

smiths

## Epidural Systems

making life less painful



**PAINMANAGEMENT**

# LEADING THE FIELD IN PAIN MANAGEMENT



As part of Smiths Medical's pain management range, the name Portex® has been a name synonymous with high quality, for over half a century. Established leaders in the epidural market, the Portex® epidural product range has been developed from a clear understanding of anaesthetists' needs and an unsurpassed attention to detail.

## Developing Epidural Pain Control

The development of the Portex® pain management product range over the last 30 years has helped set high standards of patient care worldwide. After being the first to produce an epidural catheter for Obstetric anaesthesia in the early 1970s, Portex® went on to pioneer 'single-use' devices in the 1980s. The Portex® Minipack was the first single-use kit designed specifically for epidural procedures and included the Portex® LORD, the first, disposable, low friction loss of resistance device. Its phenomenal success has led to the name 'Minipack' being used generically within the medical profession to describe a basic, single-use, epidural procedure kit. This was followed by the Maxipack, which provides the anaesthetist with a comprehensive, fully disposable epidural procedure kit.

In the last decade, despite constant growth in new techniques, Portex® have kept up to date and responded with innovative product developments. This commitment has been reflected in both epidural/spinal systems and the service offered to customers. In 1996, an atraumatic spinal needle range was



introduced to complement the epidural product portfolio. Then in 1998, the Portex® CSEcure® CSE needle locking system gave the anaesthetist greater control and safety during combined epidural/spinal procedures. This was followed in 1999 by the LOCKIT® catheter fixation device, launched in response to the well-documented incidence of epidural catheter migration during post-operative patient management.

Recognising that procedural techniques vary and that epidural techniques are employed in many clinical areas, including intra-operative, post-operative and chronic pain applications, Portex® pioneered a custom-kitting service allowing the anaesthetist to custom design a procedural tray to reflect their individual needs.

#### **Global reach**

With manufacturing sites in both Europe and North America, the Smiths Medical's pain management range is available in over 90 countries worldwide. Reflecting the Smiths Medical commitment to strengthening presence in the global healthcare market, Portex® have been awarded with no less than three Queen's Awards for export.

#### **Unsurpassed Attention to Detail**

Understanding the importance of high quality and safety in any epidural procedure, we have listened to the needs of anaesthetists and are constantly striving to maintain the standards you would expect from a world-class medical device manufacturer. This commitment is reflected in the high attention to detail undertaken in our manufacturing processes, with all catheters and needles being hand finished under controlled and clean room conditions. Portex quality systems are all ISO 9001 compliant and all products are CE marked where appropriate under the EC Medical Device Directive, 93/42/EEC 14 June 1993.

# DELIVERING EFFECTIVE PAIN RELIEF



Epidural Tuohy Needles



Epidural Filter

Epidural Connector

Epidural Catheter

## Epidural Tuohy Needles

- Optimised tip profile to maximise the all-important tactile feel during needle insertion.
- Internal stylet is hand trimmed flush to the needle tip to prevent tissue coring on insertion.
- 10mm graduations to identify needle depth.
- Optional snap on wing.
- For adults, choice of 16G, 18G or 19G available in 80mm length or 110mm extra length with 10mm graduations.
- For paediatrics, choice of 18G or 19G available in 50mm length with 5mm graduations.

## Epidural Filter

- 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).

## Epidural Connector

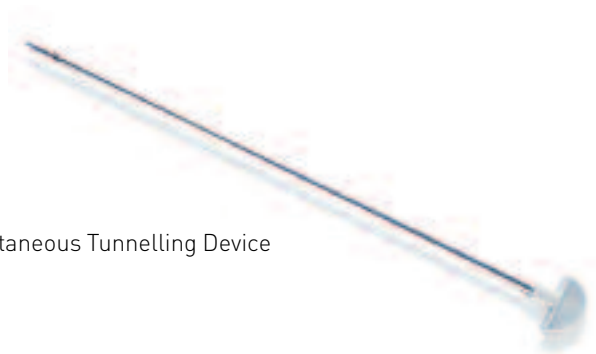
- Designed to be fully tightened for optimal catheter security whilst maintaining full patency.
- Standard Luer lock connection.

## Epidural Catheter

- Smooth tip forming to minimise trauma during insertion.
- Distal tip mark to aid visual confirmation of complete catheter on removal.
- Manufactured from a clear blend of Polyether block amide for optimum clarity, strength and kink resistance.
- Confirmed patency and consistent flow rates achieved through 100% flow testing after manufacture.
- Available in 16G, 18G or 19G with a choice of distal tip geometry.
- Paediatric catheter 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.<sup>1</sup>



Loss of Resistance Device



Subcutaneous Tunnelling Device



The LOCKIT® Catheter Fixation Device

## Subcutaneous Tunnelling Device

- Designed to aid subcutaneous placement of epidural catheters, the atraumatic tip prevents damage to the major blood vessels.
- 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, 20cm or 35cm to suit individual technique.

## Loss of Resistance Device

- 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.

## The LOCKIT®

- **Designed to prevent the common problem of catheter migration giving peace of mind.**
- Unique Epidural Catheter Fixation device available for both 16G and 18G catheters.
- Simple locking mechanism and adhesive foam pad makes it easy to apply.
- Maintains catheter patency.
- Transparent to enable monitoring of catheter exit site.
- Available individually packed in cartons of 20 or in Epidural Minipacks.

## References

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

# DELIVERING EFFECTIVE PAIN RELIEF



## Epidural Minipack 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.

## Maxipack Systems

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 and 18G variants. Supplied in cartons of 10.

## Sharps Safety Devices

Description	Product Code
Point-Lok®	4139



Supplied in packs of 10 x 100

## Epidural Minipacks System 1

Tuohy Needle Gauge	Length	With Attachable Wings	Clear Catheter with Connector & Guide	Plastic LORD Size	Catheter Identification Label	0.2µm Epidural Filter	Product Codes
16G	80mm	•	Open End	10ml	•	•	100/391/016
16G	80mm	•	Closed End 3 Eyes	10ml	•	•	100/391/116
16G	110mm	•	Closed End 3 Eyes	10ml	•	•	100/391/516
16G	80mm	•	Closed End 3 Closer Eyes	10ml	•	•	100/391/816
16G	80mm	•	Closed End 3 Eyes	7ml	•	•	M477*
17G	80mm	•	Open End	7ml	•	•	G747*
17G	80mm	•	Closed End 3 Eyes	7ml	•	•	G998*
18G	80mm	•	Open End	10ml	•	•	100/391/018
18G	80mm	•	Closed End 3 Eyes	10ml	•	•	100/391/118
18G HD (Higher Stiffness)	80mm	•	Closed End 3 Eyes	10ml	•	•	100/391/318
18G	110mm	•	Closed End 3 Eyes	10ml	•	•	100/391/518
18G	80mm	•	Closed End 3 Closer Eyes	10ml	•	•	100/391/818
18G	80mm	•	Open End	7ml	•	•	G749*
18G	80mm	•	Closed End 3 Eyes	7ml	•	•	G748*
19G	80mm	•	Open End	10ml	•	•	100/391/190

Supplied in packs of 10

\*Supplied in packs of 20

## 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 Codes
18G	50mm	•	Closed End 3 Closer Eyes	10ml	•	•	100/391/180
19G	50mm	•	Open End	10ml	•	•	100/391/019

Supplied in packs of 10

## 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 Codes
16G	80mm	•	Closed End 3 Eyes	10ml	•	•	100/391/716
18G	80mm	•	Closed End 3 Eyes	10ml	•	•	100/391/718

Supplied in packs of 10

# DELIVERING EFFECTIVE PAIN RELIEF



## Sharps Safety Devices

Description	Product Code
Point-Lok®	4139



Supplied in packs of 10 x 100



## Epidural Minipacks System 2

Tuohy Needle Gauge	Length	With Attachable Wings	Clear Catheter with Connector & Guide	Catheter Identification Label	0.2µm Epidural Filter	Product Codes
16G	80mm	•	Clear Closed End 3 Eyes	•	•	100/392/116*
17G	80mm	•	Clear Open End		•	E623
17G	80mm	•	Clear Closed End 3 Eyes		•	F948
17G	80mm	•	Radio Opaque Closed End 3 Eyes		•	F950
17G	80mm	•	Clear Closed End 3 Eyes		•	M123
18G	80mm	•	Clear Closed End 3 Eyes	•	•	100/392/118*
18G	80mm	•	Clear Closed End 3 Eyes		•	G746
18G	80mm	•	Clear Closed End 3 Eyes		•	F949
18G	80mm	•	Clear Closed End 3 Eyes		•	M125

Supplied in packs of 20

\*Supplied in packs of 10

## Epidural Minipacks System 3

Clear Catheter with Connector & Guide	Catheter Identification Label	0.2µm Epidural Filter	Product Codes
16G Closed End 3 Eyes	•	•	100/393/116
18G Closed End 3 Eyes	•	•	100/393/118

Supplied in packs of 10

## Epidural Minipacks System 4

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

Supplied in packs of 10

## SELECT CUSTOM KIT SERVICE



### Select Custom Kit Service

Smiths Medical recognises that health professionals are as individual as their patients. The Select Custom Kit 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-savings are made 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.

# ORDERING INFORMATION FOR SINGLE ITEMS



## Catheter Specification

Clear Catheter Type	For use with needle gauge	Length	Nominal Diameter mm Internal	External	Product Codes
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	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
19G Open End	16G	915mm	0.55	1.01	G994/61
19G Closed End 3 Eyes	16G	915mm	0.55	1.01	G995/61
20G Open End	18G	915mm	0.46	0.86	G996/61
20G Closed End 3 Eyes	18G	915mm	0.46	0.86	G997/61

Catheters gauged to suit the epidural needle through which insertion is intended. Supplied in packs of 10

Actual catheter gauge.

Supplied in packs of 10

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## ORDERING INFORMATION FOR SINGLE ITEMS

### Tuohy needles (boxes of 10)

Needle Gauge	Length	Product Codes
18G Paediatric	50mm (clear hub)	100/395/018
19G Paediatric	50mm (clear hub)	100/395/019
16G	80mm	100/395/160
18G	80mm	100/395/180
17G	80mm (clear hub)	L727/61 *
18G	80mm (clear hub)	L728/61 *
16G	110mm (clear hub)	100/395/560
18G	110mm (clear hub)	100/395/580

Supplied sterile, individually packed in cartons of 10

\* Supplied sterile, individually packed in cartons of 20

### Loss of resistance device (boxes of 10)

	Product Codes
10ml Capacity	100/398/000

### Tunneling devices (boxes of 10)

Size	Detail	Product Codes
200mm	Tunnelling device	100/387/020
350mm	Tunnelling device	100/387/035

### LOCKIT® Epidural Catheter fixation device (boxes of 20)

Description	Product Codes
LOCKIT® Epidural Catheter Fixation Device 16G	100/399/016
LOCKIT® Epidural Catheter Fixation Device 18G	100/399/018

### Epidural filters (boxes of 10)

Filter	Detail	Product Codes
Flat	0.2 micron filter 0.75ml priming volume	100/386/010
Disc	0.2 micron filter 0.36ml priming volume	100/385/010



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