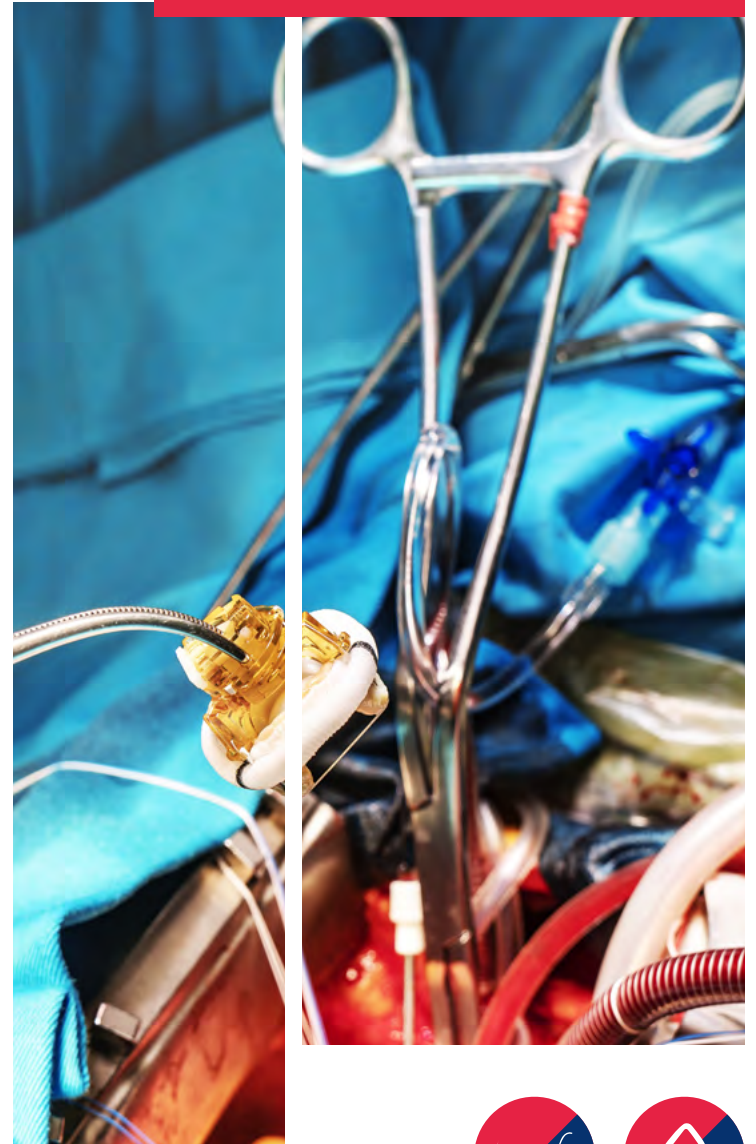





# Cardiovascular Surgeries solutions



Sutures  
Titanium Hemostatic Clips  
Temporary Vascular Occlusion Devices





Peters Surgical designs a **full range of Sutures, Clips and temporary vascular occlusion devices**, which are in line with cardiovascular surgery needs during on-pump or off-pump procedures



## Specific procedures

P. 8 - 16

### Coronary Bypass

On-pump & Off-pump  
p. 8

### Valves Replacement & Repair

p. 12

### Aortic Surgeries

p.14

### Minimally Invasive Cardiovascular Surgeries

p. 15

### Congenital Heart Surgeries

p. 16

# Our Solutions.

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## Sutures.

At the heart of Peters Surgical experience and know-how, our sutures are the result of a long-term collaboration with Professor Alain Carpentier.

Today, we offer a wide range of absorbable and non-absorbable sutures.



## Clips-VTO.

Our knowledge in clips and appliers technology for open and laparoscopic surgeries benefits from international recognition.



# Opening and Exposure of The Heart.

## Pericardial suspension

### Polytresse®

Non absorbable suture, coated polyester braid



- **Very good knot strength** to prevent suture tear/fracture
- **Great slide** thanks to silicone coating
- **Strong needle and good ductility** made of A300 series stainless steel

## Hemostasis of mediastinal arteries & veins

### SLS-Clip & Clip 9 Vitalitec®

Pure titanium & chevron-shaped clip



- **Clips sizes adapted** to perform hemostasis on various vessel configurations



- **Non-slip closure on the vessels** thanks to interlocking atraumatic teeth and internal structure made up of small diamond shape



- Specific treatment and shape of the applier jaw inner surface to help **secure the grip of the clip** in the applier until applied to a vessel

Product's recommendation by Peters Surgical

| Suture brand | USP    | Needle tip | Needle curvature, length | Suture length | Qty suture used |
|--------------|--------|------------|--------------------------|---------------|-----------------|
| Polytresse®  | 0 to 3 | Cutting    | 1/2c, 22 to 48 mm        | 75 cm         | 2 to 4          |

| Clip cartridge | Height clip closed | Qty clip used |
|----------------|--------------------|---------------|
| Medium/blue    | 5,6 mm             | 4             |

| TOP ORDER CODES |             |                             |
|-----------------|-------------|-----------------------------|
| <b>91S40E</b>   | Polytresse® | 1/2 T, 36 mm, 75cm          |
| <b>91S40C</b>   | Polytresse® | 1/2 T, 30 mm, 75cm          |
| <b>B9180</b>    | Clip medium | Height clip closed : 5,6 mm |

# Cardiopulmonary Bypass Setup<sup>1</sup>.

## Aortic and venous purse-strings for cannulation

### Cardioxyl®

Non absorbable suture, polyester coated braid



- **Great glide** through the tissue due to the silicone coating in order to facilitate cannula's setup.



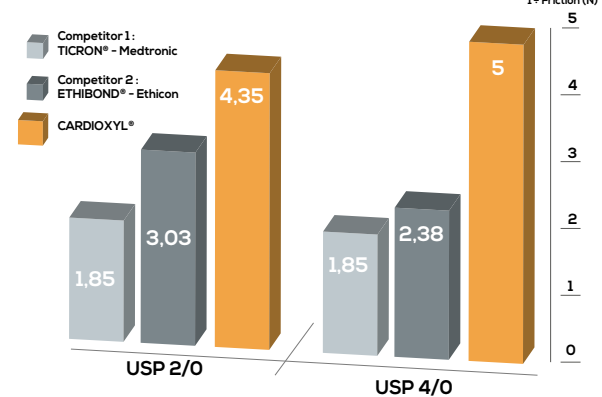
- **High knot strength** for better fixing the cannula.



- **KL needle** for better penetration of calcified or sclerous tissues
- **Preloaded pledgets** for assisting ligation of thin or fragile tissue and preventing trauma



Thread gliding properties comparison <sup>2</sup>



Product's recommendation by Peters Surgical

| Suture brand                       | USP        | Needle tip | Needle curvature, length  | Suture length | Qty suture used             |
|------------------------------------|------------|------------|---------------------------|---------------|-----------------------------|
| Cardioxyl® / Cardioflon® Evolution | 2/0 or 3/0 | KL needle  | 1/2c or 3/8c, 17 to 22 mm | 75 cm         | 1 to 2 per cannulation site |

#### TOP ORDER CODES

|                |                           |                         |
|----------------|---------------------------|-------------------------|
| <b>73S20F</b>  | Cardioxyl® 3/0            | 3/8 KL, 18 mm, DA 75 cm |
| <b>19S30AK</b> | Cardioflon® Evolution 2/0 | 3/8 KL, 20mm, DA 75 cm  |

1. For cardiovascular surgeries, surgeons can sometimes prefer a beating-heart technique requiring no CPB, no cannulation and no aortic cross-clamping.

2. Study SPS008-1207EN, Peters surgical R&D service. The data reported come from a study on an animal model, the observed effects of which cannot be extrapolated to a possible benefit in humans.

# Aortic cross-clamping

## Cygnets® & Intrack®

Surgical flexible clamps with atraumatic single-use inserts

### Cygnets®

- **A rigid shaft** enables tunnelling in a deep operative field.



- **Flexible shaft** for maneuvering hard-to-reach surgical areas

### Intrack® Inserts Ultra



- **Atraumatic** insert design
- **Traction** to prevent slippage
- **Strong** hold on the vessel
- **Match** all clamp jaw configurations, even curved ones

### OTHER CLAMP

#### Bahnsen clamp







Product's recommendation by Peters Surgical

#### TOP ORDER CODES

|          |                             |                    |
|----------|-----------------------------|--------------------|
| V-10142  | Cygnets® Aortic cross clamp | 66 mm straight jaw |
| N-10174V | Intrack® Inserts Ultra      | 66 mm              |

### INSERTS RANGE

Provided length in choice of 33/66/86 mm

| types   | Description                                  |
|---|--|
|  Ultra           | Atraumatic insert design                     |
|  Conforming      | Extremely soft and compliant                 |
|  Traction        | Combining a traction and conformity features |
|  Double traction | Higher degree of traction                    |

# Coronary Bypass.

## Hemostasis & separation of collaterals branches

### SLS-Clip & Clip 9 Vitalitec®

Pure titanium & chevron-shaped clip

6 sizes and 2 cartridge models



Clip 9 VITALITEC®  
9 Clips/cartridge\*



SLS-Clip VITALITEC®  
6 Clips/cartridge

- **Clips sizes** adapted to perform hemostasis on various vessel configurations.
- **Number of clips per cartridge** better suited for number of clips used per procedure

Product's recommendation by Peters Surgical

| TOP ORDER CODES |              |              |              |              |
|-----------------|--------------|--------------|--------------|--------------|
| Medium          | Small/Medium | Small        | Small        | Micro        |
| <b>B9180</b>    | <b>L9180</b> | <b>R9180</b> | <b>J9180</b> | <b>W9060</b> |
| 5,6 mm***       | 4,7 mm***    | 3,6 mm***    | 3,6 mm***    | 2,6 mm***    |

\* Except for Medium/Large and Large size : 6 Clips per cartridge  
\*\*\* Height clip closed

## Grafts clamping

### Atraumatic Single-use spring clip (Bulldogs)

Possible to apply manually or with the help of a specific applicator



- **Greyhound®**  
3 adjustable pressure started with 1/2 force (1<sup>st</sup> position); 3/4 force (2<sup>nd</sup> position) then full force (3<sup>th</sup> position)



- **Sofia Vitalitec®** soft elastomeric pads to reduce the risk of vascular trauma
- 3 available intensities of clamping forces :1/4 Force, 1/2 Force, 3/4 Force



- **Novaclip®** Lightweight and more refined profile
- Jaws opening until 17 mm

| TOP ORDER CODES |           |                                |
|-----------------|-----------|--------------------------------|
| <b>N-10113</b>  | Novaclip® | 12mm, 1/2 force, Angled yellow |

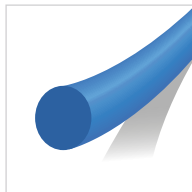
# Anastomosis

## Corolene®

Non absorbable suture, polypropylene monofilament



- **Coropak® or 4-Pak®** Packaging «extended shuttle» reduce all shape memory and make needles access easier



- **Great flexibility** & glide properties
- **Knot strength** is either higher or equivalent to competitors<sup>1</sup>

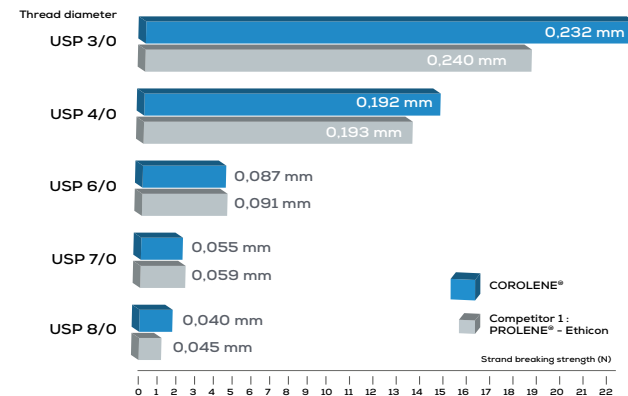


- **KL needle** for better penetration of calcified aortic annulus
- **Extrablack® needle** for improving visibility

Coropak®

4-Pak®

Comparison of breaking strength properties of polypropylene sutures<sup>1</sup>



Product's recommendation by Peters Surgical

| At least one per anastomosis | USP        | Needle tip  | Needle curvature, length | Suture length |
|------------------------------|------------|-------------|--------------------------|---------------|
| Distal anastomosis           | 7/0 or 8/0 | Round or KL | 3/8c, 6 to 10 mm         | 45 to 60 cm   |
| Proximal anastomosis         | 6/0 or 5/0 | Round or KL | 3/8c, 13 mm              | 75 cm         |

### TOP ORDER CODES

**20S04C** : 8/0, 3/8 R, 6.4 mm, DA 45 cm • **20S05D** : 7/0, 3/8 KL, 10 mm, DA 60 cm  
**20S07D** : 6/0, 3/8 R, 13 mm, DA 75 cm • **20S10C** : 5/0, 3/8 KL, 13 mm, DA 75 cm

<sup>1</sup> Study SPS008-1207EN, Peters Surgical R&D service. The data reported come from a study on an animal model (on anatomical subjects, in vitro, etc.), the observed effects of which cannot be extrapolated to a possible benefit in humans.



# Coronary Bypass Off-pump Surgeries.

## Partial clamping of the aorta

### Lambert-Kay clamp range

Clamp with curved jaw orientation

#### Cygnets® Lambert-Kay flexible clamp



Curve Jaw orientation

#### Lambert-Kay clamp



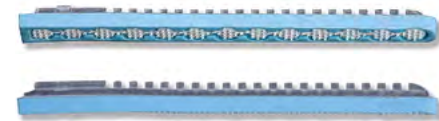
Product's recommendation by Peters Surgical

| Clamp type           | Jaws length    | Inserts design |
|----------------------|----------------|----------------|
| Cygnets® Lambert-Kay | 66 mm or 86 mm | Ultra          |

### Intrack®





Atraumatic single-use insert

#### Intrack® Inserts Ultra



- **Atraumatic** insert design
- **Traction** to prevent slippage
- **Strong** hold on the vessel
- **Match** curved clamp jaw configuration,

#### INSERTS RANGE

| types   | Description                                  |
|---|--|
|  Ultra           | Atraumatic insert design                     |
|  Conforming      | Extremely soft and compliant                 |
|  Traction        | Combining a traction and conformity features |
|  Double traction | Higher degree of traction                    |

#### TOP ORDER CODES

|                 |   |
|-----------------|---|
| <b>V-10143</b>  | Cygnets® Aortic cross clamp lambert-kay C-curve 66 mm |
| <b>N-10174V</b> | Intrack® inserts ultra 66 mm                          |

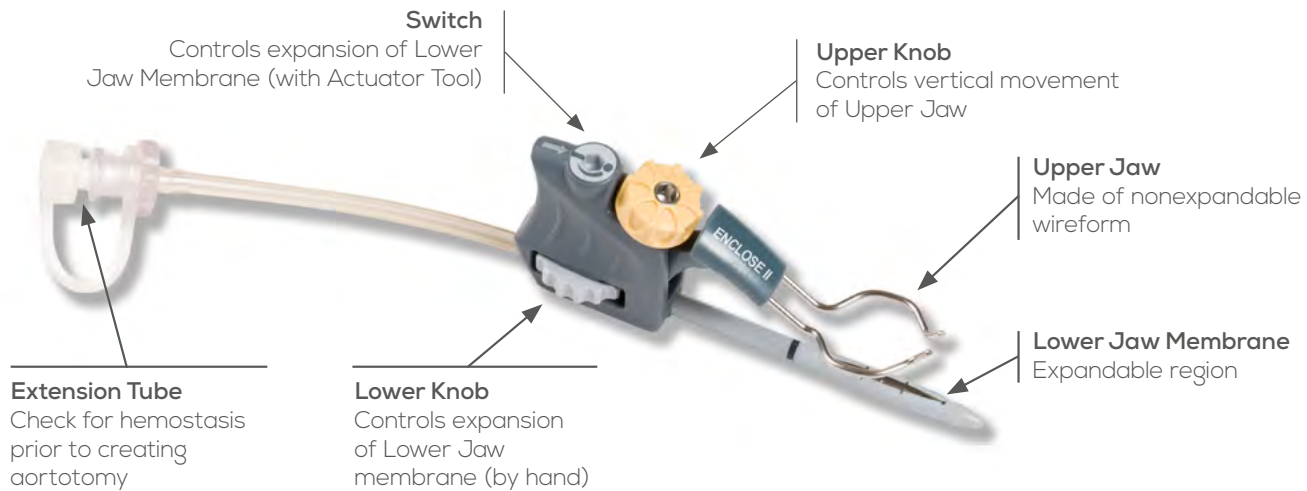
# Anastomosis without clamping

## Enclose® II

Proximal anastomosis assist device



- Designed to provide the surgeon with a **stable, bloodless field**.
- **Used in on-pump CABG** for those who perform proximal anastomosis after releasing the cross clamp.
- **Designed specifically** to obviate the need for partial clamping of the aorta.
- Allows **several anastomosis** from one insertion site\*.



Product's recommendation by Peters Surgical

| Product     | Aortic punch size        |
|-------------|--------------------------|
| Enclose® II | 3.5 mm / 4.0 mm / 4.5 mm |

| TOP ORDER CODES                                    |
|--|
| EN240V : Enclose®II kit Aortic punch size : 4.0 mm |

\* Depending on surgeon's technique

# Valve Replacement & Repair.

## Valve fixation or annuloplasty

### Cardioxyl® or Cardioflon® Evolution

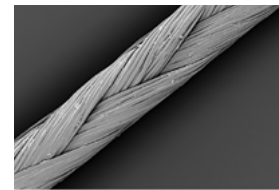
Non-absorbable suture, polyester coated braid

- **Great gliding properties** in order to facilitate parachuting
- **Round end pledget** could be placed side by side on a curved line without any overlapping
- **Low shape memory thanks to Multipak®**  
Specifically designed for procedure : 5 green + 5 white sutures per pack
- **KL needle** for calcified and sclerous tissues



### 2 sutures proposition depending on surgeon's reference :

The braid of **Cardioflon® Evolution** is tighter and less straight than **Cardioxyl®**



Cardioxyl® USP 2/0

- **Greater glide** in order to respect the tissues of the annulus and of the atrial endocardium.



Cardioflon® Evolution USP 2/0

- **Greater knot tensile strength**
- **Very strong hold** from 1<sup>st</sup> knot

Product's recommendation by Peters Surgical

| Suture brand                                | USP | Needle tip  | Needle curvature, Length | Suture length | Qty suture used |
|---|-----|-------------|--------------------------|---------------|-----------------|
| Cardioxyl® for Valve fixation               | 2/0 | Round or KL | 3/8c, 25 mm              | 75 to 90cm    | 18              |
| Cardioflon® Evolution for Ring annuloplasty | 2/0 | Round or KL | 3/8c, 26 mm              | 75 to 90cm    | 3               |

#### TOP ORDER CODES

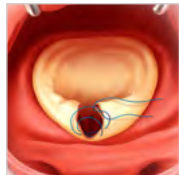
**73P30CA** 2/0, 3/8 R, 25 mm, DA 90cm Pledget Multipak  
**73P30L** : 2/0, 3/8 KL, 25 mm, DA 90cm Pledget Multipak

**19S30AQ**: 2/0, 3/8 KL, 25 mm, DA 75cm  
**19S20Q**: 3/0, 3/8 KL, 25 mm, DA 75cm

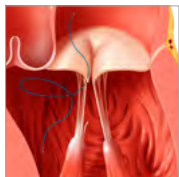
## Leaflets or chordae repair

### Cardionyl®

Non-absorbable suture, polyamide monofilament



- **High flexibility properties** taking into account the valve constraints, thanks to treated polyamide 6,6 thread.



- **Higher stress resistance** compared to the polypropylene and **higher elongation properties<sup>1</sup>** to repair the too long/short chordae

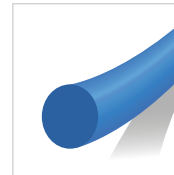


- **Available with or without preloaded pledget** (soft pledget Weavenit® or firm pledget Teflon®)

## Aortic or atrium closure

### Corolene®

Non absorbable suture, polypropylene monofilament



- **Great flexibility** & glide properties adapted to continuous suture
- **Knot tensile strength** is either higher or equivalent to competitors<sup>1</sup>



- **Coropak® or 4-Pak® Packaging «extended shuttle»** to reduce shape memory and make needles access easier



- **KL needle** for better penetration of calcified aortic annulus  
**Extrablack® needle** for improving visibility

Product's recommendation by Peters Surgical

| Suture brand                              | USP        | Needle tip  | Needle curvature, Length | Suture length | Qty suture used |
|---|------------|-------------|--------------------------|---------------|-----------------|
| Cardionyl® for leaflets or chordae repair | 4/0 or 5/0 | Round       | 3/8c, 16 mm              | 75 to 90cm    | 2 to 3          |
| Corolene® for atrium closure              | 4/0 or 5/0 | Round or KL | 3/8c, 18 to 26 mm        | 70 to 90 cm   | 2               |
| Corolene® for aorta closure               | 4/0 or 5/0 | Round or KL | 3/8c, 18 to 26 mm        | 70 to 90 cm   | 2               |

#### TOP ORDER CODES

**721072** : 5/0, 3/8 R, 16mm, DA 80cm  
**721812** : 4/0, 3/8 R, 20mm, DA 80cm  
**20S15D** : 4/0, 3/8 KL, 26 mm, DA 75cm  
**20S15C** : 4/0, 3/8 KL, 18 mm, DA 75cm

<sup>1</sup> Study SPSO10-0308, Peters surgical R&D service. The data reported come from a study on an animal model (on anatomical subjects, in vitro, etc.), the observed effects of which cannot be extrapolated to a possible benefit in humans.

# Aortic Surgeries.

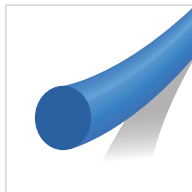
## Anastomosis

### Corolene®

Non absorbable suture, polypropylene monofilament



- **Coropak® or 4-Pak®**  
Packaging «extended shuttle» reduce all shape memory and make needles access easier



- **Great flexibility** & glide properties
- **Knot strength** is either higher or equivalent to competitors<sup>1</sup>

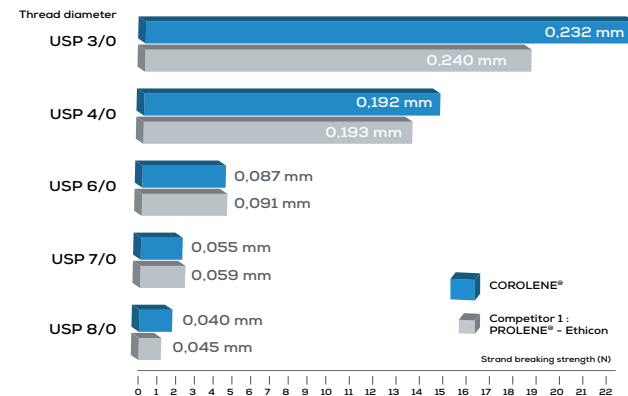


- **KL needle** for better penetration of calcified aortic annulus
- **Extrablack® needle** for better visibility

Coropak®

4-Pak®

Comparison of breaking strength properties of polypropylene sutures<sup>1</sup>



Product's recommendation by Peters Surgical

| At least one per anastomosis | USP        | Needle tip  | Needle curvature, length | Suture length | Qty suture used              |
|------------------------------|------------|-------------|--------------------------|---------------|------------------------------|
| Thoracic aneurysm            | 3/0        | Round or KL | 1/2c or 3/8c, 22 to 26mm | 75 cm         | At least one per anastomosis |
| Dissection -Tyrene David     | 6/0 or 7/0 | Round or KL | 1/2c or 3/8c, 10 to 13mm | 75 cm         | At least one per anastomosis |

#### TOP ORDER CODES

**20S20E** : 3/0, 1/2 R, 26 mm, 75 DA cm

**20S07D** : 6/0, 3/8 R, 13 mm, 75 DA cm

<sup>1</sup> Study SPS008-1207EN, Peters surgical R&D service. The data reported come from a study on an animal model (on anatomical subjects, in vitro, etc.), the observed effects of which cannot be extrapolated to a possible benefit in humans.

# Minimally Invasive Cardiovascular Surgeries.

## CABG or heart valve surgery

### Cardiovascular sutures for MICS

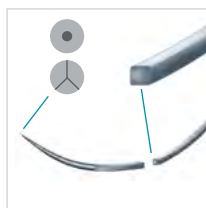
Large portfolio of non-absorbable sutures designed for each procedure

- Possible to personalize the specific sutures on request for the minimally invasive surgeries



### Advanced A300 series needles adapted to MICS

- Square body for more resistance and stability in the needle holder
- Extrablack® needle for better visibility
- KL needle for better penetration of calcified aortic annulus



Product's recommendation by Peters Surgical

| Procedure            | Suture brand   | Suture length | Needle length |
|----------------------|----------------|---------------|---------------|
| Anastomosis          | Corolene® 8/0  | 15 - 150 cm   | 5 - 75 cm     |
| Anastomosis          | Corolene® 4/0  | 15 - 150 cm   | 5 - 75 cm     |
| Annuloplasty         | Cardioxyl® 2/0 | 60 - 90 cm    | 10 - 25 cm    |
| Mitral valves repair | Cardionyl® 5/0 | 10 - 90 cm    | 8 - 48 cm     |

### Surgical flexible clamp Cygnet®



- **Flexible shaft** for maneuvering hard-to-reach surgical areas (see more information page 7)

### SLS-Clip & Clip 9 Vitalitec®



- **Endoscopic applicators range** for mini-invasive approach

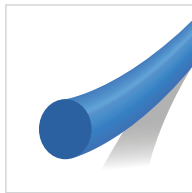
| TOP ORDER CODES                |                  |                           |
|--------------------------------|------------------|---------------------------|
| Cartridge Medium               | <b>B9180</b>     | Height clip closed 5,6 mm |
| Endoscopic Clip Applier Medium | <b>LCASLS4-1</b> | Ø 10mm - length 33 cm     |
| Cygnnet® Aortic cross clamp    | <b>V-10142</b>   | 66 mm straight jaw        |

# Congenital Heart Surgeries.

## Prosthesis, patch suture and closure

### Premio®

Non-absorbable suture, PVDF monofilament



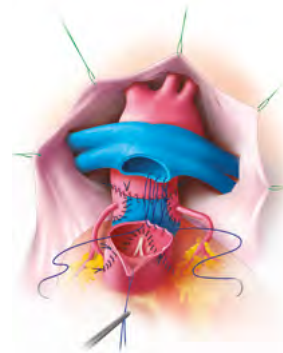
- **Great flexibility and high knot strength** over the years in order to tissues growth (PVDF properties)
- **Excellent glide** due to the manufacturing process with specific extrusion



- **Easier to handle and lower shape memory** with the sutures on reel

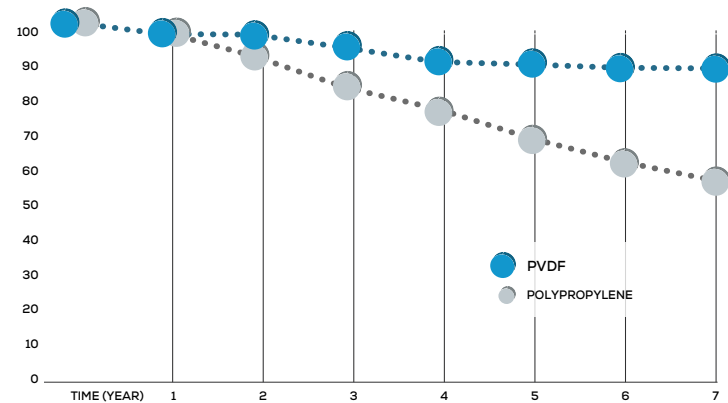


- Pre-loaded with **Weavenit®** (very soft pledget) or **soft Teflon®** pledget with various sizes



Comparison of residual tensile knot strength properties of polypropylene and PVDF sutures over the years<sup>1</sup>

Residual tensile knot strength (%)



Product's recommendation by Peters Surgical

| Procedure                   | USP        | Needle tip  | Needle curvature, Length | Suture length | Qty suture used |
|-----------------------------|------------|-------------|--------------------------|---------------|-----------------|
| ASD / VSD                   | 5/0        | Round or KL | 3/8c, 13 mm              | 75 cm         | 3 - 18          |
| Atrium / Ventricule closure | 4/0        | Round       | 1/2c, 13 mm              | 75 cm         | 2               |
| Aorta closure (COA / PDA)   | 5/0 to 7/0 | Round       | 1/2c, 18 to 26mm         | 75 cm         | 2               |

#### TOP ORDER CODES

**26S10C:** 5/0, 3/8 R, 13mm, DA 75cm

**26S15X:** 4/0, 1/2 R, 16mm, DA 75cm

**26S10U:** 5/0, 1/2 R, 18mm, DA 75cm

\* ASD: ATRIAL SEPTAL DEFECT / VSD: VENTRICULAR SEPTAL DEFECT / COA: AORTIC COARCTATION / PDA: PERSISTENCE OF THE ARTERIAL DUCT  
1. PVDF Monofilament sutures, Laroche G et al., Artificial organs -1995

## Hemostasis

### SLS-Clip & Clip 9 Vitalitec®

Pure titanium & atraumatic chevron-shaped clip



- **Clips sizes** adapted to perform hemostasis on various vessel configurations.



- **Non-slip closure on the vessels** thanks to interlocking atraumatic teeth and internal structure made up of small diamond shape



- Specific treatment and shape of the applicator jaw inner surface to help **secure the grip of the clip** in the applicator until applied to a vessel

Product's recommendation by Peters Surgical

#### TOP ORDER CODES

■ Small/Medium    
 ■ Small    
 ■ Small    
 ■ Micro

**L9180**

**R9180**

**J9180**

**W9060**

4,7 mm\*\*

3,6 mm\*\*

3,6 mm\*\*

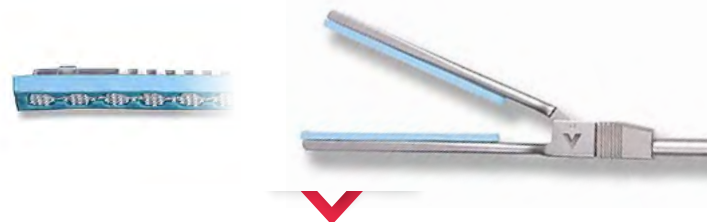
2,6 mm\*\*

\*\* Height clip closed

## Aorta clamping

### Cygnets® & Intrack®

Surgical flexible clamp and atraumatic single-use inserts



#### 33 mm Insert length

Length clamp: 39 cm

(For more information about Intrack® inserts, see page 7)

### Multipurpose clamp

Multiple choice of handle configurations and jaw orientations



Arched handle • Angled 55°  
Length clamp: 16.5 cm

Straight handle • Angled 55°  
Length clamp: 17 cm

#### TOP ORDER CODES

**V-10183** : Cygnets®, 33 mm straight jaw

**N-10109V** : Multipurpose clamp, 33 mm straight jaw

**N-10176V** : Intrack® Inserts Ultra, 33 mm

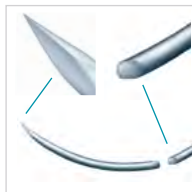


# Closure.

## Sternal closure

### Acier

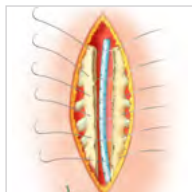
Non-absorbable suture, stainless steel



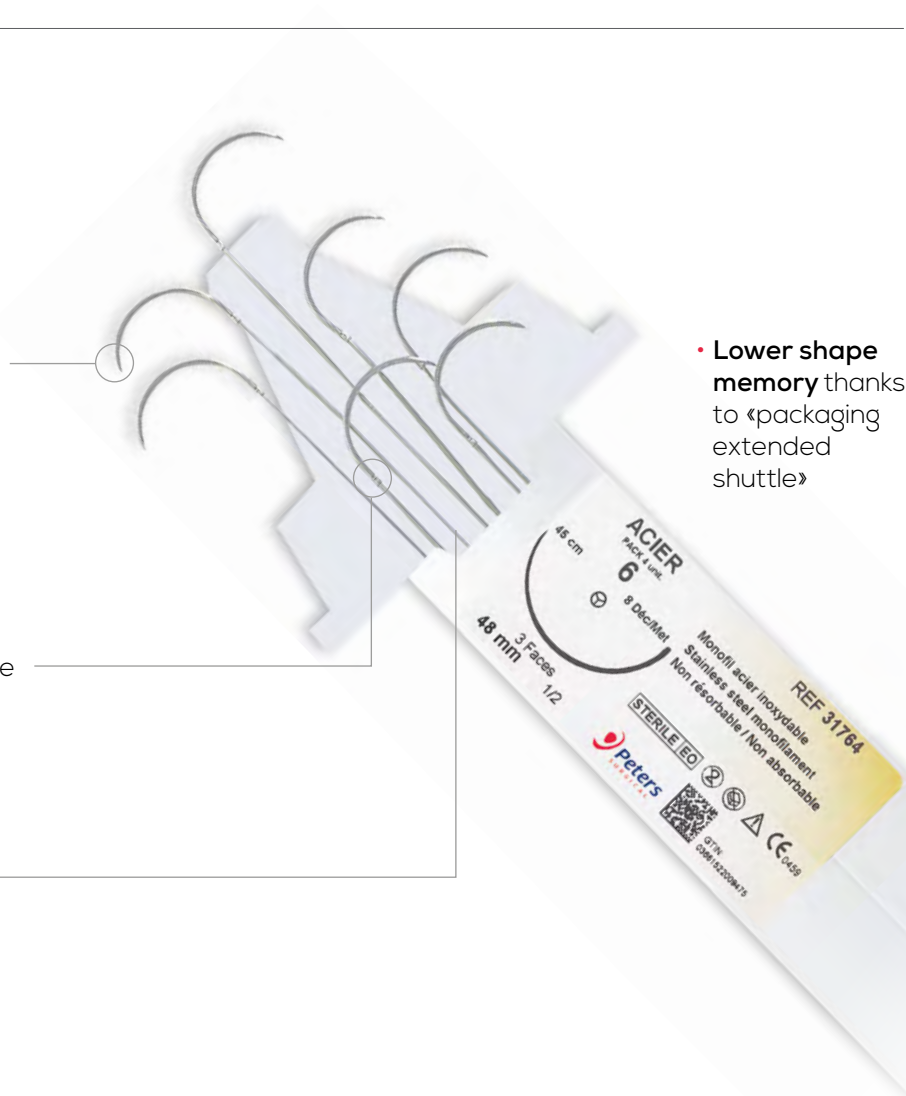
- **Excellent tissue penetration and great flexibility** thanks to 3 faces needle tip and the thread made by highest quality of stainless steel - 316 LVM



- **Greater needle attachment** by specific crimping technique with 8 points



- **Wide range with packs of 1-8 units** adapted to procedure needs.



- **Lower shape memory** thanks to «packaging extended shuttle»

Product's recommendation by Peters Surgical

| Suture brand | USP    | Needle tip | Needle curvature, Length | Suture length | Qty suture used | TOP ORDER CODES |         |                                 |
|--------------|--------|------------|--------------------------|---------------|-----------------|-----------------|---------|---------------------------------|
| Acier/steel  | 5 to 6 | 3 faces    | 1/2c, 48 mm              | 45 cm         | 6 to 8          | <b>31760</b>    | Acier 6 | 1/2 3F, 48 mm, 45 cm, Pack of 7 |

# Final closure

## Full portfolio of sutures for closure with advanced A300 series needle

Pericardium, muscle, fascial, subcutaneous closure



### Optime®

Absorbable suture  
Polyglycolic Acid (PGA)  
coated braid

- High initial strength :  
Approximatively 65% after  
14 days post-implantation  
(in vivo).
- Time of total loss of  
resistance: 28-35 days
- Total absorption: 60-90 days

Drain fixation



### Polytresse®

Non-absorbable suture  
Coated polyester braid

- Very good knot strength to  
prevent suture tear/fracture
- Great glide thanks to silicone  
coating

Skin closure



### Filapeau®

Non-absorbable suture  
Polyamide monofilament

- Great glide and flexibility
- Low shape memory
- Available on undyed



### Advantime®

Absorbable suture  
Poliglecaprone 25  
(PGA-CL25)

- Available with Extractut® - cutting  
needle with precision point
- Less trauma and greater glide
- Time of total loss of resistance:  
21-28 days
- Total absorption: 90-120 days

Product's recommendation by Peters Surgical

#### TOP ORDER CODES

|                |                        |             |                      |
|----------------|------------------------|-------------|----------------------|
| <b>18S30F</b>  | Pecardium closure      | Optime® 2/0 | 1/2 R, 30 mm, 75 cm  |
| <b>18S40AC</b> | Muscle/fascial closure | Optime® 1   | 1/2 KL, 30 mm, 75 cm |
| <b>18I30AM</b> | Subcutaneous closure   | Optime® 2/0 | 3/8 T, 19 mm, 75 cm  |







#### TOP ORDER CODES

|               |                |                |                               |
|---------------|----------------|----------------|-------------------------------|
| <b>15D20E</b> | Skin closure   | Advantime® 3/0 | 3/8 XT-Cutting, 19 mm, 70 cm  |
| <b>87300</b>  | Skin closure   | Filapeau® 3/0  | 3/8 T, 20 mm, 90 cm           |
| <b>91S35A</b> | Drain fixation | Polytresse® 0  | 1/2 OSH-Cutting, 22 mm, 75 cm |



**Peters Surgical**, your partner for  
Cardiovascular and Thoracic surgeries

# Solutions corresponding to Cardiovascular surgeons needs \*

| Procedural step  | Sutures  | Clips                                      |                                   | VTO      |                                | Anastomosis Assist Device for Beating-Heart |
|--|--|--|-----------------------------------|----------|--------------------------------|---|
|  |  | Titanium SLS-Clip/Clip 9                   | Spring Clip (Bulldogs)            | Inserts  | Clamp                          |   |
| Opening and Exposure of the heart  | Polytresse®  | Clip<br>Various sizes                      | -                                 | -        | -                              | -   |
| Cannulation - CPB  | Cardioxyl®<br>Cardioflon® Evolution                                      | -  | -                                 | -        | -                              | -   |
|  Coronary Bypass on-pump     | Corolene®<br>Premio®   | Clip<br>Various sizes                      | Novaclip®<br>Sofia®<br>Greyhound® | Intrack® | Cygnets®<br>Bahnsen clamp      | -   |
|  Coronary Bypass off-pump    | Corolene®<br>Premio®   | -  | -                                 | Intrack® | Cygnets®<br>Lambert-Kay clamp  | Enclose®II                                  |
|  Valves Repair & Replacement | Cardioxyl®<br>Cardioflon® Evolution<br>Cardionyl®<br>Corolene® / Premio® | -  | -                                 | -        | -                              | -   |
|  Aorta Surgeries            | Corolene®<br>Premio®   | -  | -                                 | Intrack® | Cygnets®<br>Bahnsen clamp      | -   |
|  MICS                      | Cardioxyl®<br>Cardioflon® Evolution<br>Cardionyl®<br>Corolene®           | Clip - Various sizes<br>Endoscopic applier | Novaclip®<br>Sofia®<br>Greyhound® | Intrack® | Cygnets®<br>Clamp              | -   |
|  Congenital Heart Surgery  | Premio®  | Clip - Various sizes<br>Endoscopic applier | -                                 | Intrack® | Cygnets®<br>Multipurpose clamp | -   |
| Closure  | Acier<br>Optime®<br>Polytresse®<br>Advantime® / Filapeau®                | -  | -                                 | -        | -                              | -   |

\*Product's choice depends on surgeon's technique and patient clinical picture. Surgical procedures are documented in dedicated product clinical evaluation. Please read IFU carefully before use

# References.

## Absorbable Sutures.

### Optime®<sup>1a</sup>

The synthetic absorbable surgical sutures Optime® are indicated for use in general tissue approximation and/or ligation, including use in ophthalmic surgery.

### Advantime®<sup>1a</sup>

The synthetic absorbable surgical sutures Advantime® are indicated for use in general soft tissue approximation and/or ligation where an absorbable suture is indicated.

## Non-Absorbable Sutures.

### Corolene®<sup>1a</sup>

Corolene® sutures are intended for use in general soft tissue approximation and/or ligation, including use in cardiovascular and vascular surgery, in ophthalmic surgery, in plastic surgery and in neurological surgery. Corolene® sutures can be used for laparoscopic surgery and abdominal aorta surgery.

### Premio®<sup>1a</sup>

Premio® sutures are intended for use in general soft tissue approximation and/or ligation, including use in cardiovascular, vascular and neurological surgery.

### Cardioxyl®<sup>1a</sup>

Cardioxyl® sutures are intended for use in general soft tissue approximation and/or ligation, including use in cardiovascular, vascular and ophthalmic surgeries.

### Cardioflon® Evolution<sup>1a</sup>

Cardioflon® Evolution sutures are intended for use in general soft tissue approximation and/or ligation, including use in cardiovascular, vascular and ophthalmic surgeries.

### Cardionyl®<sup>1a</sup>

Cardionyl® sutures are intended for use in general soft tissue approximation and/or ligation, including use in cardiovascular, vascular, ophthalmic and neurological surgery.

### Acier<sup>1c</sup>

Acier sutures are intended for use in thoracic and cardiothoracic surgery (sternum closure) and in orthopaedic surgery.

### Filapeau®<sup>1c</sup>

Filapeau® sutures are intended for use to suture superficial cutaneous skin and in plastic surgery.

### Polytresse®<sup>1a</sup>

Polytresse® sutures are intended for use in general soft tissue approximation and/or ligation, including use in orthopaedic surgery, in cardiovascular and vascular surgery and in ophthalmic surgery.

## Clips-VTO.

### Titanium Hemostatic Clips SLS-CLIP®

#### Vitalitec & Clip 9 Vitalitec®<sup>1a</sup>

Titanium Hemostatic Clips can be used in every surgical specialty when complete occlusion of a vessel or tissue is required, except for Fallopian Tube Ligation.

### Vitalitec® Hemostatic Clip applicators<sup>7</sup>

Vitalitec® Hemostatic Clip applicators are intended for the loading, holding and optimal closure of Vitalitec® Titanium Hemostatic clips.

### Vitalitec® Endoscopic Clip applicators<sup>8</sup>

Vitalitec® Endoscopic Clip applicators are intended for the loading, holding and optimal closure of Vitalitec® Titanium Hemostatic clips.

### Intrack® Surgical Clamp<sup>2</sup>

For Vascular  
Suitable for veins and arteries. Performs efficiently on either diseased or normal vessels. Provides occlusion of atherosclerotic vessels without excessive closing forces. Minimizes intimal damage and fragmentation of atherosclerotic material. Can be clamped over indwelling catheters.

For Gastrointestinal  
Replaces bulky, rubber shod clamps. Cushion-design of inserts enables occlusion without crushing the bowel.

### Intrack® Inserts<sup>19</sup>

For Vascular  
Suitable for veins and arteries. Performs efficiently on either diseased or normal vessels. Provides occlusion of atherosclerotic vessels without excessive closing forces. Minimizes intimal damage and fragmentation of atherosclerotic material. Can be clamped over indwelling catheters.

For Gastrointestinal  
Replaces bulky, rubber shod clamps. Cushion-design of inserts enables occlusion without crushing the bowel.

### Cygnets® Flexible Clamp<sup>2</sup>

The Cygnets® clamps are indicated for use in cardiovascular, peripheral vascular and general surgical procedures. They are used for temporary occlusion of all types of arteries and veins, including aorta clamping during mini-thoracotomy cardiac surgery. The Cygnets® clamps must exclusively be loaded with single use Intrack® inserts prior to use.

### **Greyhound® Adjustable Spring Clip** <sup>19</sup>

The Greyhound® Adjustable Spring Clip is indicated for use in peripheral vascular, cardiovascular and general surgery. Greyhound® is used for temporary occlusion of blood vessels. It is suitable for veins and arteries, provides occlusion of atherosclerotic vessels or normal vessels and may be used over indwelling catheters. Greyhound® may be used for temporary occlusion of the autogenous saphenous vein during coronary bypass surgery. Greyhound® may also be used as a suture tag.

### **Novaclip® Surgical spring clip** <sup>19</sup>

The Novaclip® Surgical Spring Clip is indicated for use in peripheral vascular, cardiovascular and general surgery. Novaclip® is used for temporary occlusion of blood vessels. It is suitable for veins and arteries, provides occlusion of atherosclerotic vessels or normal vessels and may be used over indwelling catheters. Novaclip® may be used for temporary occlusion of the autogenous saphenous vein during coronary bypass surgery. Novaclip® may also be used as a suture tag

### **Atraumatic spring clips Sofia Vitalitec®** <sup>1b</sup>

The bulldog spring clips were specifically designed for temporary occlusion of vessels. They are intended for use by professionals trained in surgical techniques and can be used in all surgical specialties requiring temporary occlusion of vessels and tubal structures, for any type of patient. They are single-use devices. Their jaw gap is 7 mm and they can be set up with a specific Peters Surgical applier. The jaws are made of medical grade polycarbonate, overmolded with soft elastomeric pads to reduce the risk of vascular trauma as far as possible. Three intensities of clamping forces are available (1/4 Force, 1/2 Force, 3/4 Force). It is incumbent upon the user to select the best suited clamping force for the surgical procedure. Note: these devices may also be used as suture tags.

### **Enclose® II Anastomosis Assist Device** <sup>19</sup>

The Enclose® II device is intended for use by cardiac surgeons during on-pump or off-pump coronary artery bypass grafting (CABG) procedures in place of partial occlusion clamps in ascending aortas free of atheromatous disease.

- 1a. Medical Device Class III  
CE 0459  
Manufacturer: Peters Surgical.
- 1b. Medical Device Class IIa  
CE 0459  
Manufacturer: Peters Surgical.
- 1c. Medical Device Class IIb  
CE 0459  
Manufacturer: Peters Surgical
2. Medical Device Class I  
Manufacturer: Vitalitec International Inc.
7. Medical Device Class I  
Manufacturer: Peters Surgical.
8. Medical Device Class I  
Manufacturer: Vitalitec International  
Medizintechnik GmbH.
19. Medical Device Class IIa  
CE 2797  
Manufacturer: Vitalitec International Inc



**Peters Surgical Headquarters  
& French Affiliate**

Immeuble AURELIUM  
1 cours de l'Île Seguin  
92100 Boulogne-Billancourt - France  
+33 1 48 10 62 62  
peters-surgical.com  
peters-surgical.fr

**Peters Surgical Polska**

01-756 Warszawa,  
ul. Przasnyska 6B, Poland  
+48 22 462 42 52

**Peters Surgical Benelux**

Beelerstrooss, 2 (entrée B)  
L-9991 - Weiswampach  
Grand Duché du Luxembourg  
+352 26 90 80 13

**Peters Surgical India Pvt.Ltd.**

Emaar Digital Greens, Unit No. 508-511  
5th Floor, Tower-A, Sector-61  
Golf Course Extension Road Balarampur Naya  
Gurgaon 122102 Haryana India  
+91-11-46564700  
peters-surgical.in

**Peters Surgical USA - Vitalitec Inc**

10 Cordage Park Circle, Suite 100  
Plymouth, MA 02360 USA  
+1 508-747-6033  
peters-surgical.us

**Peters Surgical Germany - Catgut GmbH**

Gewerbepark 18D-08258  
Markneukirchen, Germany  
+49 37422 583-0

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Carefully read the Instructions For Use of medical device before use.



[peters-surgical.com](http://peters-surgical.com)

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