

# ThruPort Systems

## Edwards Cardiac Cannulae

### Product Guides



Edwards

## ThruPort Systems and Edwards Cardiac Cannulae

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# ThruPort Systems

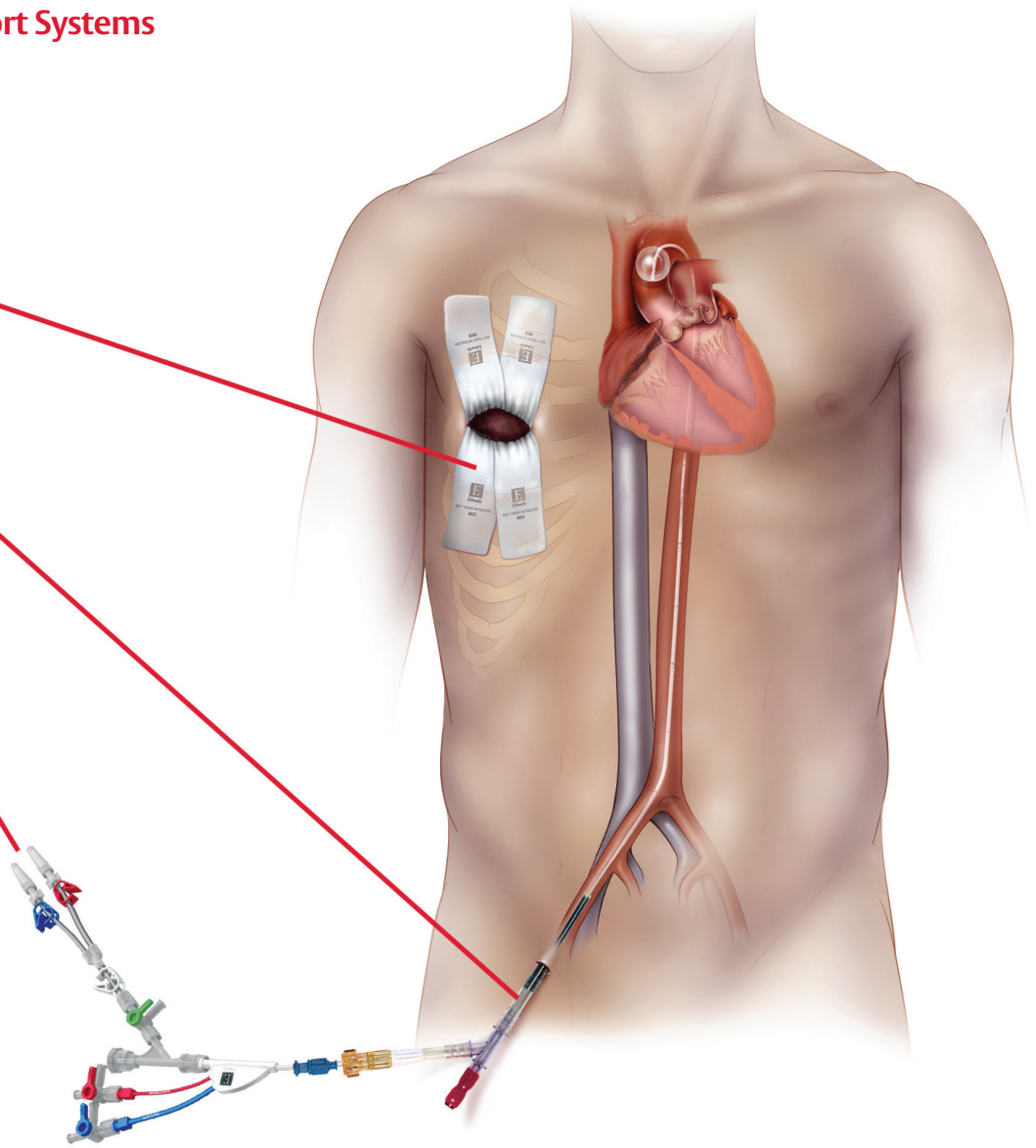
Disposable Products for  
Minimal Incision Surgery

## Edwards ThruPort Systems

**ThruPort**  
soft tissue  
retractor

**EndoReturn**  
arterial  
cannula

**IntraClude**  
intra-aortic  
occlusion  
device



## IntraClude Intra-Aortic Occlusion Device

The IntraClude intra-aortic occlusion device is indicated for use in patients undergoing cardiopulmonary bypass. The IntraClude intra-aortic occlusion device occludes and vents the ascending aorta when the balloon is inflated. The device's central lumen allows delivery of cardioplegia to arrest the heart. The pressure lumen allows monitoring of the aortic root pressure.

- 10.5 Fr (3.5 mm), triple-lumen, 100 cm long catheter
- Designed to occlude the ascending aorta in order to partition the aortic root from arterial circulation
- Balloon expands to occlude a range of aorta sizes from 20 to 40 mm
- Designed to be used in the femoral approach with the Edwards EndoReturn (ER21B or ER23B) arterial cannula or the Edwards introducer sheath (IS19A)
- The shaft is provided with an extended strain relief designed to prevent kinking

**1 unit per case**

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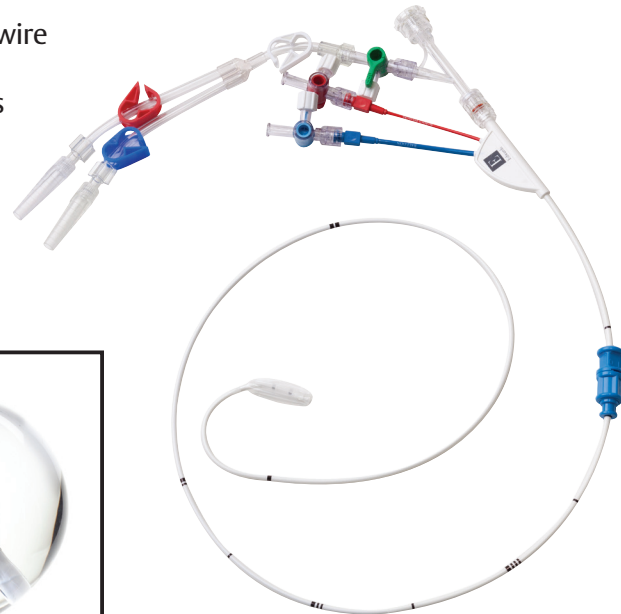
**39.4 inch (100 cm) overall length**

ICF100

0.038 inch (200 cm) guidewire  
Y-connector  
Red and blue pressure lines



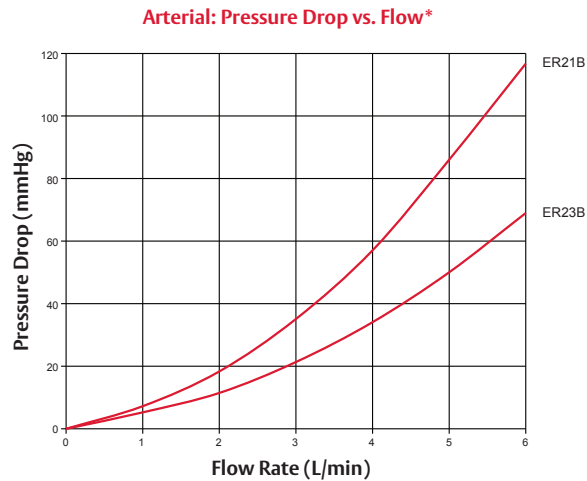
Close up of tip



## EndoReturn Arterial Cannula

The EndoReturn arterial cannula and 19 Fr (6.3 mm) arterial cannula are indicated for patients undergoing cardiopulmonary bypass. They are intended to deliver oxygenated blood for cardiopulmonary bypass during surgery. The EndoReturn arterial cannula with hemostasis valve also allows the hemostatic introduction and removal of vascular catheters such as the EndoClamp aortic catheter.

- Kits include a wire-reinforced cannula with hemostasis valve, an introducer and a guidewire
- The cannulae have a wire-reinforced section to provide kink resistance and flexibility
- Tapered tips to aid in insertion and advancement into the femoral artery
- Hemostasis valve designed to allow passage of catheters, such as the EndoClamp aortic catheter
- The introducers accept a .038 inch (0.97 mm) guidewire and are marked to simplify assembly and indicate alignment
- A lubricious coating is applied to the surface of the cannula body, designed to ease insertion and retraction of catheters and introducers



\* Mean value derived from in vitro testing performed with water at 21°C. The actual pressure gradients encountered in a clinical situation may vary from those shown, depending on perfusion techniques.

**1 unit per case**

### 3.7 inch (9.4 cm) effective length

ER21B	21 Fr (7.0 mm) 0.038 inch (100 cm) guidewire Introducer Connector hub
ER23B	23 Fr (7.6 mm) 0.038 inch (100 cm) guidewire Introducer Connector hub



### 3.7 inch (9.4 cm) effective length

IS19A	19 Fr (6.3 mm) 0.038 inch (100 cm) guidewire Introducer
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## OptiSite Arterial Cannula

The Edwards Lifesciences arterial perfusion cannulae are indicated for arterial perfusion in the extracorporeal circuit for < 6 hours. Cannulation site selection is left to the discretion of the surgeon and may include the femoral artery or the aortic arch.

- Smoothly rounded tips to facilitate atraumatic insertion
- The proximal ends of the cannulae are designed to accept 3/8 inch (9.5 mm) tubing
- Lock introducer is designed for use with 0.038 inch (0.96 mm) guidewires
- Removable vented luer cap designed to allow cannula venting when guidewire is not in use

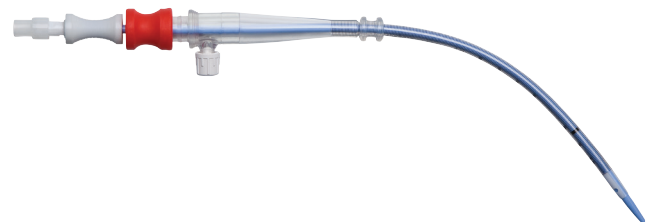
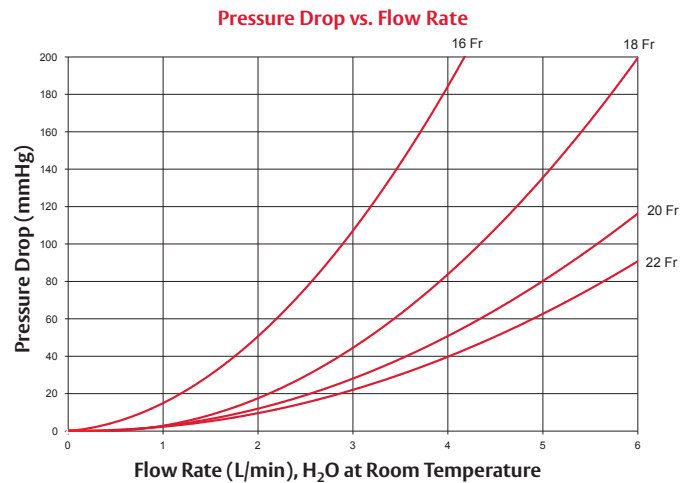
**1 unit per case**

### Blunt tip introducer with guidewire

**15 cm effective length**  
**20.8 cm overall length**

Vented 3/8 inch connector

OPTI16	16 Fr (5.3 mm)
OPTI18	18 Fr (6.0 mm)
OPTI20	20 Fr (6.7 mm)
OPTI22	22 Fr (7.3 mm)



## Soft Tissue Retractor

The ThruPort soft tissue retractor is used to allow visualization of intrathoracic structures and provide entry for the instruments into the thoracic cavity during specific cardiac surgical procedures. The ThruPort soft tissue retractor is designed to be inserted into an intercostal incision and retract tissue to form a port.

- Available in three sizes
- Fabric tabs designed to retract tissue from the incision
- Soft, polyester fabric conforms to intercostal incision
- Metallic ring compresses for insertion into thorax

Model	Description	Ring diameter	Tab length	Tab width
TRS	Soft tissue retractor, small	2.2 inch (6.0 cm)	6.0 inch (15.2 cm)	1.5 inch (3.8 cm)
TRM	Soft tissue retractor, medium	3.0 inch (7.5 cm)	6.0 inch (15.2 cm)	2.0 inch (5.1 cm)
TRL	Soft tissue retractor, large	3.5 inch (9.0 cm)	6.0 inch (15.2 cm)	2.5 inch (6.4 cm)



## Knot Pusher

- Knot pusher facilitates extracorporeal knot tying of valve sutures

KP1	12.9 inch (33 cm) length	
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# Edwards Cardiac Cannulae

- Arterial Cannulae
- Venous Cannulae
- Femoral Cannulae
- Cardioplegia Catheters

# Arterial Cannulae

Aortic perfusion cannulae may be used in pediatric or adult populations based on the flow rate requirements and individual patient anatomy. Please consult labeling to determine pressure drop related to flow rates.

## OptiSite Arterial Cannula

The Edwards Lifesciences arterial perfusion cannulae are indicated for arterial perfusion in the extracorporeal circuit for < 6 hours. Cannulation site selection is left to the discretion of the surgeon and may include the femoral artery or the aortic arch.

- Smoothly rounded tips to facilitate atraumatic insertion
- The proximal ends of the cannulae are designed to accept 3/8 inch (9.5 mm) tubing
- Lock introducer is designed for use with 0.038 inch (0.96 mm) guidewires
- Removable vented luer cap designed to allow cannula venting when guidewire is not in use

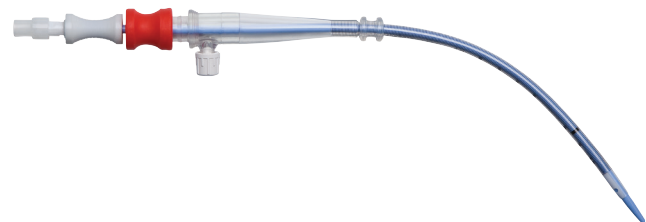
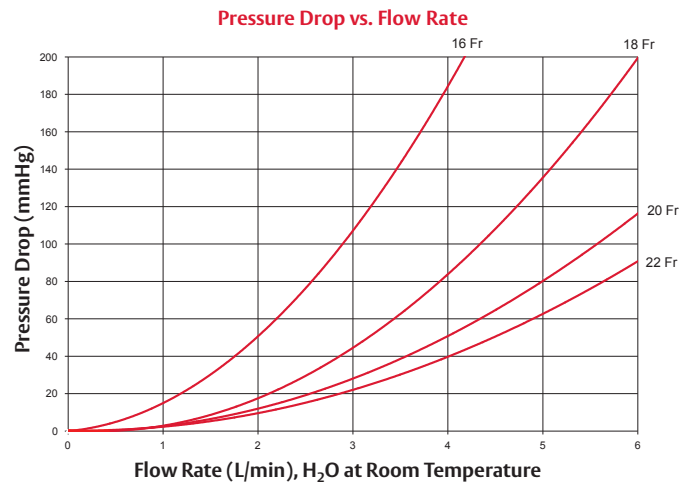
**1 unit per case**

### Blunt tip introducer with guidewire

**15 cm effective length**  
**20.8 cm overall length**

Vented 3/8 inch connector

OPTI16	16 Fr (5.3 mm)
OPTI18	18 Fr (6.0 mm)
OPTI20	20 Fr (6.7 mm)
OPTI22	22 Fr (7.3 mm)

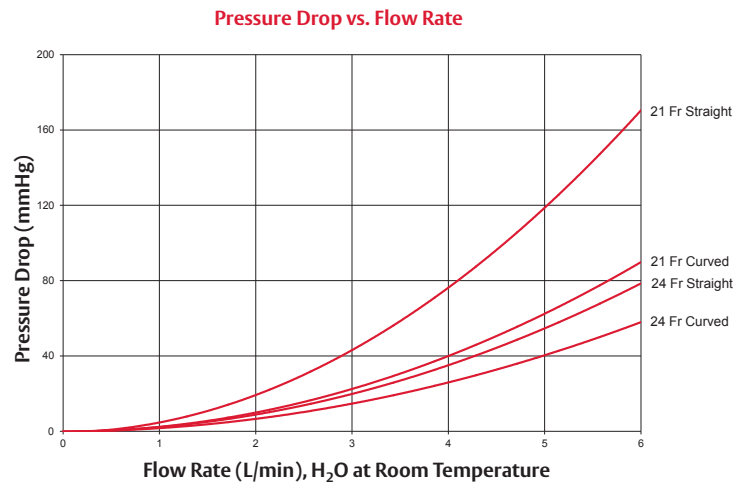


## EZ Glide Aortic Perfusion Cannula

The EZ Glide aortic perfusion cannula is intended to create a dispersive flow.

- Tip design disperses return flow in a conical spray pattern
- Unique auto-dilating tip

**10 units per case**



## Straight cannula

**14 inch (35 cm) overall length**

3/8 inch vented connector

EZS21TA 21 Fr (7.0 mm)

EZS24TA 24 Fr (8.0 mm)



3/8 inch non-vented connector

EZS21A 21 Fr (7.0 mm)

EZS24A 24 Fr (8.0 mm)



## EZ Glide Aortic Perfusion Cannula (*continued*)

### Curved cannula with suture bump

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14.8 inch (37.6 cm) overall length

3/8 inch vented connector

EZC21TA 21 Fr (7.0 mm)

EZC24TA 24 Fr (8.0 mm)



3/8 inch non-vented connector

EZC21A 21 Fr (7.0 mm)

EZC24A 24 Fr (8.0 mm)



### Curved cannula with suture flange

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14.8 inch (37.6 cm) overall length

3/8 inch vented connector

EZF21TA 21 Fr (7.0 mm)

EZF24TA 24 Fr (8.0 mm)



3/8 inch non-vented connector

EZF21A 21 Fr (7.0 mm)

EZF24A 24 Fr (8.0 mm)



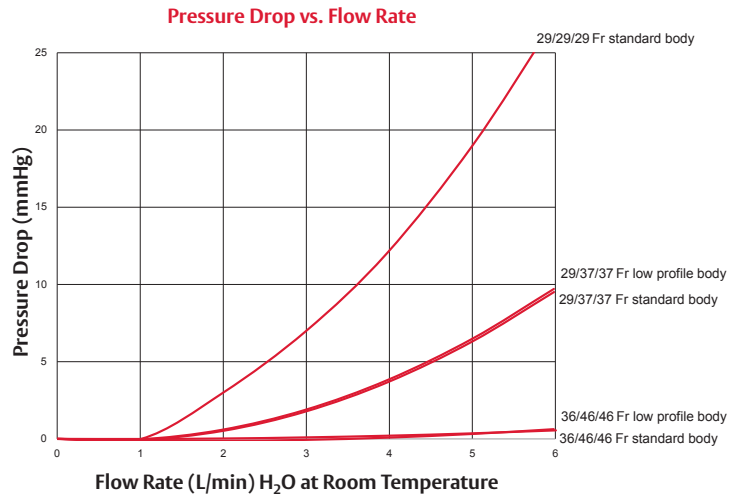
# Venous Cannulae

Venous cannulae may be used in pediatric populations or adult populations based on flow rate requirements and patient anatomy. Please see labeling for maximum flow rate information.

## Triple Stage Venous Cannula

- Thin-Flex triple stage venous cannula offers 34% reduction in wall thickness compared to traditional technology\*
- Open lighthouse tip for high flow rates
- Compatible with vacuum assist venous drainage systems
- Optional Trim-Flex low profile venous cannula offers a flattened design\*

10 units per case



## Trim-Flex low profile triple stage venous cannula

### 14.5 inch (37 cm) overall length

1/2 inch non-vented connector

TRF2937O2A      29/37/37 Fr  
(9.6/12.3/12.3 mm)



1/2 inch acceptance

TRF2937O2      29/37/37 Fr  
(9.6/12.3/12.3 mm)



### 16 inch (40 cm) overall length

1/2 inch non-vented connector

TRF3646O2A      36/46/46 Fr  
(12.0/15.3/15.3 mm)



1/2 inch acceptance

TRF3646O2      36/46/46 Fr  
(12.0/15.3/15.3 mm)



\* As compared to standard venous cannulae, data on file

## Triple Stage Venous Cannula *(continued)*

### Thin-Flex triple stage venous cannula

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#### 14.5 inch (37 cm) overall length

1/2 inch non-vented connector  
 TF293702A 29/37/37 Fr  
 (9.6/12.3/12.3 mm)



1/2 inch acceptance  
 TF293702 29/37/37 Fr  
 (9.6/12.3/12.3 mm)



#### 16 inch (40 cm) overall length

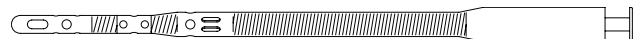
1/2 inch non-vented connector  
 TF292902A 29/29/29 Fr  
 (9.6/9.6/9.6 mm)



3/8 inch acceptance  
 TF292902 29/29/29 Fr  
 (9.6/9.6/9.6 mm)



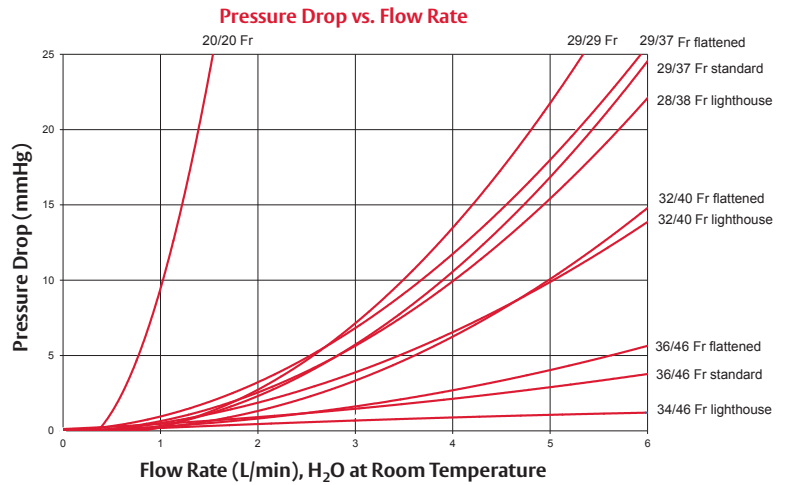
1/2 inch acceptance  
 TF364602 36/46/46 Fr  
 (12.0/15.3/15.3 mm)





## Dual Stage Venous Cannula

- Features patented dual stage drainage baskets designed to provide increased resistance to collapse
- Multiple port tip designed to increase drainage
- Wire-reinforcement helps reduce kinking and twisting
- Optional Thin-Flex dual stage venous cannula with proprietary thin-wall technology designed to maximize flow rates and available space



10 units per case

## Trim-Flex low profile dual stage cannula

### 14.5 inch (37 cm) overall length

1/2 inch non-vented connector  
TRF2937OA 29/37 Fr (9.6/12.3 mm)

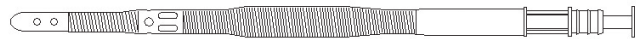


1/2 inch acceptance  
TRF2937O 29/37 Fr (9.6/12.3 mm)



### 16 inch (40 cm) overall length

1/2 inch non-vented connector  
TRF3646OA 36/46 Fr (12.0/15.3 mm)



1/2 inch acceptance  
TRF3646O 36/46 Fr (12.0/15.3 mm)



## Dual Stage Venous Cannula (continued)

### Thin-Flex dual stage venous cannula

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#### 14.5 inch (37 cm) overall length

1/2 inch non-vented connector  
 TF29370A                      29/37 Fr (9.6/12.3 mm)



1/2 inch acceptance  
 TF29370                      29/37 Fr (9.6/12.3 mm)



#### 16 inch (40 cm) overall length

3/8 inch acceptance  
 TF292901                      29/29 Fr (9.6/9.6 mm)



1/2 inch non-vented connector  
 TF36460A                      36/46 Fr (12.0/15.3 mm)  
 TF33430A                      33/43 Fr (11.0/14.3 mm)



1/2 inch acceptance  
 TF36460                      36/46 Fr (12.0/15.3 mm)  
 TF33430                      33/43 Fr (11.0/14.3 mm)



## Dual Stage Venous Cannula (continued)

### Open lighthouse tip

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#### 16 inch (40 cm) overall length

1/2 inch non-vented connector  
 TR3240OA 32/40 Fr (10.6/13.3 mm)



1/2 inch acceptance  
 TR3240O 32/40 Fr (10.6/13.3 mm)



### Lighthouse tip

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#### 16 inch (40 cm) overall length

1/2 inch acceptance  
 TR2838L 28/38 Fr (9.3/12.6 mm)  
 TR3240L 32/40 Fr (10.6/13.3 mm)  
 TR3446L 34/46 Fr (11.3/15.3 mm)



### Bullet tip

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#### 16 inch (40 cm) overall length

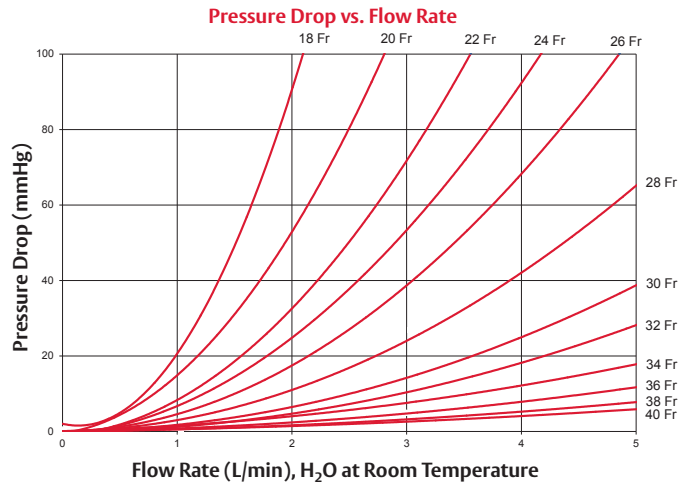
1/2 inch acceptance  
 TR3651B 36/51 Fr (12.0/17.0mm)



## Single Stage Venous Cannula

- One piece wire reinforced cannula
- Proprietary thin-wall design to maximize venous drainage
- Multiple port tip designed to increase drainage
- Thin-Flex venous cannula with proprietary thin-wall technology designed to maximize flow rates

10 units per case



### Thin-Flex straight open lighthouse tip

#### 14 inch (35 cm) overall length

1/4 inch or 3/8 inch acceptance

TF018L	18 Fr (6.0 mm)
TF020L	20 Fr (6.7 mm)
TF022L	22 Fr (7.3 mm)
TF024L	24 Fr (8.0 mm)



3/8 inch acceptance

TF026L	26 Fr (8.7 mm)
TF028L	28 Fr (9.3 mm)



#### 16 inch (40 cm) overall length

3/8 inch acceptance

TF030L	30 Fr (10.0 mm)
TF032L	32 Fr (10.7 mm)
TF034L	34 Fr (11.3 mm)
TF036L	36 Fr (12.0 mm)
TF038L	38 Fr (12.6 mm)
TF040L	40 Fr (13.3 mm)

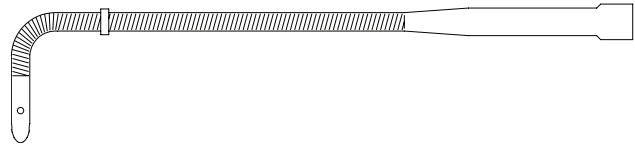


## Single Stage Venous Cannula (continued)

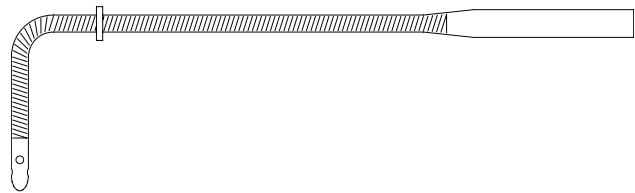
### Thin-Flex right angled open lighthouse tip

#### 14 inch (35 cm) overall length

1/4 inch or 3/8 inch acceptance  
 TF024L90                      24 Fr (8.0 mm)

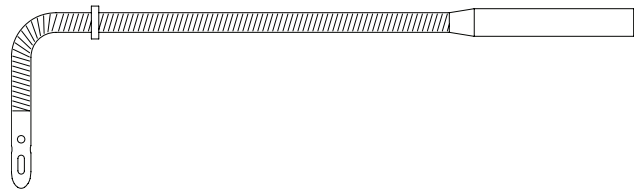


3/8 inch acceptance  
 TF026L90                      26 Fr (8.7 mm)  
 TF028L90                      28 Fr (9.3 mm)



#### 16 inch (40 cm) overall length

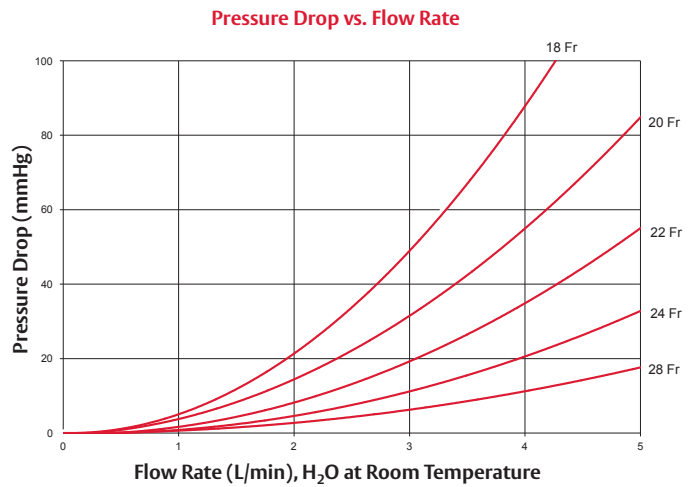
3/8 inch acceptance  
 TF030L90                      30 Fr (10.0 mm)  
 TF032L90                      32 Fr (10.7 mm)  
 TF034L90                      34 Fr (11.3 mm)  
 TF036L90                      36 Fr (12.0 mm)  
 TF038L90                      38 Fr (12.6 mm)



## Single Stage Venous Cannula

- One piece wire reinforced cannula
- Proprietary thin-wall design to maximize venous drainage
- Multiple port tip designed to increase drainage
- Thin-Flex venous cannula with proprietary thin-wall technology designed to maximize flow rates

10 units per case

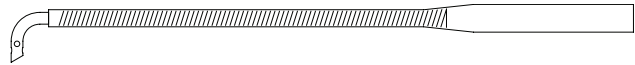


### Thin-Flex 90° plastic tip with side holes

#### 14 inch (35 cm) overall length

3/8 inch acceptance

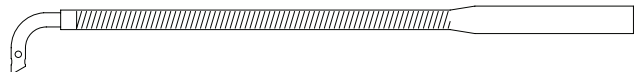
TF018O90      18 Fr (6.0 mm)  
 TF020O90      20 Fr (6.7 mm)



#### 15 inch (38 cm) overall length

3/8 inch acceptance

TF022O90      22 Fr (7.3 mm)  
 TF024O90      24 Fr (8.0 mm)  
 TF028O90      28 Fr (9.3 mm)



## Small Size Dual Stage Venous Cannula

- Thin-Flex venous cannula with proprietary thin-wall technology designed to maximize flow rates
- Patented dual stage drainage baskets designed to provide increased resistance to collapse
- Wire-reinforcement helps reduce kinking and twisting

10 units per case

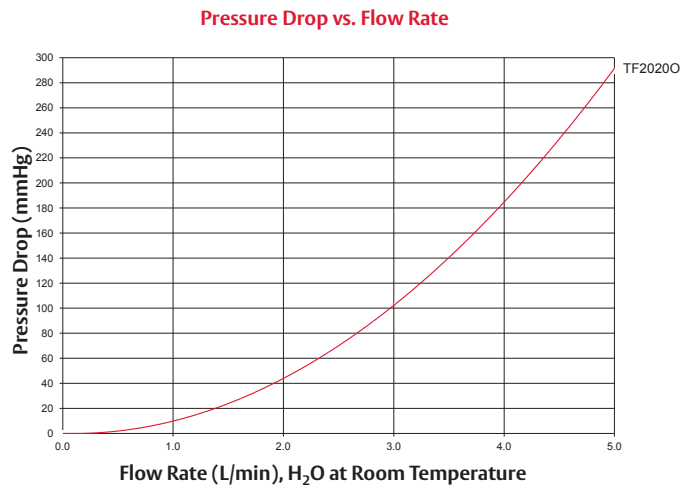
### Thin-Flex dual stage venous cannula

14 inch (35 cm) overall length

1/4 inch or 3/8 inch acceptance

TF20200

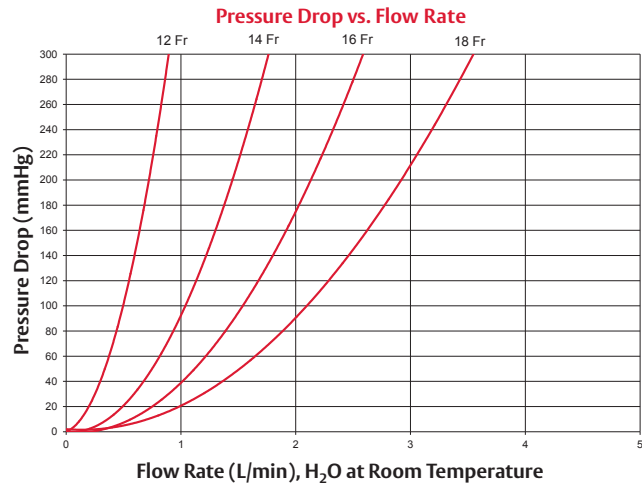
20/20 Fr (6.7/6.7 mm)



## Small Size Single Stage Venous Cannula

- Thin-Flex venous cannula with proprietary thin-wall technology designed to maximize flow rates

10 units per case



### Thin-Flex straight open lighthouse tip

#### 11 inch (28 cm) overall length

1/4 inch acceptance

TF012L	12 Fr (4.0 mm)
TF014L	14 Fr (4.7 mm)
TF016L	16 Fr (5.3 mm)



#### 14 inch (35 cm) overall length

1/4 or 3/8 inch acceptance

TF018L	18 Fr (6.0 mm)
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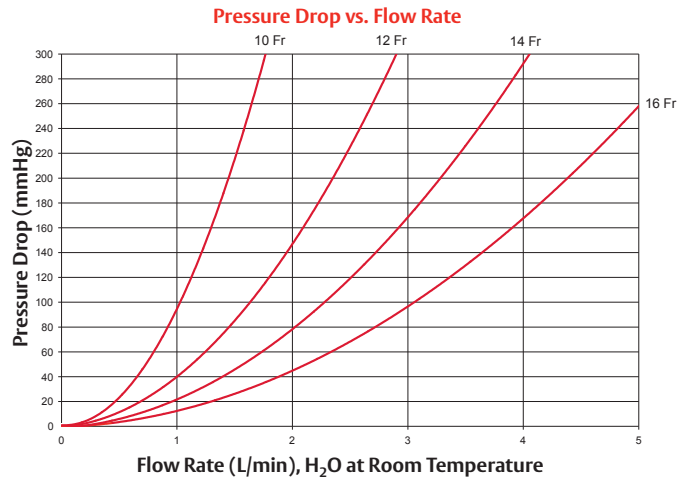




## Small Size Single Stage Venous Cannula

- Thin-Flex venous cannula with proprietary thin-wall technology designed to maximize flow rates

10 units per case



### Thin-Flex 90° plastic tip with side holes

11 inch (28 cm) overall length

1/4 inch acceptance

TF010090      10 Fr (3.3 mm)



13 inch (33 cm) overall length

1/4 inch or 3/8 inch acceptance

TF012090      12 Fr (4.0 mm)

TF014090      14 Fr (4.7 mm)

TF016090      16 Fr (5.3 mm)



# Femoral Cannulae

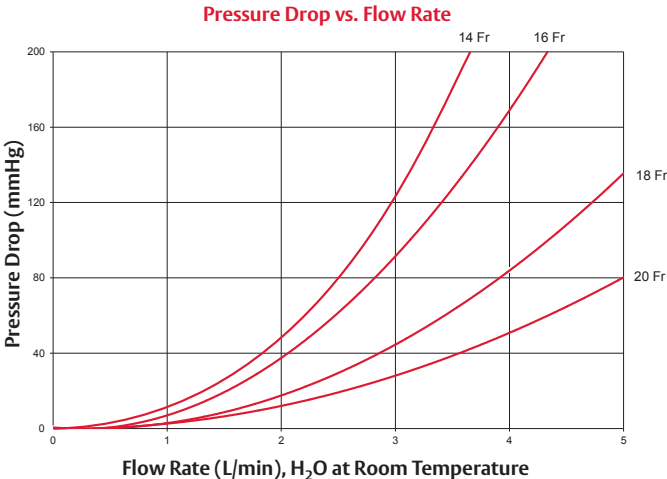
Femoral access cannulae may be used in pediatric populations or adult populations based on flow rate requirements and individual patient anatomy. Please consult labeling to determine pressure drop related to flow rates.

## Fem-Flex II Femoral Arterial Cannula

Fem-Flex II femoral arterial cannula is designed with thin-wall technology for enhanced flow and flexibility.

- Tapered tip and smooth dilator to cannula transition facilitates insertion
- Polyurethane body with wire reinforcement helps reduce kinking
- Radiopaque striping for visualization during placement
- Accommodates up to 0.038 inch guidewire

1 unit per case



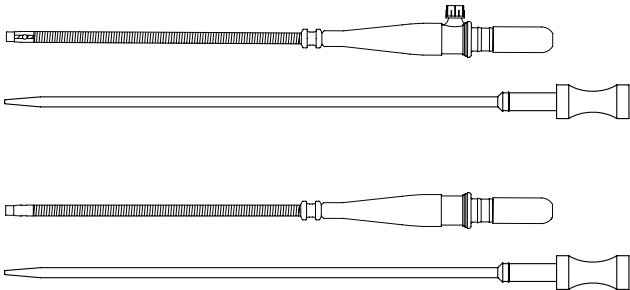
9.5 inch (24 cm) overall length  
6.0 inch (15 cm) effective length

3/8 inch vented connector

- FEMII016A 16 Fr (5.3 mm)
- FEMII018A 18 Fr (6.0 mm)
- FEMII020A 20 Fr (6.7 mm)

3/8 inch non-vented connector

- FEMII016AS 16 Fr (5.3 mm)
- FEMII018AS 18 Fr (6.0 mm)
- FEMII020AS 20 Fr (6.7 mm)

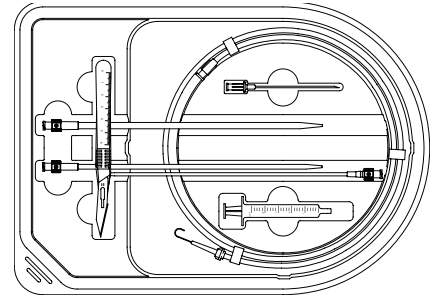


## Percutaneous Insertion Kit

The percutaneous insertion kit is designed to facilitate percutaneous insertion of a femoral cannula. The kit includes the following components:

- Number 11 scalpel
- 18 ga. insertion needle
- 5 mL syringe
- Three dilators: 8 Fr / 12 Fr / 16 Fr
- 0.038 inch guidewire

**5 units per case**



## Arterial insertion kit

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PIKA                      100 cm guidewire

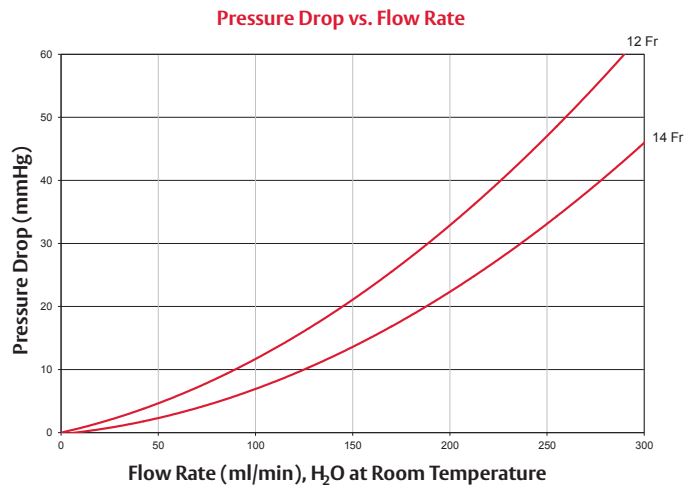
# Cardioplegia Catheters

Retrograde coronary sinus cardioplegia catheters may be used in pediatric or adult populations based on the requirements of individual patient anatomy.

## Self-Inflating Retrograde Cardioplegia Catheter with Retractable Anti-Retraction Technology

The self-inflating retrograde cardioplegia catheter is designed to maximize patient protection by providing global myocardial protection.

- Balloon self-inflates when cardioplegia is being delivered
- Variety of handle and stylet designs that facilitate insertion for a variety of surgical techniques
- Utilizes proprietary Retractableguard anti-retraction technology, which helps the cannula retain its shape after deployment and prevent balloon slippage



**10 units per case**

**Pre-shaped stylet and handle**

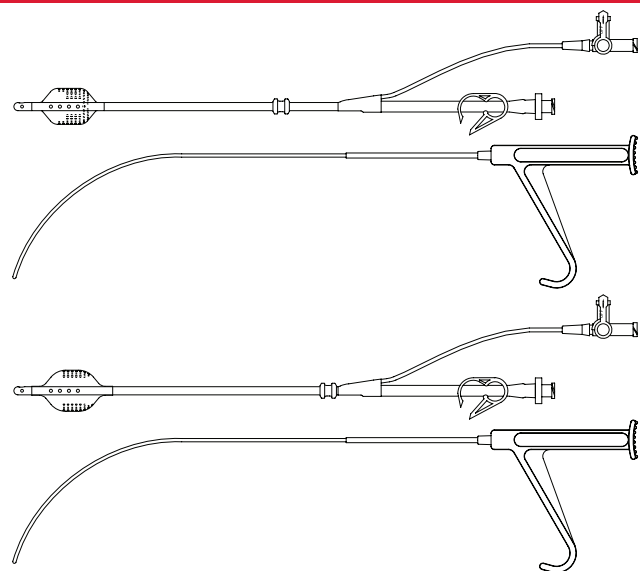
**10.6 inch (27 cm) overall length**

18 mm textured balloon  
 RC2014S                      14 Fr (4.7 mm)

**12.5 inch (32 cm) overall length**

18 mm textured balloon  
 RC2012                      12 Fr (4.0 mm)  
 RC2014                      14 Fr (4.7 mm)

20 mm textured balloon  
 RC2014LB                      14 Fr (4.7 mm)



## Self-Inflating Retrograde Cardioplegia Catheter with Retractaguard Anti-Retraction Technology (continued)

### Guidewire stylet

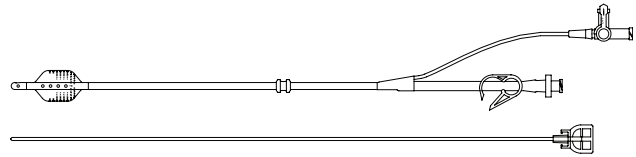
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12.5 inch (32 cm) overall length

18 mm textured balloon

RC2012M                      12 Fr (4.0 mm)

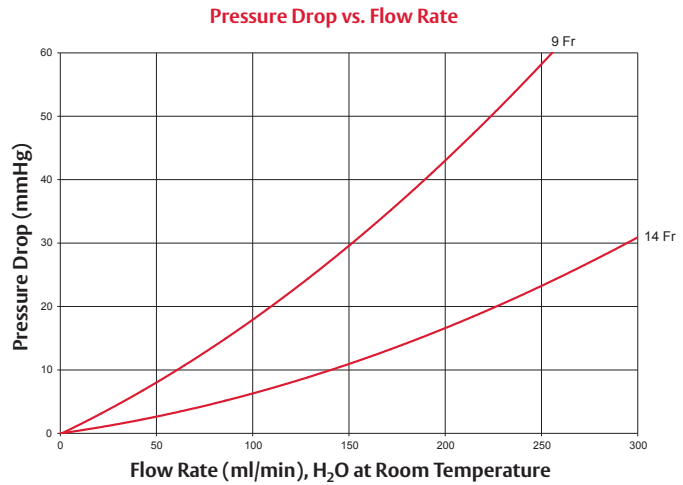
RC2014M                      14 Fr (4.7 mm)



## Self-Inflating Retrograde Cardioplegia Catheter

The self-inflating retrograde cardioplegia catheter is designed to maximize patient protection by providing global myocardial protection.

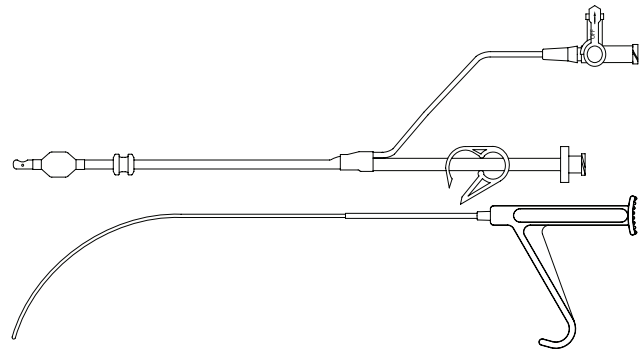
- Balloon self-inflates when cardioplegia is being delivered
- Variety of handle and stylet designs that facilitate insertion for a variety of surgical techniques



## Pre-shaped stylet and handle

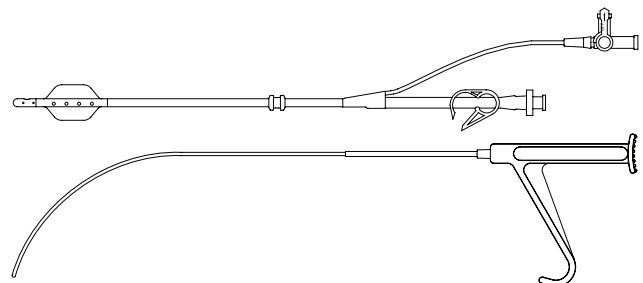
**5 units per case**  
**8 inch (20 cm) overall length**

9 mm smooth balloon  
 RC09                      9 Fr (3.0 mm)

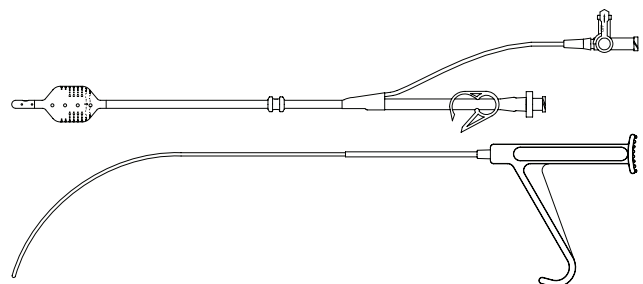


**10 units per case**  
**10.6 inch (27 cm) overall length**

18 mm smooth balloon  
 RC014                      14 Fr (4.7 mm)



14 mm textured balloon  
 RC014IT                      14 Fr (4.7 mm)



18 mm textured balloon  
 RC014T                      14 Fr (4.7 mm)



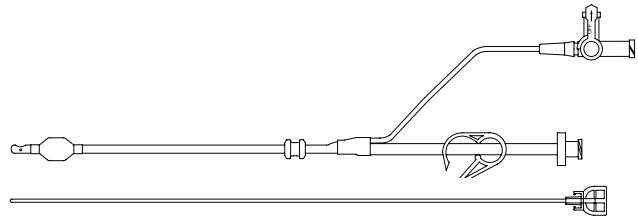
## Self-Inflating Retrograde Cardioplegia Catheter (continued)

### Guidewire stylet

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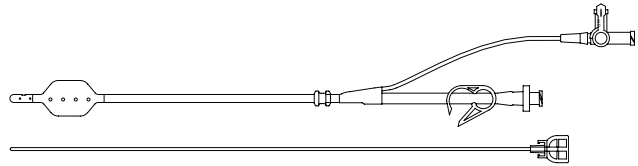
**5 units per case**  
**8 inch (20 cm) overall length**

9 mm smooth balloon  
RC09M                      9 Fr (3.0 mm)



**10 units per case**  
**10.6 inch (27 cm) overall length**

18 mm smooth balloon  
RC014M                      14 Fr (4.7 mm)



## Manually Inflating Retrograde Cardioplegia Catheter

The manually inflating retrograde cardioplegia catheter is designed to maximize patient protection by providing global myocardial protection.

- Manual inflation of the balloon allows surgical control over balloon inflation
- Variety of handle and stylet designs that facilitate insertion for a variety of surgical techniques
- Optional Retractable anti-retraction technology to prevent balloon slippage

10 units per case

### Pre-shaped stylet and handle

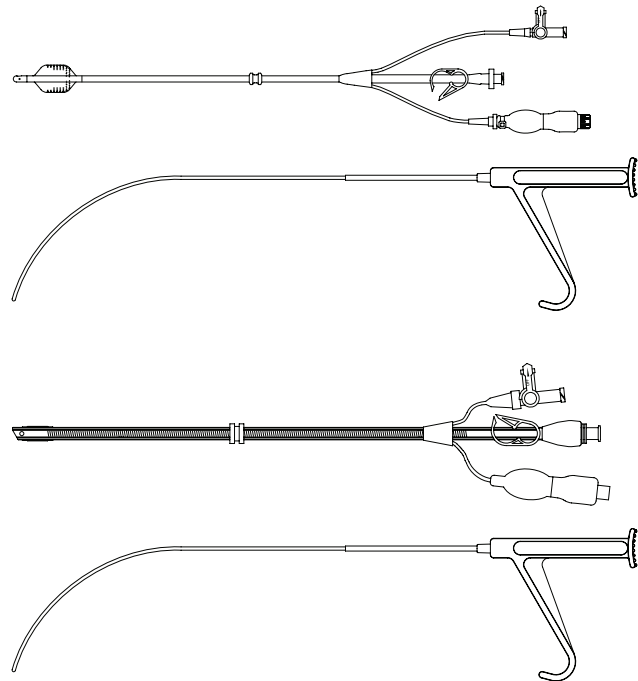
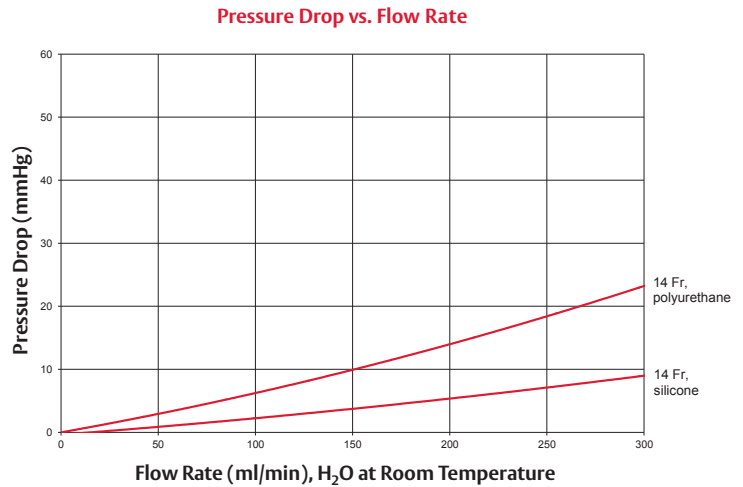
12.5 inch (32 cm) overall length

Textured polyurethane balloon and retractguard lumen

RC2014MIBB      14 Fr (4.7 mm)

Smooth silicone balloon

RC014MIBB      14 Fr (4.7 mm)



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  - b. Does not perform satisfactorily for the purposes and indications described in the labeling
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  - e. Product which has been marked or labeled with anything other than the standard Edwards label
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