinal needle placement.



Needle Sets

Specification CSEcure® Needle Sets

Tuohy Needle	With Attachable Wings	Spinal Needle	Spinal Needle Type	CSEcure® Lock	Product Code
6G		26G	Pencil		100/396/916
16G		27G	Pencil		100/396/716
18G		27G	Pencil	*	100/396/718
				S. 28822	1922 8

Needle Sets supplied in packs of 10





(contains CSEcure® needle set with lock, catheter 13 eyes) and connector, Filter (0.2µm), LORD, Fixation sponge, catheter ID label)

Tuohy Needle	With Attachable Wings	Spinal Needle	Spinal Need Type	Product Code
18G		27G	Lancet	100/491/318
16G		26G	Pencil	100/491/916
16G		27G	Pencil	100/491/716
18G		27G	Pencil	100/491/718
			D	C 1/2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Portex CSE Minipacks supplied in packs of 10



CSE Needle Systems

- Providing the rapid onset and reliability of a spinal block, allowing anaesthesia to be prolonged both intra and post-operatively via an epidural catheter.
- Designed for optimal performance, minimising drag of needle through needle and maximising feel of dural puncture.
- Rapid CSF flashback to confirm correct needle tip position.
- CSEcure's[®] unique needle hub locking feature enables tip relationships to be maintained after dural puncture, providing increased confidence of correct spinal needle tip position during injection of the anaesthetic.

rps Safety De	And a state of the	
Description	Product Code	
Point-Lok*	4139	

Supplied in packs of 10 x 100

Traditional (non-locking) Needle Sets

Specification

Tuohy Needle	With Attachable Wings	Spinal Needle	Spinal Needle Type	Back Eye	Product Code
18G		25G	Pencil		MI45*
16G	•	26G	Lancet		100/396/116
16G	•	26G	Pencil		100/396/816
16G	*	27G	Pencil		100/396/616
18G	•	27G	Pencil		100/396/618
					Supplied in packs of 10

^{*}Supplied in packs of 20



Specification

Traditional (non-locking) CSE Minipacks (contains CSE needle set, catheter (3 eyes) and connector, Filter (0.2 µm), LORD, Fixation sponge, catheter (D label)

luohy Needle	With Attachable Wings	Spinal Needle	Spinal Needle Type	Product Code
18G		25G	Pencil	M146*
16G		26G	Lancet	100/491/116
18G	•	26G	Lancet	100/491/118
18G		27G	Pencil	100/491/618
16G		26G	Pencil	100/491/816
18G		26G	Pencil	100/491/818

Supplied in packs of 10

*Supplied in packs of 20 (back eye needle, no catheter label, no fixation sponge)

- Maximum of 15mm spinal needle tip protrusion from Tuohy needle.
- In locked position the spinal needle is free to rotate, enabling 360° freedom for drug dispersal in preferred direction.
- Pencil point needles provide a satisfactory solution to the problem of Post Dural Puncture Headache and atraumatic entry into the subarachnoid space.
- Excellent drug distribution is achieved through three helically-located lateral eyes within the clear catheter, minimising the potential for the localised pooling of drug solutions within the epidural space.

smiths



Plexus Anaesthesia

Supporting the growing interest in Plexus Anaesthesia for Pain Management, Smiths Medical's Plexus Anaesthesia Systems offer the Anaesthetist a more targeted approach to Pain Management.

The TRACER* III nerve stimulator is a light-weight portable system, allowing easy confirmation of needle placement to target nerves for procedures where a motor response can be elicited. The small micro current delivered by the TRACER* III stimulates the larger A Alfa motor fibres before the smaller A Delta or C fibres responsible for pain, thereby achieving a motor response without eliciting pain. TRACER® III automatically compensates for patient resistance and displays the actual current being delivered at the tip of the needle. As well as current intensity, the easy-to-read screen displays the maximum current range, pulse frequency, the pulse width and current battery life status.



PLEXUS ANAESTHESIA



SoloStim® Foot Control

Product Code	NLP3
Dimensions	8" (20.3cml x 3.75" (9.4cml x 2.75" (7.0cm)
Weight	2.1lbs(0.96kg)
TRACER® III Prot	ective Case
Product Code	NLB3
TRACER* III Repl	acement Leadset
Product Code	NLC3
TRACER® III Adap	otor Lead
Product Code	NLA3



TRACER* III

Ref Code	NL3
Dimensions	2.9" [7.3cm] x 5.5" [14.0cm] x 1.4" [3.4cm]
Weight	9.6 oz (275g) with 9v battery
Output Current	0.05-5.0mA ± 1% (into a load of 12 kOhms or less)
Pulse Frequency	Programmable 1 Hz/2Hz ±2%
Pulse Width	50, 100, 300, 500, 1000 microseconds ±10%
Pulse Risetime	Less than 5 microseconds open circuit
Power	One % Alkaline Battery
Regulatory	CE marked to MDD EC93/42, UL 2601-1, CSA 22.2 no.601.1

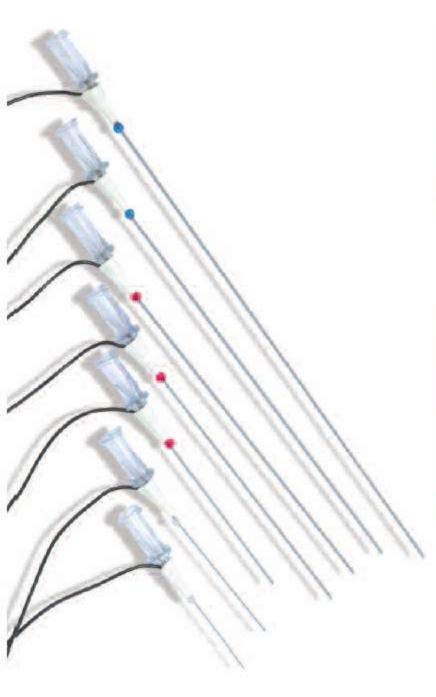
Plexus Anaesthesia

TRACER III® also features:

- Volume control with audible tone changes.
- Audio open-circuit alarm.
- Automatic shut-off after 20 minutes of non use to preserve battery life.
- Two pulse frequency options 1Hz and 2Hz.
- Five pulse width settings 0.05, 0.1, 0.3, 0.5, and 1.0 msec.

Unique to Smiths Medical's Plexus Anaesthesia System is the SOLOSTIM[®] foot control. Used in conjunction with the TRACER III[®] Nerve Stimulator, it allows hands-free operation and control of the stimulating current, enabling the clinician to use both hands for accurate needle placement and nerve location.

 Two operating ranges can be selected. 0.05-5.0 mA and 0.05-1.5mA.



Single Shot Needles

Needle Gauge	Needle Length	Product Code
25	25mm	25/025/PB
25	40mm	25/040/PB
22	50mm	22/050/PB
22	80mm	22/080/PB
20	100mm	20/100/PB
20	120mm	20/120/PB
20	150mm	20/150/PB

Bevel: 30° B Block

Insulation:>50 kOhms resistance

Hub: Transparent female Luer fitting

Lead Wire: 18" long with 1.5mm touch proof connector

CONTINUOUS PROLONG[™] Sets

Needle Gauge	Needle Length	Product Code	Tuohy style needle	Continuous Block Catheter
19	40mm	19/040/PL		yes
19	50mm	19/050/PL		yes
19	100mm	19/100/PL		yes
19	150mm	19/150/PL		yes
18	40mm	18/040/PLT	() •	yes
18	50mm	18/050/PLT	(6)	yes
18	100mm	18/100/PLT		yes
18	150mm	18/150/PLT		yes

(supplied with 21G catheter) Bevel:

30° B Block for 19 gauge tuohy tip for 18 gauge **Insulation:**>50 kOhms resistance **Hub:** Transparent female Luer fitting **Lead Wire:** 18° long with 1.5mm touch proof connector **Catheter:** 21G closed end 3 lateral eyes Radio opaque

A full range of insulated needles and catheter sets support the TRACER III® and SOLOSTIM[®] System. Ranging from short needles suitable for upper extremity blocks, the needles incorporate an advanced Hydro-Slick teflon coating which is laser-stripped at the tip to ensure a high degree of insulation and accuracy.



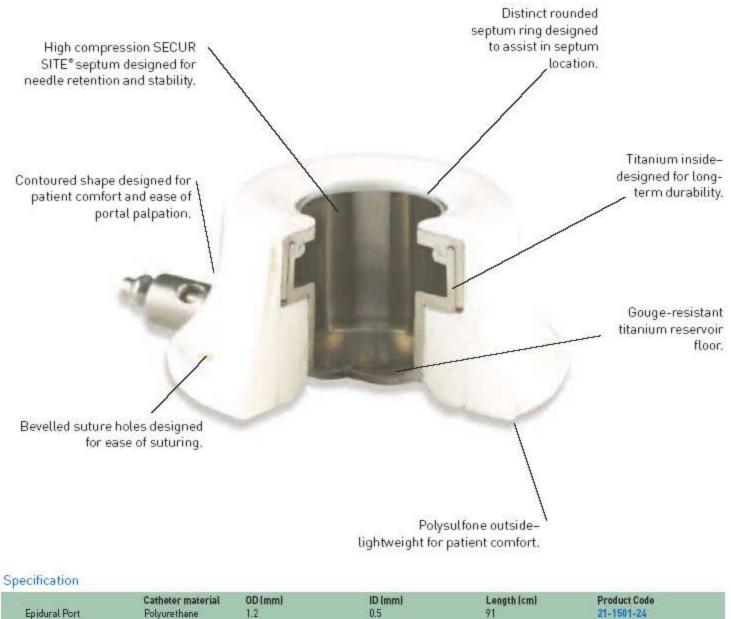


Epidural and Intra-Spinal Ports & Access Systems

Recognising the need for effective Chronic Pain Management, the PORT-A-CATH* brand of implantable Epidural and Intra-spinal Ports from Smiths Medical, provide an effective and reliable means of administering Pain Management Therapies over extended periods of time. Setting standards in excellence and innovation, the Deltec PORT-A-CATH* brand of Epidural and Intra-spinal Ports offer unsurpassed performance and reliability. Smiths Medical also provides a comprehensive range of Vascular Access Ports for Intravenous and Intra-arterial Therapies. Please see our Vascular Access Catalogue for more details.



EPIDURAL AND INTRA-SPINAL PORTS



Epidural Port	Polyurethane Open ended	1.2	0.5	91	21-1501-24
Spinal Port	Polyurethane Closed end with side hole	0.9	0.5	91	21-1500-24

Manufactured from a lightweight polysulfone body incorporating a gouge-resistant titanium base, PORT-A-CATH® II is designed for long-term durability and patient comfort. The compressed silicone septum provides secure needle retention when accessing the port, allowing up to 2000 needle punctures. All ports are supplied with a polyurethane catheter in a full procedure tray.



Gripper[®] Needles

Specification

Gauge	Length (mm)	Product code with Y-site	Product code without Y-site
22G	19	21-2939-24	21-2733-24
226	25	21-2940-24	21-2714-24
22G	32	21-2941-24	21-2715-24
20 G	19	21-2947-24	21-2734-24
206	25	21-2948-24	21-2717-24
206	32	21-2949-24	21-2718-24
196	19	21-2955-24	21-2735-24
196	25	21-2956-24	21-2720-24
19G	32	21-2957-24	21-2721-24
206	16	21-2746-24	21-2736-24
226	16	21-2738-24	21-2737-24

Supplied in packs of 12



Gripper® Plus Safety Needles

Specification

Gauge	Length (mm)	Product code with Y-site	Product code without Y-site
19G	19	21-2868	21-2768
19G	25	21-2869	21-2764
19G	32	21-2870	21-2765
20G	16	21-2864	21-2769
20 G	19	21-2865	21-2767
20 G	25	21-2866	21-2752
206	32	21-2867	21-2763
226	16	21-2860	21-2770
226	19	21-2861	21-2766
226	25	21-2862	21-2760
22G	32	21-2863	21-2761

Supplied in packs of 12

Supporting the Epidural and Intra-spinal Ports is the GRIPPER® and GRIPPER® PLUS range of non-coring Huber needles for accessing ports. The removable contoured grip provides confident needle placement, while the low profile design eliminates the need for bulky dressings. When in situ, the cushioned needle platform stabilises the needle and increases patient comfort. The new GRIPPER® PLUS needle offers access to the port in one easy and safe motion. Featuring an effective needle stick protection system, GRIPPER® PLUS provides improved clinical safety when removing the needle from the port. All GRIPPER® and GRIPPER® PLUS access needles have integrated extension lines featuring needle-less Y-site access, and secure Luer lock connectors allowing connection to an appropriate infusion pump if required.

- A wide variety of gauges and lengths to accommodate most ports.
- Colour-coded C-clamp for ease of needle gauge identification.

With over 400,000 implantations during the last 10 years the Smiths Medical range of ports and needles gives you and your patients the confidence and security you deserve.





Select Custom Kit Service

Smiths Medical recognises that health professionals are as individual as their patients. The Select Custom Kitting service allows clinicians the opportunity to customise their own kits to suit their personal component preferences and operational needs. The service offers the following benefits to both users and purchasers:

- With a simple ordering system, custom kits ensure you receive exactly the right components for each individual, with no extras to assemble and nothing wasted.
- Considerable time-saving gained from set-up to procedural application as all the items are present in one package.
- Risk of infection is reduced as all items are only handled once.
- Stockholding is reduced as packs can be held by your local distributor according to forecast and demand.



SELECT CUSTOM KITS



The Select Custom Kit process

It is quick and easy to create and produce any kit to suit your exact requirements.

- 1 Select kit components with our Product Specialist.
- 2 Our Custom Kit Unit prepares sample(s) for approval in 3 days.
- 3 Sample(s) approved and order placed.

- 4 Our Custom Kit Unit produces initial stock.
- 5 Usage forecast agreed and 2-3 months stock produced to be held by distributor.
- 6 Standing order placed by hospital with distributor with extra supplies available for call-off at all times.

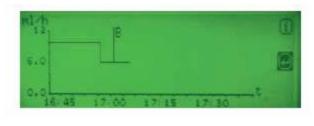




Pumps



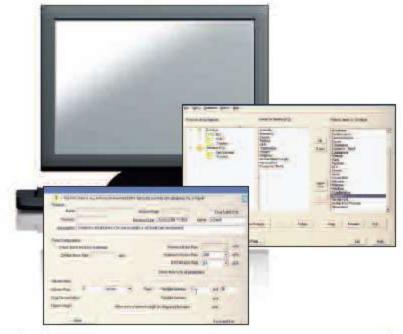






OMNIFUSE® PCA

Designed with safety in mind, OMNIFUSE® PCA breaks new ground in syringe pump design. Specifically developed for Patient Controlled Analgesia (PCA), OMNIFUSE® PCA meets the needs of today's demanding Pain Management Therapies. The intuitive point and select user interface, combined with a wide range of features which can be enabled or disabled, provides a high degree of operational flexibility and the desired balance between simplicity and sophistication.



Specification

Dose Range	0.1ng - 99.9mg
Dose Duration	1 second – 15 minutes
Clinician Override Dose Range	0.1ng - 99.9mg
Loading Dose Range	0.1ng - 99.9mg
Background (Dose) Rate Range	0.1ng/h - 500mg/h
Background Rate Range (with boluses)	0.1 - 20ml/h
Background Rate Range (no boluses)	0.1-800ml/h
Bolus Rate Range	0.1-800mVh
Bolus Rate Range (timed)	1 second – 15minutes
Dose Limit Range by Mass	1ng - 9999mg
Dose Limit Range by Volume	1-9999ml
Dose Limit Range by Demands	1ng – 50 demands
Dose Limit Period	1 – 8 hours or variable
Accuracy	Volumetric: ± 2% Linear: ± 0.25% using the Braun Omnifix 50ml syringe
Syringe Sizes	2ml – 60ml
Purge Rate	0 - 900ml/h
KV0 Rate	0 - 2ml/h

Occlusion Pressure Alarm Limits	5 levels between 180 and 1250mmHg
History	3000 events
Battery Type	Sealed Lead Acid
Battery Life	10 hours (œ 5ml/h)
Battery charge time	10 hours to full charge
AC Power Supply	100 - 240V at 50/60 Hz 50W
Weight	3.5kg Inot including pole clampl
Dimension	384 x 170 x 92mm (not including locking pole clamp)
Fluid Ingress Protection	IPX4
Electrical Safety	Class 1, Type CF
Design Standards	EN 60601-1, EN 60601-2 EN 60601-4, EN 60601-2-24
Part numbers	

Omnifuse® PCA 0153-0001 (this part number refers to the UK variant). Omnifuse® Drug Protocol Management System 0153-0084.

- Supplied with Drug Protocol Software as standard to help minimise Medication Errors during programming.
- Large display screen can illustrate the current infusion profile in a graphical format.
- Infusion history which can be viewed over 1 hour periods.
- Displays showing graphical representations of patient profiles when pain, nausea and sedation parameters are entered into the pump.
- Electronic Patient Handset illuminates when a bolus is available.
- The 'ASLEEP' function allows the pump to be programmed and left in a dormant state awaiting use.

Confidence and safety when connecting the patient to OMNIFUSE® PCA can be achieved using the FLO-SAFER[®] range of extension sets designed to suit every individual patient requirement.







FLO-SAFER[™] Extension Set System

- Include line clamps with an option of an integral Anti-Syphon Valve.
- Available with a fluid path of PVC or PE medical grade plastics.
- Yellow extension sets that are colour-coded to conform with the internationally recognised colour for epidural use.
- Wastage and consequent drug expenditure reduced by low volume sets that incorporate narrow-bore tubing, reducing priming volume by 75%.
- Integral Roberts Clamp giving the confidence of a safer and convenient method of flow control.

Specification

PVC Extension Sets & R Clamp

Length (cm)	Priming	Product Code	
50	0.5ml	0128-0196	
100	1.0ml	0128-0197	
150	1.5ml	0128-0122	
200	2.0ml	0128-0198	

Sets supplied in packs of 50

Specification

PVC Extension Sets & ASV & R Clamp

Length (cm)	Priming	Product Code
50	0.5ml	0128-0251
100	1.0ml	0128-0252
150	1.5ml	0128-0253
200	2.0ml	0128-0254

Sets supplied in packs of 50

Specification

PE Lined Extension Sets & ASV & R Clamp	0
---	---

m) Priming	Length (cm)
0.5ml	50
1.0ml	100
1.5ml	150
2.0ml	200
1.5ml	0.01

Sets supplied in packs of 50

Specification

 Yellow Epidural PU Extension Sets + ASV + R Clamp

 Length (cm)
 Priming
 Product Code

 150
 1.5ml
 0128-0261

		Sets supplied in packs of 50	
200	2.0ml	0128-0262	
150	1.5ml	0128-0261	

Specification

Yellow Epidural PU Extension Sets + S Clip

Length (cm)	Priming	Product Code
150	1.5ml	0128-0263
200	2.0ml	0128-0264

Sets supplied in packs of 50

Specification

150cm PVC Extension Sets + Y Set + ASV + Non-Return Valve and Loop

	Product Code	
Primary Line - 1.5ml / Secondary Line - 2.0ml		
	Sets supplied in packs of 50	

Specification

PE Lined	Extension	Sets (narro	wbore 0.5m	m]+ASV	+ R Clamp
----------	-----------	-------------	------------	--------	-----------

Priming	Product Code
0.25ml	0128-0259
0.4ml	0128-0260
	0.25ml

Sets supplied in packs of 50

Specification

150cm PVC Extension Sets + Pressure Sensing Disc

Priming	Product Code	
2.2ml	0130-0041	
	Sets supplied in packs of 50	

ASV – Anti-Syphon Valve PU – Polyurethane PVC – Polyinylchloride R Clamp – Roberts Clamp PE – Polyethylene S Clip – Slip Clip







CADD-Legacy® PCA

CADD Legacy® PCA is safe, reliable and durable.

Specifically dedicated to PCA applications, the CADD Legacy® PCA pump is particularly suited for Pain Management Therapies via the intravenous, intra-arterial, subcutaneous, intraperitoneal, epidural and intrathecal routes.

CADD Legacy® PCA is capable of continuous, demand dose and clinician bolus infusions that can be used independently or in combination with each other.

- Enhanced keypad and message display screen, providing easy-to-read information for programming adjustments and troubleshooting.
- Built-in safety features allowing you and your patient to be alerted to any undesirable events in the pump's operation.
- Air-in-line detector indicating the presence of air administration set tubing and the upstream and downstream occlusion sensors detecting any interruptions of fluid delivery.



Specification Product Code 21-6300-51 **Delivery Modes** Continuous, Demand Dose, Clinician Bolus Imodes can be used independently or in combination). Indications Pain management infusion therapies. **Delivery** routes Intravenous, Intra-arterial, Subcutaneous, Intraperitoneal, Epidural, Intrathecal. Programming **Programming Units** ml,mg,mcg **Reservoir Volume** 1 ml - 9,999ml or not in use **Drug Concentration** 0.1-100mg/ml, 1-500 mcg/ml **Continuous** Rate 0-50ml/hr, 0-5,000 mg/hr, 0-25,000 mcg/hr* Dose Volume Demand dose - 0 - 9.9ml, 0 - 990 mg, 4,950mcg, Clinical Bolus - 0-20ml, 0 - 2,000mg, 0 -10,000mcg* Demand Dose Lockout 5 min - 24 hr Demand Doses/hour 1-12 Reporting **Reservoir Volume** 0 - 9,999ml* (ml only) **Drug Concentration** 0-99,999.95ml Given (volume delivered) Doses Given 0 - 999**Doses Attempted** 0-999

- The capacity to store the last 500 events in its memory. This information can be downloaded either directly or remotely (using a modem) to a PC or a printer using the CADD Diplomat[®] PC Communications System.
- Filled medication cassettes or pole-mounted fluid bags, allowing the clinician flexibility to choose medication delivery option that best suits Pain Management needs.
- Optional security shells safeguard against undesired tampering with the pump during use.
- CADD Legacy® offers a high degree of strength and durability, making it the ideal choice for ambulatory patients with an active lifestyle.

smiths 4



Simply Safer, The CADD-Prizm® PCS II Pain Management Pump

The CADD-Prizm® PCS II pump uses 20 years of proven ambulatory infusion system experience to provide an easy- to-use pump that optimises safety, security and pain control, whilst offering the pump information and patient reports that your Acute Pain Team needs for effective Pain Management.

Each component in the CADD Acute Pain Management System complements and supports the safe and reliable delivery of pain medication. Use of the pumps across multiple patient areas increases clinician familiarity, whether used for an ambulatory, pole-mounted, post- operative, epidural or IV infusion. The effectiveness of delivery reaches a higher level when combined with Medication Delivery Management Software that reduces the risk of medication errors via electronic programming of the pump with standardised protocols.

- When combined with the CADD-Prizm[®] PCS II pump, the software will help reduce programming errors, save time and provide consistent, high quality Pain Management.
- Electronic protocol programming, archived pump and patient data and printable documentation whenever required.
- Helps reduce the risk of medication errors.
- You can quickly select and accurately program pain



General Pump Specifications*

Resolution	0.050 ml per pump stroke
Size	4.4 cm x 10.4 cm x 14.1 cm 11.7 in. x 4.1 in. x 5.6 in.] excluding cassette or other accessories.
Weight	568 g (20 oz.) including 9-volt battery and empty 100 ml Medication Cassette reservoir, excluding other accessories.
Power Sources	9-volt alkaline or lithium battery such as DURACELL® Alkaline MN 1604 or ULTRALIFE® Lithium U9VL; AC adaptor.
Upstream Occlusion Sensor	Fluid is not flowing from the reservoir to the pump.
Pump Alarms	Pump has many notifications and visual/audible alarms, including low/depleted power status, low/depleted reservoir volume, cassette detached/attached, high pressure, and others related to specific pump conditions. Refer to the Operators Manual for listing of pump alarms.
Bolus Volume at Occlusion Alarm Pressure	0.050 ml resolution sets/reservoirs: ←0.25 ml
System Delivery Accuracy	±6% (nominal)
High Pressure Alarm	18±9psi
Air Detector Alarm	Single bubble greater than 0.100 ml.

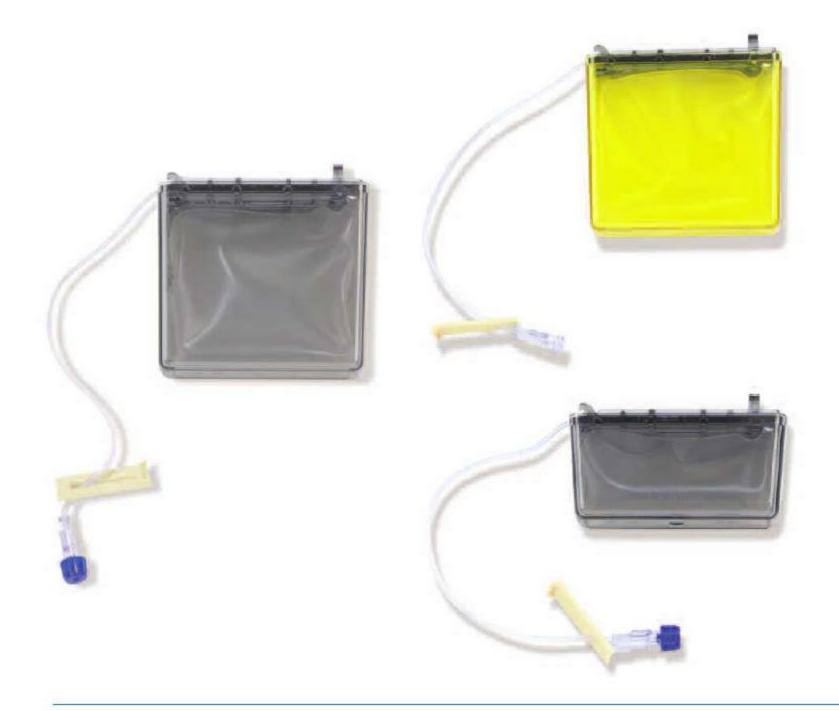
PCA Delivery Mode Specifications

		Product code	
CADD-Prizm [®] PCS II ambulatory infusion pump Model 6101	Pump, carrying case, 50/100 ml pump pouch, pump key, remote dose cord, 9-volt battery, Operators Manual.	21-8951-51	
CADD-Prizm* PCS II ambulatory infusion pump Model 6101 with yellow keypad	Pump, carrying case, 50/100 ml pump pouch, pump key. remote dose cord, 9-volt battery, Operators Manual.	21-8961-51	

protocols into the CADD-Prizm® PCS II pumps, reducing the risk of manual programming errors and saving programming time.

- Use wireless technology to download to a PDA device, infusion history from the CADD-Prizm[®] PCS II pump and use the therapy report to help make patient management decisions. The stored information can later be archived on a PC for documentation.
- The CADD system provides three choices of medication delivery – medication cassette reservoirs, IV bags or syringes.
- The tamper-resistant housing of the medication cassette reservoir provides security and durability, while reducing the risk of contamination associated with bag spikes.
- An optional accessory, the secure and sturdy Lock Box, ensures that the pump and medication bag are locked away to prevent any tampering with the infusion. The option of colour-coded pumps, medication cassette reservoirs, administration lines and lock boxes all differentiate epidural and V PCA delivery and enhance infusion safety.





Medication Cassette Reservoirs (must be used with Deltec Extension Set with Anti-siphon valve).

Product	Product Code	Unit	
50-ml with Female Luer	21-7001-24	12/box	
100-ml with Female Luer	21-7002-24	12/box	
Yellow 100-ml with Female Luer	21-7100-24	12/box	

Flexible Medication Reservoir

Product	Product Code	Unit	
250-ml TOTM plasticised Medication Reservoir	21-6167-24	48/box	
with Female Luer-activated valve			



CADD® Administration Sets

Product	Product Code	Unit
152 cm Tubing with Attached Bag Spike, Male Luer with Integral Anti-siphon Valve and Clamp	21-7022-24	12/box
152 cm Tubing with Attached Bag Spike, Male Luer Add-on Anti-siphon Valve and Clamp	21-7034-24	12/box
312 cm Yellow-striped with Attached Bag Spike, Male/Male Luers, Integral Anti-siphon Valve and Clamp	21-7024-24	12/box
229 cm TOTM-plasticised Tubing with Bag Spike, 0.2-micron Filter, Male Luer with Integral Anti-siphon Valve, and Clamp	21-7091-24	12/box
229 cm TOTM-plasticised Tubing with Female Luer, 0.2-micron Filter, Male Luer with Integral Anti-siphon Valve, and Clamp	21-7094-24	12/box
229 cm TOTM-plasticised Tubing with Bag Spike, In-line Anti-siphon Valve, Y-extension with One-way Female Checkvalve, Male Luer, and Clamps	21-7095-24	12/box
224 cm Yellow-striped Tubing, 0.2-micron Filter, Bag Spike, Male Luerwith Integral Anti-siphon Valve and Clamp	21-7039-24	12/box

CADD* Extension Sets

Product	Product Code	Unit
76 cm with Male/Male Luers, Integral Anti-siphon Valve and Clamp	21-7045-24 21-7060-24	50/bax 12/bax
114 cm with Male/Male Luers, Integral Anti-siphon Valve and Clamp	21-7046-24 21-7061-24	50/bax 12/bax
152 cm with Male/Male Luers, Integral Anti-siphon Valve and Clamp	21-7047-24 21-7062-24	50/box 12/box
140cm TOTM-plasticised Tubing with Male/Male Luers, 0.2-micron Filter, Integral Anti-siphon Valve and Clamp	21-7040-24	25/box
152cm TOTM-plasticised Tubing with Male/Male Luers, 0.2-micron Filter, Integral Anti-siphon Valve and Clamp	21-7106-24	50/box
173cm TOTM-plasticised Tubing with Male/Male Luers, In-Line Anti-siphon Valve Y-extension with One-way Female Checkvalve and Clamps	21-7092-24	12/box
229cm T0TM-plasticised Yellow-striped Tubing with Male/Male Luers, Integral Anti-siphon Valve and Clamp	21-7105-24	12/box
152cm TOTM-plasticised Microbore Tubing with Mala/Male Luers, 0.2-micron Filter, Integral Anti-siphon Valve and Clamp	21-7052-24	50/box





Lock Boxes and Security Shells (for CADD-Prizm* pumps).

Product	Product Code	Unit
Security Shell Accommodates 250 medication bag, or several types of 30-ml pre-filled syringes, shell locks onto pump and may be pole-mounted using the pole-mount bracket (21-6120)	21-6117-24	each
Modified Security Shell For use with Flexible medication Reservoir (21-6127) and CADD®Administration Set with Male Luers (21-7059), Shell locks onto pump and may be pole-mounted using the pole-mount bracket (21-6120)	21-6117-24	each
Large Lockbox with Full Keypad, Air Detector Access Compatible with standard M bags up to 500ml and pre-filled syringes up to 60ml	21-6186-51	each
Small Lockbox with Full Keypad, Air Detector Access Compatiblewith standard IV bags up to 100ml and pre-filled syringes up to 30ml	21-6185-51	each



Product	Product Code	Unit
250-ml Pump Pouch Accommodates pump and up to 250-ml medication bag	21-2305-24	each
1-litre Pump Pouch Accommodates pump and 1-litre medication bag	21-2338-24	each
For CADD-Prizm [®] pumps		
Backpack (3-litre capacity) Accommodates CADD-Prizm® VIP pump, External Power Source (EPS) system, and up to a 3 litre, dual chamber medication bag	21-6123-24	each
Backpack (1-litre capacity) Accommodates CADD-Prizm® VIP pump, and up to a1 litre, medication bag	21-6123-24	each
For CADD-Prizm* pumps		
50-/100-ml Pump Pouch Accommodates pump with 50/100-ml Medication Cassette reservoir	21-6122-24	each
250-/500-ml Pump Pouch with shoulder strap Accommodates pump with 250/500-ml medication bag, designed to be wom on the shoulder or round the waste	21-6127-24	each
250-/500-ml Pump Pouch Accommodates pump with 250/500-ml medication bag, designed to be wom round the waste	21-6124-24	each
For CADD-Legacy*pumps		
50-/100-ml Reusable Pouch Accommodates pump with 50/100-ml Medication Cassette reservoir	21-6260-24	each
250-/500-ml Reusable Pouch Accommodates pump with 50/100-ml medication Cassette reservoir	21-6265-24	each

Single-Use Pouches

Product	Product Code	Unit
For CADD-Prizm* pumps, all models		
Navy 50-/ 100-ml Pump Pouches	21-6129-24	10/box
Navy 250-/500-ml Pump Pouches	21-6131-24	10/box
For CADD-Legacy*pumps		
Multi-colour 50-/100-ml Pump Pouches Multi-colour 250-/500-ml Pump Pouches	21-6161-24 21-6163-24	10/box 10/box

Pouch Straps

Product	Product Code	Unit
Shoulder Strap For use with 50-/100-ml pump pouch	21-2352-24	each
Shoulder Strap For use with 250-ml, 250-/500-ml, and 1 litre pump pouches; 50-/100-ml and 250-/500-ml dual pump pouches; Lock Box	21-2353-24	each
Backpack Shoulder Strap	21-6125-24	each



External Power Source Components (for CADD-Prizm® pumps, all models)

Product	Product Code	Unit
Power Pack with Rechargable, Replaceable Battery AC adaptor required for use	21-3801-04 21-3801-03	each each
Ni-MH Replacement Battery For use with 21-3800 and 21-3801 power pack	21-3801-04 21-3802-23	each each
AC Adaptor 110 volts IUSAI Connector Note: This product is not CE marked	21-3815-01	each
AC Adaptor 220 volts (Europlug) Connector	21-3807-22	each
AC Adaptor 220 volts (UK) Connector	21-3809-20	each
AC Adaptor 240 volts Note: This product is not CE marked	21-3808-10	each

CADD-Prizm® Pump Accessories

Product	Product Code	Unit
Pole-mount Bracket Slides into recess on back of CADD-Prizm* pump or security shell to allow pole-mounting of pump or pump and security shell.	21-6118-24	each
Power and Data In/Out Cover Replacement cover for power and data in/out jack	21-6113-24	each





CADD-Legacy* Pump Accessories

Product	Product Code	Unit
Polemount Bracket Foruse with pole-mount bracket 121-61181	21-6210-24	each
For CADD-Legacy* 1, CADD-Legacy* PLUS and CADD-	Legacy PCA pumps	
AC Adaptor 220 volts (Europlug) Connector	21-6206-26	each
AC Adaptor 220 volts (UK) Connector	21-6204-20	each
AC Adaptor 240 volts (Japan) Note: This product is not CE marked	21-6208-09	each
AC Adaptor 240 volts [Australia] Note: This product is not CE marked	21-6209-10	each

Accessories

Product	Product Code	Unit
Battery Doors		
For CADD-Prizm® pumps - Standard	21-6110-24	each
For CADD-Legacy* pumps – Standard	21-6216-24	each
Pump Key for CADD-PCA*, CADD-Legacy* PCA and	CADD-Prizm* pumps	
Pump Key	21-2303-24	each
Remote Dose Cords		
For use with CADD-Prizm® pumps	21-5814-22	each
For use with CADD-Legacy® PCA pumps	21-6220-24	each



PC to Pump Communications (For use with CADD-Prizm® and CADD-Legacy® pumps)

Product	Product Code	UCP Number	Unit
CADD-DIPLOMAT* System For Clinicians: IMust choose items from 1 and 2 for entire system			
CD ROM for installing software on computer	21-6141-51	(01) 0 0610586 02224 4	each
For use with CADD-Prizm® pumps Interface cable/null modern cable to directly connect PC and CADD-Prizm® pump	21-6144-24	(01) 0 0610586 02590 0	each
For use with CADD-Legacy* pumps Interface cable/null modern cable to directly connect PC and CADD-Legacy* pump	21-6250-24	(01) 0 0610586 02177 3	each

Computer Requirements when using CADD-DIPLOMAT® System

486 or faster PC compatible computer (with an available 16 bit ISA slot for the internal modern) or an available RS232 serial port for an external modern.

Windows* 95 or higher, or windows NT* 4.0.

8MB RAM Iminimum).

Hard Drive with at least 20MB available.



Sharps safety devices

Smiths Medical is helping to protect healthcare workers from exposure to sharps injuries through the introduction of a range of sharps safety devices.

At Smiths Medical, safety is the number one priority. The primary goal is to promote safety in every way and to create the safest possible environment for healthcare workers. Smiths Medical has been a leader in the prevention of blood-borne pathogen exposure and sharps safety for more than ten years. It continues to develop and introduce new and improved products that make sharps use as safe as possible for clinicians and healthcare workers.

The Smiths Medical POINT-LOK® device is handy enough to slip into a pocket and can be supplied as an individual item or incorporated into Select Custom Kits, providing effective protection for sharps from 16-30 gauge.



51

The Hypodermic Needle Pro* Ranges are available as individual items or pre-attached to syringes.

Specification

Hypodermic Needle Pro* – Syringe and Needle with Needle Protection Device

yringe	Needle Gauge	Colour	Product Code
ml	25Gx 25mm (1*)	orange	4211
ml	20G x 38mm (11/21)	yellow	4230
ml	20Gx 25mm[1"]	yellow	4231
ml	21G x 38mm (11/2*)	deep green	4232
ml	21Gx 25mm[1"]	deep green	4233
ml	22G x 38mm (11/2*)	black	4234
ml	22Gx 25mm(1*)	black	4235
ml	23Gx 25mm (1*)	deep blue	4236
ml	25Gx 16mm (⁵ /8")	orange	4237
ml	25G x 25mm (1*)	orange	4238
ml	20G x 38mm (11/2*)	yellow	4250
ml	20Gx 25mm[1"]	yellow	4251
ml	21Gx 38mm (11/2*)	deep green	4252
ml	22G x 38mm [11/21]	black	4254
Oml	20G x 38mm (11/21)	yellow	4260
Oml	20Gx 25mm (1*)	yellow	4261
Oml	21G x 38mm (11/21)	deep green	4262
ml Luer slip vith rotating Jeedle-Pro levice	25G x 16mm (⁵ /8'')	orange	4310
ml Luer slip vith rotating leedle-Pro levice	26G x 13mm (1/2")	brown	4312E
ml Luer slip vith rotating Veedle-Pro Vevice	27G x 13mm (1/2")	grey	4313

Supplied in packs of 400 Conforms to ISO Colour Codes

Specification	
Hypodermic Needle Pro® –	
Needle with Needle Protection	Device

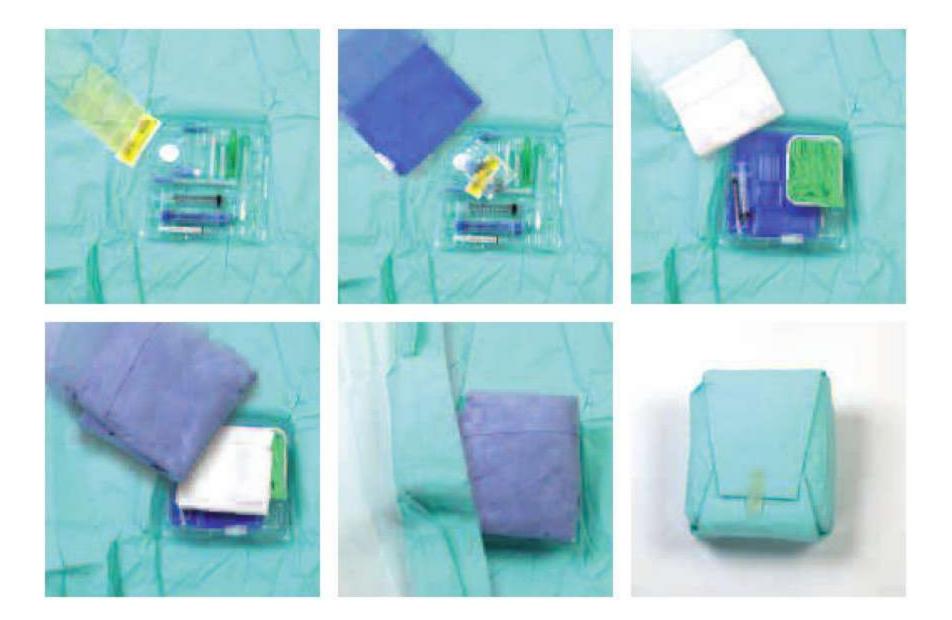
Needle Gauge	Colour	Product Code
18G x 38mm (11/2")	pink	4280
186 x 25mm (1")	pink	4281
196 x 38mm (11/2")	cream	4282E
196 x 25mm [1"]	cream	4283E
20G x 38mm (11/2")	yellow	4284
20G x 25mm (1")	yellow	4285
21G x 38mm (11/2")	deep green	4286
216 x 25mm [1"]	deep green	4287
22G x 38mm [11/2"]	black	4288
22G x 25mm (1")	black	4289
22G x 31mm [11/4"]	black	4296
236 x 25mm (1")	deep blue	4290
236 x 31mm [11/4"]	deep blue	4297
25G x 16mm (5/8")	orange	4291
25G x 25mm (1")	orange	4292
25G x 16mm [⁵ /8°] with rotating Needle- Pro device	orange	4320*
266 x 13mm [1/2"] with rotating Needle-Pro device	brown	4322E*
276 x 13mm [1/2"] with rotating Needle-Pro device	grey	4323*

* For use with Luer slip syringes only. Supplied in packs of 800 Conforms to ISO Colour Codes

smiths

Select Custom Kits

Selected by you, assembled by Smiths Medical



PAINMANAGEMENT

SELECT CUSTOM KITS

Just as all patients are individuals, so are the health professionals who care for them. Smiths Medical supplies standard ready-to-use packs for a number of procedures. We also supply Select Custom Kits, allowing us to treat our customers as individuals.

THE SELECT CUSTOM KIT service gives you the opportunity to customise your own kits to suit personal component preferences and operational needs.

With a Select Custom Kit all components are at hand ready for a procedure with the exact items specified in one convenient package. This reduces waste, and saves you time and money.

You assess the You discuss your We prepare a sample and request requirements with quote and sample changes where your local sales for your approval necessary or specialist approve kit You agree to We produce You order price and your kit contract terms

THE SELECT CUSTOM KITTING PROCESS

FOR MORE DETAILS CONTACT YOUR LOCAL SMITHS MEDICAL REPRESENTATIVE

THE DETAILS GIVEN IN THIS LEAFLET ARE CORRECT AT THE TIME OF GOING TO PRESS. THE COMPANY RESERVES THE RIGHT TO IMPROVE THE EQUIPMENT SHOWN.

For further information please call your local Smiths Medical distributor or Smiths Medical on +44 (0)1303 260551

Smiths Medical International Ltd Hythe, Kent CT21 6JL UK Tel: +44 (0)1303 260551 Fax: +44 (0)1303 266761 www.smiths-medical.com

smiths

Smiths is a trademarks of Smiths Group plc. Literature No. LIT/PM/2563

Smiths Medical - a part of Smiths Group plc





Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 13485:2016 & EN ISO 13485:2016

This is to certify that:

Smiths Medical ASD Inc. 6000 Nathan Lane North Minneapolis Minnesota 55442 USA

Holds Certificate Number:

MD 669191

and operates a Quality Management System which complies with the requirements of ISO 13485:2016 & EN ISO 13485:2016 for the following scope:

Please see scope page.

JM SI

For and on behalf of BSI:

Stewart Brain, Head of Compliance & Risk - Medical Devices

Original Registration Date: 2017-08-16 Latest Revision Date: 2019-02-28



U K A S INNACEMENT SYSTEMS , nead of compliance & Risk - Medical Devices

Effective Date: 2017-08-16 Expiry Date: 2020-08-15

Page: 1 of 6

...making excellence a habit."

This certificate was issued electronically and remains the property of BSI and is bound by the conditions of contract. An electronic certificate can be authenticated <u>online</u>. Printed copies can be validated at www.bsigroup.com/ClientDirectory

Registered Scope:

The design, development and manufacturing of: Sterile Disposable infusion kits including cassette, tubes, connectors, needles Sterile Blood and Fluid Warmers disposables sets Sterile Central Implantable Access Systems Sterile Peripheral Implantable Access Systems Sterile and non-sterile vital sign monitoring probes Sterile Needles and Introducer for Implantable Access Sterile Catheters and accessories Sterile Blood Sampling Devices Sterile Respiratory Therapy Devices and positive airway pressure therapy Sterile Catheter Connectors, Loss of Resistance Devices Syringes, Epidural Filters Epidural Needles, Hypodermic Needles and **Introducer Needles** Sterile Spinal and combined spinal/epidural needles including correct inject spinal needles Devices Sterile Positive expiratory pressure therapy systems Sterile and non-sterile Breathing Systems and Circuits including -Sterile and non-sterile Applications for patient Intubation -Sterile Tracheostomy Tubes and Kits -Sterile and non-sterile Oxygen and Humidity Management, -Non-Sterile Resuscitation, -Non-Sterile filter, -And Sterile and Non-Sterile tracheostomy accessories Sterile Disposable Pressure Monitoring tubes, connectors and transducers Sterile Suction Catheters Sterile Drainage Devices Sterile Feeding devices Sterile Cardiothoracic Catheters Patient warming units Blood and Fluid Warmers units Infusion Pumps for hospital and home use Infusion Application Software Sterile and non sterile convective warmers blankets and accessories Medical Gas Administration Accessories Gas Powered Emergency and Transport Ventilators and Resuscitators Anesthetic Ventilators Monitors and Related Equipment Non-Sterile Nebulizers

Original Registration Date: 2017-08-16 Latest Revision Date: 2019-02-28 Effective Date: 2017-08-16 Expiry Date: 2020-08-15

Page: 2 of 6

This certificate was issued electronically and remains the property of BSI and is bound by the conditions of contract. An electronic certificate can be authenticated <u>online</u>. Printed copies can be validated at www.bsigroup.com/ClientDirectory

Registered Scope:

Sterile Regional Anesthesia Devices

Sterile Needle safety devices and cough sampling devices and catheters securing devices and kit for applying local anesthesia Interventional Imaging Devices

Sterile Pain Management Devices

Document Control, Post Market Risk Management, Customer Complaints, Global Sourcing, Regulatory Affairs, Servicing, distribution.



Original Registration Date: 2017-08-16 Latest Revision Date: 2019-02-28

Effective Date: 2017-08-16 Expiry Date: 2020-08-15

Page: 3 of 6

This certificate was issued electronically and remains the property of BSI and is bound by the conditions of contract. An electronic certificate can be authenticated <u>online</u>. Printed copies can be validated at www.bsigroup.com/ClientDirectory

Location

Smiths Medical ASD Inc. 3350 Granada Avenue North Oakdale Minnesota 55128 USA

Registered Activities

The manufacture of: Sterile Catheters and Accessories Sterile and non sterile convective warmers blankets and accessories Patient warming units Sterile and non sterile vital sign monitoring probes Blood and Fluid Warmers units Sterile Blood and Fluid Warmers disposables sets Infusion Application Software Infusion Pumps for hospital and home use Sterile Disposable infusion kits including cassette, tubes, connectors, needles Medical Gas Administration Accessories Servicing, distribution



Original Registration Date: 2017-08-16 Latest Revision Date: 2019-02-28

Effective Date: 2017-08-16 Expiry Date: 2020-08-15

Page: 4 of 6

This certificate was issued electronically and remains the property of BSI and is bound by the conditions of contract. An electronic certificate can be authenticated <u>online</u>. Printed copies can be validated at www.bsigroup.com/ClientDirectory

Registered Activities Location Smiths Medical ASD Inc. The design, development and manufacturing of: Sterile Disposable infusion kits including cassette, tubes, 6000 Nathan Lane North connectors, needles Minneapolis Sterile Blood and Fluid Warmers disposables sets Minnesota Sterile Central Implantable Access Systems 55442 Sterile Peripheral Implantable Access Systems USA Sterile and non-sterile vital sign monitoring probes Sterile Needles and Introducer for Implantable Access Sterile Catheters and accessories Sterile Blood Sampling Devices Sterile Respiratory Therapy Devices and positive airway pressure therapy Sterile Catheter Connectors, Loss of Resistance Devices Syringes, Epidural Filters Epidural Needles, Hypodermic Needles and Introducer Needles Sterile Spinal and combined spinal/epidural needles including correct inject spinal needles Devices Sterile Positive expiratory pressure therapy systems Sterile and non-sterile Breathing Systems and Circuits including -Sterile and non-sterile Applications for patient Intubation -Sterile Tracheostomy Tubes and Kits -Sterile and non-sterile Oxygen and Humidity Management, -Non-Sterile Resuscitation, -Non-Sterile filter, -And Sterile and Non-Sterile tracheostomy accessories Sterile Disposable Pressure Monitoring tubes, connectors and transducers Sterile Suction Catheters Sterile Drainage Devices Sterile Feeding devices Sterile Cardiothoracic Catheters Patient warming units Blood and Fluid Warmers units Infusion Pumps for hospital and home use Infusion Application Software Sterile and non sterile convective warmers blankets and accessories Medical Gas Administration Accessories Gas Powered Emergency and Transport Ventilators and Resuscitators Anesthetic Ventilators Monitors and Related Equipment Non-Sterile Nebulizers Sterile Regional Anesthesia Devices

Original Registration Date: 2017-08-16 Latest Revision Date: 2019-02-28

Effective Date: 2017-08-16 Expiry Date: 2020-08-15

Page: 5 of 6

This certificate was issued electronically and remains the property of BSI and is bound by the conditions of contract. An electronic certificate can be authenticated <u>online</u>. Printed copies can be validated at www.bsigroup.com/ClientDirectory

Location

Registered Activities

Sterile Needle safety devices and cough sampling devices and catheters securing devices and kit for applying local anesthesia Interventional Imaging Devices Sterile Pain Management Devices Document Control, Post Market Risk Management, Customer Complaints, Global Sourcing, Regulatory Affairs, Servicing, distribution.



Original Registration Date: 2017-08-16 Latest Revision Date: 2019-02-28

Effective Date: 2017-08-16 Expiry Date: 2020-08-15

Page: 6 of 6

This certificate was issued electronically and remains the property of BSI and is bound by the conditions of contract. An electronic certificate can be authenticated <u>online</u>. Printed copies can be validated at www.bsigroup.com/ClientDirectory

EC Certification



EC DESIGN EXAMINATION CERTIFICATE Directive 93/42/EEC for Medical Devices, Annex II (4)

We hereby declare that a design examination has been carried out on the devices(s) listed hereafter following the requirements of the UK national legislation to which the undersigned is subjected, transposing Annex II Section 4 of the Directive 93/42/EEC on medical devices. We certify that the design of the device(s) listed hereafter conforms with the relevant provisions of Annex II Section 4 of the aforementioned legislation, and the result entitles the organization to use the CE 0473 marking on those products^{*}.

SMITHS MEDICAL DEUTSCHLAND GmbH

Bretonischer Ring 3, D-85630 Grasbrunn, Germany

Central venous catheters:

- standard sets
- standard kits
- custom sets

*For CE marking the class III devices covered by this certificate, an EC certificate according to Annex II (3) is also required.

Certificate Number:119-05 B DEInitial Certification Date:01 September 2006Certificate Effective Date:07 March 2017Certificate Expiry Date:06 March 2022

ntertek Intertek Interio



Barry A. Fitch AMTAC Certification Services Limited, Milton Keynes, UK This certificate is the property of AMTAC Certification Services Ltd

In the issuance of this certificate, Intertek assumes no liability to any party other than to the Client, and then only in accordance with the agreed upon Certification Agreement. This certificate's validity is subject to the organization maintaining their system in accordance with Intertek's requirements for systems certification. Validity may be confirmed via email at <u>certificate.validation@intertek.com</u> or by scanning the code to the right with a smartphone.

This Certificate is for the exclusive use of AMTAC's client and is provided pursuant to the agreement between AMTAC and its Client. AMTAC's responsibility and liability are limited to the terms and conditions of the agreement. AMTAC assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate. Any use of the AMTAC name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by AMTAC.

The certificate remains the property of Intertek, to whom it must be returned upon request.

The certification is subject to the organization maintaining their system in compliance with the regulations stated in this certificate, allowing regular assessments and following the contracted requirements of the Notified Body.

AMTAC Certification Services Limited is a Notified Body according to Directive 93/42/EEC for medical devices, with identification number 0473.

