

## SEE™ Imaging Technology

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## Extracorporeal Circuit Cannulae

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SEE™ Imaging Device  
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Suction Circuit Products  
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Indexes

SEE™

Arterial Cannulae

Venous Cannulae

Femoral Cannulae & Kits

Antegrade Perfusion Cannulae

Retrograde Perfusion Cannulae

Cardioplegia Adapters

Suction Tubes

Sumps

Vents

Surgical Accessories

Cardio Kits & Packs

Product Code Index

Pediatric Product Code Index

Contact Info



This section provides product information for our SEE™ Brand of products and their specific configurations.

*Pediatric and Adult Sizes*

## Products included in this Section.

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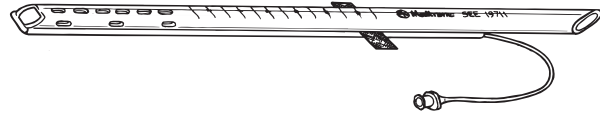
## SEE™

The SEE™ is a mediastinal silicone drain with a radiopaque stripe coupled with a closed-ended ultrasound transducer sleeve. The suture tabs on the drain may be used to anchor the device. Depth marks are provided to indicate any tube migration. Model 19711 has a transducer sleeve that is sized for pediatric biplane transesophageal echo probe and Model 19716 has a transducer sleeve that is sized for an adult transesophageal echo probe. Both are coated to minimize friction. The female luer connector permits the introduction of water into the transducer sleeve as an echo coupling medium.

*5 per carton*

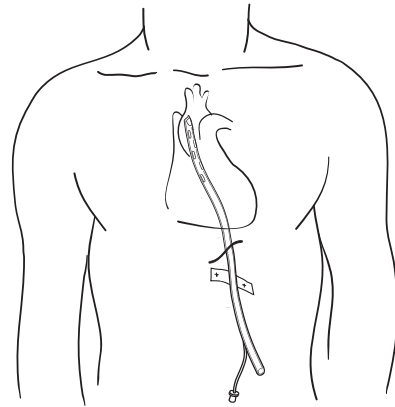
**Probe is 9 mm drain - 18" (45.7 cm) length**

19711	11 mm sleeve
19716	16 mm sleeve



SEE™ Imaging  
Device

SEE™



SEE™ Application



This section provides product information for all our Arterial Cannulae brands and their specific configurations.

*Pediatric and Adult Sizes*

*Elongated or Tapered Bodies*

*Wirewound and Non-wirewound Bodies*

*Straight, Curved or Angled Tips*

*Plastic or Metal Tips*

*With or Without (Vented and Non-vented)*

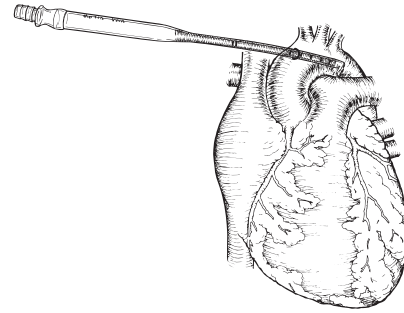
*Barbed Connectors*

*Cannulae length from 7" (17.8 cm) to 13" (33.0 cm)*

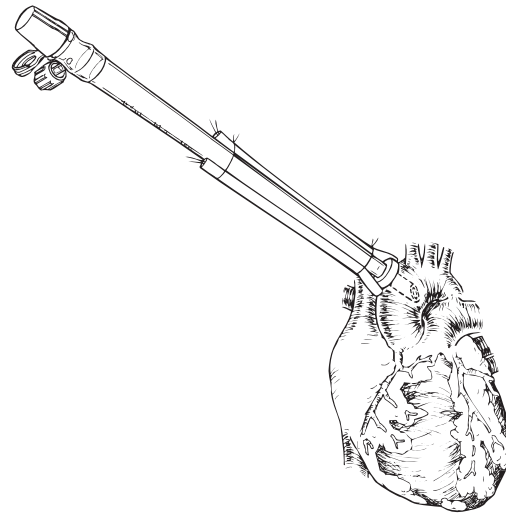
With the wide variety of configurations available, surgeons can find the right cannulae for their specific needs and uses.

## Products included in this Section.

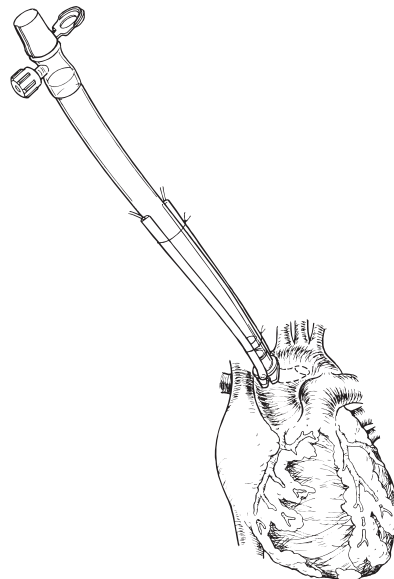
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Elongated One Piece Arterial Cannula Application



Straight Tip Arterial Cannula Application



Curved Tip Arterial Cannula Application

Arterial  
Cannulae

Venous  
Cannulae

Femoral  
Cannulae  
& Kits

Extracorporeal Circuit Products



## EOPA™ Arterial Cannulae

These cannulae feature thin wall tips with elongated, one piece, kink resistant wirewound bodies. This construction allows for higher flow rates with minimal pressure differential. A dilator along with depth markings and a radiopaque suture collar permit precise positioning of the cannulae.

10 per carton

### Adult - 12" (30.5 cm) length

#### Blunt tip introducer without guidewire

Vented 3/8" (0.95 cm) connector

- 77418 18 Fr. (6.0 mm)
- 77420 20 Fr. (6.7 mm)
- 77422 22 Fr. (7.3 mm)
- 77424 24 Fr. (8.0 mm)

Non-vented 3/8" (0.95 cm) connector

- 77518 18 Fr. (6.0 mm)
- 77520 20 Fr. (6.7 mm)
- 77522 22 Fr. (7.3 mm)
- 77524 24 Fr. (8.0 mm)

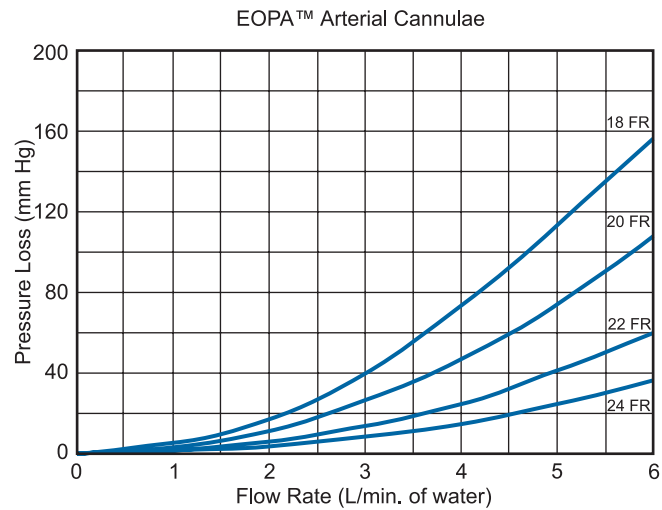
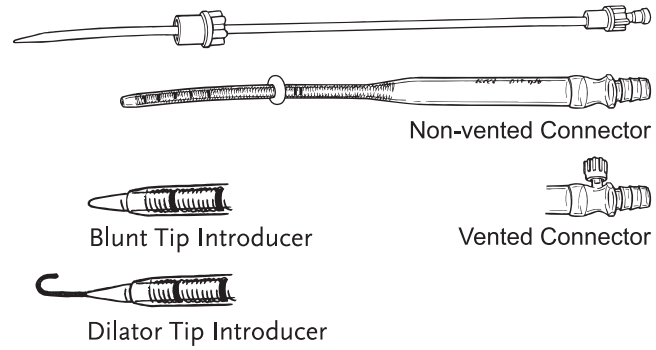
#### Dilator tip introducer with 0.038" (0.1 cm) guidewire

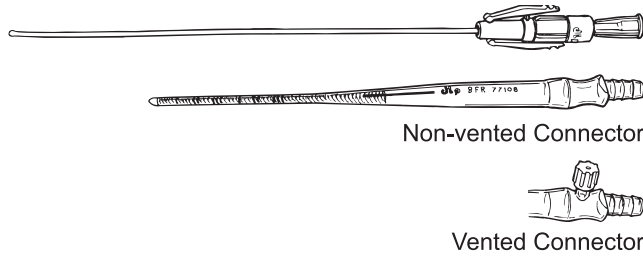
Vented 3/8" (0.95 cm) connector

- 77618 18 Fr. (6.0 mm)
- 77620 20 Fr. (6.7 mm)
- 77622 22 Fr. (7.3 mm)
- 77624 24 Fr. (8.0 mm)

Non-vented 3/8" (0.95 cm) connector

- 77718 18 Fr. (6.0 mm)
- 77720 20 Fr. (6.7 mm)
- 77722 22 Fr. (7.3 mm)
- 77724 24 Fr. (8.0 mm)





## DLP® Pediatric One Piece Arterial Cannulae

These cannulae feature beveled, thin wall tips with elongated, one piece, kink resistant wirewound bodies. This construction allows for higher flow rates with minimal pressure differential. A Flow-Guard™ style introducer along with depth markings permit precise positioning of the cannulae.

5 per carton

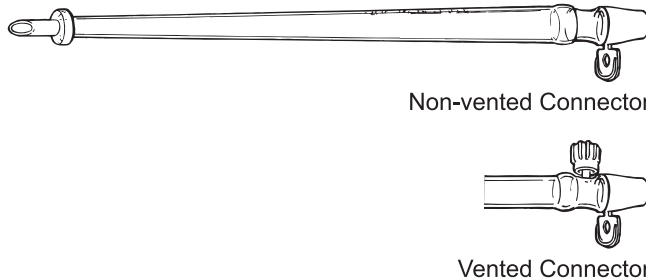
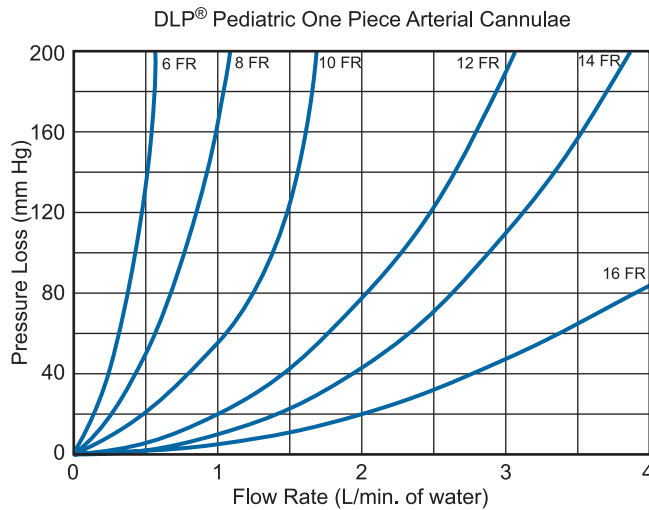
### Pediatric - 9" (22.9 cm) length

Vented 1/4" (0.64 cm) connector

77006	6 Fr. (2.0 mm)
77008	8 Fr. (2.7 mm)
77010	10 Fr. (3.3 mm)
77012	12 Fr. (4.0 mm)
77014	14 Fr. (4.7 mm)
77016	16 Fr. (5.3 mm)

Non-vented 1/4" (0.64 cm) connector

77106	6 Fr. (2.0 mm)
77108	8 Fr. (2.7 mm)
77110	10 Fr. (3.3 mm)
77112	12 Fr. (4.0 mm)
77114	14 Fr. (4.7 mm)
77116	16 Fr. (5.3 mm)



## DLP® Flexible Arch Cannulae

These cannulae feature beveled tips with tapered, one piece bodies. This construction allows for higher flow rates with minimal pressure differential. An adjustable depth ring together with tip orientation and depth markings permits precise positioning of the cannulae.

20 per carton

### Adult 11" (27.9 cm) length

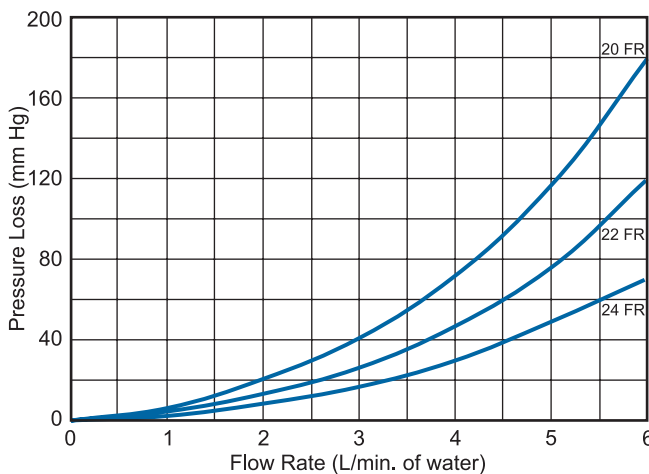
Vented 3/8" (0.95 cm) connector

70420	20 Fr. (6.7 mm)
70422	22 Fr. (7.3 mm)
70424	24 Fr. (8.0 mm)

### Adult 11" (27.9 cm) length

Non-vented 3/8" (0.95 cm) connector

71420	20 Fr. (6.7 mm)
71422	22 Fr. (7.3 mm)
71424	24 Fr. (8.0 mm)



Arterial Cannulae  
 Venous Cannulae  
 Femoral Cannulae & Kits  
 Extracorporeal Circuit Products

## DLP® Straight Tip Arterial Cannulae

These cannulae feature beveled, thin wall tips attached to tapered cannula bodies. This construction allows for higher flow rates with minimal pressure differential. A tip orientation line permits precise positioning of the cannulae.  
 20 per carton

### Pediatric - 7" (17.8 cm) length

Connection site 1/4" (0.64 cm)	
75000	Carton - (5 each of 8, 10, 12, 14 Fr.)
75008	8 Fr. (2.7 mm)
75010	10 Fr. (3.3 mm)
75012	12 Fr. (4.0 mm)
75014	14 Fr. (4.7 mm)
70016	16 Fr. (5.3 mm) clear tip

### Soft body

74008	8 Fr. (2.7 mm)
74010	10 Fr. (3.3 mm)
74012	12 Fr. (4.0 mm)
74014	14 Fr. (4.7 mm)

### Adult - 7" (17.8 cm) length

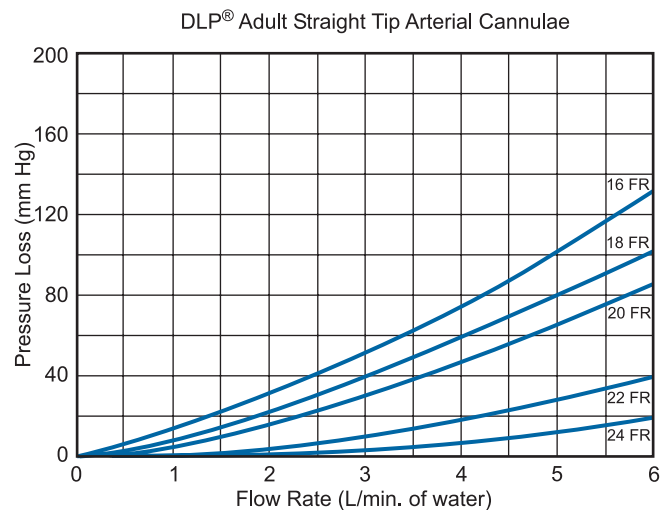
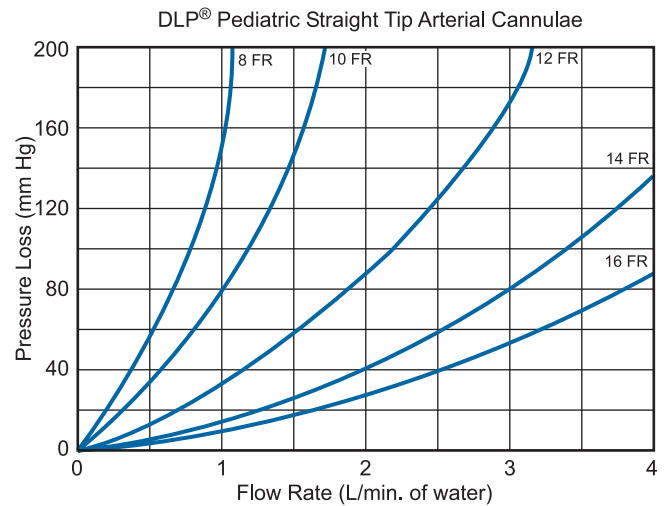
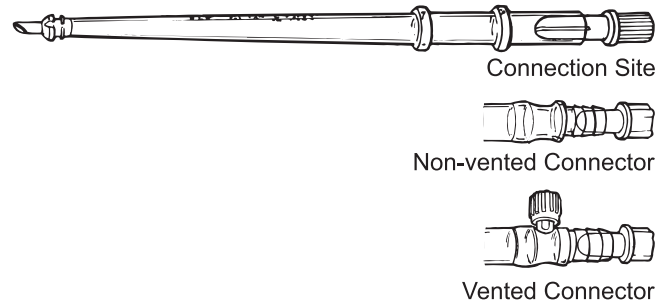
Connection site 3/8" (0.95 cm)	
75300	Carton - (5 each of 18, 20, 22, 24 Fr.)
73016	16 Fr. (5.3 mm) clear tip
75318	18 Fr. (6.0 mm)
75320	20 Fr. (6.7 mm)
75322	22 Fr. (7.3 mm)
75324	24 Fr. (8.0 mm)

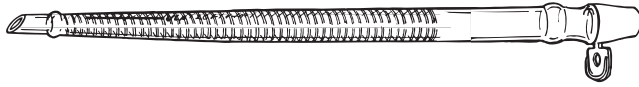
### Adult - 8" (20.3 cm) length

Vented 3/8" (0.95 cm) connector	
76020	20 Fr. (6.7 mm)
76022	22 Fr. (7.3 mm)
76024	24 Fr. (8.0 mm)
Non-vented 3/8" (0.95 cm) connector	
76118	18 Fr. (6.0 mm)
76120	20 Fr. (6.7 mm)
76122	22 Fr. (7.3 mm)
76124	24 Fr. (8.0 mm)

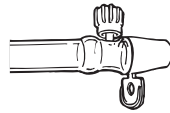
### Adult - 10" (25.4 cm) length

Vented 3/8" (0.95 cm) connector	
76320	20 Fr. (6.7 mm)
76322	22 Fr. (7.3 mm)
76324	24 Fr. (8.0 mm)





Non-vented Connector



Vented Connector

## Select Series® Straight Tip Arterial Cannulae

These cannulae feature beveled, thin wall tips with tapered, one piece, kink resistant wirewound bodies. This construction allows for higher flow rates with minimal pressure differential. A tip orientation line permits precise positioning of the cannulae.

20 per carton

### Adult - 12" (30.5 cm) length

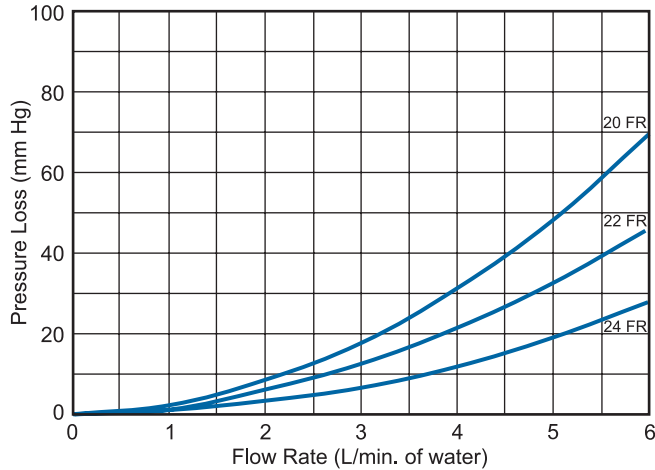
Vented 3/8" (0.95 cm) connector

- 72120 20 Fr. (6.7 mm)
- 72122 22 Fr. (7.3 mm)
- 72124 24 Fr. (8.0 mm)

Non-vented 3/8" (0.95 cm) connector

- 72220 20 Fr. (6.7 mm)
- 72222 22 Fr. (7.3 mm)
- 72224 24 Fr. (8.0 mm)

Select Series® Straight Tip Arterial Cannulae



Arterial Cannulae

Venous Cannulae

Femoral Cannulae & Kits

Extracorporeal Circuit Products

## Select Series® Angled Tip Arterial Cannulae

These cannulae feature beveled, thin wall tips with tapered, one piece, kink resistant wirewound bodies. This construction allows for higher flow rates with minimal pressure differential. A tip orientation line permits precise positioning of the cannulae.

20 per carton

### Adult - 12" (30.5 cm) length

#### 45° tip without sideholes

Vented 3/8" (0.95 cm) connector

72420 20 Fr. (6.7 mm)

72422 22 Fr. (7.3 mm)

72424 24 Fr. (8.0 mm)

Non-vented 3/8" (0.95 cm) connector

72520 20 Fr. (6.7 mm)

72522 22 Fr. (7.3 mm)

72524 24 Fr. (8.0 mm)

#### 45° tip with side holes

Vented 3/8" (0.95 cm) connector

73420 20 Fr. (6.7 mm)

73422 22 Fr. (7.3 mm)

73424 24 Fr. (8.0 mm)

Non-vented 3/8" (0.95 cm) connector

73520 20 Fr. (6.7 mm)

73522 22 Fr. (7.3 mm)

73524 24 Fr. (8.0 mm)

### Adult - 12" (30.5 cm) length

#### 80° tip without sideholes

Vented 3/8" (0.95 cm) connector

72720 20 Fr. (6.7 mm)

72722 22 Fr. (7.3 mm)

72724 24 Fr. (8.0 mm)

Non-vented 3/8" (0.95 cm) connector

72820 20 Fr. (6.7 mm)

72822 22 Fr. (7.3 mm)

72824 24 Fr. (8.0 mm)

#### 80° tip with side holes

Vented 3/8" (0.95 cm) connector

73720 20 Fr. (6.7 mm)

73722 22 Fr. (7.3 mm)

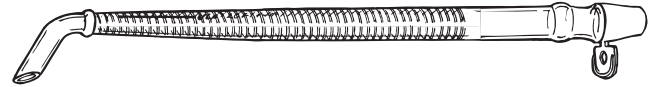
73724 24 Fr. (8.0 mm)

Non-vented 3/8" (0.95 cm) connector

73820 20 Fr. (6.7 mm)

73822 22 Fr. (7.3 mm)

73824 24 Fr. (8.0 mm)

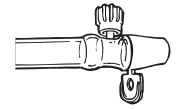


Without Side Holes

Non-vented Connector

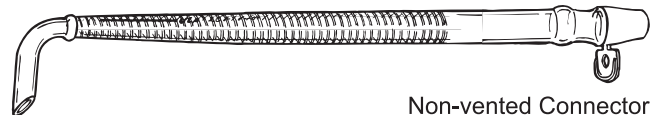
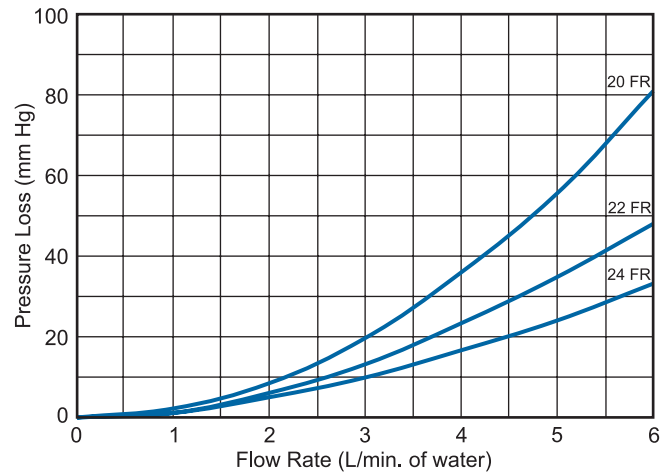


With Side Holes



Vented Connector

Select Series® 45° Tip Arterial Cannulae

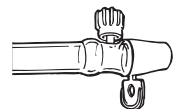


Without Side Holes

Non-vented Connector

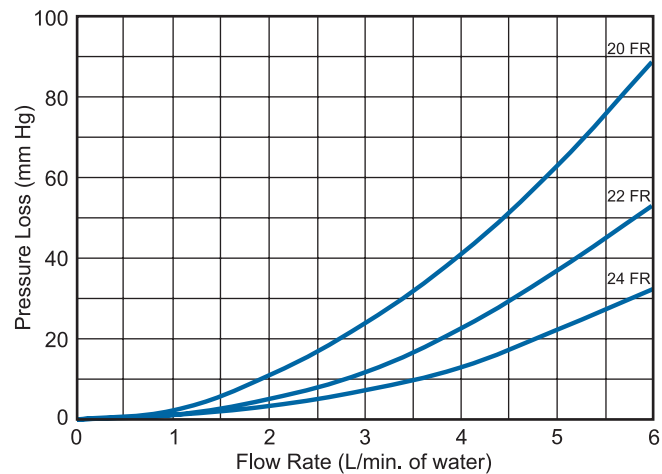


With Side Holes



Vented Connector

Select Series® 80° Tip Arterial Cannulae



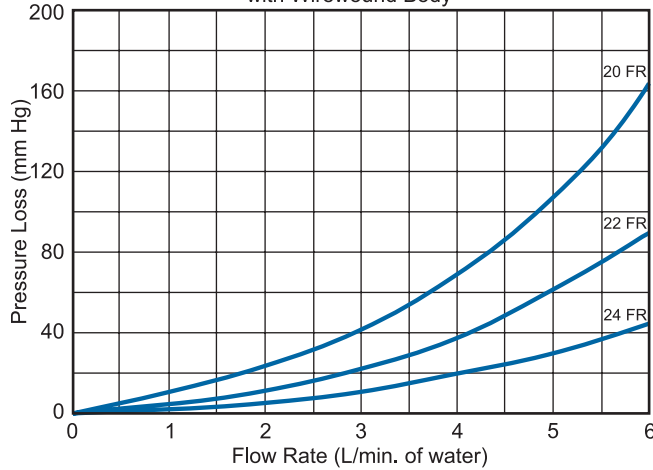


With Flange



Without Flange

DLP® Adult Curved Tip Arterial Cannulae  
with Wirewound Body



## DLP® Curved Tip Arterial Cannulae with Wirewound Body

These cannulae feature beveled, thin wall, curved tips with longer, kink resistant wirewound bodies. This construction allows for higher flow rates with minimal pressure differential and positions the connection site further away from the surgical field. A tip orientation line permits precise positioning of the cannulae.

10 per carton

### Adult - 13" (33.0 cm) length

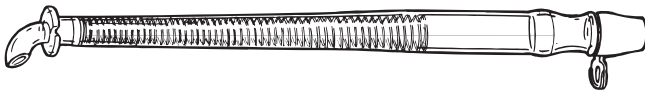
#### Curved tip with flange

Connection site 3/8" (0.95 cm)

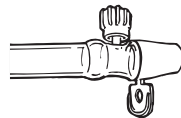
87020	20 Fr. (6.7 mm)
87022	22 Fr. (7.3 mm)
87024	24 Fr. (8.0 mm)

#### Curved tip without flange

87920	20 Fr. (6.7 mm)
87922	22 Fr. (7.3 mm)
87924	24 Fr. (8.0 mm)

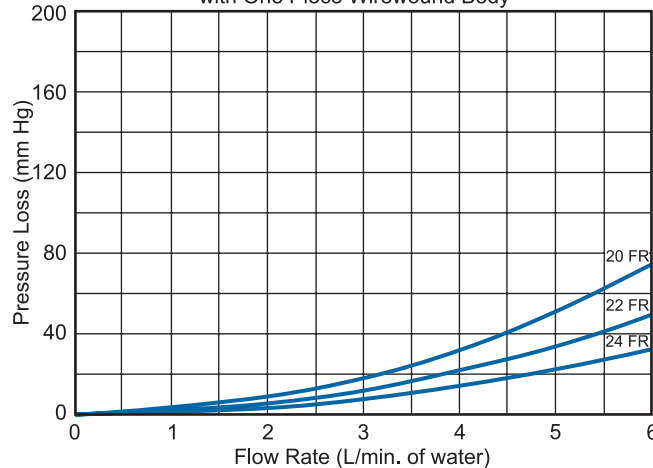


Non-vented Connector



Vented Connector

DLP® Adult Curved Tip Arterial Cannulae  
with One Piece Wirewound Body



## DLP® Curved Tip Arterial Cannulae with One Piece Wirewound Body

These cannulae feature beveled, thin wall, curved tips with tapered, one piece, kink resistant wirewound bodies. This construction allows for higher flow rates with minimal pressure differential. A tip orientation line permits precise positioning of the cannulae.

10 per carton

### Adult - 11" (27.9 cm) length

Vented 3/8" (0.95 cm) connector

87220	20 Fr. (6.7 mm)
87222	22 Fr. (7.3 mm)
87224	24 Fr. (8.0 mm)

Non-vented 3/8" (0.95 cm) connector

87120	20 Fr. (6.7 mm)
87122	22 Fr. (7.3 mm)
87124	24 Fr. (8.0 mm)

Arterial Cannulae

Venous Cannulae

Femoral Cannulae & Kits

Extracorporeal Circuit Products

## DLP® Metal Tip Arterial Cannulae

These cannulae feature beveled, thin wall, curved metal tips attached to tapered cannula bodies. This construction allows for higher flow rates with minimal pressure differential. A choice of either standard or soft flange are available. The soft flanges conform to the shape of the aorta to improve positioning and stability. A tip orientation line permit precise positioning of the cannulae.

20 per carton

### Adult 8.5" (21.6 cm) length

#### Soft flange

Vented 3/8" (0.95 cm) connector

80020 20 Fr. (6.7 mm)

80022 22 Fr. (7.3 mm)

80024 24 Fr. (8.0 mm)

Non-vented 3/8" (0.95 cm) connector

80120 20 Fr. (6.7 mm)

80122 22 Fr. (7.3 mm)

80124 24 Fr. (8.0 mm)

#### Rigid flange

Vented 3/8" (0.95 cm) connector

80220 20 Fr. (6.7 mm)

80222 22 Fr. (7.3 mm)

80224 24 Fr. (8.0 mm)

Non-vented 3/8" (0.95 cm) connector

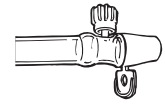
80320 20 Fr. (6.7 mm)

80322 22 Fr. (7.3 mm)

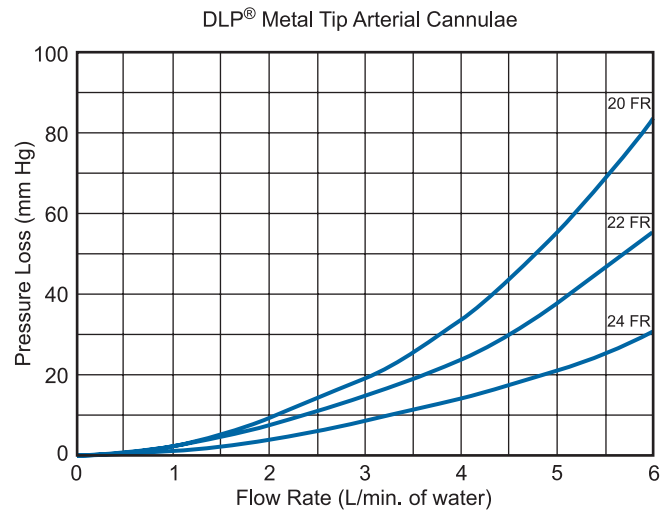
80324 24 Fr. (8.0 mm)



Non-vented Connector



Vented Connector





With Flange

Connection Site



Without Flange



Non-vented Connector



Vented Connector

## DLP® Curved Tip Arterial Cannulae

These cannulae feature beveled, thin wall curved tips attached to tapered cannula bodies. This construction allows for higher flow rates with minimal pressure differential. A tip orientation line permits precise positioning of the cannulae. *20 per carton*

### Adult - 7" (17.8 cm) length

#### Curved tip with flange

Connection site 3/8" (0.95 cm)

83020	20 Fr. (6.7 mm)
83022	22 Fr. (7.3 mm)
83024	24 Fr. (8.0 mm)

#### Curved tip without flange

84020	20 Fr. (6.7 mm)
84022	22 Fr. (7.3 mm)
84024	24 Fr. (8.0 mm)

### Adult - 8" (20.3 cm) length

#### Curved tip with flange

Vented 3/8" (0.95 cm) connector

88020	20 Fr. (6.7 mm)
88022	22 Fr. (7.3 mm)
88024	24 Fr. (8.0 mm)

Non-vented 3/8" (0.95 cm) connector

88120	20 Fr. (6.7 mm)
88122	22 Fr. (7.3 mm)
88124	24 Fr. (8.0 mm)

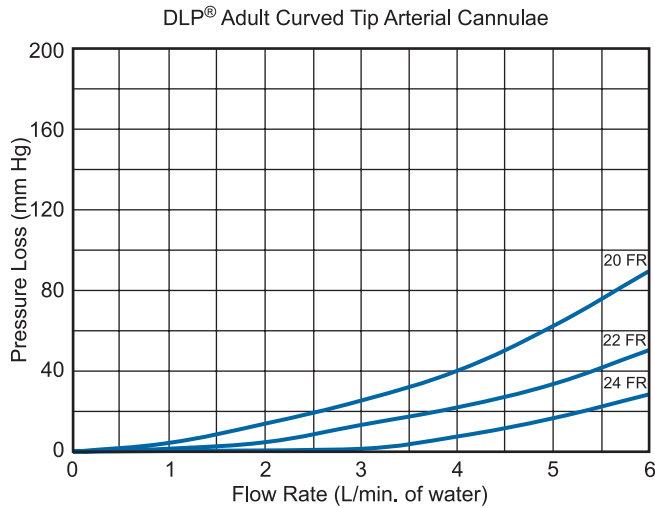
#### Curved tip without flange

Vented 3/8" (0.95 cm) connector

89020	20 Fr. (6.7 mm)
89022	22 Fr. (7.3 mm)
89024	24 Fr. (8.0 mm)

Non-vented 3/8" (0.95 cm) connector

89120	20 Fr. (6.7 mm)
89122	22 Fr. (7.3 mm)
89124	24 Fr. (8.0 mm)





## Adult - 10" (25.4 cm) length

### Curved tip without flange

Vented 3/8" (0.95 cm) connector

85020 20 Fr. (6.7 mm)

85022 22 Fr. (7.3 mm)

85024 24 Fr. (8.0 mm)

Non-vented 3/8" (0.95 cm) connector

85120 20 Fr. (6.7 mm)

85122 22 Fr. (7.3 mm)

85124 24 Fr. (8.0 mm)

### Curved tip with flange

Vented 3/8" (0.95 cm) connector

86020 20 Fr. (6.7 mm)

86022 22 Fr. (7.3 mm)

86024 24 Fr. (8.0 mm)

Non-vented 3/8" (0.95 cm) connector

86120 20 Fr. (6.7 mm)

86122 22 Fr. (7.3 mm)

86124 24 Fr. (8.0 mm)

### Curved tip with flange and soft body

Vented 3/8" (0.95 cm) connector

81018 18 Fr. (6.0 mm)

81020 20 Fr. (6.7 mm)

81022 22 Fr. (7.3 mm)

81024 24 Fr. (8.0 mm)

Non-vented 3/8" (0.95 cm) connector

81118 18 Fr. (6.0 mm)

81120 20 Fr. (6.7 mm)

81122 22 Fr. (7.3 mm)

81124 24 Fr. (8.0 mm)

### Curved tip without flange and soft body

Vented 3/8" (0.95 cm) connector

82018 18 Fr. (6.0 mm)

82020 20 Fr. (6.7 mm)

82022 22 Fr. (7.3 mm)

82024 24 Fr. (8.0 mm)

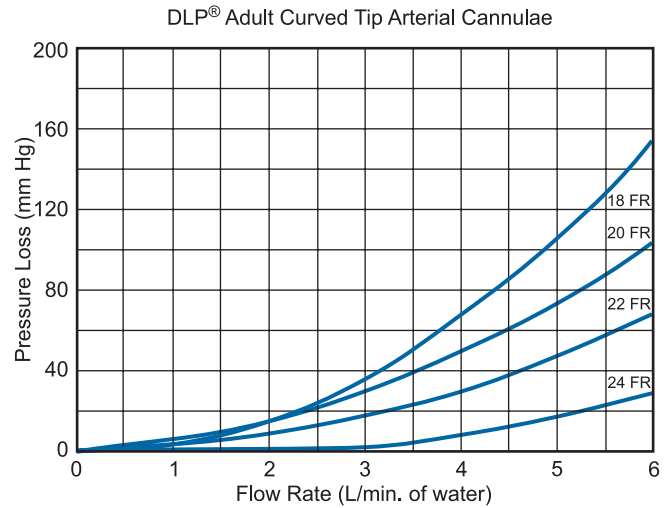
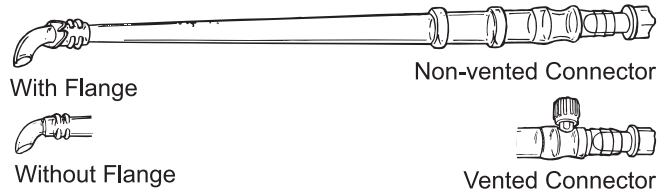
Non-vented 3/8" (0.95 cm) connector

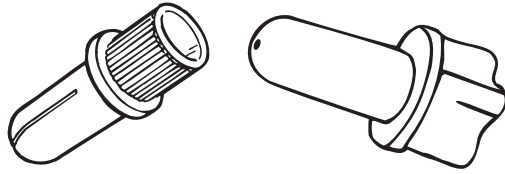
82118 18 Fr. (6.0 mm)

82120 20 Fr. (6.7 mm)

82122 22 Fr. (7.3 mm)

82124 24 Fr. (8.0 mm)





## DLP® Vent Plugs

These plugs are designed to fit into the connection site and/or connectors found on the arterial cannulae listed in this catalog. A slotted vent plug is designed for use with cannulae without connectors, while the porous vent plug is designed to work with cannulae with connectors.

*40 per carton*

### Slotted plugs

79001 1/4" (0.64 cm)

79002 3/8" (0.95 cm)

### Porous plugs

79000 3/8" (0.95 cm)

This section provides product information for all our Venous Cannulae brands and their specific configurations.

*Pediatric and Adult Sizes*

*Single Stage and Two Stage Bodies*

*Wirewound, Non-wirewound and Malleable Bodies*

*Straight and Right Angled Tips*

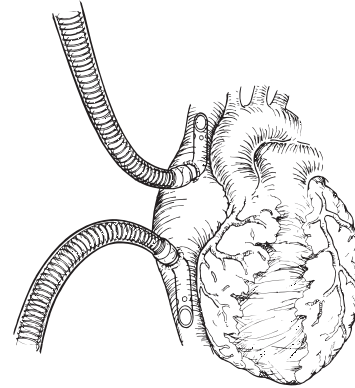
*Plastic or Metal Tips*

*With or Without Non-vented Barbed Connectors*

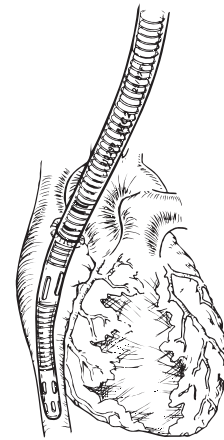
With the wide variety of configurations available, surgeons can find the right cannulae for their specific needs and uses.

## Products included in this Section

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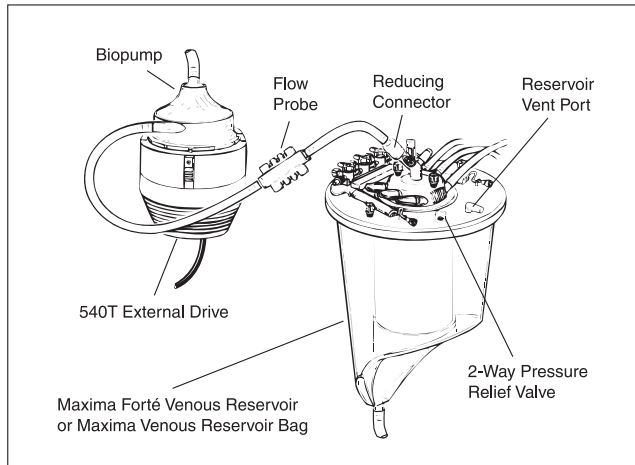


Single Stage Venous Cannulae Application (Bi-Caval)



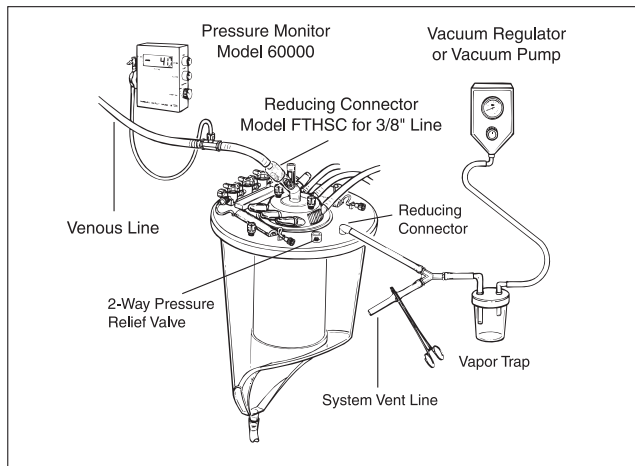
Two Stage Venous Cannula Application

Pump (Kinetic) assisted venous drainage



Kinetic assisted venous drainage incorporates a centrifugal pump into the venous line to augment venous return to the CPB circuit. The negative pressure generated by the centrifugal pump is used to mechanically aspirate venous blood from the patient.

Vacuum-assisted venous drainage



In vacuum assisted venous drainage, a sealed hardshell venous reservoir is maintained under slightly sub-atmospheric pressure by a regulated vacuum source. The vacuum within the venous reservoir augments venous drainage by actively extracting venous blood from the patient via the venous cannula.

## DLP® Single Stage Venous Cannulae with Right Angle Metal Tip

These cannulae feature kink resistant, wirewound bodies with beveled metal, multi-port tips. This construction allows for higher flow rates with minimal pressure differential. A tip orientation line permits precise positioning of the cannulae.

10 per carton

### Pediatric - 14" (35.6 cm) length

Connection site 1/4" (0.64 cm)

67312	12 Fr. (4.0 mm)
67314	14 Fr. (4.7 mm)
67316	16 Fr. (5.3 mm)
67318	18 Fr. (6.0 mm)
67320	20 Fr. (6.7 mm)

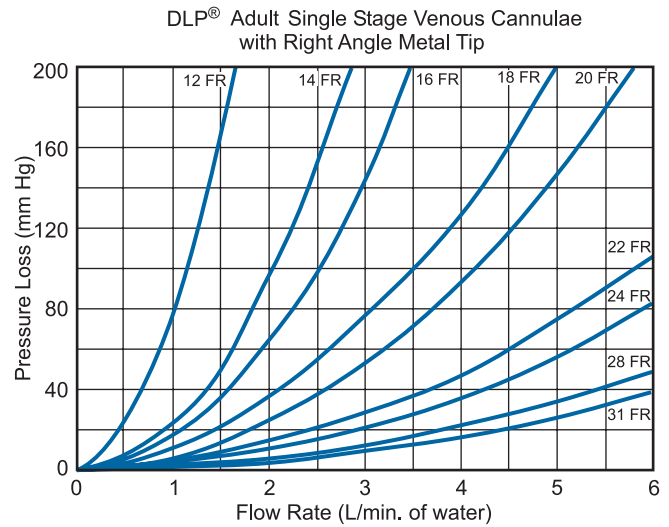
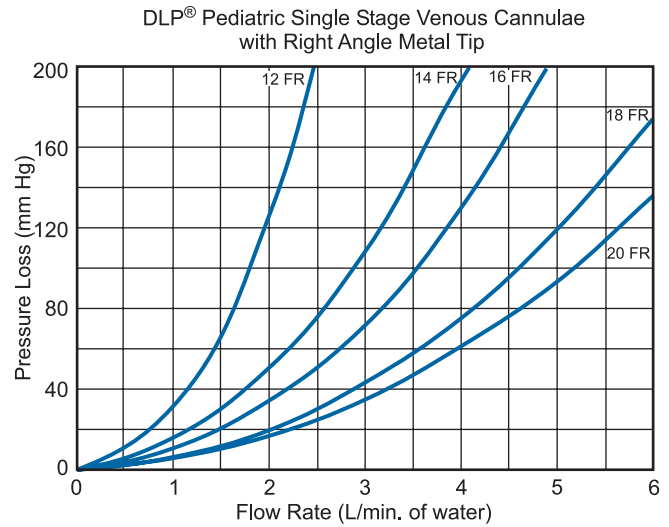
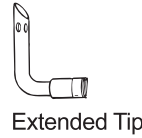
### Adult - 14" (35.6 cm) length

Connection site 3/8" (0.95 cm)

69312	12 Fr. (4.0 mm)
69314	14 Fr. (4.7 mm)
69316	16 Fr. (5.3 mm)
69318	18 Fr. (6.0 mm)
69320	20 Fr. (6.7 mm)
69322	22 Fr. (7.3 mm)
69324	24 Fr. (8.0 mm)
69328	28 Fr. (8.7 mm)
69331	31 Fr. (10.3 mm)

### Extended tip

69424	24 Fr. (8.0 mm)
69428	28 Fr. (8.7 mm)
69431	31 Fr. (10.3 mm)





## DLP® Single Stage Venous Cannulae

These cannulae feature one piece, kink resistant, wirewound bodies with tapered, multi-port tips which makes insertion easier. This construction allows for higher flow rates with minimal pressure differential. Depth markings permit precise positioning of the cannulae.

10 per carton

### Pediatric - 15" (38.1 cm) length

Connection site 1/4" (0.64 cm)

66112	12 Fr. (4.0 mm)
66114	14 Fr. (4.7 mm)
66116	16 Fr. (5.3 mm)

### Pediatric/Adult 15" (38.1 cm) length

Connection site 1/4"-3/8" (0.64-0.95 cm)

66118	18 Fr. (6.0 mm)
66120	20 Fr. (6.7 mm)
66122	22 Fr. (7.3 mm)
66124	24 Fr. (8.0 mm)

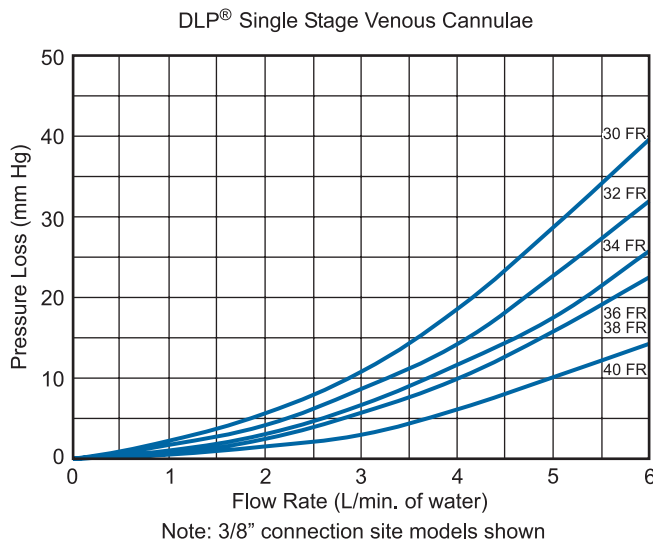
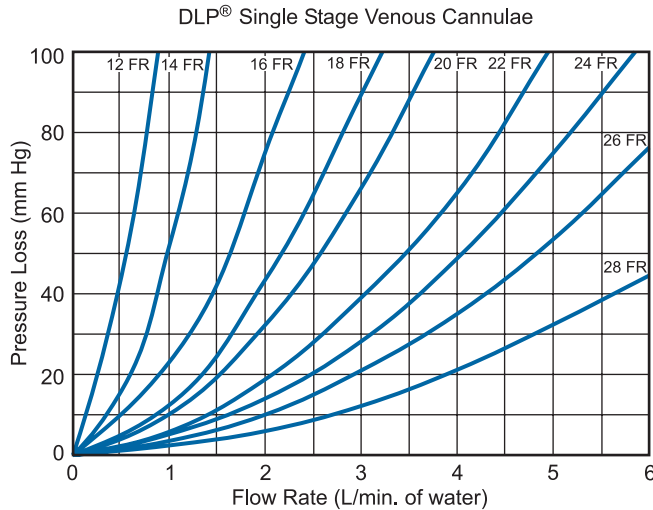
### Adult - 15" (38.1 cm) length

Connection site 3/8" (0.95 cm)

66126	26 Fr. (8.7 mm)
66128	28 Fr. (9.3 mm)
66130	30 Fr. (10.0 mm)
66132	32 Fr. (10.7 mm)
66134	34 Fr. (11.3 mm)
66236	36 Fr. (12.0 mm)
66238	38 Fr. (12.7 mm)
66240	40 Fr. (13.3 mm)

Connection site 1/2" (1.27 cm)

66136	36 Fr. (12.0 mm)
66140	40 Fr. (13.3 mm)



Arterial Cannulae  
 Venous Cannulae  
 Femoral Cannulae & Kits  
 Extracorporeal Circuit Products

## DLP® Malleable Single Stage Venous Cannulae

These cannulae feature malleable one piece, kink resistant, wirewound bodies with tapered, multi-port tips which makes insertion easier. This construction allows the surgeon's to shape and position the cannulae to their specific needs while also allowing higher flow rates with minimal pressure differential. Depth markings permit precise positioning of the cannulae.

10 per carton

### Pediatric - 15" (38.1 cm) length

Connection site 1/4" (0.64 cm)

68112	12 Fr. (4.0 mm)
68114	14 Fr. (4.7 mm)
68116	16 Fr. (5.3 mm)

### Pediatric/Adult - 15" (38.1 cm) length

Connection site 1/4"-3/8" (0.64-0.95 cm)

68118	18 Fr. (6.0 mm)
68120	20 Fr. (6.7 mm)
68122	22 Fr. (7.3 mm)
68124	24 Fr. (8.0 mm)

### Adult - 15" (38.1 cm) length

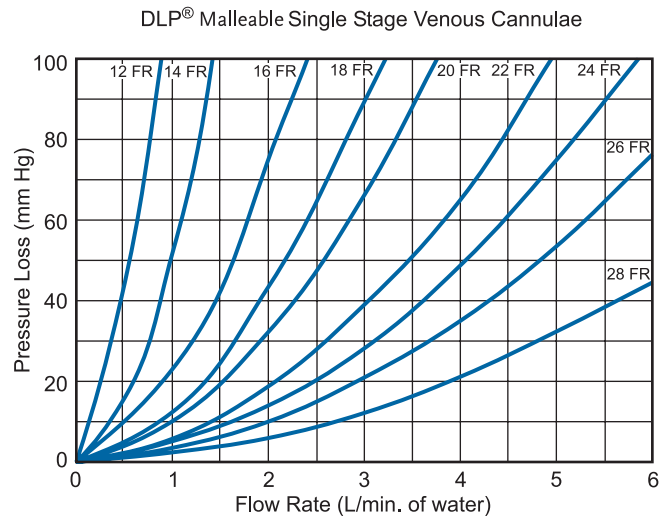
Connection site 3/8" (0.95 cm)

68126	26 Fr. (8.7 mm)
68128	28 Fr. (9.3 mm)
68130	30 Fr. (10.0 mm)
68132	32 Fr. (10.7 mm)
68134	34 Fr. (11.3 mm)

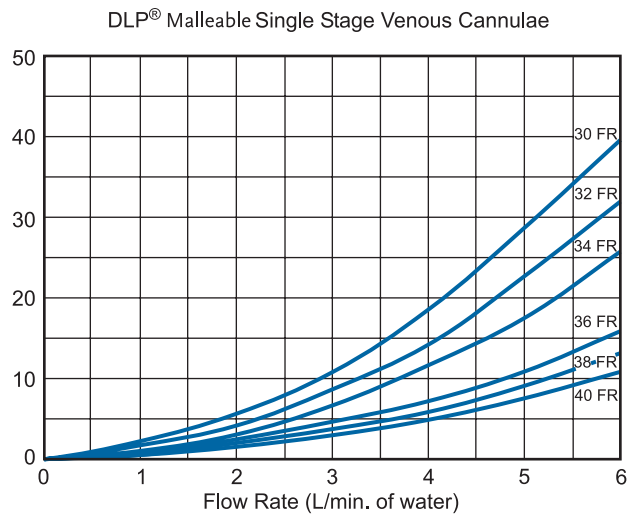
Connection site 1/2" (1.27 cm)

68136	36 Fr. (12.0 mm)
68138	38 Fr. (12.7 mm)
68140	40 Fr. (13.3 mm)

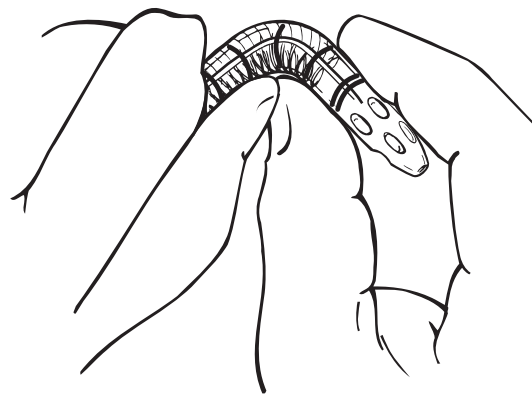
The malleable single stage venous cannulae are unique in allowing the surgeon to manipulate the cannula shape in virtually any position.



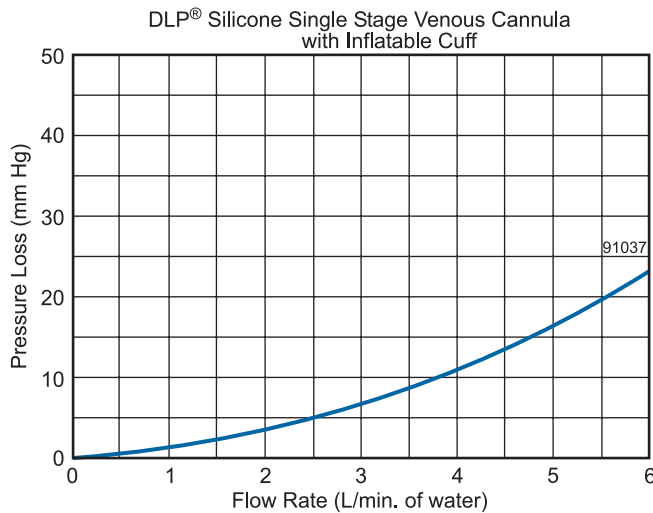
Note: Flow performance measurements taken on straight cannulae. Bending cannulae will affect flow rates.



Note: Flow performance measurements taken on straight cannulae. Bending cannulae will affect flow rates.



Single Stage Venous Cannulae with Malleable Body Detail



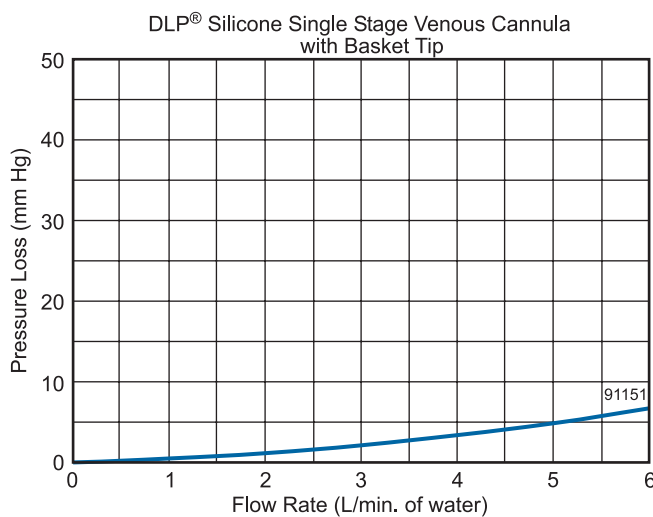
## DLP® Silicone Single Stage Venous Cannula with Inflation Cuff

This bi-caval cannula features a silicone, kink resistant, wirewound body with an inflatable cuff. This design maximizes venous drainage flow rates.

4 per carton

**Adult - 15" (38.1 cm) length**

Connection site 1/2" (1.27 cm)  
**91037** 37 Fr. (12.3 mm)



## DLP® Single Stage Venous Cannula with Basket Tip

This cannula features a non-wirewound body with an atrial basket. This design maximizes venous drainage flow rates.

10 per carton

**Adult - 15.5" (39.4 cm) length**

Connection site 1/2" (1.27 cm)  
**91151** 51 Fr. (17.0 mm)

Arterial Cannulae  
 Venous Cannulae  
 Femoral Cannulae & Kits  
 Extracorporeal Circuit Products



## DLP® VAD Cannula for Ventricular Assist

This cannula is suited for left or right atrial cannulation. Features include a kink resistant, wirewound body with a radiopaque, right angle, swirl tip. This design maximizes continuous venous drainage flow rates from the atrium and minimizes collapsing around the tip.

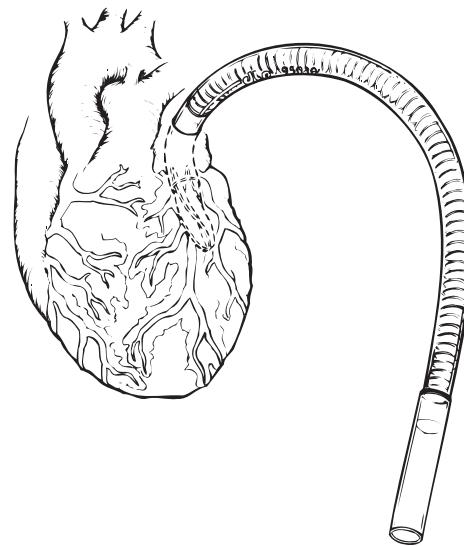
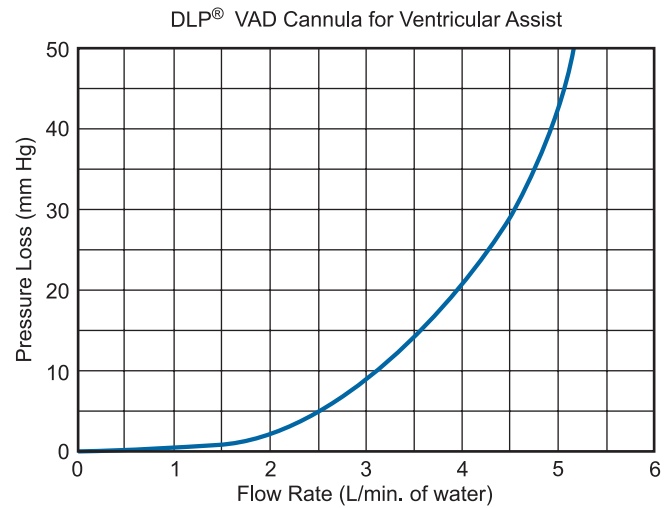
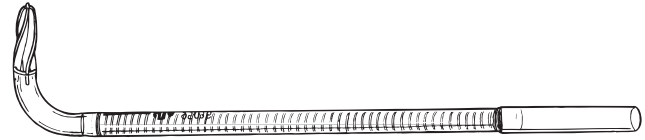
10 per carton

**Adult - 14" (35.6 cm) length**

Connection site 3/8" (0.95 cm)

95036

36 Fr. (12.0 mm)



VAD Cannula Application

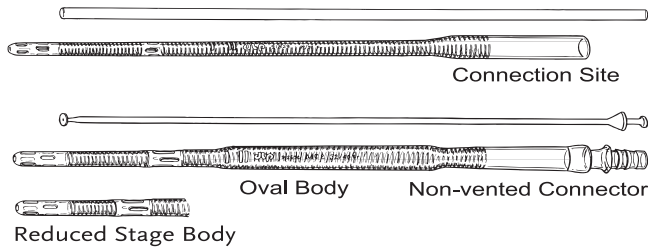


Arterial  
Cannulae

Venous  
Cannulae

Femoral  
Cannulae  
& Kits

Extracorporeal Circuit Products

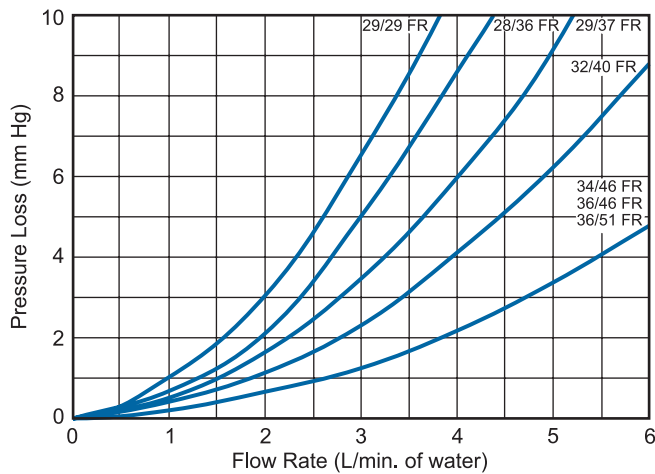


## MC2™ Two Stage Venous Cannulae

These cannulae feature kink resistant, wirewound bodies with multi-port tips and atrial baskets. This construction allows for higher flow rates with minimal pressure differential. The oval body models have a unique, low profile body which provides the needed drainage while taking up less space in the surgical field. This low profile design makes the cannula ideal for use during minimally invasive procedures. Depth markings permit precise positioning of the cannulae.

10 per carton

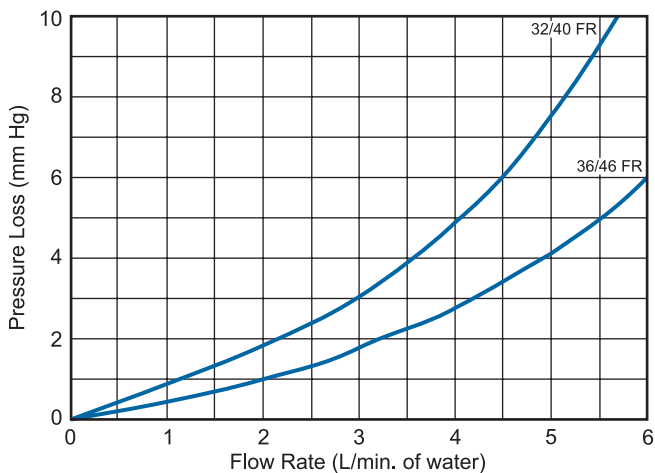
MC2™ Two Stage Venous Cannulae



### Adult - 15" (38.1 cm) length

- Connection site 3/8" (0.95 cm)
  - 91228 28/36 Fr. (9.3/12.0 mm)
- Connection site 1/2" (1.27 cm)
  - 91236 36/46 Fr. (12.0/15.3 mm)
  - 91240 32/40 Fr. (10.7/13.3 mm)
  - 91246 34/46 Fr. (11.3/15.3 mm)
  - 91251 36/51 Fr. (12.0/17.0 mm)
- Non-vented 1/2" (1.27 cm) connector
  - 91228C 28/36 Fr. (9.3/12.0 mm)
  - 91236C 36/46 Fr. (12.0/15.3 mm)
  - 91240C 32/40 Fr. (10.7/13.3 mm)
  - 91246C 34/46 Fr. (11.3/15.3 mm)
  - 91251C 36/51 Fr. (12.0/17.0 mm)

MC2™ Two Stage Venous Cannulae (Oval Body)



### Reduced stage body

- Connection site 1/2" (1.27 cm)
  - 91229 29/37 Fr. (9.7/12.3 mm)
- Non-vented 1/2" (1.27 cm) connector
  - 91229C 29/37 Fr. (9.7/12.3 mm)

### Thin wall body

- Connection site 3/8" (0.95 cm)
  - 91329 29/29 Fr. (9.7/9.7 mm)
- Non-vented 3/8" (0.95 cm) connector
  - 91329C 29/29 Fr. (9.7/9.7 mm)

### Oval body

- Connection site 1/2" (1.27 cm)
  - 91263 32/40 Fr. (10.7/13.3 mm)
  - 91265 36/46 Fr. (12.0/15.3 mm)
- Non-vented 1/2" (1.27 cm) connector
  - 91263C 32/40 Fr. (10.7/13.3 mm)
  - 91265C 36/46 Fr. (12.0/15.3 mm)

## VC2® Atrial Caval Venous Cannulae

These cannulae feature a patented swirl tip and large slotted atrial basket with either a non-wirewound or kink resistant, wirewound body. The soft pliable swirl tip creates a stent-like action to promote continuous flow and minimize “chatter.” The oval body models have a unique, low profile body which provides the needed drainage while taking up less space in the surgical field. This low profile design makes the cannula ideal for use during minimally invasive procedures. Depth markings permit precise positioning of the cannulae.

10 per carton

### Adult - 15” (38.1 cm) length

#### Non-wirewound body

Connection site 1/2” (1.27 cm)

93451 34/51 Fr. (11.3/17.0 mm)

Non-vented 1/2” (1.27 cm) connector

93451C 34/51 Fr. (11.3/17.0 mm)

#### Wirewound body

Connection site 3/8” (0.95 cm)

93438 34/38 Fr. (11.3/12.0 mm)

Connection site 1/2” (1.27 cm)

93448 34/48 Fr. (11.3/16.0 mm)

Non-vented 1/2” (1.27 cm) connector

93438C 34/38 Fr. (11.3/12.0 mm)

93448C 34/48 Fr. (11.3/16.0 mm)

#### Oval wirewound body

Connection site 3/8” (0.95 cm)

93463 34/38 Fr. (11.3/12.0 mm)

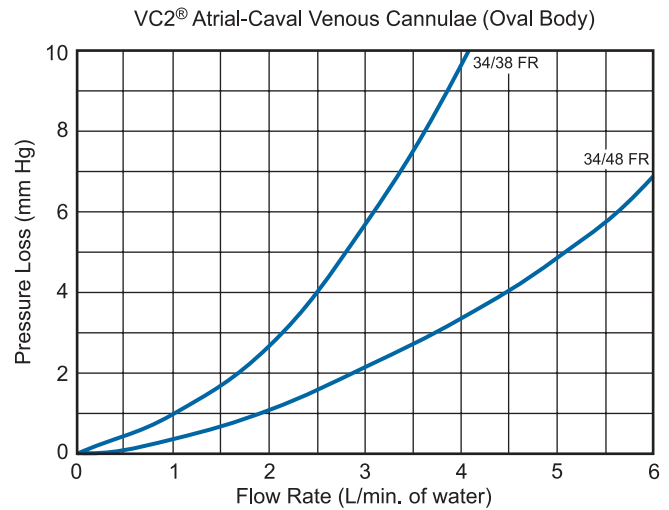
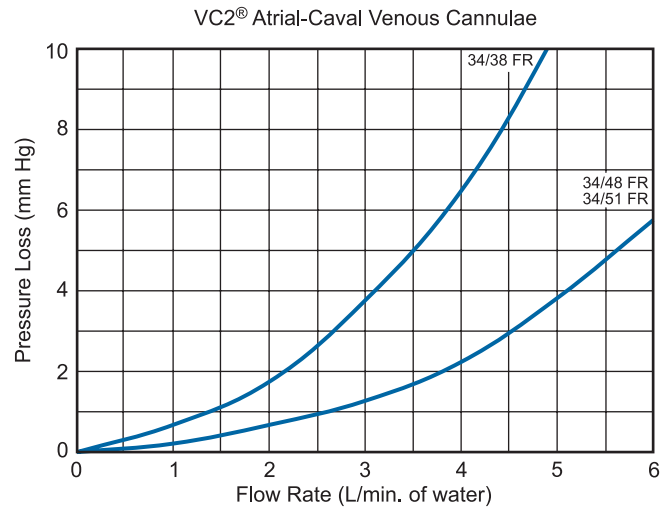
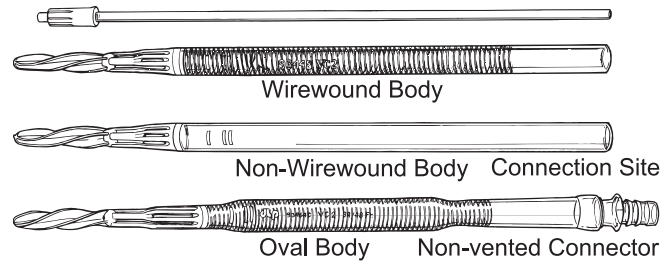
Connection site 1/2” (1.27 cm)

93464 34/48 Fr. (11.3/16.0 mm)

Non-vented 1/2” (1.27 cm) connector

93463C 34/38 Fr. (11.3/12.0 mm)

93464C 34/48 Fr. (11.3/16.0 mm)





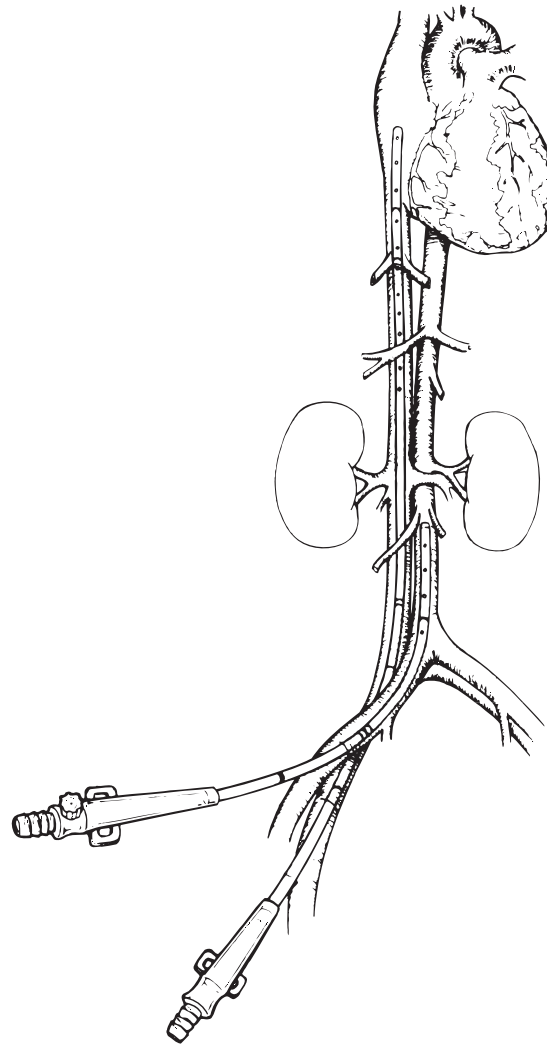
This section provides product information for all our Femoral Cannulae brands and kits with their specific configurations.

- Arterial and Venous Cannulae*
- Pediatric and Adult Sizes*
- Radiopaque and Clear Bodies*
- Wirewound and Non-wirewound Bodies*
- With Vented or Non-Vented Barbed Connectors*
- Individual Cannula or Kits*

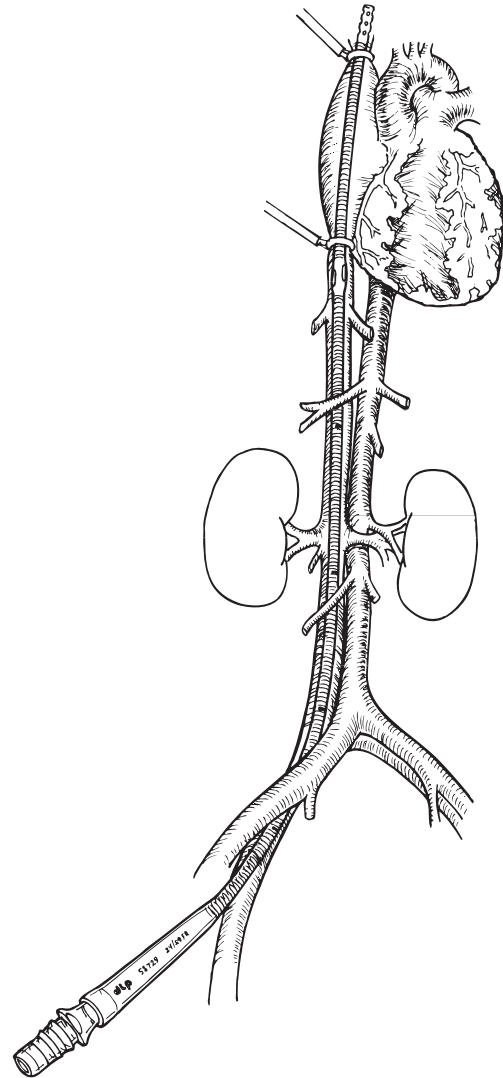
With the wide variety of configurations available, surgeons can find the right cannulae for their specific needs and uses.

## Products included in this Section

Carpentier Bi-Caval Femoral Venous Cannulae .....	29
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Femoral Arterial and Venous Cannula Application



Carpentier Bi-Caval Femoral Venous Cannula Application

## Carpentier Bi-Caval Femoral Venous Cannulae

These cannulae have a unique wirewound, kink resistant, two stage design which more efficiently drains the heart by meeting the 3:1 IVC/SVC drainage requirements. By simultaneously draining the IVC and SVC, superior flow rates are obtained. This design eliminates the need for two cannulae (one in the IVC and one in the SVC) which occupy a large portion of a very limited space, making these cannulae ideal for use during mitral valve, ASD and small incision heart cases. Depth markings permit precise positioning of the cannulae. All cannulae supplied with a tapered tip dilator and 0.038" (0.1 cm) x 180 cm guidewire.

4 per carton

### Adult - 27.75" (70.5 cm) length

Non-vented 3/8" (0.95 cm) connector

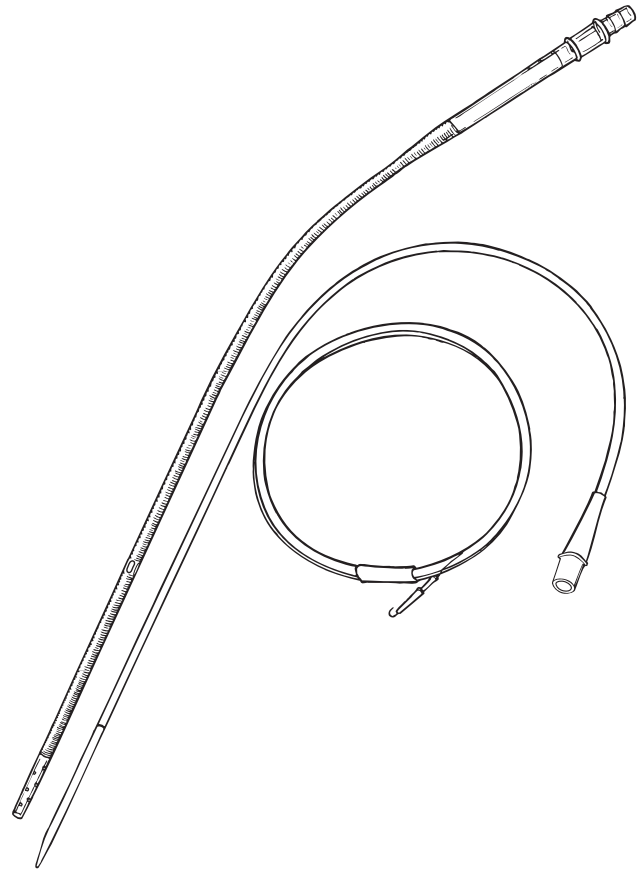
58629 24/29 Fr. (8.0/9.7 mm)

58633 30/33 Fr. (10.0/11.0 mm)

Non-vented 1/2" (1.27 cm) connector

58729 24/29 Fr. (8.0/9.7 mm)

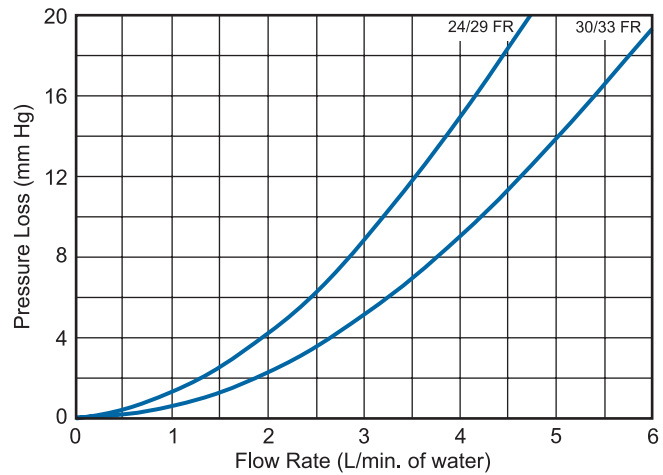
58733 30/33 Fr. (10.0/11.0 mm)



Extracorporeal Circuit Products

Femoral Cannulae & Kits  
Venous Cannulae  
Arterial Cannulae

Carpentier Bi-Caval Femoral Venous Cannulae



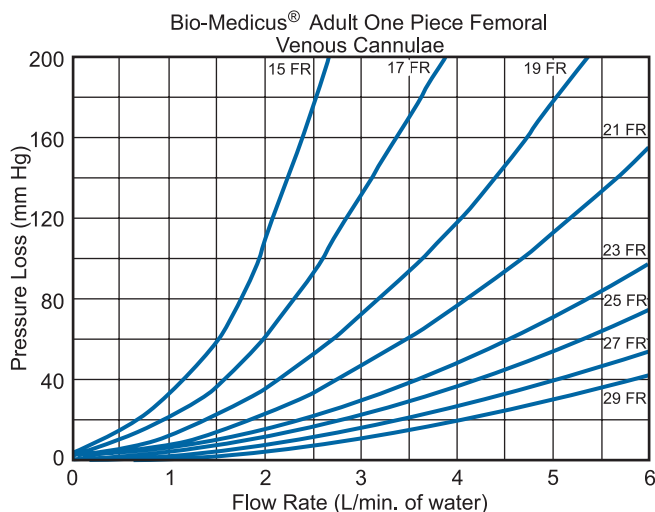
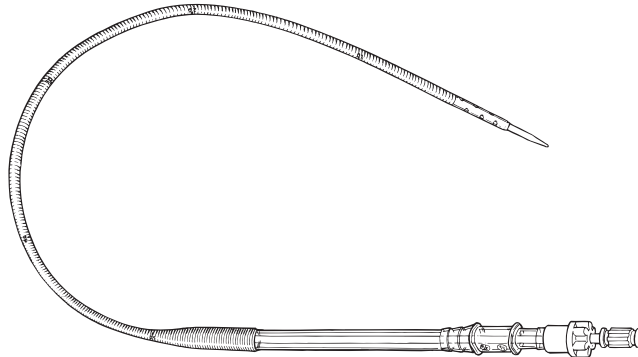
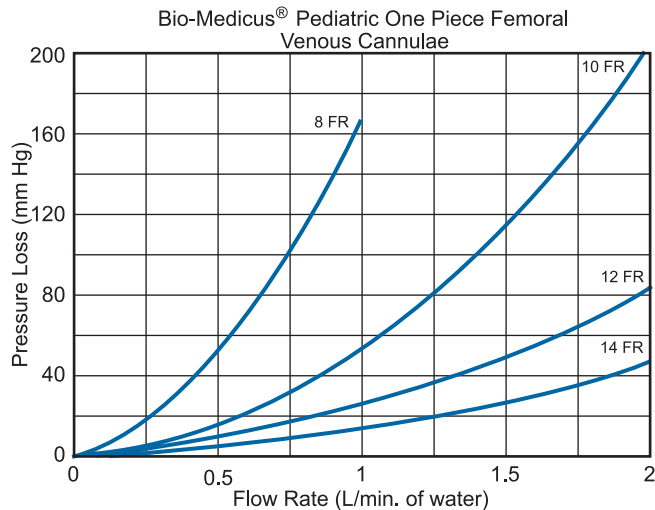
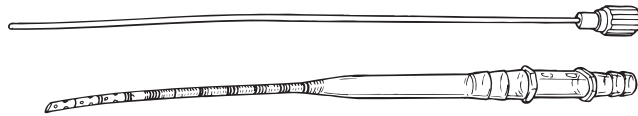


Arterial  
Cannulae

Venous  
Cannulae

Femoral  
Cannulae  
& Kits

Extracorporeal Circuit Products



## Bio-Medicus® One Piece Femoral Venous Cannulae

These cannulae feature elongated, one piece, kink resistant wirewound bodies. Pediatric sizes have multi-port, beveled tips while the adult sizes have multi-port tips. This construction allows for higher flow rates with minimal pressure differential. An introducer along with depth markings permit precise positioning of the cannulae. All Bio-Medicus® cannulae are available with the Carmeda Bio-Active® coating and are designated with a “CB” prefix.

1 per carton

### Pediatric 7.5” (19 cm) length

Non-vented 1/4” (0.64 cm) connector

96830-008 8 Fr. (2.7 mm)

CB96835-008

96830-010 10 Fr. (3.3 mm)

CB96835-010

96830-012 12 Fr. (4.0 mm)

CB96835-012

96830-014 14 Fr. (4.7 mm)

CB96835-014

### Adult 30” (76.2 cm) length

Non-vented 3/8” (0.95 cm) connector

96670-015 15 Fr. (5.0 mm)

CB96670-015

96670-017 17 Fr. (5.7 mm)

CB96670-017

96670-019 19 Fr. (6.3 mm)

CB96670-019

96670-021 21 Fr. (7.0 mm)

CB96670-021

Non-vented 1/2” (1.27 cm) connector

96370-023 23 Fr. (7.7 mm)

CB96345-023

96370-025 25 Fr. (8.3 mm)

CB96345-025

96370-027 27 Fr. (9.0 mm)

CB96345-027

96370-029 29 Fr. (9.7 mm)

CB96345-029



## Bio-Medicus® One Piece Femoral Arterial Cannulae

These cannulae feature elongated, one piece, kink resistant wirewound bodies. Pediatric sizes have beveled tips while the adult sizes have multi-port tips. This construction allows for higher flow rates with minimal pressure differential. An introducer along with depth markings permit precise positioning of the cannulae. All Bio-Medicus® cannulae are available with the Carmeda Bio-Active® coating and are designated with a “CB” prefix.

1 per carton

### Pediatric 7.5” (19 cm) length

Non-vented 1/4” (0.64 cm) connector

96820-008 8 Fr. (2.7 mm)

CB96825-008

96820-010 10 Fr. (3.3 mm)

CB96825-010

96820-012 12 Fr. (4.0 mm)

CB96825-012

96820-014 14 Fr. (4.7 mm)

CB96825-014

### Adult 17” (43.2 cm) length

Vented 3/8” (0.95 cm) connector

96570-015 15 Fr. (5.0 mm)

CB96570-015

96570-017 17 Fr. (5.7 mm)

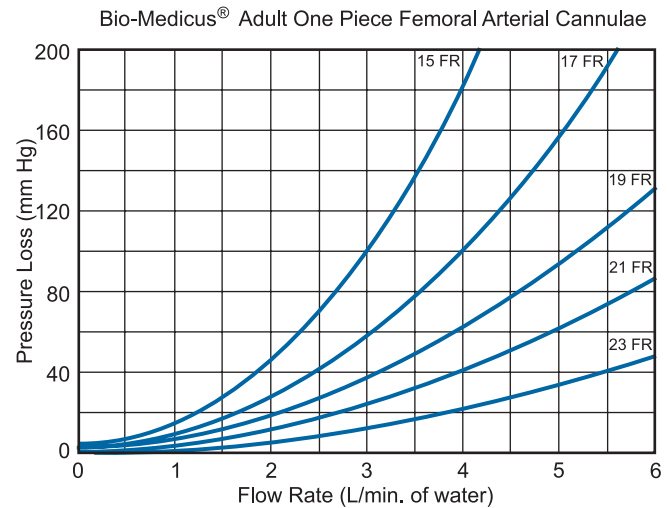
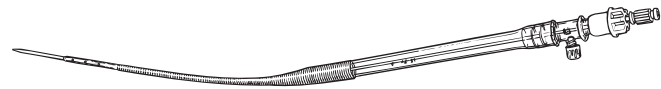
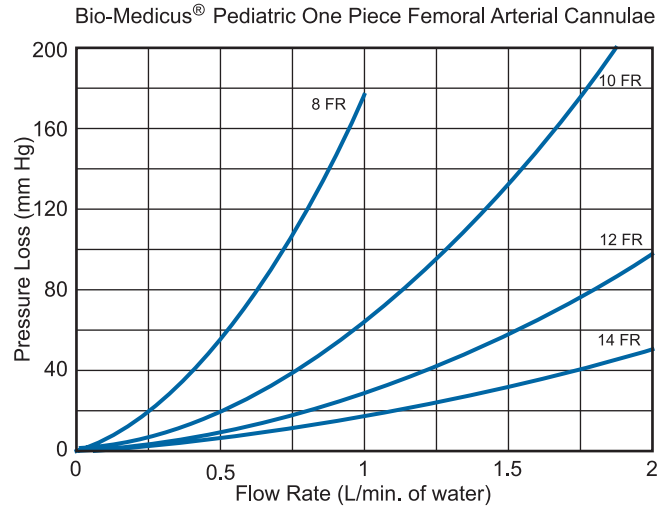
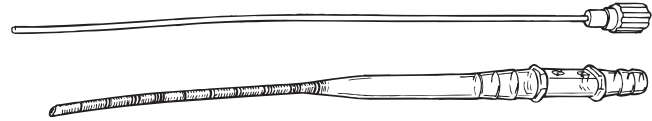
CB96570-017

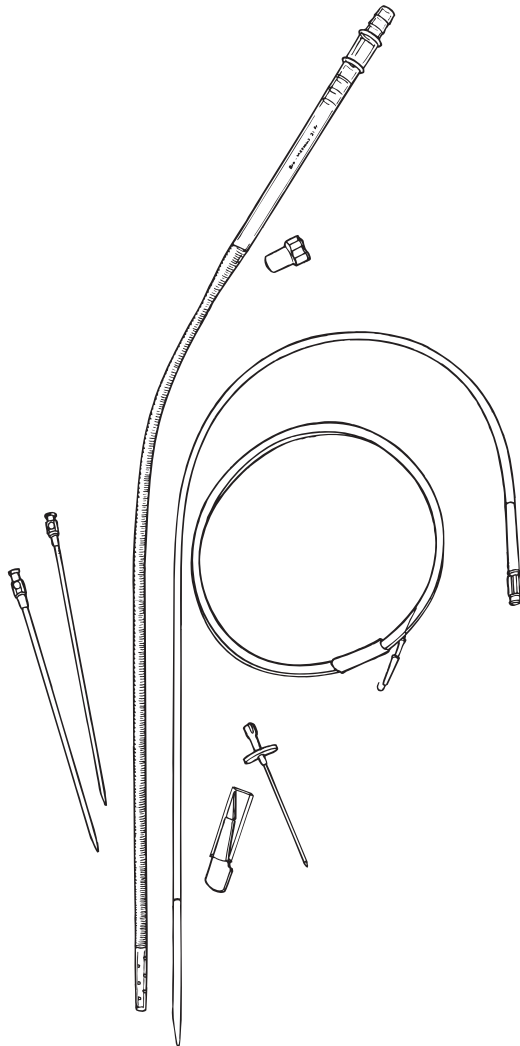
96570-019 19 Fr. (6.3 mm)

CB96570-019

96570-021 21 Fr. (7.0 mm)

CB96570-021





## Bio-Medicus® One Piece Femoral Cannula Kits

These kits provide the appropriate size femoral arterial or venous cannula for femoral access cardiopulmonary bypass. All Bio-Medicus® cannulae are available with the Carmeda Bio-Active® coating and are designated with a “CB” prefix. Designed for percutaneous or direct visualization insertion, these kits contain the following insertion components:

- 1 - Femoral (arterial or venous) cannula with introducer
  - 1 - 18 ga. Seldinger style needles
  - 1 - 8/10 Fr. (2.7/3.3 mm) stepped dilator
  - 1 - 12/14 Fr. (4.0/4.7 mm) stepped dilator
  - 1 - 0.038” (0.1 cm) x 150 cm guidewire (venous cannulae)
  - 1 - 0.038” (0.1 cm) x 100 cm guidewire (arterial cannulae)
  - 1 - #11 scalpel blade
- 1 kit per carton*

### Adult 17” (43.2 cm) length arterial

Vented 3/8” (0.95 cm) connector

96530-015 15 Fr. (5.0 mm)

CB96535-015

96530-017 17 Fr. (5.7 mm)

CB96535-017

96530-019 19 Fr. (6.3 mm)

CB96535-019

96530-021 21 Fr. (7.0 mm)

CB96535-021

Vented 1/2” (1.27 cm) connector

96540-023 23 Fr. (7.7 mm)

CB96540-023

### Adult 30” (76.2 cm) length venous

Non-vented 3/8” (0.95 cm) connector

96600-015 15 Fr. (5.0 mm)

CB96605-015

96600-017 17 Fr. (5.7 mm)

CB96605-017

96600-019 19 Fr. (6.3 mm)

CB96605-019

96600-021 21 Fr. (7.0 mm)

CB96605-021

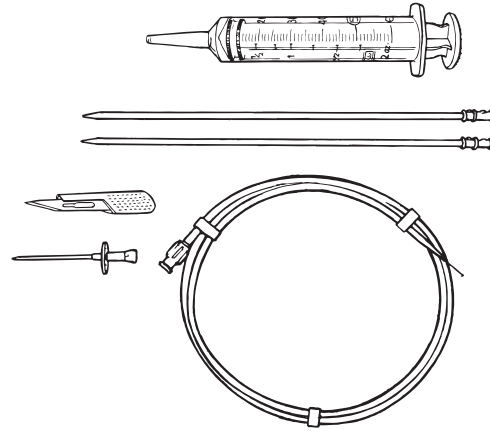
96600-023 23 Fr. (7.7 mm)

CB96605-023

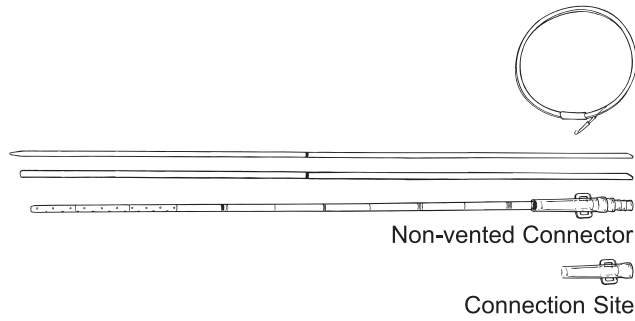
## Bio-Medicus® Standard Insertion Kit

This kit provides components for femoral access cardiopulmonary bypass. Designed for percutaneous or direct visualization insertion, these kits contain the following insertion components:

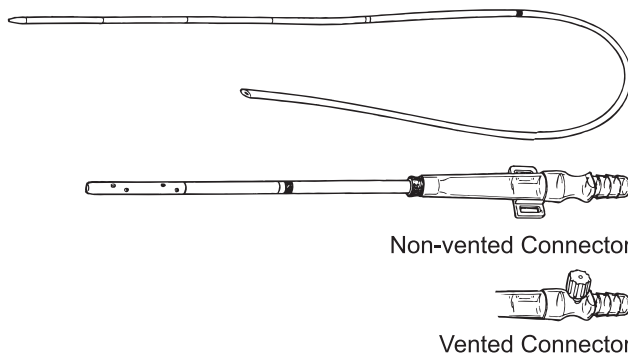
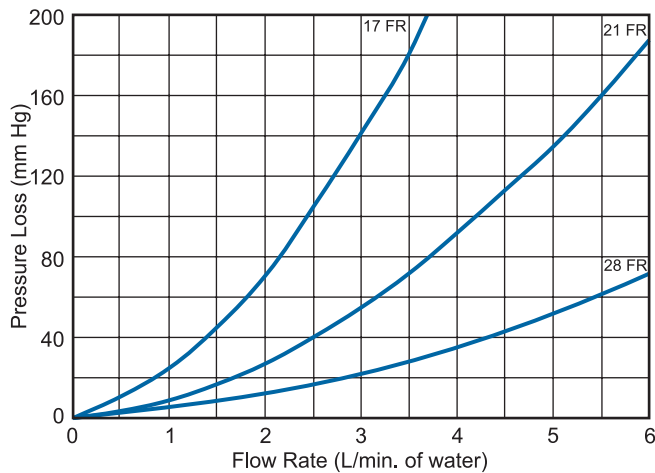
- 1 - 60 cc catheter tip syringe
  - 1 - 18 ga. Seldinger style needles
  - 1 - 8/10 Fr. (2.7/3.3 mm) stepped dilator
  - 1 - 12/14 Fr. (4.0/4.7 mm) stepped dilator
  - 1 - 0.038" (0.1 cm) x 150 cm guidewire
  - 1 - #11 scalpel blade
- 5 kit per carton*



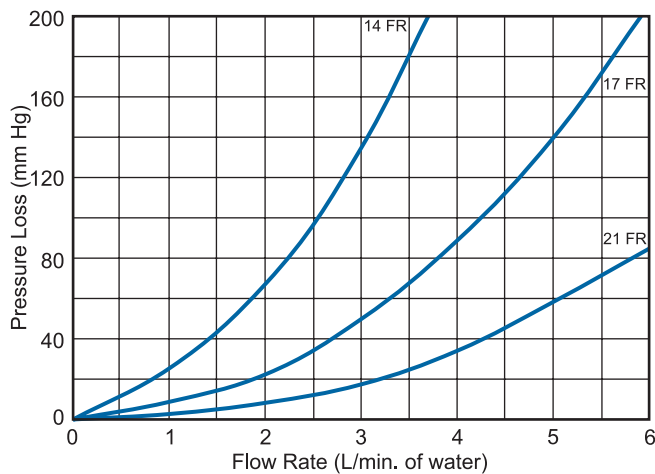
96550



DLP® Femoral Venous Cannulae



DLP® Femoral Arterial Cannulae



## DLP® Femoral Venous Cannulae

These cannulae feature kink resistant, thin wall, radiopaque bodies with multiple side holes. Depth markings permit precise positioning of the cannulae. All cannulae supplied with a tapered tip dilator which facilitates insertion over 0.038" (0.1 cm) guidewire.

4 per carton

### Adult 21" (53.3 cm) length

Non-vented 3/8" (0.95 cm) connector	
<b>58517</b>	17 Fr. (5.7 mm)
<b>58521</b>	21 Fr. (7.0 mm)

### Adult 25.5" (64.8 cm) length

Connection site 3/8" (0.95 cm) and 0.038" (0.1 cm) x 180 cm guidewire	
<b>96328</b>	28 Fr. (9.3 mm)
Non-vented 3/8" (0.95 cm) connector and 0.038" (0.1 cm) x 180 cm guidewire	
<b>96428</b>	28 Fr. (9.3 mm)

## DLP® Femoral Arterial Cannulae

These cannulae feature kink resistant, thin wall, radiopaque bodies with multiple side holes. Depth markings permit precise positioning of the cannulae. All cannulae supplied with a tapered tip dilator which facilitates insertion over 0.038" (0.1 cm) guidewire.

4 per carton

### Adult 7" (17.8 cm) length

Vented 3/8" (0.95 cm) connector	
<b>57414</b>	14 Fr. (4.7 mm)
<b>57417</b>	17 Fr. (5.7 mm)
<b>57421</b>	21 Fr. (7.0 mm)
Non-vented 3/8" (0.95 cm) connector	
<b>57517</b>	17 Fr. (5.7 mm)
<b>57521</b>	21 Fr. (7.0 mm)

## DLP® Femoral Cannulae and Insertion Kits

These kits are designed to provide the appropriate size femoral arterial and venous cannulae for femoral access cardiopulmonary bypass. Designed for percutaneous or direct visualization insertion, these kits contain one femoral arterial and one femoral venous cannula and the following insertion components:

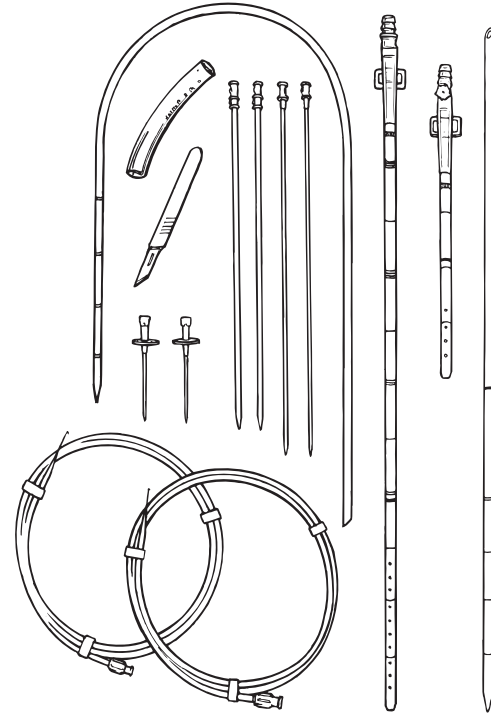
- 2 - 18 ga. Seldinger style needles
- 2 - 8 Fr. (2.7 mm) dilators
- 2 - 12 Fr. (4.0 mm) dilators
- 2 - 0.038" (0.1 cm) x 150 cm guidewire
- 1 - 3/8" (0.95 cm) arterial line adapter tube
- 1 - #11 scalpel blade
- 1 kit per carton

**Adult 7" (17.8 cm) length arterial with vented 3/8" (0.95 cm) connector and 21" (53.3 cm) length venous with non-vented 3/8" (0.95 cm) connector**

- |       |  |
|-------|--|
| 96014 | 14 Fr. (4.7 mm) arterial (57414)<br>17 Fr. (5.7 mm) venous (58517) |
| 96017 | 17 Fr. (5.7 mm) arterial (57417)<br>21 Fr. (7.0 mm) venous (58521) |
| 96021 | 21 Fr. (7.0 mm) arterial (57421)<br>21 Fr. (7.0 mm) venous (58521) |

**Adult 7" (17.8 cm) length arterial with non-vented 3/8" (0.95 cm) connector and 21" (53.3 cm) length venous with non-vented 3/8" (0.95 cm) connector**

- |       |  |
|-------|--|
| 96117 | 17 Fr. (5.7 mm) arterial (57517)<br>21 Fr. (7.0 mm) venous (58521) |
| 96121 | 21 Fr. (7.0 mm) arterial (57521)<br>21 Fr. (7.0 mm) venous (58521) |



- Femoral Cannulae & Kits
- Venous Cannulae
- Arterial Cannulae
- Extracorporeal Circuit Products

This section provides product information for all our Antegrade Perfusion Cannulae brands with their specific configurations.

*Aortic Root and Coronary Artery Cannulae*

*Pediatric and Adult Sizes*

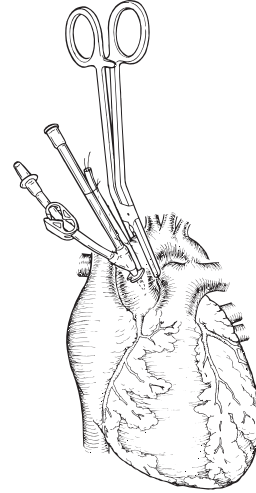
*Vented and Non-vented Bodies*

*PVC and Silicone Tips*

*Multiple Tip configurations*

*Pressure Monitoring options*

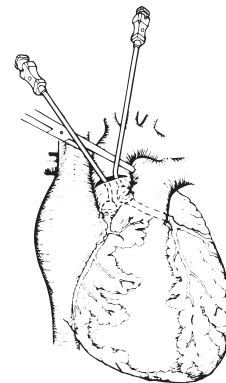
With the wide variety of configurations available, surgeons can find the right cannulae for their specific cardioplegia needs and uses.



Aortic Root Cannula with Vent Line Application

## Products included in this Section

DLP® Dual Lumen Aortic Root Cannulae with Vent Line .....	39
DLP® Aortic Root Cannulae .....	40
DLP® Aortic Root Cannulae with Vent Line.....	41
Cardioplegia Needles .....	42
DLP® Silicone Coronary Artery Ostial Cannulae .....	42
DLP® Coronary Artery Ostial Cannulae .....	43
DLP® High Flow Coronary Artery Ostial Cannulae ....	43



Coronary Artery Ostial Cannulae Application

Antegrade  
Perfusion  
Cannulae

Retrograde  
Perfusion  
Cannulae

Cardioplegia  
Adapters

Cardioplegia Circuit Products



## DLP® Dual Lumen Aortic Root Cannulae with Vent Line

These cannulae feature dual lumen tips attached to clear bodies with separate vent line. Additional features available with these cannulae include: left heart venting and simultaneous cardioplegia delivery and aspiration. All cannulae are supplied with a stainless steel introducer needle.

10 per carton

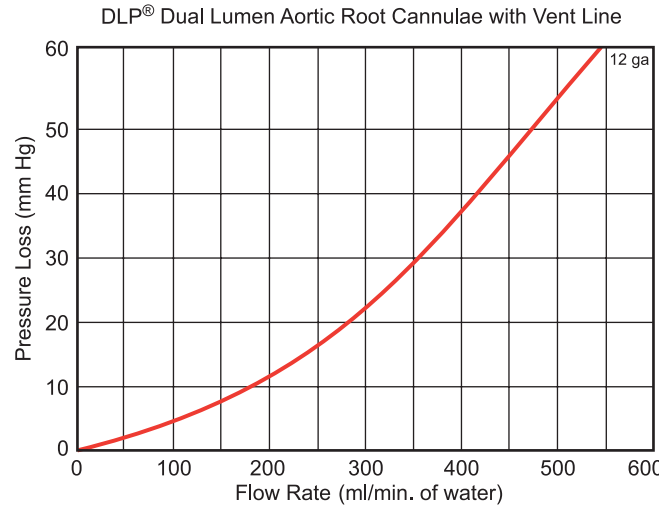
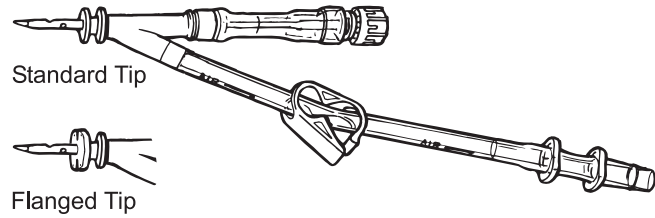
**Adult - 3.25 (8.3 cm) length**

**Standard tip**

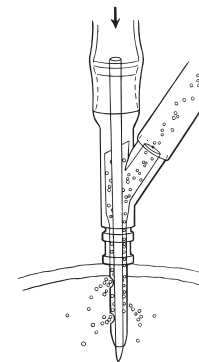
30401 12 ga (9 Fr.)

**Flanged tip**

30402 12 ga (9 Fr.)



The Dual Lumen Aortic Root Cannulae with Vent Line has a patented tip which allows the simultaneous infusion of cardioplegia and aspiration of air from the aorta.



Dual Lumen Aortic Root Application Detail

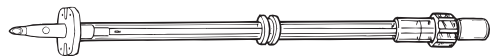
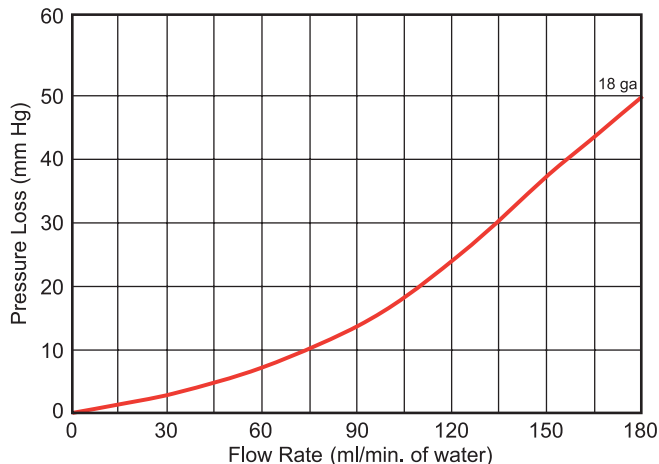
Cardioplegia Circuit Products

Antegrade Perfusion Cannulae  
Retrograde Perfusion Cannulae  
Cardioplegia Adapters



Pediatric

DLP® Pediatric Aortic Root Cannulae



Standard Tip

Adult

Standard Introducer



Slotted Long Tip



Flow-Guard™ Introducer

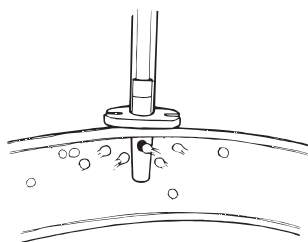
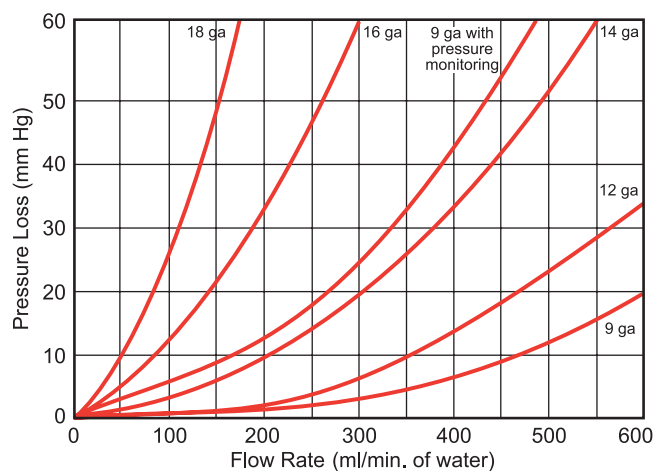


Long Tip



Pressure Monitoring Tip

DLP® Adult Aortic Root Cannulae



Standard Aortic Root Cannula Application Detail

## DLP® Aortic Root Cannulae

These cannulae feature radiopaque tips attached to clear bodies. Additional features available with these cannulae include: aortic root pressure monitoring, left heart venting. All cannulae are supplied with a stainless steel introducer needle. *20 per carton*

### Pediatric - 2.5" (6.4 cm) length

Standard tip and standard introducer

10218 18 ga (4 Fr.)

### Adult - 5.25 (13.3 cm) length

Pressure monitoring tip and standard introducer

23009 9 ga (11 Fr.)

### Adult - 5.5 (14.0 cm) length

Standard tip and standard introducer

10009 9 ga (11 Fr.)

10012 12 ga (9 Fr.)

10014 14 ga (7 Fr.)

10016 16 ga (5 Fr.)

10018 18 ga (4 Fr.)

Standard tip and Flow-Guard™ introducer

11012 12 ga (9 Fr.)

11014 14 ga (7 Fr.)

### Adult - 5.75 (14.6 cm) length

Slotted long tip and standard introducer

10112 12 ga (9 Fr.)

10114 14 ga (7 Fr.)

Long tip and standard introducer

10114B 14 ga (7 Fr.)

All DLP Aortic Root Cannulae can be used to aspirate air emboli as well as administer cardioplegia.

Antegrade Perfusion Cannulae

Retrograde Perfusion Cannulae

Cardioplegia Adapters

Cardioplegia Circuit Products

## DLP® Aortic Root Cannulae with Vent Line

These cannulae feature radiopaque tips attached to clear bodies with separate vent line. Additional features available with these cannulae include: aortic root pressure monitoring, left heart venting. All cannulae are supplied with a stainless steel introducer needle.

20 per carton

### Adult - 5.25 (13.3 cm) length

**Pressure monitoring tip and standard introducer**  
**24009** 9 ga (11 Fr.)

### Adult - 5.5 (14.0 cm) length

#### Standard tip and standard introducer

**20009** 9 ga (11 Fr.)  
**20012** 12 ga (9 Fr.)  
**20012S** 12 ga (9 Fr.) with two clamps  
**20014** 14 ga (7 Fr.)  
**20014L** 14 ga (7 Fr.) 8" (20.3 cm) vent line

**20016** 16 ga (5 Fr.)

#### Standard tip and Flow-Guard™ introducer

**21012** 12 ga (9 Fr.)  
**21014** 14 ga (7 Fr.)

### Adult - 5.75 (14.6 cm) length

#### Slotted long tip and standard introducer

**20112** 12 ga (9 Fr.)  
**20114** 14 ga (7 Fr.)

#### Long tip and standard introducer

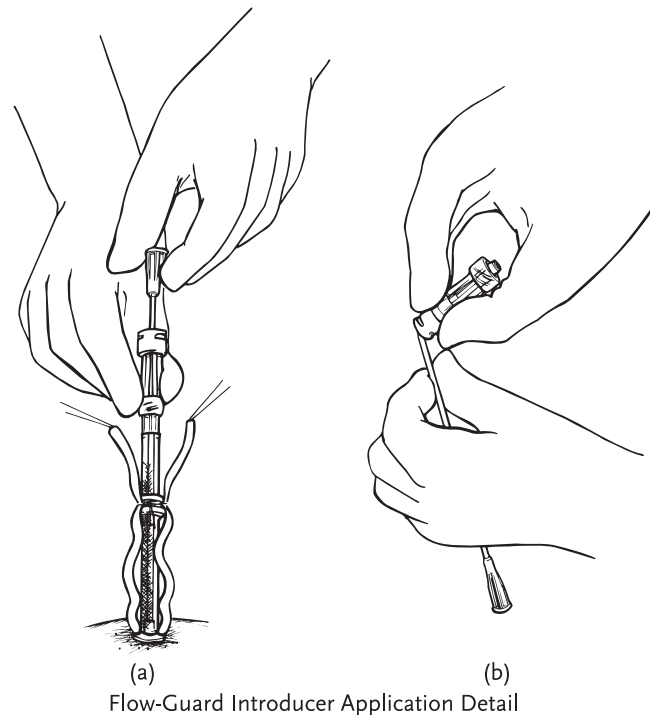
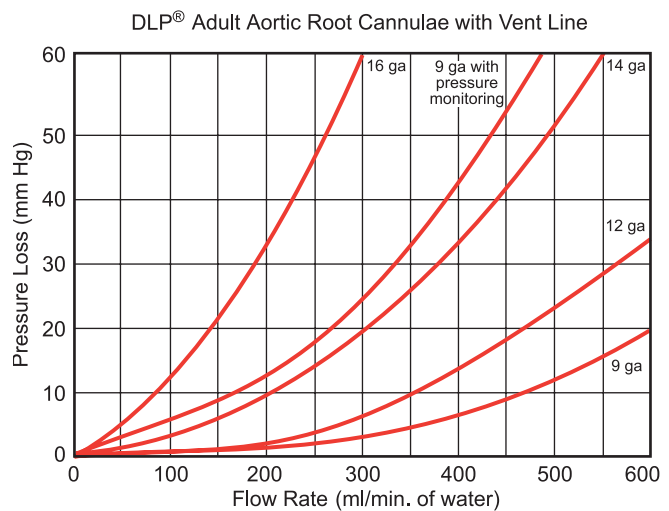
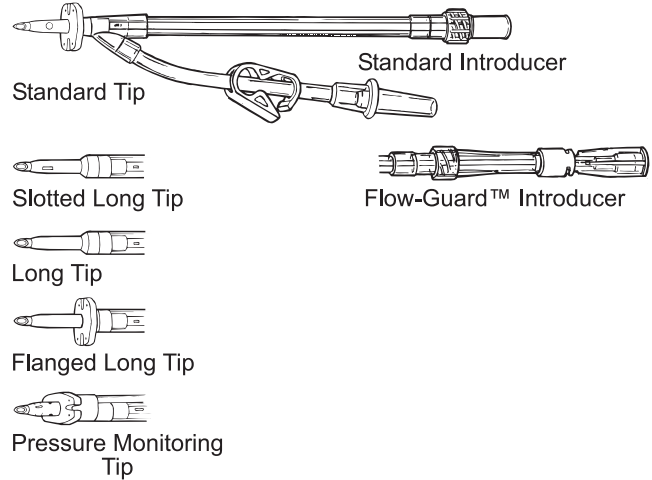
**20112B** 12 ga (9 Fr.)  
**20114B** 14 ga (7 Fr.)

#### Flanged long tip and standard introducer

**20114WF** 14 ga (7 Fr.)

(a). Disengage the needle handle from the male luer fitting and pull the needle handle back until the point of the needle is retracted into the luer fitting. After the cannula fills with blood, clamp the cannula at a convenient point below the luer fitting.

(b). Disconnect the introducer from the cannula. The introducer needle may be bent at the male luer fitting with the needle fully retracted to lock the sharp point in the male luer fitting.

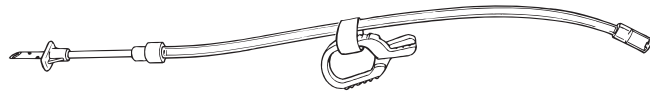


Cardioplegia Circuit Products

Antegrade Perfusion Cannulae

Retrograde Perfusion Cannulae

Cardioplegia Adapters



## DLP® Cardioplegia Needles

These needles feature stainless steel tips with a plastic depth stop. These needles are attached to flexible tubing with drape clamp and female luer. *20 per carton*

**Neonatal - 6.5 (16.5 cm) length**

Tip length 1/4" (0.64 cm) with hub stop  
**11316** 16 ga (5 Fr.)

**Pediatric - 6.5 (16.5 cm) length**

Tip length 3/8" (0.95 cm) with flange stop  
**11313** 13 ga (8 Fr.)

**Adult - 10" (25.4 cm) length**

Tip length 5/8" (1.59 cm) with 4 side holes and flange stop  
**10313** 13 ga (8 Fr.)

Antegrade Perfusion Cannulae  
Retrograde Perfusion Cannulae  
Cardioplegia Adapters

Cardioplegia Circuit Products

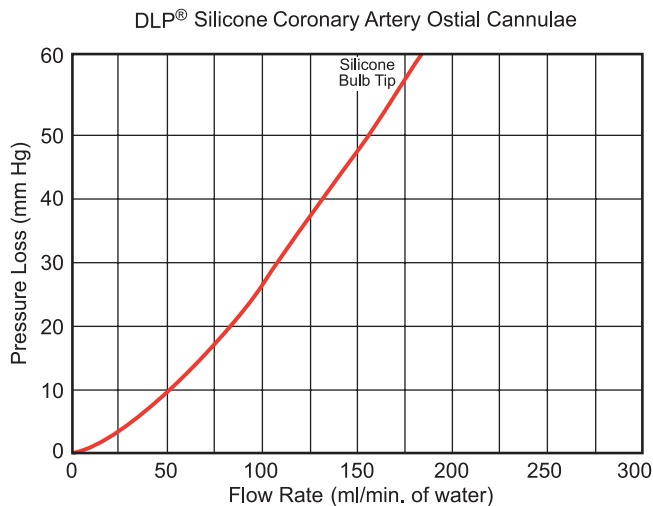


## DLP® Silicone Coronary Artery Ostial Cannulae

These cannulae feature silicone bodies with soft bulb shaped tips. All cannulae have a female luer connection site. *10 per carton*

**10" (25.4 cm) length**

**30317** 17 Fr. (5.7 mm) bulb  
**30320** 20 Fr. (6.7 mm) bulb



## DLP® Coronary Artery Ostial Cannulae

These cannulae feature flanged, radiopaque basket tips or soft silicone tips attached to malleable stainless steel shaft. All cannulae have a female luer connection site.

**6" (15.2 cm) length**

### Basket tip

30010 10 Fr. (3.3 mm)

30012 12 Fr. (4.0 mm)

30014 14 Fr. (4.7 mm)

20 per carton

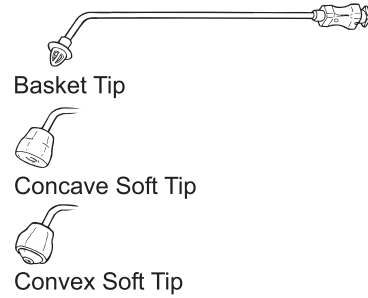
### Soft, concave silicone tip

30050

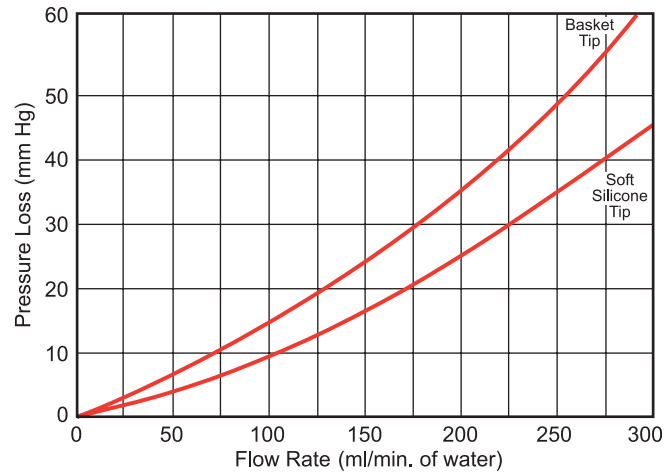
### Soft, convex silicone tip

30055

10 per carton



DLP® Coronary Artery Ostial Cannulae



## DLP® High Flow Coronary Artery Ostial Cannulae

These cannulae feature flanged, radiopaque basket tips or soft silicone tips attached to large bore, malleable stainless steel shaft. All cannulae have a female luer connection site.

10 per carton

**7.5" (19.1 cm) length**

### 90° angle tip

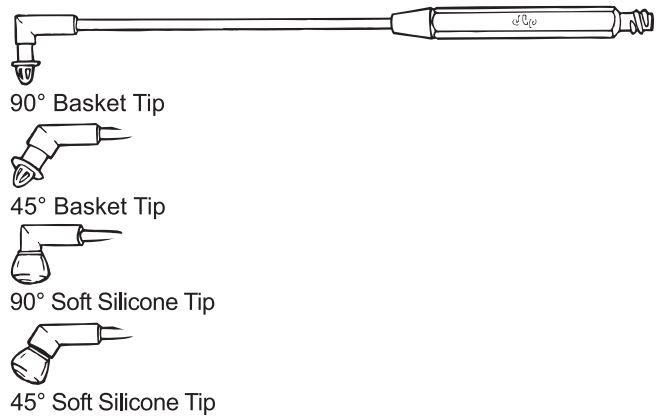
30110 10 Fr. (3.3 mm)

30112 12 Fr. (4.0 mm)

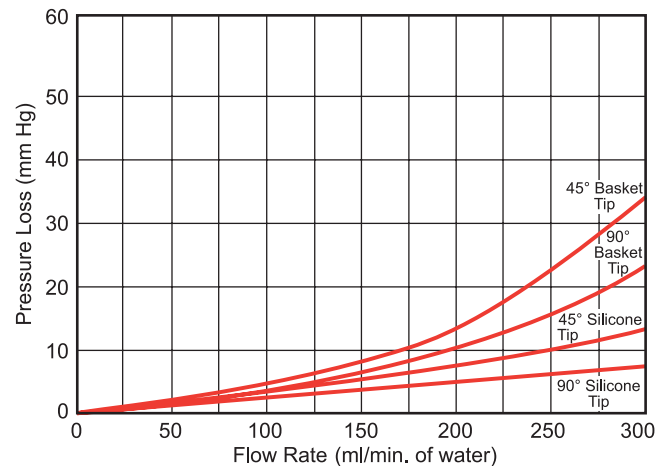
30114 14 Fr. (4.7 mm)

### 45° angle tip

30212 12 Fr. (4.0 mm)



DLP® High Flow Coronary Artery Ostial Cannulae



Antegrade  
Perfusion  
Cannulae

Retrograde  
Perfusion  
Cannulae

Cardioplegia  
Adapters

Cardioplegia Circuit Products

This section provides product information for all our Retrograde Perfusion Cannulae brands with their specific configurations.

*Manual Inflate and Auto-Inflate Cuffs*

*Pediatric and Adult Sizes*

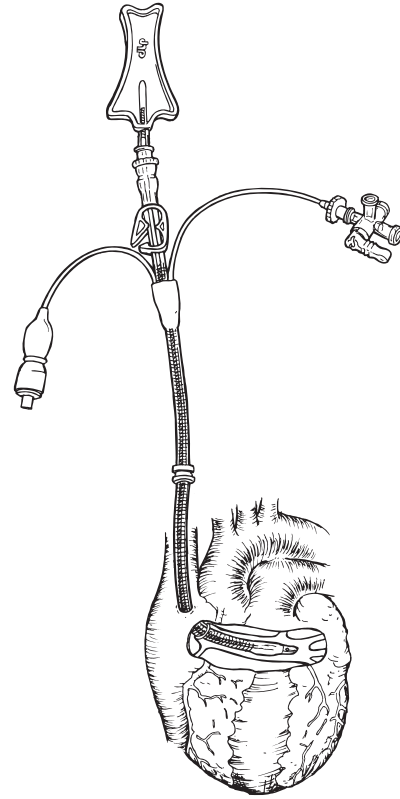
*Multiple Stylet configurations*

*PVC and Silicone Bodies*

*Multiple Tip configurations*

*Pressure Monitoring options*

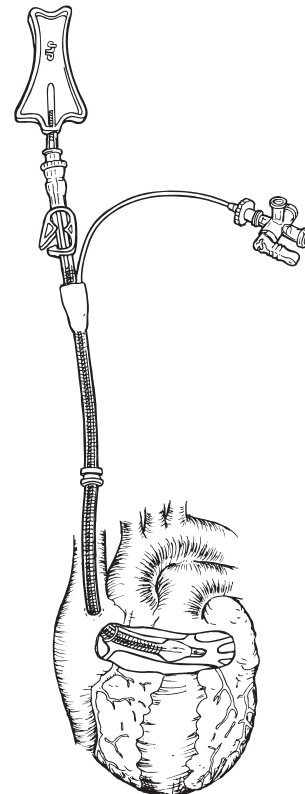
With the wide variety of configurations available, surgeons can find the right cannulae for their specific cardioplegia needs and uses.



RCSP Cannula with Manual Inflate Cuff Application

## Products included in this Section

Gundry® Silicone RCSP Cannulae with Manual Inflate Cuff .....	47
DLP® Silicone RCSP Cannulae with Manual Inflate Cuff .....	48
DLP® Silicone RCSP Cannulae with Auto-Inflate Cuff.....	49
DLP® PVC RCSP Cannulae with Auto-Inflate Cuff.....	50



RCSP Cannulae with Auto-Inflate Cuff Application

Cardioplegia  
Adapters

Retrograde  
Perfusion  
Cannulae

Antegrade  
Perfusion  
Cannulae

Cardioplegia Circuit Products



## Gundry® Silicone RCSP Cannulae with Manual Inflate Cuff

These cannulae feature silicone bodies and manual inflate cuffs with pressure monitoring lines. All cannulae have a guidewire stylet and either a male luer handle or a Tru-Touch™ handle. All Cannulae come with a syringe for cuff inflation. *10 per carton*

### Pediatric - 9" (22.9 cm) length

94110 10 Fr. (3.3 mm) guidewire stylet

### Adult - 12.5" (31.8 cm) length

#### Smooth cuff and wirewound body

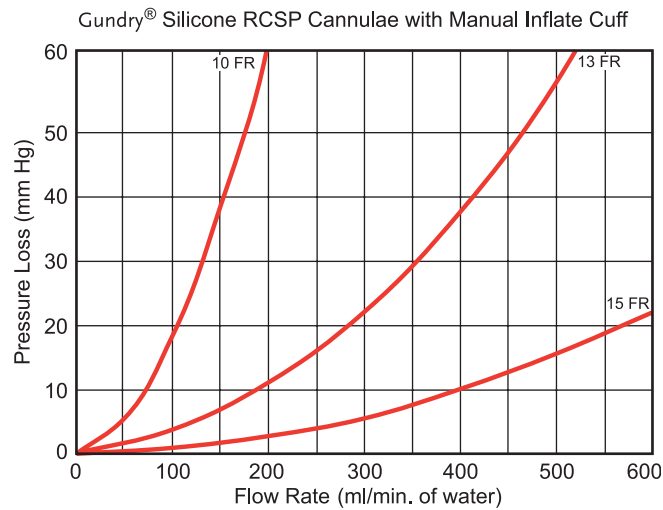
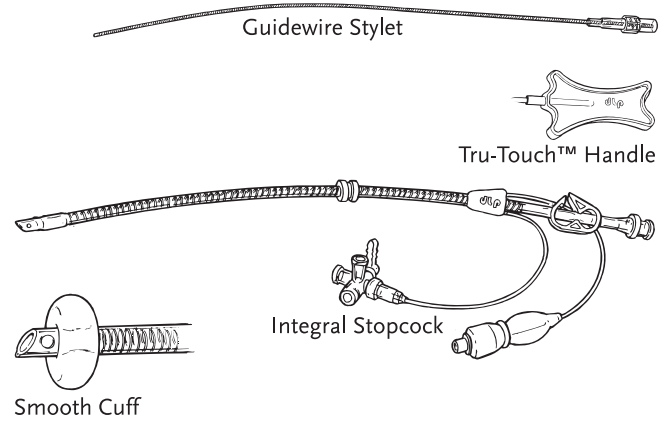
94115T 15 Fr. (5.0 mm) guidewire stylet

#### Smooth cuff, wirewound body and integral stopcock

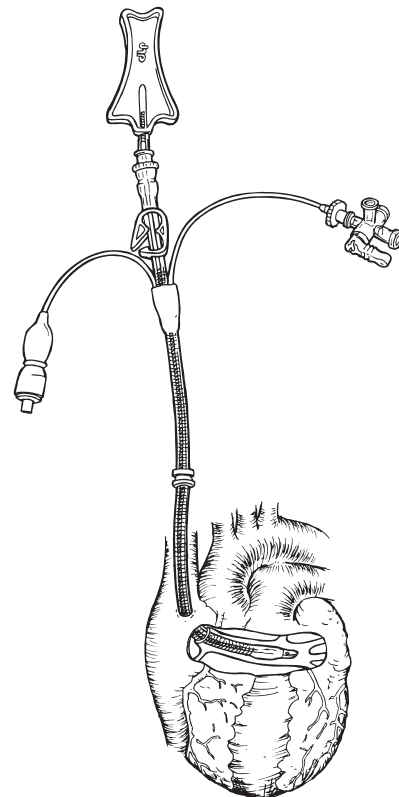
94113T 13 Fr. (4.3 mm) guidewire stylet

94615 15 Fr. (5.0 mm) guidewire stylet

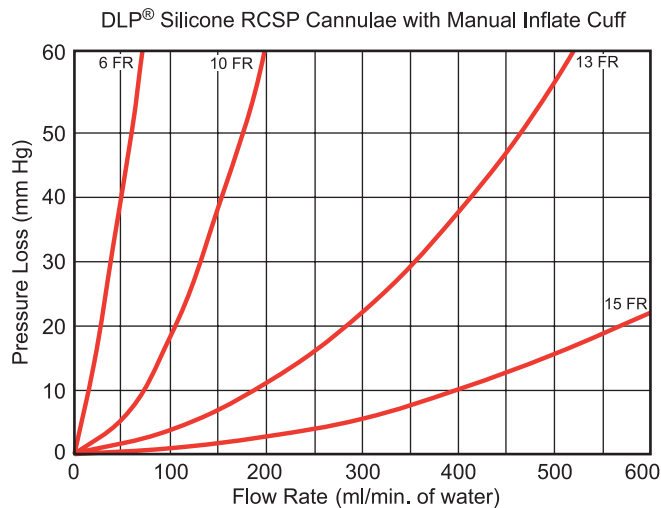
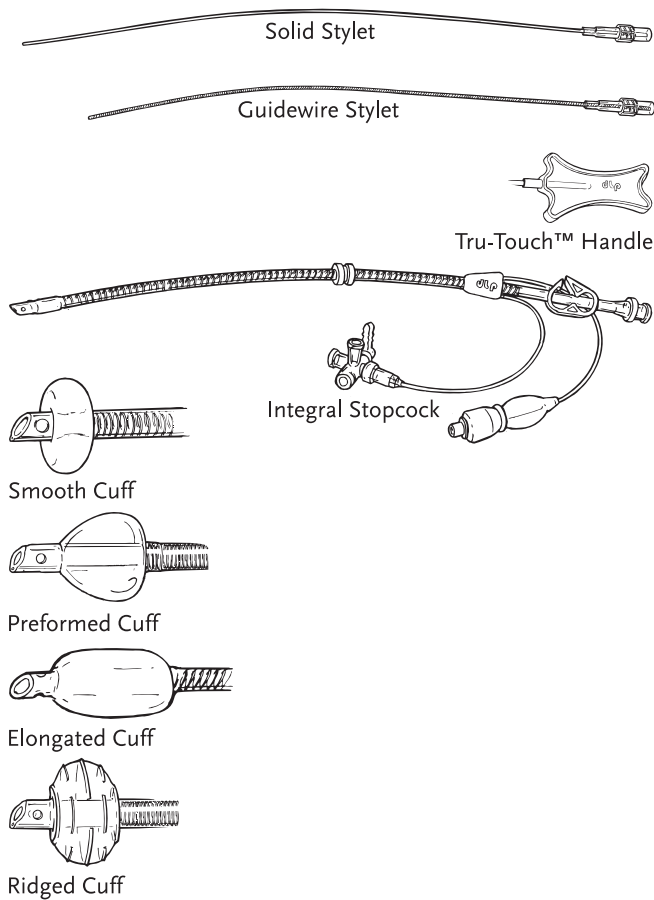
94715 15 Fr. (5.0 mm) guidewire stylet with Tru-Touch™ handle



Cardioplegia Circuit Products  
 Retrograde Perfusion Cannulae  
 Antegrade Perfusion Cannulae  
 Cardioplegia Adapters



RCSP Cannula with Manual Inflate Cuff Application



## DLP® Silicone RCSP Cannulae with Manual Inflate Cuff

These cannulae feature silicone bodies and manual inflate cuffs with pressure monitoring lines. A variety of cuffs and stylets are available. All Cannulae come with a syringe for cuff inflation. 4 per carton

### Pediatric - 9" (22.9 cm) length

**Smooth cuff and wirewound body**  
**94010** 10 Fr. (3.3 mm) no stylet

### Pediatric - 9.5" (24.1 cm) length

**Smooth cuff, non-wirewound body and integral stopcock**  
**94006** 6 Fr. (2.0 mm) no stylet  
**94106** 6 Fr. (2.0 mm) guidewire stylet

### Adult - 12.5" (31.8 cm) length

**Smooth cuff and wirewound body**  
**94015** 15 Fr. (5.0 mm) no stylet  
**94215T** 15 Fr. (5.0 mm) solid stylet  
**Smooth cuff, wirewound body and integral stopcock**  
**94725** 15 Fr. (5.0 mm) solid stylet with Tru-Touch™ handle

**Preformed cuff and wirewound body**  
**94515** 15 Fr. (5.0 mm) guidewire stylet  
**94525** 15 Fr. (5.0 mm) solid stylet  
**Elongated cuff, wirewound body and integral stopcock**  
**94625** 15 Fr. (5.0 mm) solid stylet  
**94665** 15 Fr. (5.0 mm) guidewire stylet  
**Ridged cuff, wirewound body and integral stopcock**  
**94913** 13 Fr. (4.3 mm) guidewire stylet  
**94913L** 13 Fr. (4.3 mm) guidewire stylet and 6" (15.2 cm) pressure monitoring and inflation line  
**94915** 15 Fr. (5.0 mm) guidewire stylet  
**94965** 15 Fr. (5.0 mm) guidewire stylet with Tru-Touch™ handle  
**94975** 15 Fr. (5.0 mm) solid stylet with Tru-Touch™ handle



## DLP® Silicone RCSP Cannulae with Auto-Inflate Cuff

These cannulae feature silicone bodies and auto-inflate cuffs with pressure monitoring lines. A variety of cuffs and stylets are available.

10 per carton

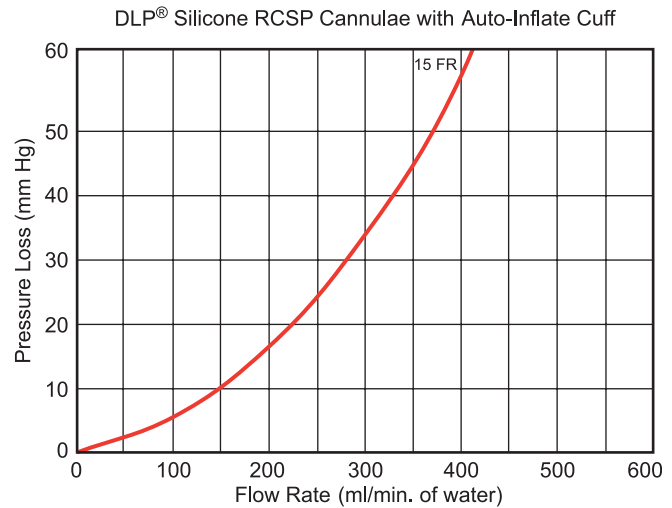
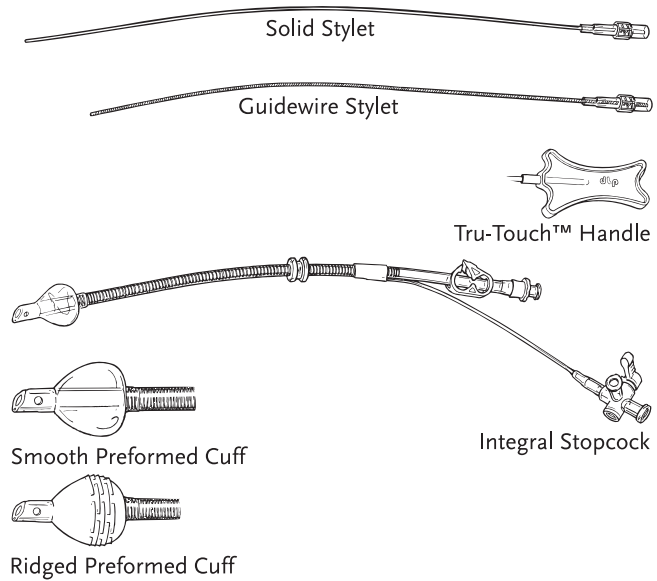
### Adult - 12.5" (31.8 cm) length

#### Smooth preformed cuff and wirewound body

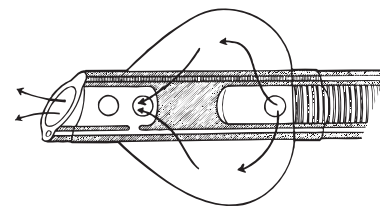
- 94315T 15 Fr. (5.0 mm) solid stylet
- 94415T 15 Fr. (5.0 mm) guidewire stylet
- 94735 15 Fr. (5.0 mm) solid stylet with Tru-Touch™ handle
- 94745 15 Fr. (5.0 mm) guidewire stylet with Tru-Touch™ handle

#### Ridged preformed cuff, wirewound body and integral stopcock

- 94985 15 Fr. (5.0 mm) solid stylet with Tru-Touch™ handle
- 94995 15 Fr. (5.0 mm) guidewire stylet with Tru-Touch™ handle



Silicone Auto-Inflating Cuffs offer the convenience of cuff inflation without the need of a syringe. These cuffs unique flow-through design allows cardioplegia to circulate through the cuff before exiting the cannula tip. These cuffs also feature a dual pressure monitoring system. This system normally provides intra-sinus pressure monitoring through the port in the tip. However, should the tip inadvertently become occluded, the second port will monitor intra-cuff pressure. This feature greatly reduces the potential for coronary sinus damage due to over inflation.



Silicone Auto-Inflate Cuff Flow Detail



Solid Stylet



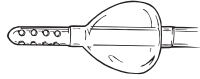
Guidewire Stylet



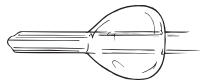
Tru-Touch™ Handle



Integral Stopcock



Smooth Preformed Cuff,  
Multiport Tip



Smooth Preformed Cuff,  
Fluted Tip



Smooth Preformed Cuff,  
Short Fluted Tip



Ridged Preformed Cuff,  
Fluted Tip

## DLP® PVC RCSP Cannulae with Auto-Inflate Cuff

These cannulae feature PVC bodies and polyurethane auto-inflate cuffs with pressure monitoring lines. A variety of cuffs and stylets are available.

10 per carton

### Adult - 10" (25.4 cm) length

Smooth preformed cuff, short fluted tip and integral stopcock

94885K 15 Fr. (5.0 mm) solid stylet with Tru-Touch™ handle

### Adult - 11" (27.9 cm) length

Smooth preformed cuff, multiport tip and integral stopcock

94523 13 Fr. (4.3 mm) guidewire stylet with Tru-Touch™ handle

94533 13 Fr. (4.3 mm) solid stylet with Tru-Touch™ handle

94535 15 Fr. (5.0 mm) solid stylet with Tru-Touch™ handle



## Adult - 12" (30.5 cm) length

**Smooth preformed cuff, short fluted tip and integral stopcock**

**94885** 15 Fr. (5.0 mm) solid stylet with Tru-Touch™ handle

**94895** 15 Fr. (5.0 mm) guidewire stylet with Tru-Touch™ handle

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## Adult - 12.5" (31.8 cm) length

**Smooth preformed cuff, fluted tip and integral stopcock**

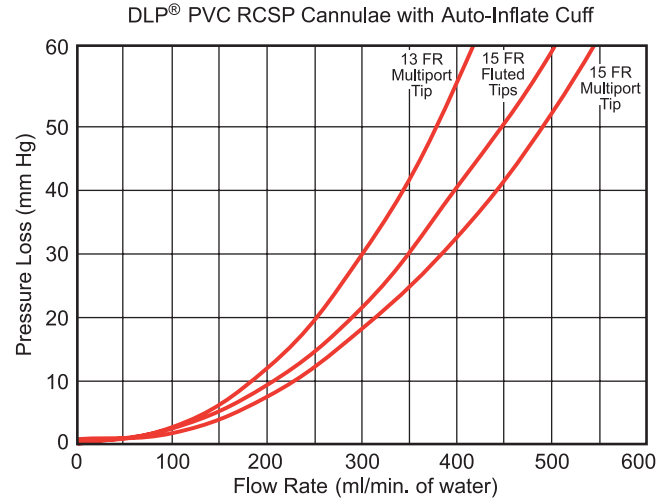
**94835** 15 Fr. (5.0 mm) solid stylet with Tru-Touch™ handle

**94845** 15 Fr. (5.0 mm) guidewire stylet with Tru-Touch™ handle

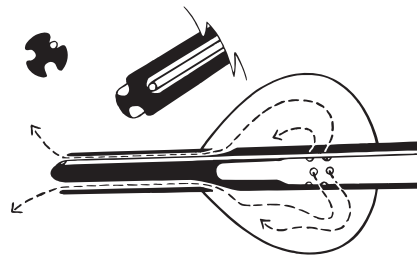
**Ridged preformed cuff, short fluted tip and integral stopcock**

**94935** 15 Fr. (5.0 mm) solid stylet with Tru-Touch™ handle

**94945** 15 Fr. (5.0 mm) guidewire stylet



PVC Auto-Inflating Cuffs offer the convenience of cuff inflation without the need of a syringe. These cuffs unique flow-through (both fluted and multi-port) design allows cardioplegia to circulate through the cuff before exiting the cannula tip.



PVC Auto-Inflate Cuff Flow Detail

Cardioplegia  
Adapters

Retrograde  
Perfusion  
Cannulae

Antegrade  
Perfusion  
Cannulae

Cardioplegia Circuit Products

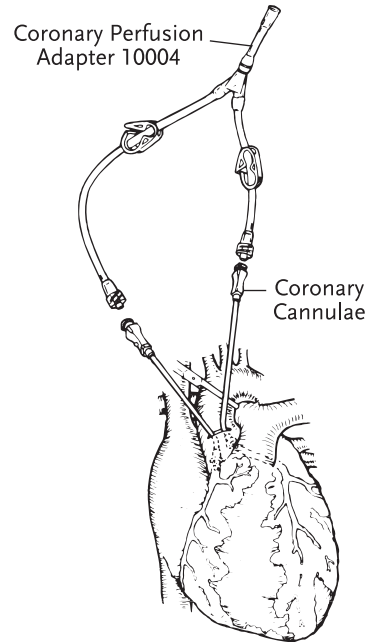
This section provides product information for all our Cardioplegia Adapter brands with their specific configurations.

- Straight and "Y" Type Adapters*
- Recirculation and Coronary Perfusion Adapters*
- Connectors*
- Vein Graft Cannulae*
- Multiple Perfusion Sets*
- Extension Lines*
- Shunt Kits*

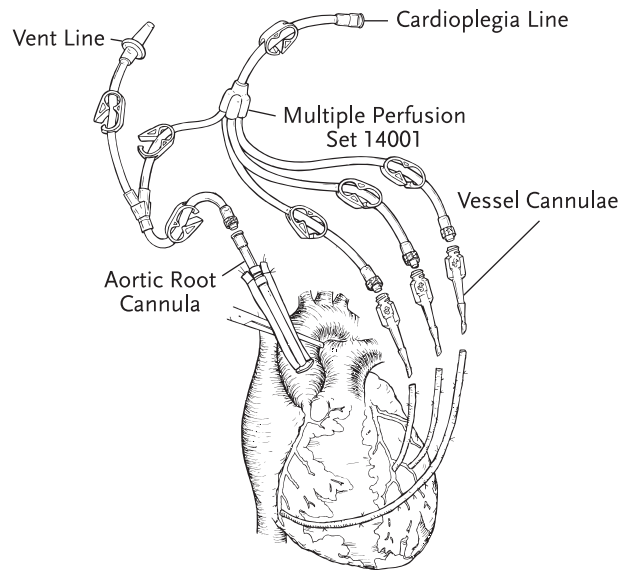
With the wide variety of adapters available, surgeons can find the right adapter for their specific cardioplegia needs and uses.

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Direct Coronary Perfusion Application



Multiple Vein Graft Perfusion Application

Cardioplegia  
Adapters

Retrograde  
Perfusion  
Cannulae

Antegrade  
Perfusion  
Cannulae

Cardioplegia Circuit Products



## DLP® Perfusion Adapters

These adapters feature a barbed connector on one end and either a male luer or female luer on the other. Some models have a length of tubing between the barbed connector and luers.

### 2" (5.1 cm) length

with male luer

**10007** 1/4" (0.64 cm) barbed connector

**10008** 3/8" (0.95 cm) barbed connector

40 per carton

### 3.25" (8.3 cm) length

with tubing and female luer

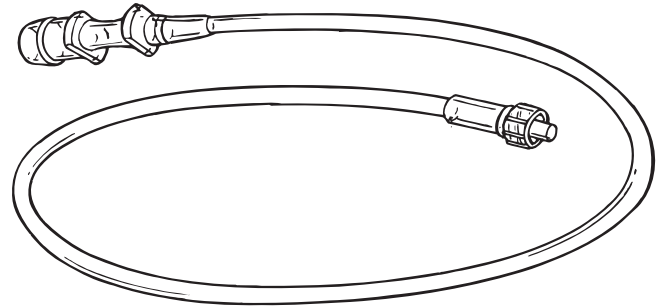
**10022** 1/4" (0.64 cm) barbed connector

### 24" (61.0 cm) length

with tubing and male luer

**10020** 3/8" (0.95 cm) barbed connector

20 per carton



Cardioplegia Circuit Products

Antegrade  
Perfusion  
Cannulae

Retrograde  
Perfusion  
Cannulae

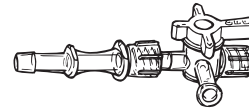
Cardioplegia  
Adapters

## DLP® Perfusion/Venting Adapter

This adapter is a combination of Perfusion Adapter 10007 with an added high flow stopcock which allows for venting. This 3-way stopcock has a large bore inner diameter and has female and male luers on the ends.

20 per carton

**13002**

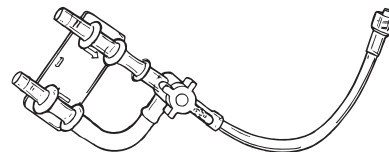


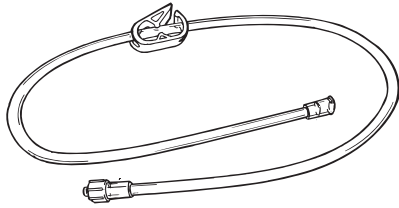
## DLP® Recirculating/Venting Adapter

This adapter features two 1/4" (0.64 cm) barbed connectors attached to a 3-way high flow stopcock which terminates with PVC tubing and a male luer. Overall length is 8.5" (21.6 cm).

10 per carton

**13025**



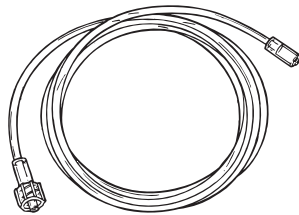


## DLP® Extension Line Adapters

These adapters feature soft (silicone-like) PVC tubing with or without a clamp and male and female luers on the ends.

20 per carton

11001G 20" (50.8 cm) length with clamp



## DLP® Pressure Monitoring Extension Line Adapters

These adapters are 6' (182.9 cm) in length and have male x male or male x female luers on the ends.

20 per carton

25009 male x female luers

25010 male x male luers

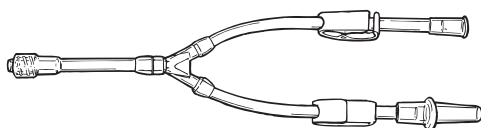


## DLP® Straight Venting Adapter

This adapter is 5" (12.7 cm) in length and has a male luer on one end and a 1/4" (0.64 cm) vented slip connector with cap on the other.

20 per carton

10001

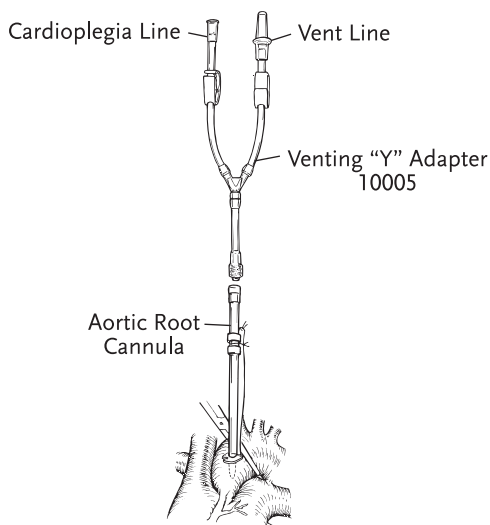


## DLP® "Y" Type Venting Adapter

This adapter is 7.5" (19.1 cm) in length and features a male luer on the single leg. A female luer is on the cardioplegia inlet leg and a 1/4" (0.64 cm) slip connector is on the venting leg. Cardioplegia inlet and venting legs have color coded clamps.

20 per carton

10005



Venting "Y" Adapter Application

When used with 10005 Venting "Y" Adapter, an Aortic Root Cannula can be used to vent the left Heart.

## DLP® “Y” Type Recirculating Adapters

These adapters are 8” (20.3 cm) in length and feature a male luer on the single leg. A soft “Y” terminates in two 1/4” (0.64 cm) slip connectors, one with a vent. These two legs of the adapter have clamps.

20 per carton

- 10003 color coded clamps
- 10003OS white clamps with color coded arrows

This adapter is 14.5” (36.8 cm) in length and features a female luer on the single leg. Soft “Y”s create three legs which have white clamps with color coded arrows and terminate with male luers.

20 per carton

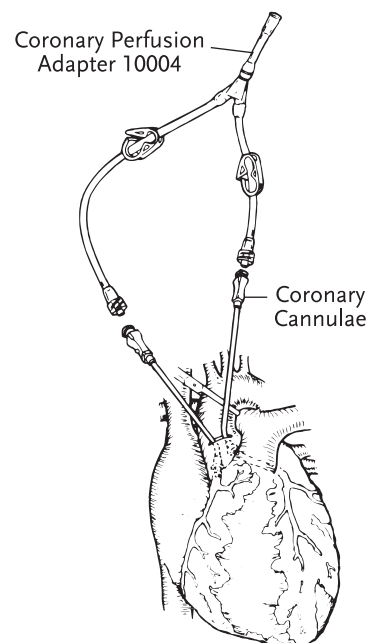
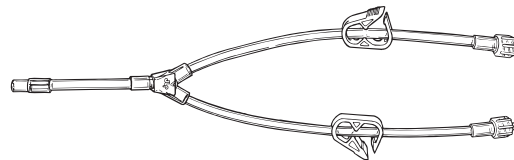
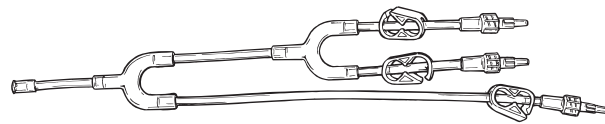
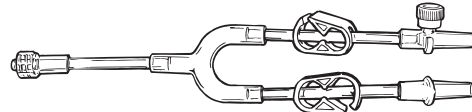
- 10003S

## DLP® “Y” Type Coronary Perfusion Adapters

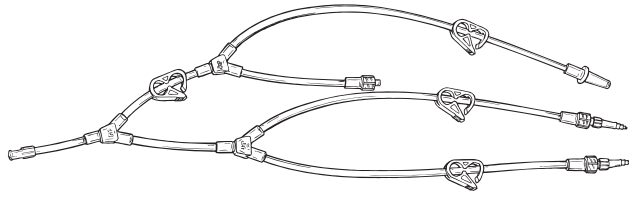
These adapters feature female luers on the single legs. A rigid “Y” has two legs with color coded clamps and terminate with male luers.

20 per carton

- 10004 3.5” (8.9 cm) and 10” (25.4 cm) legs
- 10004D 6” (15.2 cm) legs
- 10706 6” (15.2 cm) soft, silicone like PVC legs



Direct Coronary Perfusion Application

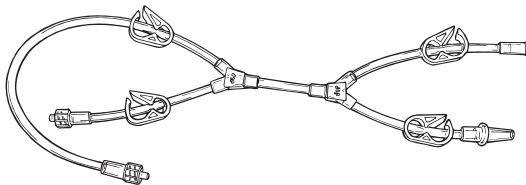


## DLP® “Y” Type Special Adapter

This adapter is 19” (48.3 cm) in length and features a female luer on the single leg. Rigid “Y”s create four legs with color coded clamps, one leg terminating in a male luer, one terminating in a 1/4” (0.64 cm) slip connector, and two legs terminating in a soft silicone tips with graduated steps to fit any vessel.

*10 per carton*

**10005S**



## DLP® “Y” Type Adapter

This adapter is 20.5” (52.1 cm) in length and is a combination of models 10004 and 10005 and features four legs with color coded clamps. Two legs terminate in male luers, one terminates with a female luer, and the fourth terminates with a 1/4” (0.64 cm) slip connector.

*20 per carton*

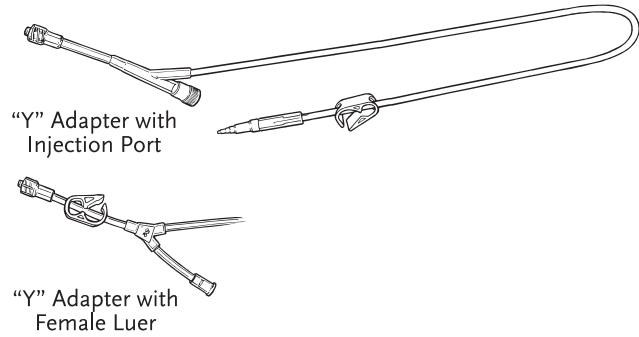
**10005BH**

## DLP® Vein Graft Cannulae

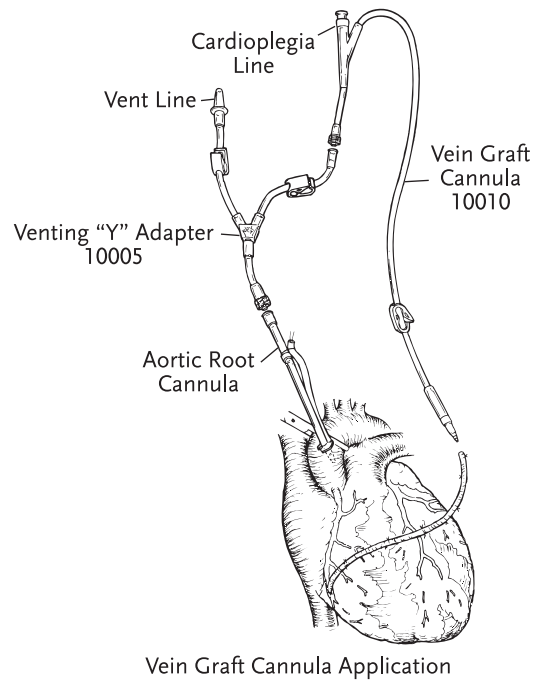
These products are 25" (63.5 cm) in length and feature a soft silicone tip with graduated steps to fit any vessel. These tips are attached to "Y" adapters via tubing with clamps. The "Y" adapters terminate with a male luer.

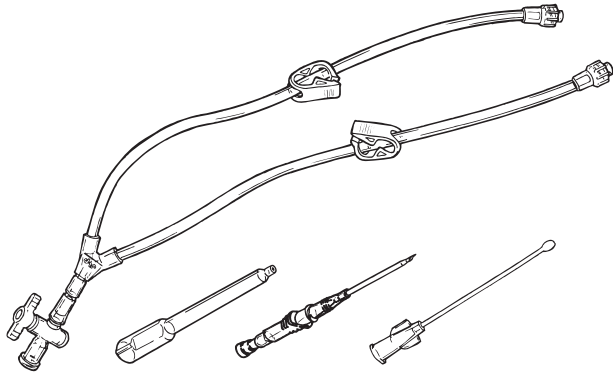
20 per carton

- 10010 "Y" adapter with injection port
- 10011 "Y" with female luer



The combination of a Vein Graft Cannula and an Aortic Root Cannula also provides a way to perfuse the aortic root and vein graft. In this case the vein graft must be held with the fingers and not tied.





## DLP® Emergency Shunt Kit

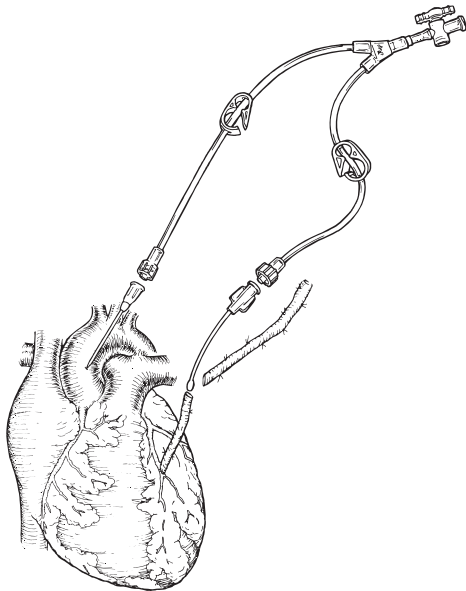
This product is 12" (30.5 cm) in length and features a stopcock attached to a "Y" adapter with two legs including clamps and terminating with male luers.

5 per carton

33234

Includes the following:

- 1 - shunt
- 2 - 2 mm Arteriotomy Cannulae
- 2 - 3 mm Arteriotomy Cannulae
- 2 - 4 mm Arteriotomy Cannulae
- 1 - 14 ga. IV Catheter



Emergency Shunt Kit Application

## ARISS® Perfusion Switches

These products allow the surgeon or perfusionist to switch between antegrade and retrograde cardioplegia delivery. A table mounted version and pump mount version are available. The switches feature female luers on the inlet ports and male luers on the outlet ports. The table mount versions have pressure monitoring lines that run along side the inlet and outlet ports. Outlets ports are color coded for easy identification.

### 13" (33.0 cm) length

#### Table Mount Models

- 13000           unequal legs
  - 13004           equal legs
- 10 per carton

### 22.5" (57.2 cm) length

#### Pump Mount Model

- 13050           (for use with models 13055 & 13060)
- 5 per carton

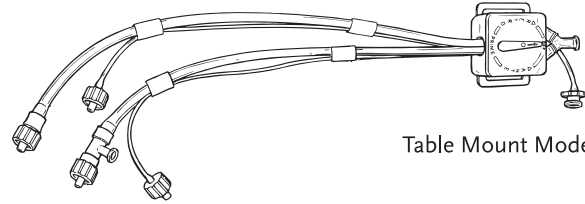
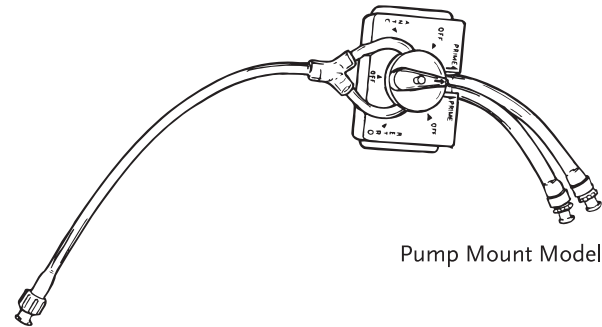


Table Mount Model



Pump Mount Model

## ARISS® Accessories

These products are for use with only the model 13050 ARISS Perfusion Switch.

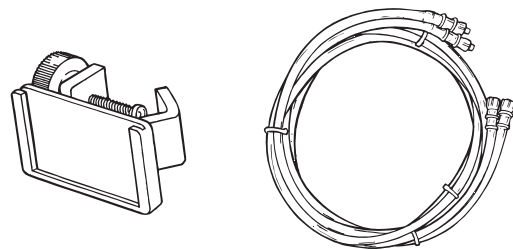
### 8' (243.8 cm) length

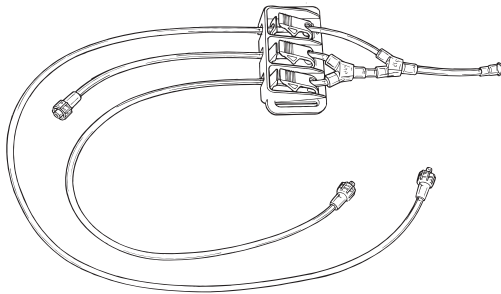
#### Perfusate Delivery Tubing Set

- 13055           (for use with model 13050)
- 5 per carton

#### Mounting Bracket

- 13060           (for use with model 13050)
- 1 per carton



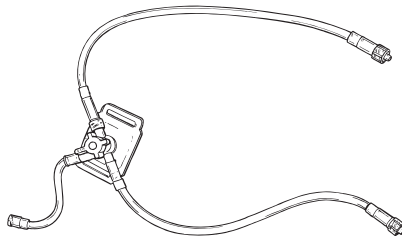


## DLP® Cardioplegia Management Set

This product features soft tubing with a female luer on the inlet port. This inlet port splits into three legs which terminate in male luers. The legs have color coded clamps with varying lengths and are set in a mount bracket for easy identification and organization. The red clamp leg has a length of 10" (25.4 cm), the white clamp leg has a length of 20" (50.8 cm), and the blue clamp leg has a length of 30" (76.2 cm).

5 per carton

13003

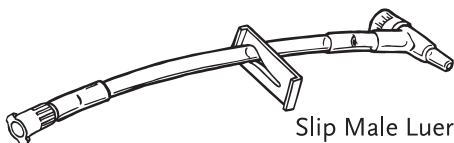


## DLP® Antegrade/Retrograde Adapter

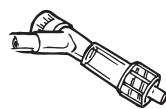
This adapter is 26.5" (67.3 cm) in length and features a large bore 3-way stopcock. The inlet port of the adapter has a female luer, while the outlet ports have male luers.

10 per carton

13001



Slip Male Luer



Lock Male Luer

## DLP® Cardioplegia Adapter with Pressure Port

These adapters feature a latex-free rubber septum to allow access for a pressure monitoring needle near the connection to the cardioplegia cannula.

10 per carton

15003

with slip male luer

15004

with locking male luer



## DLP® Multiple Perfusion Sets

These products allow for simultaneous perfusion of the aortic root and up to three or more vein grafts. They feature inlet ports with female luers and clamps attached to an adapter which splits into four or more legs. These legs have color coded clamps for easy identification and terminate with male luers. Models with a vent line terminate in a 1/4" (0.64 cm) slip connector.

10 per carton

### 12" (30.5 cm) length

with 4 legs

**14003** 4 - 8" (20.3 cm) length legs

### 15" (38.1 cm) length

**14000** 1 - 3" (7.6 cm) length leg  
3 - 10" (25.4 cm) length legs

with 4 legs and vent line

**14001** 1 - 8" (20.3 cm) length leg  
3 - 10" (25.4 cm) length legs

**14017** 1 - 8" (20.3 cm) length stiff tubing leg  
3 - 10" (25.4 cm) length stiff tubing legs

with 4 legs and 3 free flow vessel cannulae (model 30003)

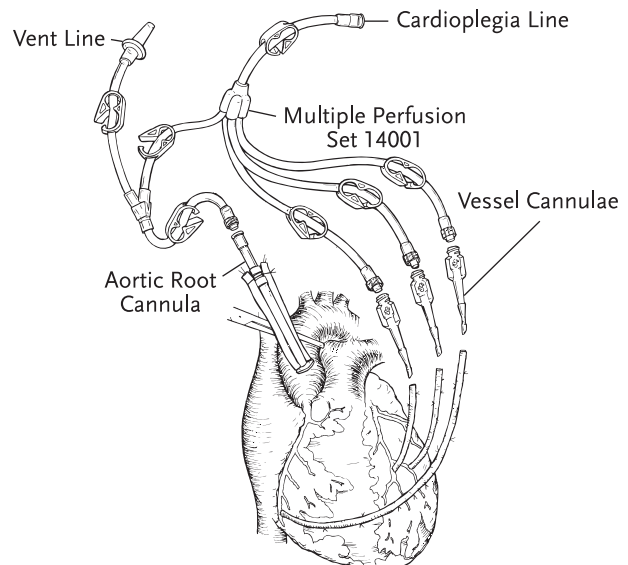
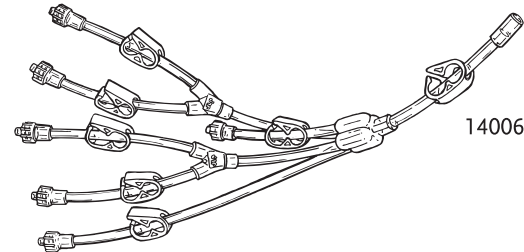
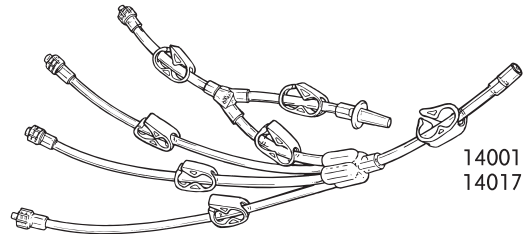
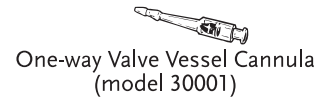
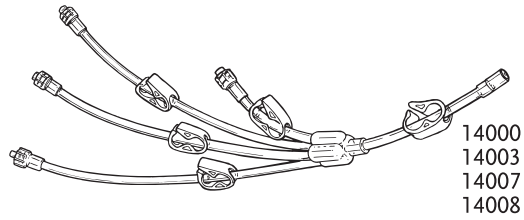
**14007** 1 - 3" (7.6 cm) length leg  
3 - 10" (25.4 cm) length legs

with 4 legs and 3 one-way valve vessel cannulae (model 30001)

**14008** 1 - 3" (7.6 cm) length leg  
3 - 10" (25.4 cm) length legs

with 6 legs

**14006** 1 - 3" (7.6 cm) length leg  
5 - 10" (25.4 cm) length legs



Multiple Vein Graft Perfusion Application

Cardioplegia Circuit Products

Antegrade Perfusion Cannulae

Retrograde Perfusion Cannulae

Cardioplegia Adapters

Cardioplegia  
Adapters

Retrograde  
Perfusion  
Cannulae

Antegrade  
Perfusion  
Cannulae

Cardioplegia Circuit Products

This section provides product information for all our Suction Tube brands and their specific configurations.

*Frazier, Soft, Olive, Fluted and Perforated Pool Style Tips*

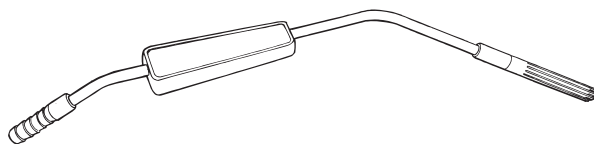
*Metal and Plastic Tips*

*With or Without Vacuum Control Port*

With the wide variety of configurations available, surgeons can find the right suction device for their specific needs and uses.

## Products included in this Section.

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DLP® Intracardiac Suction Tube .....	67



## DLP® Macro Suction Tube

This Suction Tube features a comfortable hand grip. The tip is made from a malleable stainless steel shaft which can be shaped to the surgeon's preference, and has a fluted pool tip to maximize suction and minimize tissue trauma. This Suction Tube has a 1/4" (0.64 cm) barbed connector.

*20 per carton*

**13" (33.0 cm) length**

10061

20 Fr. (6.7 mm)

## DLP® Cardiac Suction Tubes

These Suction Tubes feature comfortable hand grips with a vacuum control port. The tips are made from malleable stainless steel shaft which can be shaped to the surgeon's preference, and are available with or without a soft silicone tip. All Suction Tubes are equipped with a length of tubing and clamp terminating with a 1/4" (0.64 cm) slip connector.

20 per carton

### 3.25" (8.3 cm) length tip

**Frazier tip**

10051 6 Fr. (2.0 mm)

**Soft tip**

10053 6 Fr. (2.0 mm)

### 6" (15.2 cm) length tip

**Frazier tip**

10054 10 Fr. (3.3 mm)

**Olive tip**

10055 18 Fr. (6.0 mm)

### 6.5" (16.5 cm) length tip

**Frazier tip**

10050 6 Fr. (2.0 mm)

**Soft tip**

10052 6 Fr. (2.0 mm)

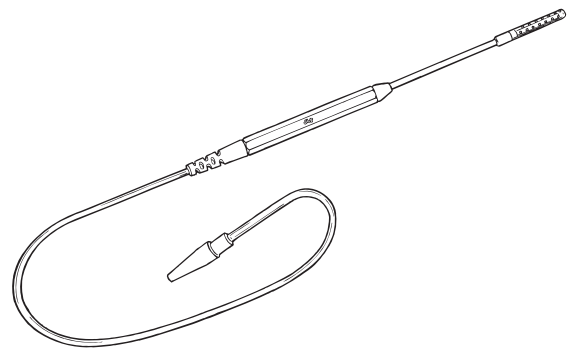
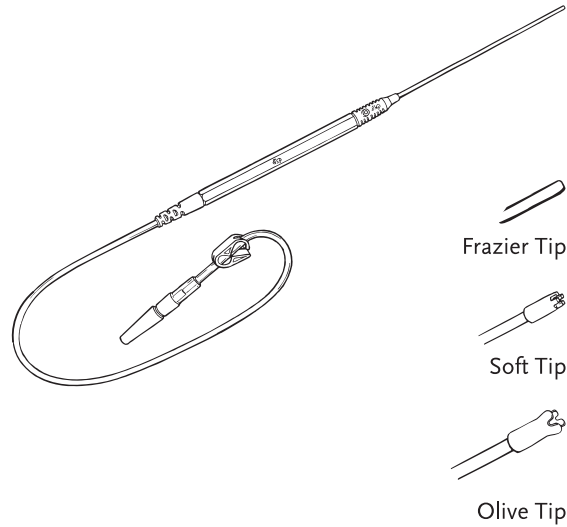
## DLP® Intracardiac Suction Tube

This Suction Tube features a comfortable hand grip. The tip is made from a malleable stainless steel shaft which can be shaped to the surgeon's preference, and has a perforated pool tip to maximize suction and minimize tissue trauma. This Suction Tube is equipped with a length of tubing terminating with a 1/4" (0.64 cm) slip connector.

20 per carton

### 6" (15.2 cm) length

10060 20 Fr. (6.7 mm)



Suction  
Tubes

Sumps

Vents

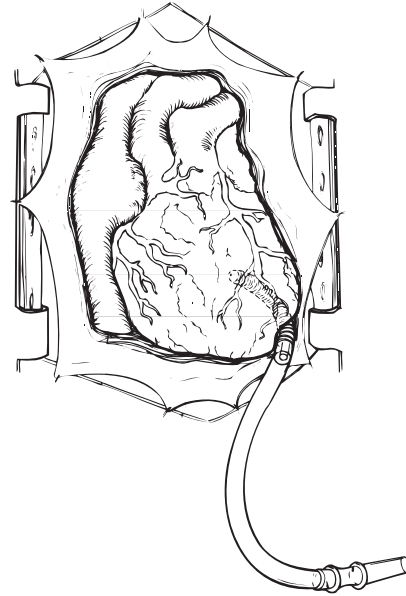
Suction Circuit Products

This section provides product information for all our Sump brands and their specific configurations.

*Pediatric and Adult Sizes*

*Metal and Plastic Tips*

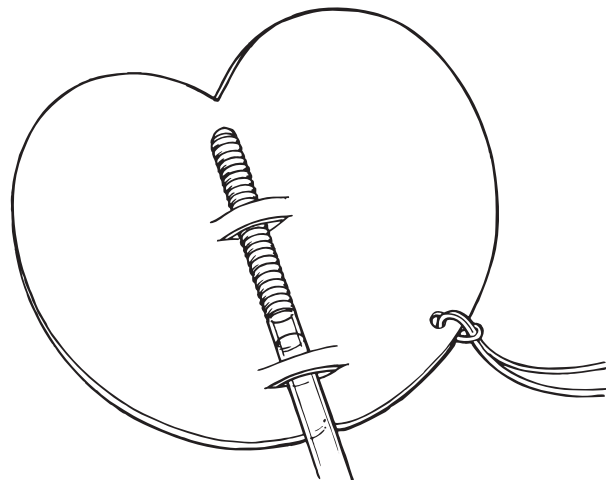
With the wide variety of configurations available, surgeons can find the right sump for their specific needs and uses.



Pericardial Sump Application

**Products included in this Section.**

DLP® Pericardial Sumps ..... 71  
 DLP® Pericardial/Intracardiac Sumps ..... 71  
 DLP® Intracardiac Sumps ..... 71



Pericardial Sump (with Phrenic Nerve Pad) Application

Vents	Suction Tubes
Sumps	
Suction Circuit Products	



## DLP® Pericardial Sumps

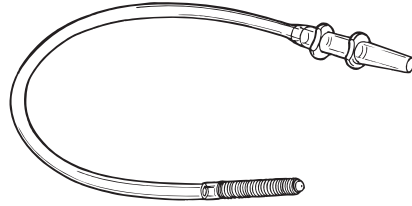
These Sumps feature a fluted tip which is encased in a stainless steel spring and has a weight at the end. This tip is attached to soft flexible tubing terminating in a slip connector.

20 per carton

**Adult 15" (38.1 cm) length**

12010                    1/4" (0.64 cm) connector

12011                    1/8" (0.32 cm) connector




## DLP® Pericardial/Intracardiac Sump

This Sump features a weighted perforated pool tip to maximize suction and minimize tissue trauma. This tip design is ideal for atraumatic suction within the heart chambers. The perforated tip is attached to tubing which terminates with a 1/4" (0.64 cm) slip connector.

20 per carton

**Adult 12" (30.5 cm) length**

12112                    20 Fr. (6.7 mm)

## DLP® Intracardiac Sumps

These Sumps feature a perforated pool tip to maximize suction and minimize tissue trauma. This tip design is ideal for atraumatic suction within the heart chambers. The perforated tip is attached to tubing which terminates with a 1/4" (0.64 cm) slip connector.

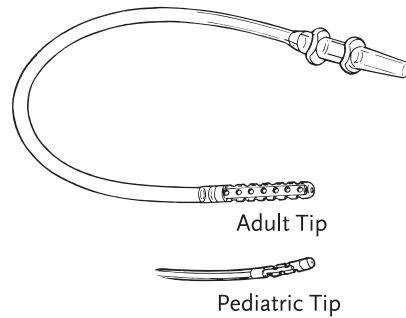
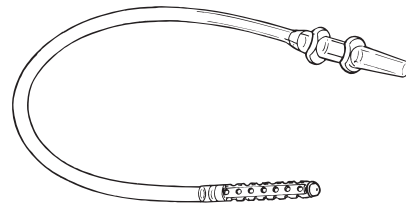
20 per carton

**Pediatric 12" (30.5 cm) length**

12013                    12 Fr. (4.0 mm)

**Adult 15" (38.1 cm) length**

12012                    20 Fr. (6.7 mm)





This section provides product information for all our Vent brands and their specific configurations.

*Pediatric and Adult Sizes*

*PVC and Silicone Bodies*

*Straight, Preformed and Malleable Bodies*

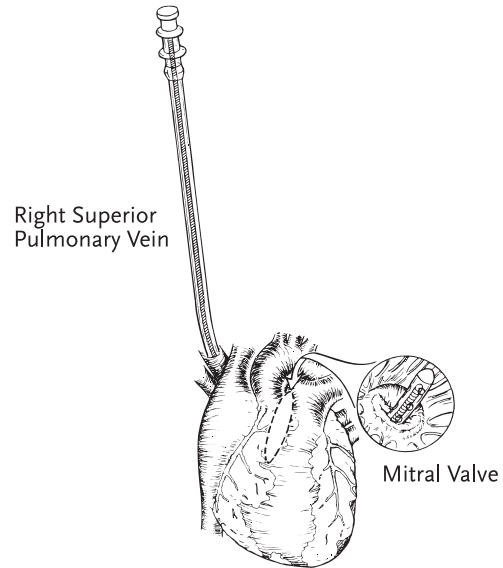
*Vented and Non-vented Connectors*

*Malleable and Performed Guidewire Style Introducers*

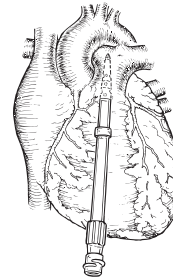
With the wide variety of configurations available, surgeons can find the right vent product for their specific needs and uses.

**Products included in this Section.**

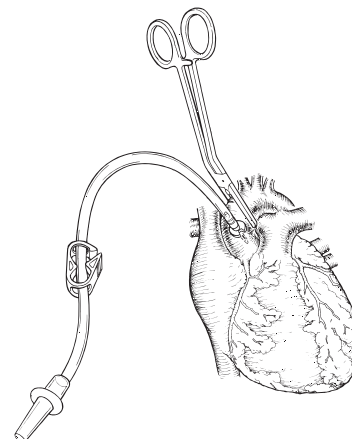
DLP® Left Heart Vent Catheters ..... 75  
 DLP® Pulmonary Artery Vent Cannula..... 76  
 DLP® Aortic Air Aspirating Needle ..... 76



Left Heart Vent Catheter Application



Pulmonary Artery Vent Cannula Application



Aortic Air Aspirating Needle Application



## DLP® Left Heart Vent Catheters

These Vent Catheters are for direct and indirect venting of the left ventricle and feature perforated tips. A choice of either PVC or silicone is available along with straight, preformed and malleable bodies with depth markings. Straight body models come with a malleable or stiff guidewire style introducer for easy insertion and placement. All Vent Catheters terminate with a vented or non-vented 1/4" (0.64 cm) slip connector.

20 per carton

### Pediatric PVC 13" (33.0 cm) length

**Preformed 1.5" (3.8 cm) tip and vented slip connector**

**12008** 10 Fr. (3.3 mm)

**Preformed 2" (5.1 cm) tip and vented slip connector**

**12001** 13 Fr. (4.3 mm)

**2" (5.1 cm) tip, vented slip connector and malleable introducer**

**12101** 13 Fr. (4.3 mm)

### Pediatric PVC 15" (38.1 cm) length

**Malleable body and vented slip connector**

**12110** 10 Fr. (3.3 mm)

**12113** 13 Fr. (4.3 mm)



### Adult PVC 15" (38.1 cm) length

**Malleable body and vented slip connector**

**12115** 15 Fr. (5.0 mm)

**12116** 16 Fr. (5.3 mm)

**12118** 18 Fr. (6.0 mm)

### Adult silicone 16" (40.6 cm) length

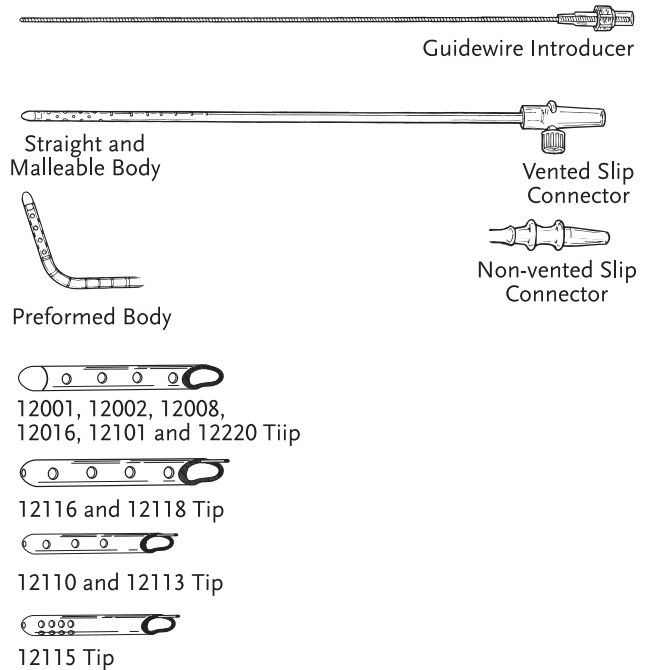
**Non-vented slip connector and malleable introducer**

**12016** 16 Fr. (5.3 mm)

**12002** 20 Fr. (6.7 mm)

**Non-vented slip connector and preformed introducer**

**12220** 20 Fr. (6.7 mm)





## DLP® Pulmonary Artery Vent Cannula

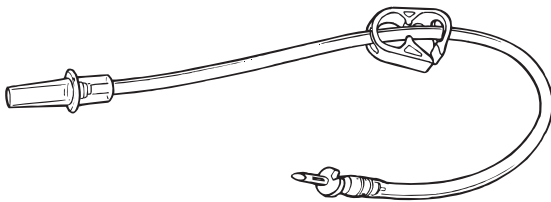
This cannula is used to empty the left atrium via the pulmonary vasculature. It features a soft, pliable tip with 12 side holes and terminates with a female luer. An introducer needle is included for easy introduction and placement. A movable depth marker is included on the body of the cannula.

20 per carton

**6" (15.2 cm) length**

12004

16 Fr. (5.3 mm)



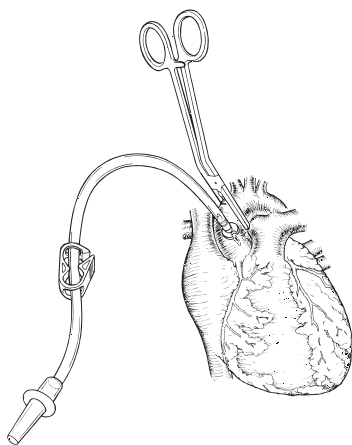
## DLP® Aortic Air Aspirating Needle

This needle features a 16 ga. (5 Fr.) stainless steel needle with two side slots and flange. The needle is attached to soft, flexible tubing with a clamp and terminates with a 1/4" (0.64 cm) slip connector. This product is perfect for aspirating air from the ascending aorta.

20 per carton

**11.5" (29.2 cm) length**

12006



Aortic Air Aspirating Needle Application

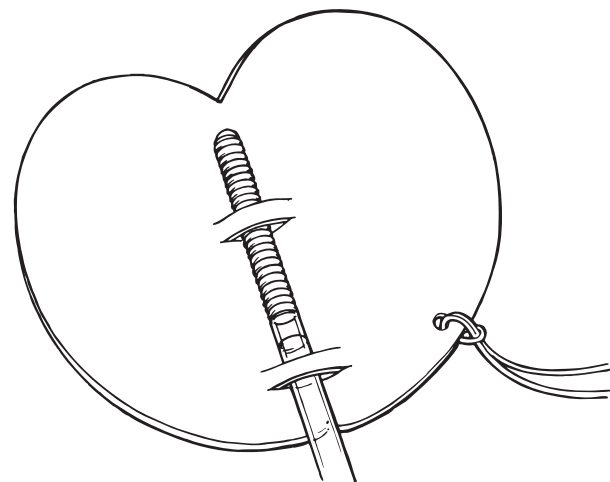
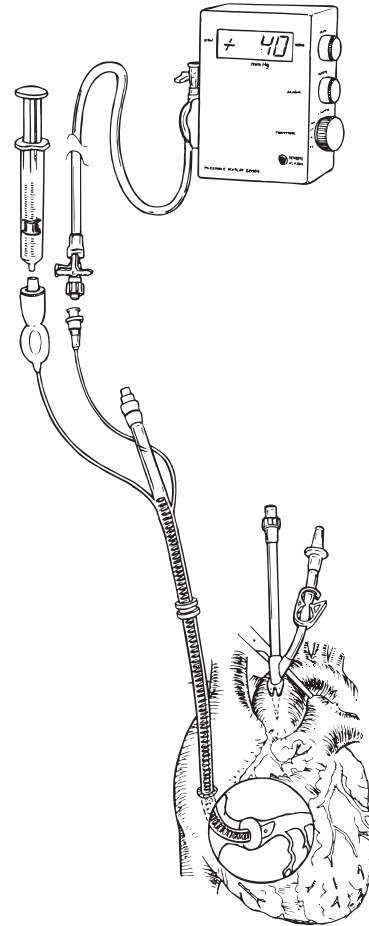
This section provides product information for all our Surgical Accessory products and their specific configurations.

- Tourniquets Sets*
- Vessel and Arteriotomy Cannulae*
- Pressure Monitoring Equipment and Catheters*
- Cardiac Gloves, Insulators and Slings*
- Coronary Artery Accessories*
- Electro-surgical Accessories*
- IV-Decanters and Rapid Prime Sets*
- Vent Plugs*

With the wide variety of Surgical Accessories available, surgeons can find the right products for their specific needs and uses.

## Products included in this Section.

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DLP® Arteriotomy Cannulae .....	81
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Phrenic Nerve Pad (with Pericardial Sump) Application





## DLP® Tourniquet Sets

These tourniquet Sets consist of color coded tubes in varying lengths and color combinations. Wire snares are included with the tube sets.

40 sets per carton

### Pediatric set

#### Tube length of 5.5" (14.0 cm)

- 79003 (1 - red, 2 - blue, 3 - clear, 1 - snare)
- 79015 (1 - red, 2 - blue, 5 - clear, 2 - snares)

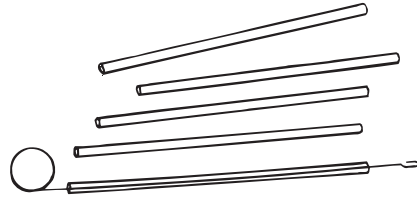
### Adult set

#### Tube length of 7" (17.8 cm)

- 79004 (1 - red, 1 - blue, 1 - snare)
- 79006 (1 - red, 1 - blue, 3 - clear, 1 - snare)
- 79026 (2 - red, 2 - blue, 2 - clear, 2 - large O.D. clear, 1 - snare)
- 79027 (2 - red, 1 - blue, 1 - snare)

#### Tube length of 4" (10.2 cm) and 6" (15.2 cm)

- 79016 (3 - 4" (10.2 cm) bronze, 3 - 6" 15.2 cm) bronze, 1 - snare)



### Vena Cava set

#### Tube length of 7" (17.8 cm)

- 79005 (3 - clear, 1 - snare)
- 79009 (4 - clear, 1 - snare)

## TourniKwik™ Tourniquet Sets

These tourniquet sets consist of bronze colored tubes, in varying lengths, which have a quick tie cap attached to one end. These caps eliminate the use of clamps by wrapping the suture string around the cap. Wire snares are included with each set of tubes.

40 sets per carton

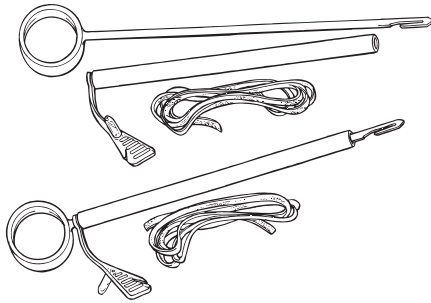
#### Tube Length of 6" (15.2 cm)

- 79010 (2 tubes, 1 snare)
- 79011 (4 tubes, 1 snare)

#### Tube length of 7.5" (19.1 cm)

- 79012 (2 tubes, 1 snare)
- 79013 (4 tubes, 1 snare)
- 79014 (2 tubes, 2 snares)





## Sure-Snare™ Tourniquet Set

These tourniquet sets consist of bronze colored tubes, in varying lengths, which have a plug attached to one end. These plugs eliminate the use of clamps by pushing the plug into the tube end where the suture string exits.

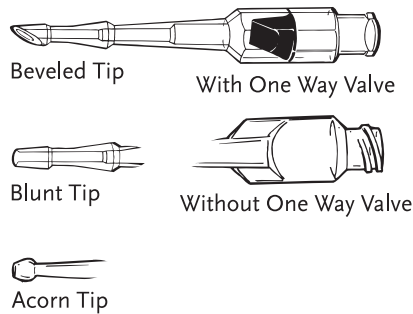
20 sets per carton

### Tube length of 5" (12.7 cm)

79020 (2 tubes, 2 umbilical tapes, 2 plastic snares)

### Tube length of 7.5" (19.0 cm)

79008 (2 tubes, 1 wire snare)



## DLP® Vessel Cannulae

These cannulae feature clear and radiopaque bodies and are available with or without a one way valve. All the cannulae terminate with a female luer and have tips in various sizes and shapes. 40 per carton

### 2" (5.1 cm) length

#### Clear body

30003 3 mm blunt tip  
 30004 2 mm blunt tip  
 30005 4 mm acorn tip  
 30007 3 mm beveled tip

#### Clear Body with radiopaque band

30022 3 mm blunt tip

#### Radiopaque body

30006 3 mm beveled tip  
 30023 3 mm blunt tip

### 2.5" (6.4 cm) length

#### Clear body with one way valve

30000 3 mm beveled tip  
 30001 3 mm blunt tip

#### Radiopaque body with one way valve

30021 3 mm blunt tip

## DLP® I.M.A. Cannula

This cannula features a stainless steel shaft with a bulb shaped tip terminating with a female luer.

20 per carton

**1.8" (4.6 cm) length**

31001            1 mm tip



## DLP® Arteriotomy Cannulae

These cannulae feature a polyurethane tube with a bulb shaped tip connected to a winged female luer.

20 per carton

**1.3" (3.3 cm) length**

31002            2 mm tip

31003            3 mm tip




---

**2.3" (5.8 cm) length**

31102            2 mm tip

31103            3 mm tip

31104            4 mm tip

31105            5 mm tip

31106            6 mm tip

## DLP® Pressure Sensing Syringes

These syringes have a predetermined pressure setting and a 30 cc volume. The plungers give tactile feedback upon reaching the predetermined pressure. All syringes have a male luer at the tip.

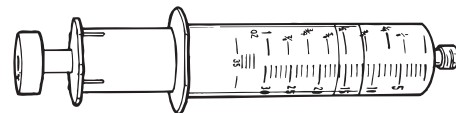
10 per carton

**240 mm Hg pre-set pressure point**

65000

65001            includes vessel cannula with one way valve (model 30001)

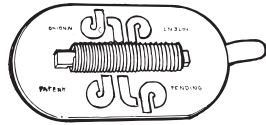
65003            includes vessel cannula (model 30003)




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**125 mm Hg pre-set pressure point**

65125

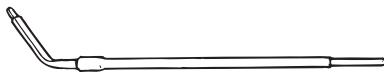


## DLP® Electro-surgical Knife Cleaner

This device keeps electro-surgical knife blades clean with a quick swipe. It's features a stainless steel spring attached to a plastic base which has a self adhesive pad. This allows the device to be placed at the most convenient site for the surgeon.

40 per carton

60001



## DLP® I.M.A. Electro-Surgical Knife Blades

These knife blades have extended length specifically designed to improve access to the I.M.A. during dissection. The spatulated tip features a 2 mm exposed surface and is angled to precisely dissect delicate tissues surrounding the vessel. They have a malleable shaft enclosed with a plastic sheathing.

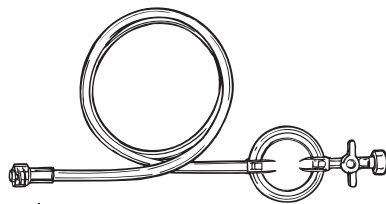
20 per carton

60002

3.3" (8.4 cm) length

60003

5.8" (14.7 cm) length



Male Luer



Stopcock

## DLP® Disposable Pressure Display Sets

These display sets are for use with the Pressure Display Boxes (see previous page). They feature a silicone diaphragm inside a plastic dome with a stopcock which attaches to the transducer fitting on the Pressure Display Boxes. This dome is attached to a coil of tubing for convenient handling which terminates with either a male luer or a stopcock.

**45" (114.3 cm) length**

61000

stopcock

62000

male luer

10 per carton

**72" (182.9 cm) length**

61006

stopcock

62006

male luer

5 per carton

## Pressure Display Box

The Pressure Display Box is ideal for monitoring line pressures in the extracorporeal, cardioplegia delivery circuits along with a variety of other sites where real time pressure read outs are critical.

Features include:

- Large easy to read display
- Variable alarm settings (high or low)
- Protective guards on switches
- Read outs in systolic, diastolic or mean pressures
- Zero functions
- Compact size
- Pole mount clamp
- Battery operated
- Remote alarm box with integral warning light and mute switch (not necessary for box performance)
- Utilizes disposable Pressure Display Sets (see previous page)

60000

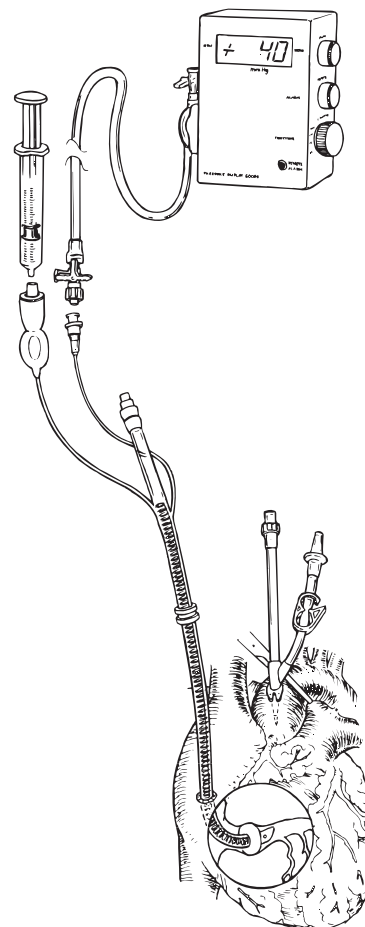
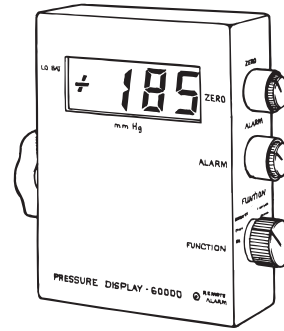
Standard Pressure Display Box has an alarm that sounds when line pressure has risen above the preset level.

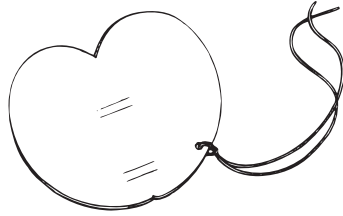
63000

Patient Transport Pressure Display Box has an alarm that sounds when line pressure has dropped below the preset level. Designed for monitoring line pressures during patient transportation. This pressure box can also be used to monitor coronary sinus pressure during warm continuous cardioplegia delivery.

64000

ECMO Pressure Display Box has an alarm that sounds when line pressure has risen above the preset level. Designed for monitoring line pressures during ECMO support of critically ill patients.



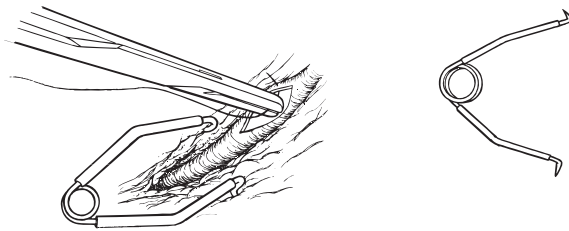


## DLP® Phrenic Nerve Pads

These pads are designed to help protect the phrenic nerve from the extreme cold during surgery. They are made of a closed cell foam which has slots. These slots can hold a pericardial sump in place. A radiopaque marker is tied to the pad.

10 per carton

38001	pediatric
38002	medium
38003	large



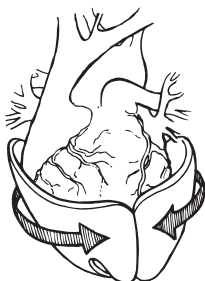
Coronary Artery Retraction Clip Application

## DLP® Coronary Artery Retraction Clips

These clips are designed to help improve exposure to a coronary anastomosis site. Small prongs grab and gently hold tissue away from the vessel to improve vision.

10 per carton

16130	3.0 mm prong length
16150	5.0 mm prong length



Cardiac Insulator Application

## DLP® Cardiac Insulators

These insulators are designed to protect the heart against heat transfer. They are malleable closed cell foam so they can conform to the desired shape.

10 per carton

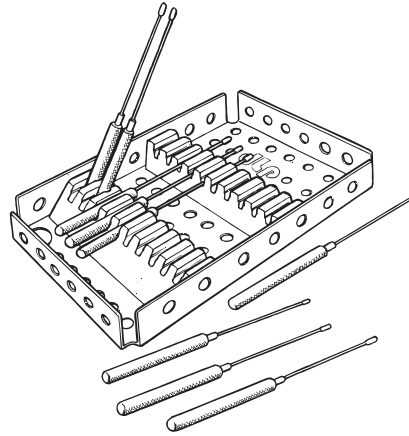
38201	small
38202	medium
38203	large

## DLP® Coronary Artery Probes

These reusable probes feature malleable stainless steel shafts with a hemispherical tip. These shafts are attached to knurled aluminum handles. Each handle has the probes size etched in it. The probes are available individually or as a complete set.

**5.5" (14.0 cm) length**

17000	complete set
17100	1.00 mm tip
17125	1.25 mm tip
17150	1.50 mm tip
17175	1.75 mm tip
17200	2.00 mm tip
17225	2.25 mm tip
17250	2.50 mm tip
17275	2.75 mm tip
17300	3.00 mm tip

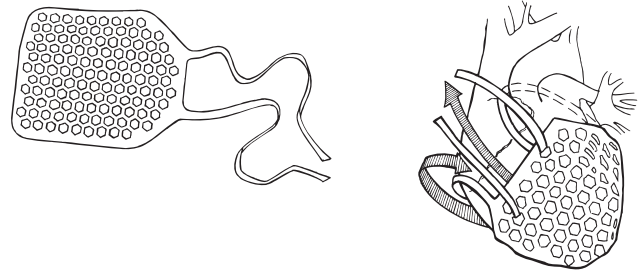


## DLP® Cardiac Sling

This sling is designed to support the heart and improve exposure. It reduces the need for additional assistants during the anastomosing of the circumflex vessels.

*10 per carton*

39000



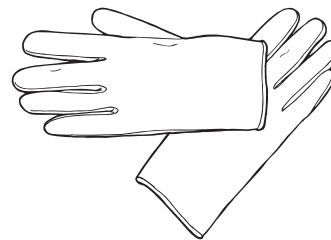
Cardiac Sling Application

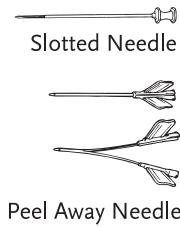
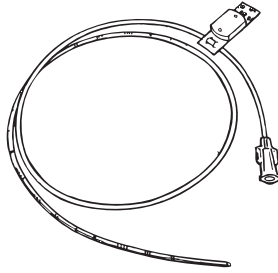
## DLP® Cardiac Retraction Gloves

These gloves are made of polyester and have an elastic cuff with radiopaque strip and are color coded.

*30 per carton*

39101	small
39102	medium/large
39103	extra-large





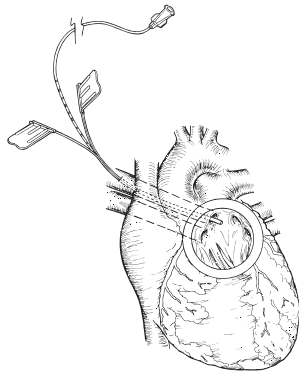
## DLP® Left Atrial Pressure Monitoring Catheter Placement Sets

These sets are an ideal alternative for measuring cardiac performance postoperatively. The catheters measure left atrial pressure in real time to accurately display critical pre-load pressures of the left heart. The catheter tubing has depth markings and are attached to a female luer. There is a self adhesive anchoring collar for securing the catheter which can be positioned at the desired location.

10 per carton

**24" (61.0 cm) length**

- 50010 3 Fr. (1.0 mm) catheter with  
2 - 17 ga. peel away needles
- 50011 5 Fr. (1.7 mm) catheter with  
2 - 14 ga. peel away needles
- 50013 5 Fr. (1.7 mm) catheter with  
1 - 14 ga. peel away needle  
1 - 14 ga. slotted needle



Left Atrial Pressure Monitoring Catheter Placement Set Application (models 50010, 50011, 50013)

Catheter models 50010, 50011 and 50013 are inserted through the chest wall and into the right superior pulmonary vein using two peel away needles. The peel away needles permit catheter insertion through the chest wall and pulmonary vein without utilizing an integral introducer.



These sets are an ideal alternative for measuring cardiac performance postoperatively. The catheters measure left atrial pressure in real time to accurately display critical pre-load pressures of the left heart. The catheter tubing has depth markings and are attached to a female luer. There is a self adhesive anchoring collar for securing the catheter which can be positioned at the desired location.

10 per carton

## 24" (61.0 cm) length

50005

5 Fr. (1.7 mm) catheter

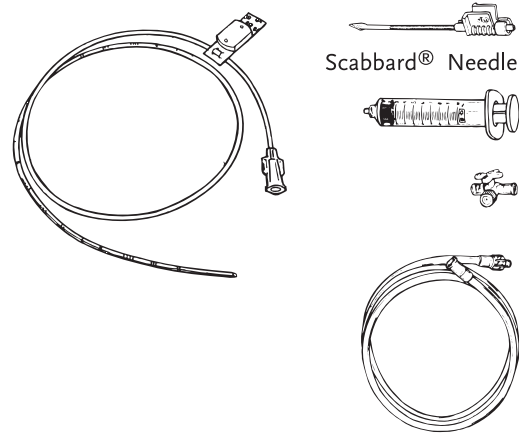
50015

5 Fr. (1.7 mm) catheter with

1 - 3-way stopcock

1 - 10 cc syringe

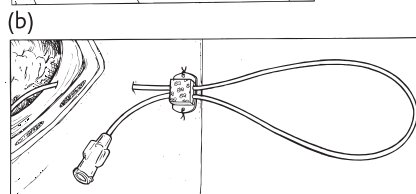
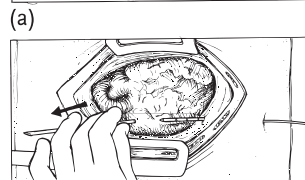
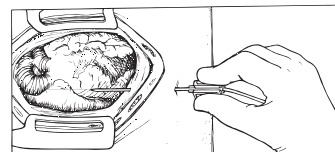
1 - 6' (182.9 cm) IV pressure tubing



(a) The Scabbard Needle facilitates insertion of the catheter through the chest wall.

(b) The Scabbard needle also protects the catheter tip during insertion and is easily removed.

(c) Self adhesive anchoring collar attaches the catheter to the skin at the desired location.



Left Atrial Pressure Monitoring Catheter Placement Set Application (models 50005, 50015)



## DLP® IV-Decanters

These decanters include several features to facilitate aseptic decanting of fluids from intravenous containers. They include large bore spikes, attached to rigid or flexible tubing. Some decanters have clamps to virtually eliminate inadvertant spilling.

*20 per carton*

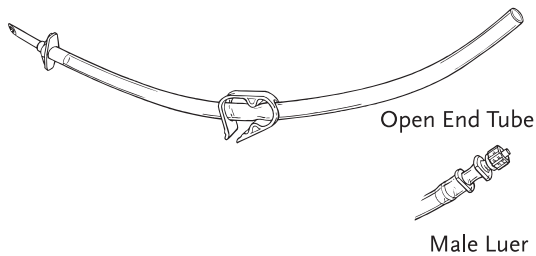
**8.5" (21.6 cm) length**

**Flexible tubing and clamp**

40040

**Rigid tubing**

40045



## DLP® Rapid Prime Sets

These sets facilitate the transfer of fluids during the priming of the extracorporeal circuit. They feature large bore spikes attached to flexible tubing with a clamp and terminate with either a open end tube or a male luer.

*10 per carton*

**14" (35.6 cm) length**

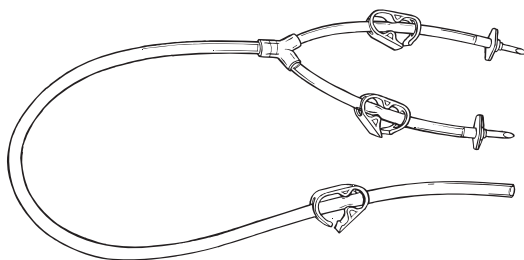
**with male luer**

10021

---

**15" (38.1 cm) length**

10023



## DLP® Rapid Prime "Y" Set

This set facilitates the transfer of fluids during the priming of the extracorporeal circuit. It features two large bore spikes attached to flexible tubing with clamps. These are attached to a "Y" adapter with a length of tubing and another clamp.

*10 per carton*

**42" (106.7 cm) length**

10024

This section provides product information for all our Cardio Kits and Packs.

*Custom Built*

*Conveniently Packaged*

*Easy to Order*

*Easy to Use*

*Personalized Tray and Label*

With the wide variety of configurations available, surgeons can create kits and packs to meet their specific needs and uses.

### Products included in this Section.

DLP® Cardio Kits & Packs .....	91
DLP® Heart Tray .....	92
DLP® Cardioplegia Pack .....	92



## DLP® Cardio Kits and Packs

Instead of ordering all your products separately, have a custom kit made specifically for you.

### **Custom Built**

This enables the surgical team to choose the products they prefer.

### **Coveniently Packaged**

Keeps products neatly organized and reduces waste.

### **Easy to Order**

Instead of ordering multiple product codes separately, only one code is ordered and stocked. Just contact your local Medtronic Cardiac Surgery Sales Representative with your order.

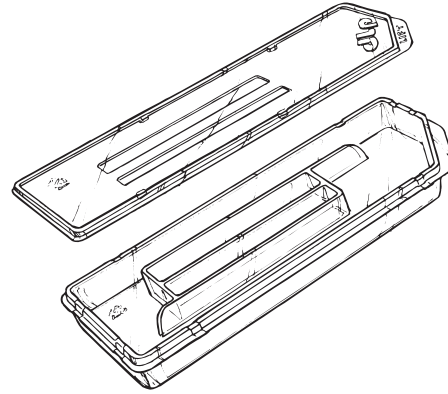
### **Easy to Use**

All products are placed on the surgical field at one time and ready to use.

### **Personalized Tray and Label**

Put the products you need into one package and we'll personalize the label with the surgeon's name and the type of procedure being performed.

*5 kits/packs per carton*



## Cardio Kits come in a small tray

## Cardio Packs are available in two packaging configurations.

### **Sterile/Non-sterile**

Individually packaged sterile products bundled together in a non-sterile outer pouch or paper tape.

### **Sterile/Sterile**

Individually packaged sterile products packaged together in a sterile outer pouch.

## DLP® Heart Tray

10390 this kit contains the following product codes

- 1 - 10003 DLP® “Y” Type Recirculating Adapter
- 1 - 20014 DLP® Aortic Root Cannula with Vent Line
- 2 - 30001 DLP® Vessel Cannulae

## DLP® Cardioplegia Pack

11440 this pack contains the following product codes

- 1 - 10014 DLP® Aortic Root Cannula
- 1 - 14001 DLP® Multiple Perfusion Set
- 3 - 30003 DLP® Vessel Cannulae

This section provides index listing for all Products listed in this catalog and all Medtronic contacts around the world.

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○	3 Fr.	1.0 mm	0.039"
○	4 Fr.	1.35 mm	0.053"
○	5 Fr.	1.67 mm	0.066"
○	6 Fr.	2.0 mm	0.079"
○	7 Fr.	2.3 mm	0.092"
○	8 Fr.	2.7 mm	0.105"
○	9 Fr.	3.0 mm	0.118"
○	10 Fr.	3.3 mm	0.131"
○	11 Fr.	3.7 mm	0.144"
○	12 Fr.	4.0 mm	0.158"
○	13 Fr.	4.3 mm	0.170"
○	14 Fr.	4.7 mm	0.184"
○	15 Fr.	5.0 mm	0.197"
○	16 Fr.	5.3 mm	0.210"
○	17 Fr.	5.7 mm	0.223"
○	18 Fr.	6.0 mm	0.236"
○	19 Fr.	6.3 mm	0.249"
○	20 Fr.	6.7 mm	0.263"
○	22 Fr.	7.3 mm	0.288"
○	24 Fr.	8.0 mm	0.315"
○	26 Fr.	8.7 mm	0.341"
○	28 Fr.	9.3 mm	0.367"
○	30 Fr.	10.0 mm	0.393"
○	32 Fr.	10.7 mm	0.419"
○	34 Fr.	11.3 mm	0.445"

## French Size Conversion Table

This table shows the various outer diameters of product in this catalog. Use this table as a quick reference when determining the size of the product to be used during cardiopulmonary bypass surgery.

The circles shown represent the actual outer diameter of the products tip. These circles are followed by its corresponding french size, diameter in millimeters, and diameter in inches.



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