



# CANNULA CATALOG 2020



**The largest cannula portfolio  
worldwide, backed by an even larger  
commitment — to you.**

**Medtronic**



# ALLEVIATE PAIN RESTORE HEALTH EXTEND LIFE

EXTRACORPOREAL  
CIRCUIT

CARDIOPLEGIA  
CIRCUIT

SUCTION CIRCUIT AND  
SURGICAL ACCESSORIES

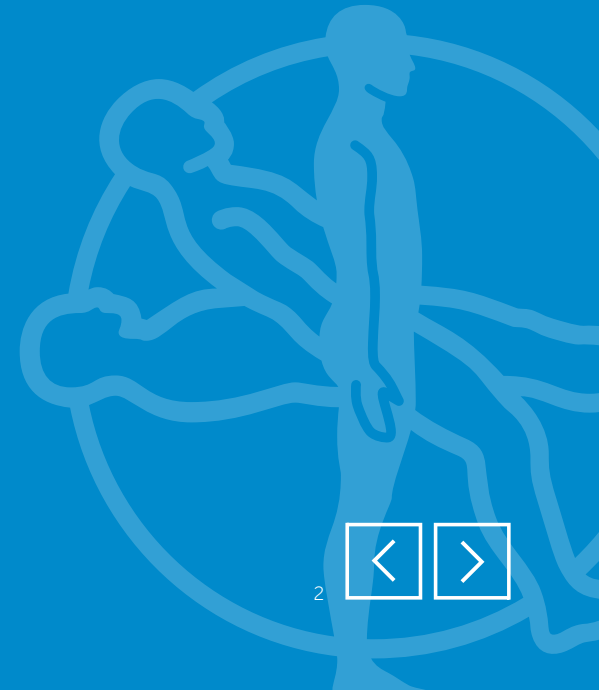
APPENDIX

## Living Our Mission with You

Our Mission guides our day-to-day work and reminds us that our efforts, large and small, transform the lives of millions of people each year.

We have been working with you to deliver trusted and innovative cannula options for more than 40 years for standard, pediatric, and MICS procedures — more recently ECLS — while offering your favorite cardiac suction, surgical support items, and cardio-kits.

Together, we can deliver the cardiac cannula solutions that matter most to you — and your patients.





# EXTRACORPOREAL CIRCUIT

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# ARTERIAL CANNULAE



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VENOUS CANNULAE

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Arterial cannulae are intended to deliver blood to the patient during cardiopulmonary bypass. Medtronic understands the importance of gentle flow in the often fragile aorta. We offer a number of different product variations to facilitate a variety of surgical techniques and to accommodate varying patient anatomies. Our adult and pediatric arterial cannulae are available in sizes from 6 Fr to 24 Fr in a variety of tip configurations, lengths, and connector sizes to meet your specific needs.





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[Soft-Flow®\\* Straight Tip >](#)

[Soft-Flow®\\* Angled Tip >](#)

[EOPA 3D™ >](#)

[Select 3D™ II >](#)

[EOPA™ >](#)

[DLP™ Pediatric One-Piece >](#)

[DLP™ Straight Tip >](#)

[DLP™ Flexible Arch >](#)

[Select Series™ Straight Tip >](#)

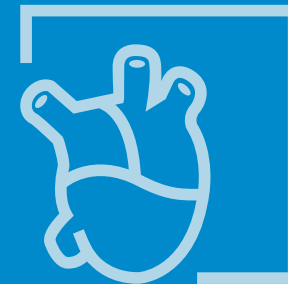
[Select Series™ Angled Tip >](#)

[DLP™ Curved Tip with One-Piece Wirewound Body >](#)

[DLP™ Curved Tip Cannulae with Wirewound Body >](#)

[DLP™ Curved Tip >](#)

[DLP™ Metal Tip >](#)



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## Soft-Flow®\* Extended Arterial Cannulae

These arterial models were the first available diffusion tip cannulae on the market. This design features a closed tip with an inner cone that directs flow through side vents. This results in a diffuse, lower velocity flow. The extended-length, kink-resistant wirewound body allows for use across various patient anatomies. Depth markings and a suture ring assist with positioning of the cannulae.



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#### 14.5 in (37.0 cm) overall length

Suture ring and extended body

##### Vented 3/8 in (0.95 cm) connector

4949	21 Fr (7.0 mm)
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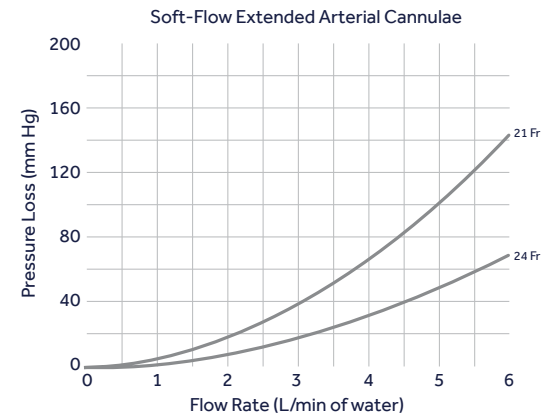
4951	24 Fr (8.0 mm)
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##### Non-vented 3/8 in (0.95 cm) connector

4948	21 Fr (7.0 mm)
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4950	24 Fr (8.0 mm)
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10 per carton



Soft-Flow®\* Arterial Cannulae are manufactured by MC3, Inc. and exclusively distributed by Medtronic.

#### Important Safety Information

Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.





## Soft-Flow<sup>®</sup>\* Straight Tip Arterial Cannulae

These arterial models were the first available diffusion tip cannulae on the market. A smooth, tapered, reverse-angle tip is designed to facilitate insertion and placement. Depth markings and a suture bulb assist with positioning the cannulae. All cannulae feature kink-resistant wirewound bodies and a 3/8 inch vented or non-vented connector.



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#### 14 in (36.0 cm) overall length

Straight tip with suture bulb

##### Vented 3/8 in (0.95 cm) connector

5798	21 Fr (7.0 mm)
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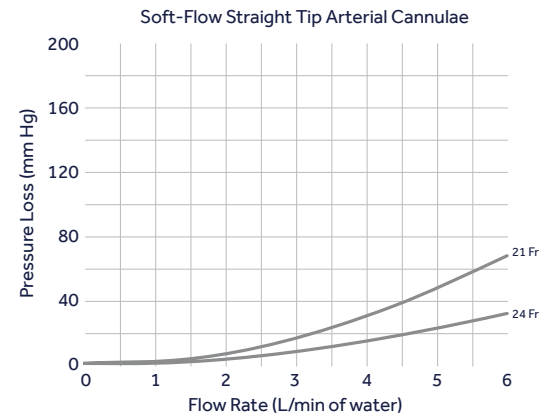
5841	24 Fr (8.0 mm)
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##### Non-vented 3/8 in (0.95 cm) connector

5842	21 Fr (7.0 mm)
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5843	24 Fr (8.0 mm)
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10 per carton



Soft-Flow<sup>®</sup>\* Arterial Cannulae are manufactured by MC3, Inc. and exclusively distributed by Medtronic.

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## Soft-Flow® Angled Tip Arterial Cannulae

These arterial models were the first available diffusion tip cannulae on the market. A smooth, tapered, reverse-angle tip is designed to facilitate insertion and placement. An orientation line, depth markings, and a suture bulb or flange assist with positioning the cannulae. All cannulae feature kink-resistant wirewound bodies and a 3/8 inch vented or non-vented connector.



### 14 in (36.0 cm) overall length

Angled tip with suture bulb

#### Vented 3/8 in (0.95 cm) connector

**7072** 18 Fr (6.0 mm)

**5761** 21 Fr (7.0 mm)

**5762** 24 Fr (8.0 mm)

10 per carton

#### Non-vented 3/8 in (0.95 cm) connector

**7071** 18 Fr (6.0 mm)

**5767** 21 Fr (7.0 mm)

**5768** 24 Fr (8.0 mm)

Angled tip with suture flange

#### Vented 3/8 in (0.95 cm) connector

**7080** 18 Fr (6.0 mm)

**6394** 21 Fr (7.0 mm)

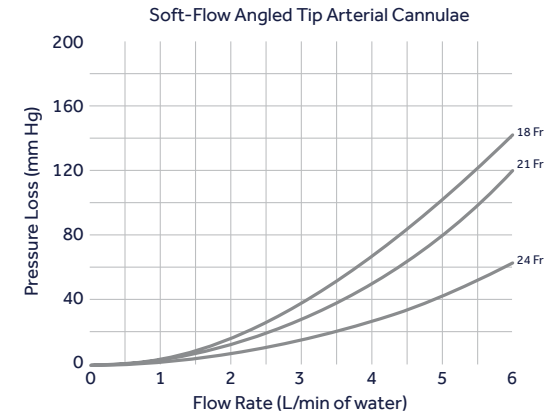
**6386** 24 Fr (8.0 mm)

10 per carton

#### Non-vented 3/8 in (0.95 cm) connector

**6392** 21 Fr (7.0 mm)

**6384** 24 Fr (8.0 mm)



Soft-Flow® Arterial Cannulae are manufactured by MC3, Inc. and exclusively distributed by Medtronic.

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## EOPA 3D™ Arterial Cannulae

These cannulae offer unique tapered diffuse flow tips and kink-resistant, elongated wirewound bodies. The 3-D tip is designed with three integrated flutes to diffuse and disperse blood flow. Features include adjustable radiopaque suture ring, obturator, hemostasis cap, and depth markings.



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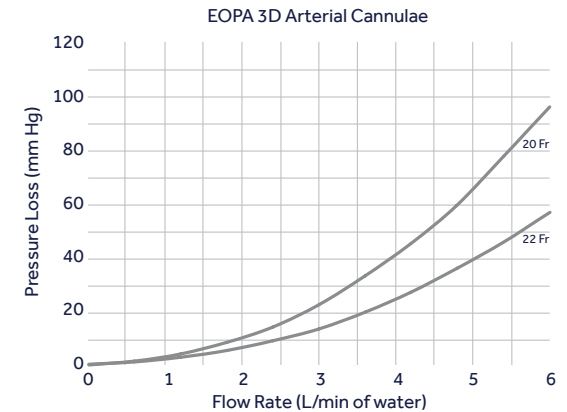
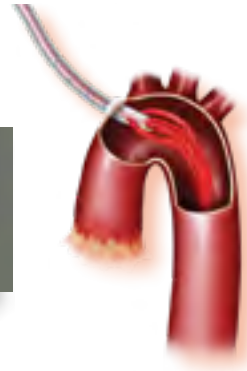
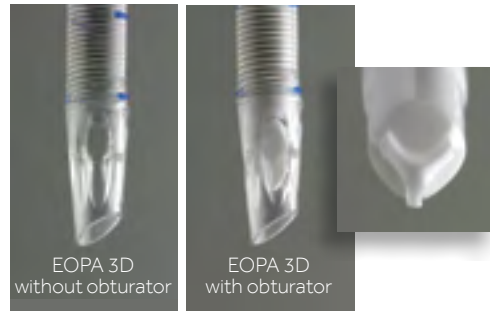
#### Vented 3/8 in (0.95 cm) connector

<b>78220</b>	20 Fr (6.7 mm)
<b>78222</b>	22 Fr (7.3 mm)

#### Non-vented 3/8 in (0.95 cm) connector

<b>78320</b>	20 Fr (6.7 mm)
<b>78322</b>	22 Fr (7.3 mm)

10 per carton



#### Important Safety Information

EOPA 3D models: Cannula tip must be inserted beyond side ports to minimum depth marks to avoid possibility of tissue dissection of the aorta. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.





## Select 3D™ II Arterial Cannulae

These cannulae offer beveled tips and tapered, one-piece, kink-resistant wirewound bodies. The tips feature three integrated flutes, which help diffuse and disperse blood flow.



**11.5 in (29.2 cm) overall length**  
45° tip

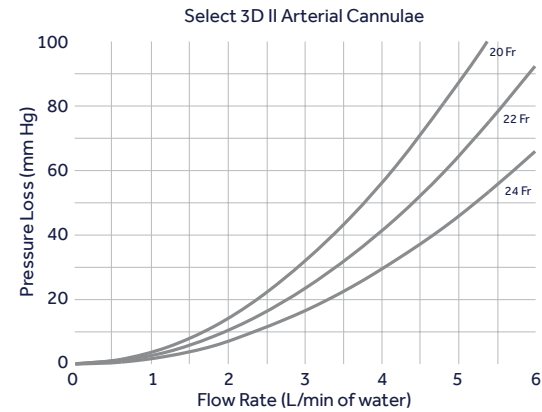
### Vented 3/8 in (0.95 cm) connector

78420	20 Fr (6.7 mm)
78422	22 Fr (7.3 mm)
78424	24 Fr (8.0 mm)

### Non-vented 3/8 in (0.95 cm) connector

78520	20 Fr (6.7 mm)
78522	22 Fr (7.3 mm)
78524	24 Fr (8.0 mm)

10 per carton



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## EOPA™ Arterial Cannulae

These cannulae offer elongated, one-piece, kink-resistant wirewound bodies with an introducer and hemostasis cap. Features include depth markings and an adjustable radiopaque suture ring.



### 12 in (30.5 cm) overall length

Blunt tip introducer  
without guidewire

#### Vented 3/8 in (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 in (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)

10 per carton

### 12 in (30.5 cm) overall length

Dilator tip introducer  
with 0.039 in (0.1 cm) guidewire

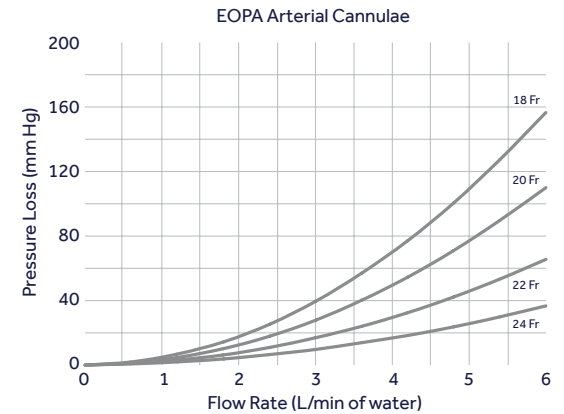
#### Vented 3/8 in (0.95 cm) connector

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 in (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)

10 per carton



[VIEW IMAGES](#)



### Important Safety Information

EOPA models with dilator tip introducer: A guidewire must be used for proper placement of introducer tip while inserting cannula to avoid trauma to the back wall of the aorta. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgical procedures. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.



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## EOPA™ Arterial Cannulae

These cannulae offer elongated, one-piece, kink-resistant wirewound bodies with an introducer and hemostasis cap. Features include depth markings and an adjustable radiopaque suture ring.



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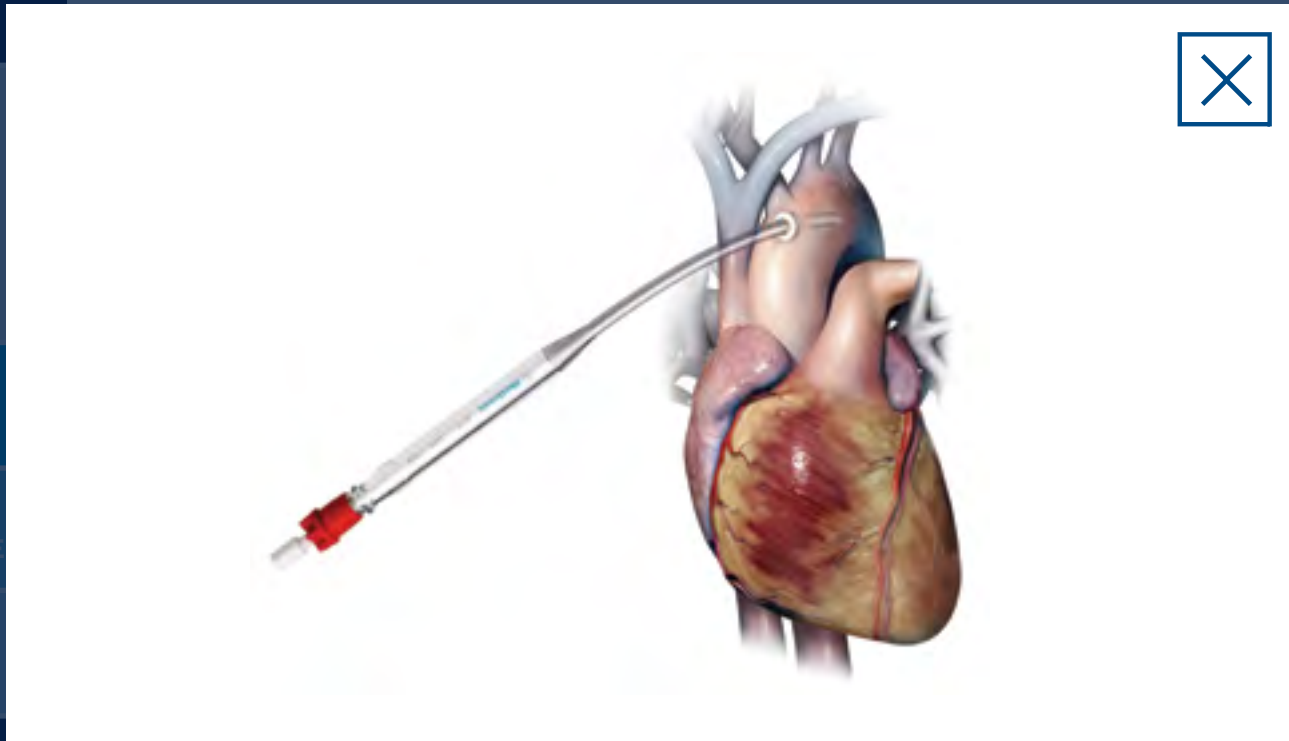
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77524 24 Fr (8.0 mm)

10 per carton

77724 24 Fr (8.0 mm)

10 per carton

Cannulae



#### Important Safety Information

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## DLP™ Pediatric One-piece Arterial Cannulae

These cannulae offer beveled tips with elongated, one-piece, kink-resistant wirewound bodies. Features include an adjustable hemostasis introducer system and depth markings.

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#### 9 in (22.9 cm) overall length

##### Vented 1/4 in (0.64 cm) connector (blue hub)

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 in (0.64 cm) connector (blue hub)

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)

5 per carton

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#### 9 in (22.9 cm) overall length

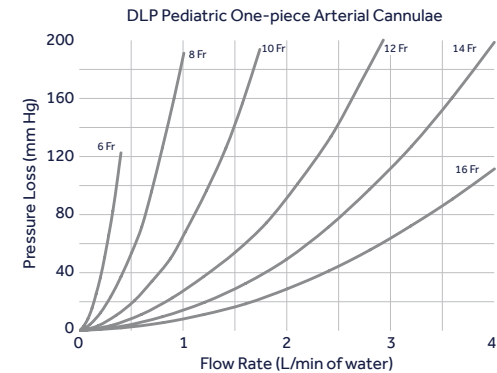
##### Vented 3/16 in (0.48 cm) connector (grey hub)

77206	6 Fr (2.0 mm)
77208	8 Fr (2.7 mm)
77210	10 Fr (3.3 mm)
77212	12 Fr (4.0 mm)

##### Non-vented 3/16 in (0.48 cm) connector (grey hub)

77306	6 Fr (2.0 mm)
77308	8 Fr (2.7 mm)
77310	10 Fr (3.3 mm)
77312	12 Fr (4.0 mm)

5 per carton



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## DLP™ Pediatric One-piece Arterial Cannulae

These cannulae offer beveled tips with elongated, one-piece, kink-resistant wirewound bodies. Features include an adjustable hemostasis introducer system and depth markings.

9 in (22.9 cm) overall length

Vented 1/4 in (0.64 cm)  
connector (blue hub)

9 in (22.9 cm) overall length

Vented 3/16 in (0.48 cm)  
connector (grey hub)

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## DLP™ Straight Tip Arterial Cannulae

These pediatric and adult cannulae feature beveled tips and tapered bodies. A variety of sizes are available.



### 7 in (17.8 cm) overall length

Connection site 1/4 in (0.64 cm)

75008	8 Fr (2.7 mm)
75010	10 Fr (3.3 mm)
75012	12 Fr (4.0 mm)
75014	14 Fr (4.7 mm)

Connection site 3/8 in (0.95 cm)

75318	18 Fr (6.0 mm)
75320	20 Fr (6.7 mm)
75322	22 Fr (7.3 mm)
75324	24 Fr (8.0 mm)

20 per carton

### 8 in (20.3 cm) overall length

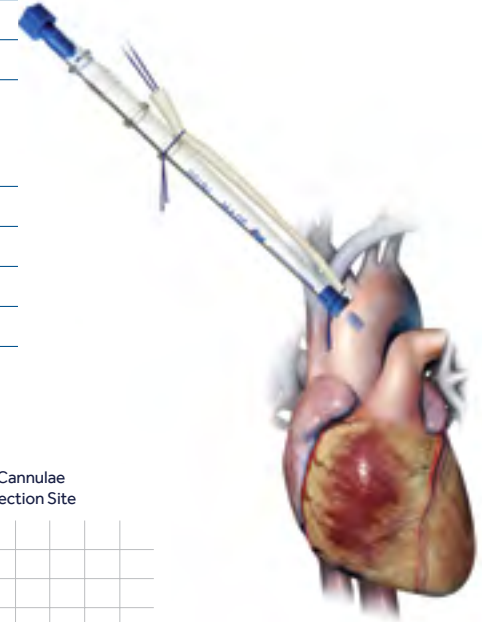
Vented 3/8 in (0.95 cm) connector

76020	20 Fr (6.7 mm)
76022	22 Fr (7.3 mm)
76024	24 Fr (8.0 mm)

Non-vented 3/8 in (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)

20 per carton



## EXTRACORPOREAL CIRCUIT

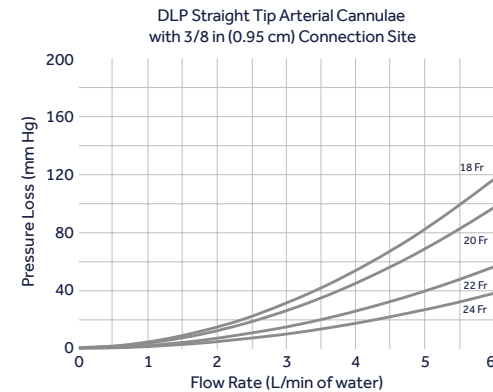
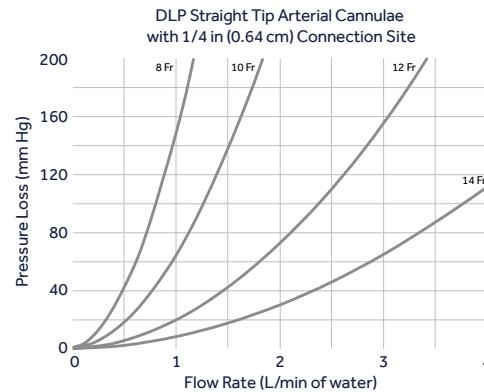
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### Important Safety Information

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## DLP™ Flexible Arch Arterial Cannulae

These cannulae offer beveled tips and tapered, one-piece bodies. Features include adjustable ring, tip orientation line, and depth markings.



### 11 in (27.9 cm) overall length

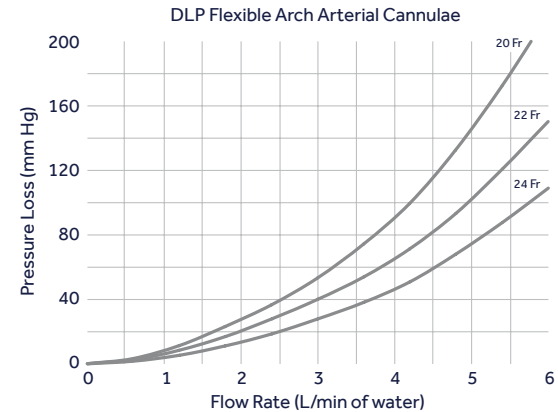
#### Vented 3/8 in (0.95 cm) connector

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

#### Non-vented 3/8 in (0.95 cm) connector

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

20 per carton



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## Select Series™ Straight Tip Arterial Cannulae

These cannulae feature beveled tips and tapered, one-piece, kink-resistant wirewound bodies, tip orientation line, and connector peel cap.



### 12 in (30.5 cm) overall length

#### Vented 3/8 in (0.95 cm) connector

72120	20 Fr (6.7 mm)
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72122	22 Fr (7.3 mm)
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72124	24 Fr (8.0 mm)
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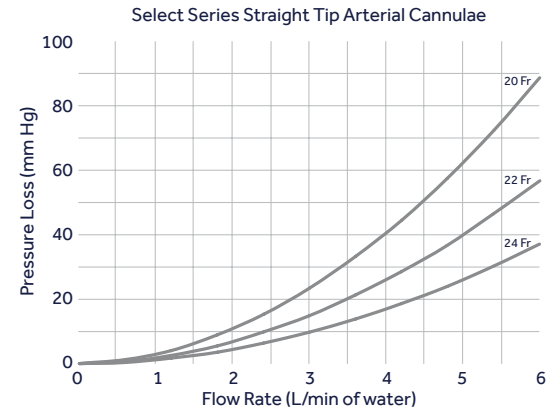
#### Non-vented 3/8 in (0.95 cm) connector

72220	20 Fr (6.7 mm)
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72222	22 Fr (7.3 mm)
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72224	24 Fr (8.0 mm)
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20 per carton



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### Important Safety Information

Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.





## Select Series™ Angled Tip Arterial Cannulae

These cannulae feature beveled tips and tapered, one-piece, kink-resistant wirewound bodies, tip orientation line, and connector peel cap.



**12 in (30.5 cm) overall length**  
45° tip without side holes

**Vented 3/8 in (0.95 cm) connector**

<b>72420</b>	20 Fr (6.7 mm)
<b>72422</b>	22 Fr (7.3 mm)
<b>72424</b>	24 Fr (8.0 mm)

**12 in (30.5 cm) overall length**  
45° tip with side holes

**Vented 3/8 in (0.95 cm) connector**

<b>73420</b>	20 Fr (6.7 mm)
<b>73422</b>	22 Fr (7.3 mm)
<b>73424</b>	24 Fr (8.0 mm)

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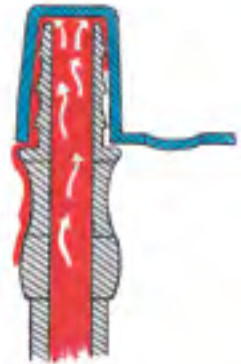
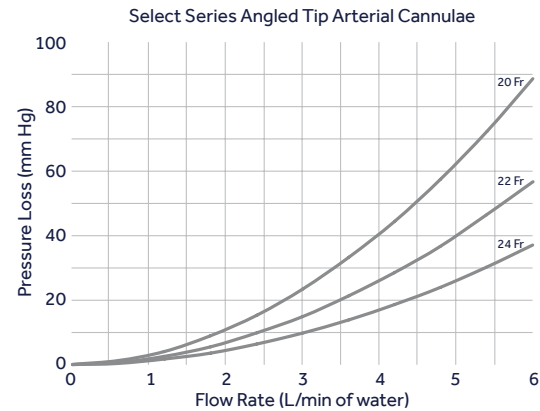
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**Non-vented 3/8 in (0.95 cm)  
connector**

<b>72520</b>	20 Fr (6.7 mm)
<b>72522</b>	22 Fr (7.3 mm)
<b>72524</b>	24 Fr (8.0 mm)

*20 per carton*



#### Important Safety Information

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## DLP™ Curved Tip Arterial Cannulae with One-piece Wirewound Body

These cannulae feature beveled curved tips and tapered, one-piece, kink-resistant wirewound bodies, tip orientation line, and connector peel cap.



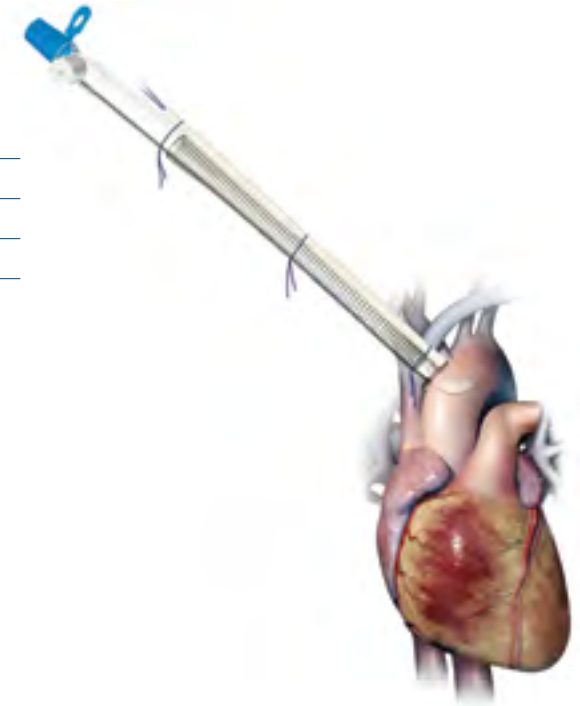
**11 in (27.9 cm) overall length**

Round flange

Vented 3/8 in (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 in (0.95 cm)	
87120	20 Fr (6.7 mm)
87122	22 Fr (7.3 mm)
87124	24 Fr (8.0 mm)

10 per carton



### EXTRACORPOREAL CIRCUIT

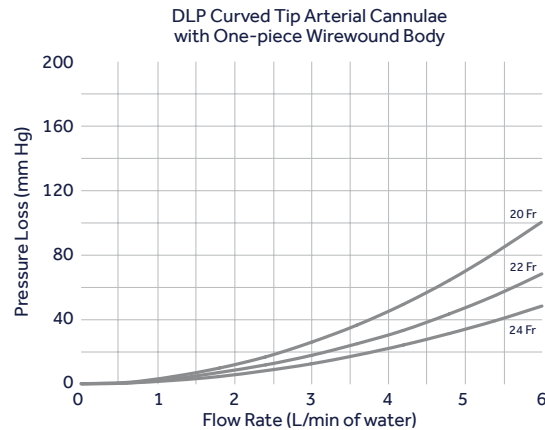
#### ARTERIAL CANNULAE

FEMORAL CANNULAE  
VENOUS CANNULAE

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#### Important Safety Information

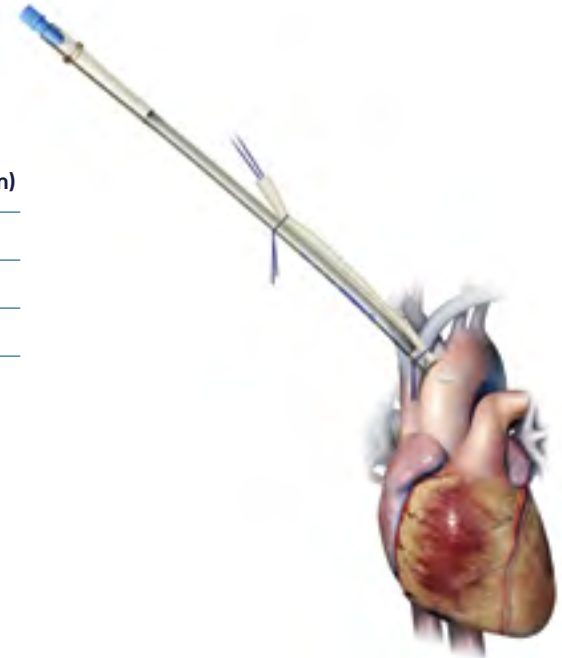
Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.





## DLP™ Curved Tip Arterial Cannulae with Wirewound Body

These cannulae feature an overall longer length, beveled curved tips, and wirewound bodies with tip orientation line.



**13 in (33.0 cm) overall length**  
Curved tip with flange

**Connection site 3/8 in (0.95 cm)**

**87020** 20 Fr (6.7 mm)

**87022** 22 Fr (7.3 mm)

**87024** 24 Fr (8.0 mm)

*10 per carton*

**13 in (33.0 cm) overall length**  
Curved tip without flange

**Connection site 3/8 in (0.95 cm)**

**87920** 20 Fr (6.7 mm)

**87922** 22 Fr (7.3 mm)

**87924** 24 Fr (8.0 mm)

*10 per carton*

### EXTRACORPOREAL CIRCUIT

#### ARTERIAL CANNULAE

FEMORAL CANNULAE

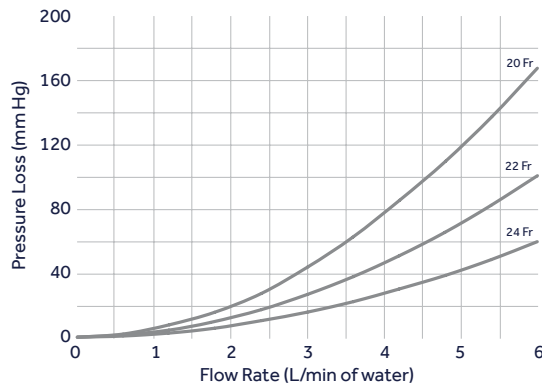
VENOUS CANNULAE

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DLP Curved Tip Arterial Cannulae  
with Wirewound Body



#### Important Safety Information

Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.





## DLP™ Curved Tip Arterial Cannulae

These cannulae feature beveled curved tips and tapered bodies with tip orientation line.



### 7 in (17.8 cm) overall length

Curved tip with flange

#### Connection site 3/8 in (0.95 cm)

<b>83020</b>	20 Fr (6.7 mm)
<b>83022</b>	22 Fr (7.3 mm)
<b>83024</b>	24 Fr (8.0 mm)

20 per carton

### 7 in (17.8 cm) overall length

Curved tip without flange

#### Connection site 3/8 in (0.95 cm)

<b>84020</b>	20 Fr (6.7 mm)
<b>84022</b>	22 Fr (7.3 mm)
<b>84024</b>	24 Fr (8.0 mm)

20 per carton

### 8 in (20.3 cm) overall length

Curved tip with flange

#### Vented 3/8 in (0.95 cm) connector

<b>88020</b>	20 Fr (6.7 mm)
<b>88022</b>	22 Fr (7.3 mm)
<b>88024</b>	24 Fr (8.0 mm)

#### Non-vented 3/8 in (0.95 cm) connector

<b>88120</b>	20 Fr (6.7 mm)
<b>88122</b>	22 Fr (7.3 mm)
<b>88124</b>	24 Fr (8.0 mm)

20 per carton

### 8 in (20.3 cm) overall length

Curved tip without flange

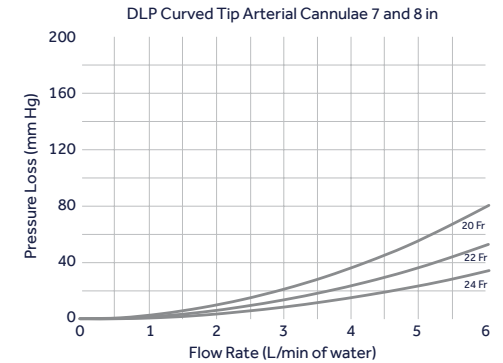
#### Vented 3/8 in (0.95 cm) connector

<b>89020</b>	20 Fr (6.7 mm)
<b>89022</b>	22 Fr (7.3 mm)
<b>89024</b>	24 Fr (8.0 mm)

#### Non-vented 3/8 in (0.95 cm) connector

<b>89120</b>	20 Fr (6.7 mm)
<b>89122</b>	22 Fr (7.3 mm)
<b>89124</b>	24 Fr (8.0 mm)

20 per carton



## EXTRACORPOREAL CIRCUIT

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### Important Safety Information

Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.

Continued on next page >





## DLP™ Curved Tip Arterial Cannulae, cont'd.

These cannulae feature beveled curved tips and tapered bodies with tip orientation line.

### 10 in (25.4 cm) overall length

Curved tip with flange and soft body

#### Vented 3/8 in (0.95 cm) connector

81020	20 Fr (6.7 mm)
-------	----------------

81022	22 Fr (7.3 mm)
-------	----------------

#### Non-vented 3/8 in (0.95 cm) connector

81120	20 Fr (6.7 mm)
-------	----------------

81122	22 Fr (7.3 mm)
-------	----------------

20 per carton

### 10 in (25.4 cm) overall length

Curved tip without flange and soft body

#### Vented 3/8 in (0.95 cm) connector

82020	20 Fr (6.7 mm)
-------	----------------

82022	22 Fr (7.3 mm)
-------	----------------

#### Non-vented 3/8 in (0.95 cm) connector

82120	20 Fr (6.7 mm)
-------	----------------

82122	22 Fr (7.3 mm)
-------	----------------

20 per carton

## EXTRACORPOREAL CIRCUIT

### ARTERIAL CANNULAE

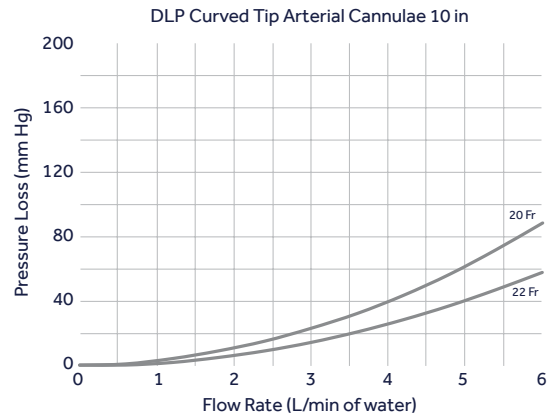
FEMORAL CANNULAE

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### Important Safety Information

Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.





## DLP™ Metal Tip Arterial Cannulae

These cannulae feature beveled metal tips and tapered bodies with tip orientation line. A choice of either standard or soft flange is available.



**10.5 in (26.7 cm) overall length**  
Soft flange

### Vented 3/8 in (0.95 cm) connector

<b>80020</b>	20 Fr (6.7 mm)
<b>80022</b>	22 Fr (7.3 mm)

### Non-vented 3/8 in (0.95 cm) connector

<b>80120</b>	20 Fr (6.7 mm)
<b>80122</b>	22 Fr (7.3 mm)

20 per carton

**10.5 in (26.7 cm) overall length**  
Standard flange

### Vented 3/8 in (0.95 cm) connector

<b>80220</b>	20 Fr (6.7 mm)
<b>80222</b>	22 Fr (7.3 mm)

### Non-vented 3/8 in (0.95 cm) connector

<b>80320</b>	20 Fr (6.7 mm)
<b>80322</b>	22 Fr (7.3 mm)

20 per carton

**EXTRACORPOREAL  
CIRCUIT**

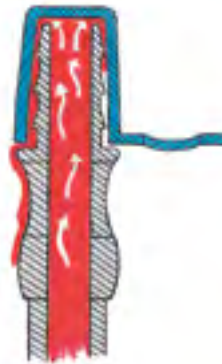
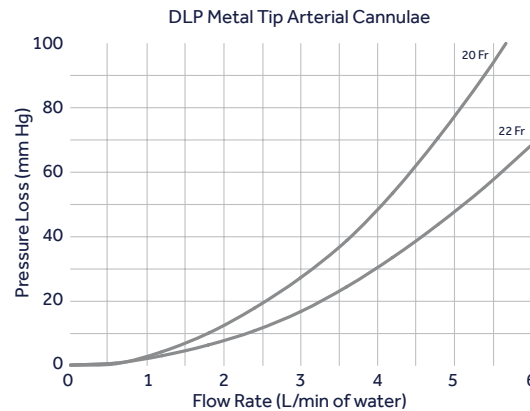
**ARTERIAL CANNULAE**

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### Important Safety Information

Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.





# FEMORAL CANNULAE

The largest cannula  
portfolio worldwide.

Our commitment  
— to you.

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Femoral cannulae provide greater versatility of cannulation techniques to meet the needs of the changing patient population and the desire for smaller thoracic incisions. Designed to be placed in the femoral vein and/or artery, Medtronic femoral cannulae are ideally suited for both percutaneous and direct insertion. The unique flat wirewound, thin-wall construction of the Bio-Medicus™ cannulae maximizes flow rates and cannula flexibility. Our various sizes ensure the availability of a cannula to meet your specific needs.







# FEMORAL CANNULAE

[Bio-Medicus™ NextGen Pediatric Arterial and Venous >](#)

[Bio-Medicus™ NextGen Arterial or Jugular Venous and Kits >](#)

[Bio-Medicus™ Multi-stage Venous with Insertion Kit >](#)

[Bio-Medicus™ NextGen Bi-caval Venous and Kits >](#)

[Bio-Medicus™ NextGen Insertion Kits >](#)

[DLP™ Venous >](#)

[DLP™ Arterial >](#)

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The largest cannula  
portfolio worldwide.

Our commitment  
— to you.

Femoral cannulae provide greater versatility of cannulation techniques to meet the needs of the changing patient population and the desire for smaller thoracic incisions. Designed to be placed in the femoral vein and/or artery, Medtronic femoral cannulae are ideally suited for both percutaneous and direct insertion. The unique flat wirewound, thin-wall construction of the Bio-Medicus™ cannulae maximizes flow rates and cannula flexibility. Our various sizes ensure the availability of a cannula to meet your specific needs.





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**Bio-Medicus™ NextGen Pediatric Arterial and Venous Cannulae**

These pediatric cannulae offer a flexible, kink-resistant, thin-wall design that promotes maximum flow rates. The tip design eases insertion and provides a reinforced non-step transition zone along with smooth side holes. Both venous and arterial models are packaged with a tapered solid core and a percutaneous-style, guidewire-capable (0.025 in [0.635 mm] dia), non-phthalate PVC introducer, allowing for either a traditional or Seldinger insertion. Each cannula includes a repositionable radiopaque suture ring, an improved friction-fit hemostasis cap, and a retention clip that aids in tubing management. These products are manufactured without DEHP.

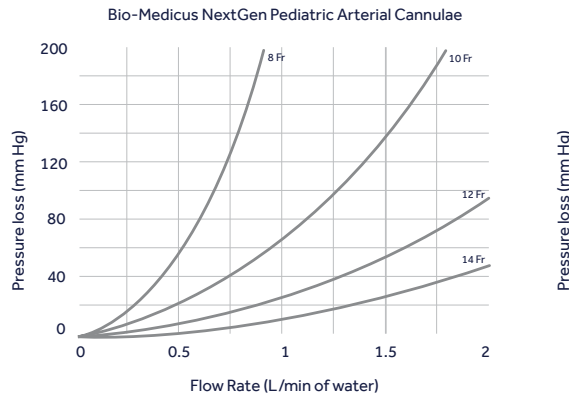


**Arterial**

**Non-vented 1/4 in (0.64 cm) connector**

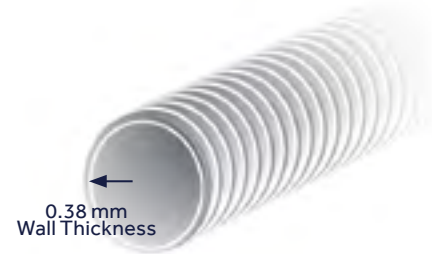
		<b>Overall</b>	<b>Tip</b>
<b>96820-108</b>	8 Fr (2.7 mm)	22.9 cm	10.0 cm
<b>96820-110</b>	10 Fr (3.3 mm)	22.9 cm	10.5 cm
<b>96820-112</b>	12 Fr (4.0 mm)	22.9 cm	11.0 cm
<b>96820-114</b>	14 Fr (4.7 mm)	22.9 cm	11.5 cm

1 per carton



See page 35 for 96552 insertion kit.

**Bio-Medicus Pediatric Cannulae**



**Retention Clip**



**Important Safety Information**

Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.





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**Bio-Medicus™ NextGen Pediatric Arterial and Venous Cannulae**

These pediatric cannulae offer a flexible, kink-resistant, thin-wall design that promotes maximum flow rates. The tip design eases insertion and provides a reinforced non-step transition zone along with smooth side holes. Both venous and arterial models are packaged with a tapered solid core and a percutaneous-style, guidewire-capable (0.025 in [0.635 mm] dia), non-phthalate PVC introducer, allowing for either a traditional or Seldinger insertion. Each cannula includes a repositionable radiopaque suture ring, an improved friction-fit hemostasis cap, and a retention clip that aids in tubing management. These products are manufactured without DEHP.

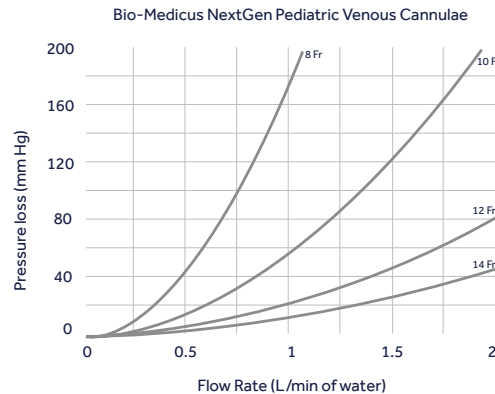


**Venous**

**Non-vented 1/4 in (0.64 cm) connector**

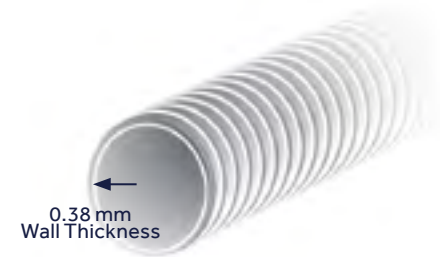
		Overall	Tip
<b>96830-108</b>	8 Fr (2.7 mm)	22.9 cm	10.0 cm
<b>96830-110</b>	10 Fr (3.3 mm)	22.9 cm	10.5 cm
<b>96830-112</b>	12 Fr (4.0 mm)	22.9 cm	11.0 cm
<b>96830-114</b>	14 Fr (4.7 mm)	22.9 cm	11.5 cm

1 per carton



See page 35 for 96552 insertion kit.

**Bio-Medicus Pediatric Cannulae**



**Retention Clip**



**Important Safety Information**

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## Bio-Medicus™ NextGen Femoral Arterial or Jugular Venous Cannulae and Kits

These adult cannulae offer a flexible, kink-resistant, thin-wall design that promotes maximum flow rates. The tip design eases insertion with a reinforced non-step transition zone, and smooth side holes. A silicone friction-fit cap and non-phthalate PVC introducer provide improved function as well. The percutaneous-style introducer, a repositionable radiopaque suture ring, and a 3/8 inch connection site are standard on all models.



**12.5 in (31.8 cm) overall length**  
7.09 in (18.0 cm) tip

**Vented 3/8 in (0.95 cm) connector**

Cannula	Cannula Kit	French Size
96570-115	96530-115	15 Fr (5.0 mm)
96570-117	96530-117	17 Fr (5.7 mm)
96570-119	96530-119	19 Fr (6.3 mm)
96570-121	96530-121	21 Fr (7.0 mm)
96570-123	96530-123	23 Fr (7.7 mm)
96570-125	96530-125	25 Fr (8.3 mm)

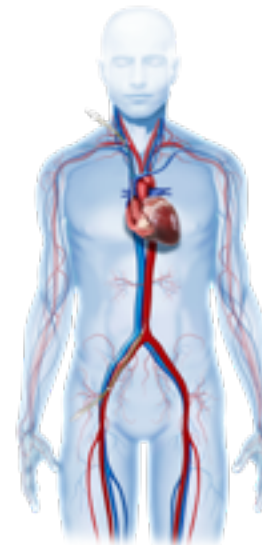
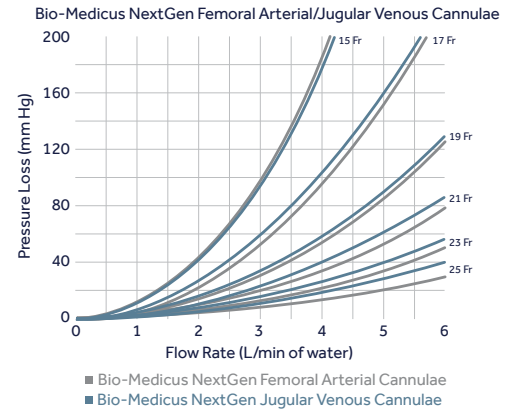
**1 per carton**

*Order your cannulae as single stand-alone units or with a kit included. For cannula singles, an insertion kit should be ordered.*

**VIEW CANNULA KIT CONTENTS**



*See page 35 for 96552 insertion kit.*



### Important Safety Information

Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.



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## Bio-Medicus™ NextGen Femoral Arterial or Jugular Venous Cannulae and Kits

These adult cannulae offer a flexible, kink-resistant, thin-wall design that promotes maximum flow rates. The tip design eases insertion with a reinforced non-step transition zone, and smooth side holes. A silicone friction-fit cap and non-phthalate PVC introducer provide improved function as well. The percutaneous-style introducer, a repositionable radiopaque suture ring, and a 3/8 inch connection site are standard on all models.

**12.5 in (31.8 cm) overall length**  
7.09 in (18.0 cm) tip

Bio-Medicus NextGen Femoral Arterial/Jugular Venous Cannulae  
200



### Cannula kit contents

**1 each:**

- Arterial/jugular cannula with introducer, hemostasis cap, adjustable radiopaque suture ring
- 0.038 in (0.97 mm) diameter; 100 cm (39.37 in) length guidewire
- Stepped vessel dilator, 8 Fr/10 Fr, 12 Fr/14 Fr, 16 Fr/18 Fr plus (1) additional white dilator (included only with 21 Fr, 23 Fr, 25 Fr models)
- #11 scalpel blade, Seldinger needle, 18 ga (1.02 mm)
- Cannula/tubing retention clip



See page 32 for 96552 insertion kit.

### Important Safety Information

Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.

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## Bio-Medicus™ Multi-stage Femoral Venous Cannulae with Insertion Kit

These adult cannulae feature one-piece, kink-resistant, wirewound bodies with multiple side ports, an introducer with depth markings, and a tip taper location indicator. Insertion kit components are listed below.

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**30 in (76.2 cm) overall length**

23.6 in (60 cm) tip

**Non-vented 3/8 in (0.95 cm) connector**

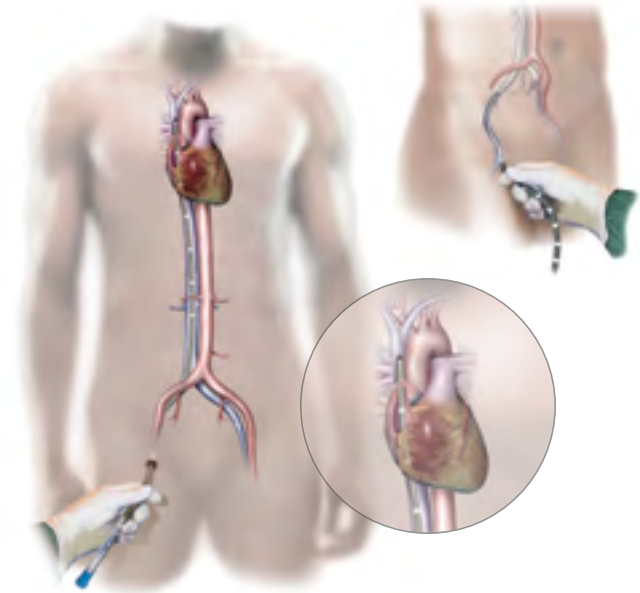
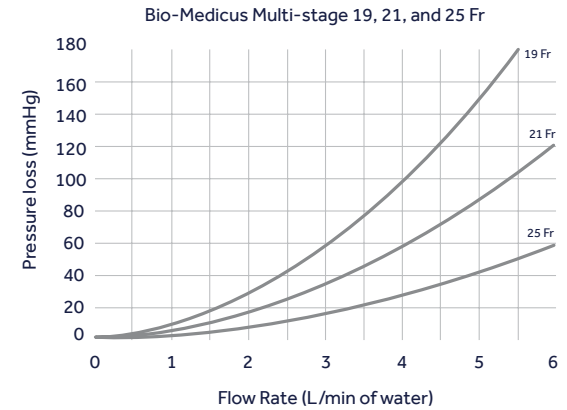
**96880-019** 19 Fr (6.3 mm)

**96880-021** 21 Fr (7.0 mm)

**96880-025** 25 Fr (8.3 mm)

1 per carton

**VIEW CANNULA  
KIT CONTENTS**



#### Important Safety Information

Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.



## Bio-Medicus™ Multi-stage Femoral Venous Cannulae with Insertion Kit

These adult cannulae feature one-piece, kink-resistant, wirewound bodies with multiple side ports, an introducer with depth markings, and a tip taper location indicator. Insertion kit components are listed below.

**30 in (76.2 cm) overall length**

23.6 in (60 cm) tip

**Non-vented 3/8 in (0.95 cm) connector**

Bio-Medicus Multi-stage 19, 21, and 25 Fr



### Cannula kit contents

#### 1 each:

- Multi-stage venous cannula with introducer and hemostasis cap
- 0.038 in (0.097 cm) diameter; 180 cm (70.87 in) length guidewire
- Stepped vessel dilator, 8 Fr/10 Fr, 12 Fr/14 Fr plus (1) additional dilator in size of cannula ordered
- #11 scalpel blade, Seldinger needle, 18 ga (1.02 mm)



### Important Safety Information

Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.

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## Bio-Medicus™ NextGen Femoral Bi-caval Venous Cannulae and Kits

These adult cannulae feature a flexible, kink-resistant, thin-wall design that promotes maximum flow rates. The design offers an elongated tapered introducer, a reinforced non-step cannula tip transition zone, and smooth side holes. All of these enhancements add up to an easier insertion. Side holes positioned in the SVC and IVC near hepatic veins allow bi-caval drainage and optional isolation of the right atrium. A silicone friction fit cap and non-phthalate PVC introducer provide improved function as well. Each model is standard with a percutaneous-style introducer, a repositionable radiopaque suture ring, and a 3/8 inch connection site.



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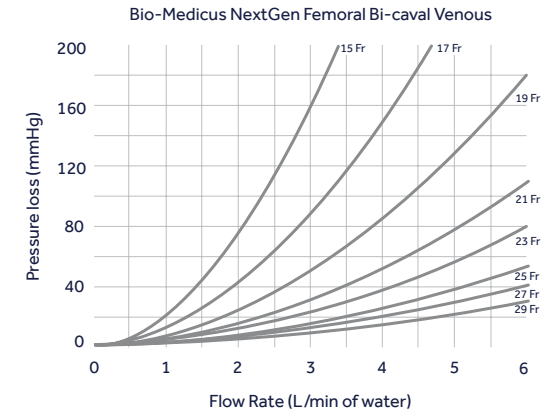
#### Non-vented 3/8 in (0.95 cm) connector

Cannula Singles	Cannula Kit	French Size	Overall Length	Tip Length
96670-115	96600-115	15 Fr (5.0 mm)	64.8 cm	48.9 cm
96670-117	96600-117	17 Fr (5.7 mm)	64.8 cm	48.9 cm
96670-119	96600-119	19 Fr (6.3 mm)	69.9 cm	54.0 cm
96670-121	96600-121	21 Fr (7.0 mm)	69.9 cm	54.0 cm
96670-123†	96600-123†	23 Fr (7.7 mm)	76.2 cm	60.0 cm
96670-125†	96600-125†	25 Fr (8.3 mm)	76.2 cm	60.0 cm
96670-127†	96600-127†	27 Fr (9.0 mm)	76.2 cm	60.0 cm
96670-129†	96600-129†	29 Fr (9.7 mm)	76.2 cm	60.0 cm

#### 1 per carton

Order your cannulae as single stand-alone units or with a kit included. For cannula singles, an insertion kit should be ordered.

†1/2 in (1.27 cm) to 3/8 in (0.95 cm) tubing adapter included.



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KIT CONTENTS](#)



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#### Important Safety Information

Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.







## Bio-Medicus™ NextGen Femoral Bi-caval Venous Cannulae and Kits

These adult cannulae feature a flexible, kink-resistant, thin-wall design that promotes maximum flow rates. The design offers an elongated tapered introducer, a reinforced non-step cannula tip transition zone, and smooth side holes. All of these enhancements add up to an easier insertion. Side holes positioned in the SVC and IVC near hepatic veins allow bi-caval drainage and optional isolation of the right atrium. A silicone friction fit cap and non-phthalate PVC introducer provide improved function as well. Each model is standard with a percutaneous-style introducer, a repositionable radiopaque suture ring, and a 3/8 inch connection site.

### EXTRACORPOREAL CIRCUIT

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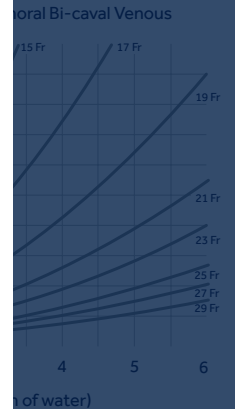
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#### Cannula kit contents

##### 1 each:

- Bi-caval venous cannula with introducer, hemostasis cap, adjustable radiopaque suture ring
- 0.038 in (0.97 mm) diameter; 180 cm (70.87 in) length guidewire
- Stepped vessel dilator, 8 Fr/10 Fr, 12 Fr/14 Fr, 16 Fr/18 Fr plus (1) additional white dilator (included only with 21 Fr, 23 Fr, 25 Fr, 27 Fr, 29 Fr models)
- #11 scalpel blade, Seldinger needle, 18 ga (1.02 mm)
- Cannula/tubing retention clip



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#### Important Safety Information

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## Bio-Medicus™ NextGen Femoral Bi-caval Venous Cannulae and Kits

These adult cannulae feature a flexible, kink-resistant, thin-wall design that promotes maximum flow rates. The design offers an elongated tapered introducer, a reinforced non-step cannula tip transition zone, and smooth side holes. All of these enhancements add up to an easier insertion. Side holes positioned in the SVC and IVC near hepatic veins allow bi-caval drainage and optional isolation of the right atrium. A silicone friction fit cap and non-phthalate PVC introducer provide improved function as well. Each model is standard with a percutaneous-style introducer, a repositionable radiopaque suture ring, and a 3/8 inch connection site.

### EXTRACORPOREAL CIRCUIT

ARTERIAL CANNULAE  
**FEMORAL CANNULAE**  
VENOUS CANNULAE

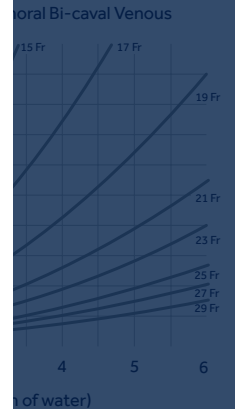
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#### Bi-caval capability with optimized basket placement

Designed to enable right  
atrium occlusion and access.



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#### Important Safety Information

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## Bio-Medicus™ NextGen Insertion Kits

These adult and pediatric insertion kits provide components for peripheral cannulation via Seldinger technique. Designed for percutaneous or direct visualization insertion, these kits provide the following insertion components as listed below.



### Venous

96551

- 0.038 in (0.965 mm) diameter; 180 cm (70.87 in) guidewire
- #11 scalpel blade
- 10 cc syringe
- Stepped vessel dilator, 8 Fr/10 Fr, 12 Fr/14 Fr, and 16 Fr/18 Fr
- Seldinger needle, 18 ga (1.02 mm)

5 kits per carton



### Arterial/Jugular

96552

- 0.038 in (0.965 mm) diameter; 100 cm (39.37 in) guidewire
- #11 scalpel blade
- 10 cc syringe
- Stepped vessel dilator, 8 Fr/10 Fr, 12 Fr/14 Fr, and 16 Fr/18 Fr
- Seldinger needle, 18 ga (1.02 mm)

5 kits per carton



### Pediatric Arterial/Venous

96553

- 0.025 in (0.635 mm) diameter; 60 cm (23.62 in) guidewire
- #11 scalpel blade
- 10 cc syringe
- Stepped vessel dilator, 8 Fr/10 Fr, and 12 Fr/14 Fr
- Seldinger needle, 18 ga (1.02 mm)

5 kits per carton

#### Important Safety Information

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## DLP™ Femoral Venous Cannulae

These cannulae feature multiple side holes, depth markings, and a tapered tip introducer.

### 21 in (53.3 cm) insertion length

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

58521	21 Fr (7.0 mm)
-------	----------------

4 per carton

### 25.5 in (64.8 cm) insertion length

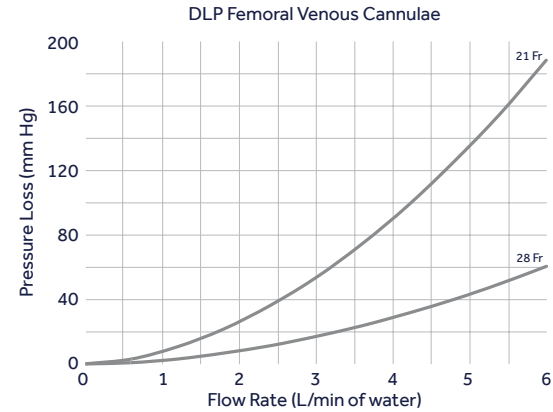
Connection site 3/8 in (0.95 cm) and  
0.038 in (0.1 cm) x 150 cm (70.87 in)  
guidewire

96328	28 Fr (9.3 mm)
-------	----------------

Non-vented 3/8 in (0.95 cm)  
connector and 0.038 in (0.1 cm) x 150  
cm (70.87 in) guidewire

96428	28 Fr (9.3 mm)
-------	----------------

4 per carton



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### Important Safety Information

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## DLP™ Femoral Arterial Cannulae

These cannulae feature multiple side holes, depth markings, and a tapered tip introducer for placement over a 0.038 in (0.1 cm) guidewire (not included).

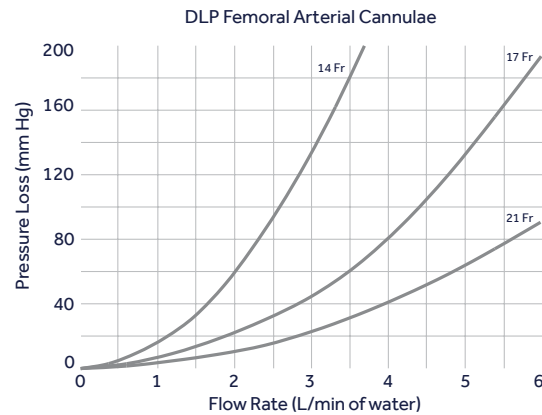


7 in (17.8 cm) insertion length

Vented 3/8 in (0.95 cm) connector

57414	14 Fr (4.7 mm)
57417	17 Fr (5.7 mm)
57421	21 Fr (7.0 mm)

4 per carton



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# VENOUS CANNULAE

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Venous cannulae are designed to provide optimal venous drainage while providing flexibility and ease of use. We offer a variety of single stage venous cannulae with kink-resistant, wirewound bodies in sizes from 12 Fr to 40 Fr. These cannulae are offered in both straight and right angle with multiport tips and the option for a thin-wall metal tip design. Our product breadth ensures the availability of a cannula to meet your specific needs.





# VENOUS CANNULAE

[DLP™ Single Stage with Right Angle Metal Tip >](#)

[DLP™ Single Stage >](#)

[DLP™ Right Angle Single Stage >](#)

[DLP™ Malleable Single Stage >](#)

[VC2™ Atrial Caval >](#)

[MC2™ Two Stage >](#)

[MC2X™ Three Stage >](#)

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Venous cannulae are designed to provide optimal venous drainage while providing flexibility and ease of use. We offer a variety of single stage venous cannulae with kink-resistant, wirewound bodies in sizes from 12 Fr to 40 Fr. These cannulae are offered in both straight and right angle with multiport tips and the option for a thin-wall metal tip design. Our product breadth ensures the availability of a cannula to meet your specific needs.





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

These pediatric and adult cannulae feature beveled metal, multiport tips, and kink-resistant wirewound bodies with a tip orientation line. This construction allows for high flow rates with minimal pressure differential.



**14 in (35.6 cm) overall length**

**Connection site 1/4 in (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)
-------	----------------

**14 in (35.6 cm) overall length**

**Extended tip**

**Connection site 3/8 in (0.95 cm)**

69428	28 Fr (9.3 mm)
-------	----------------

69431	31 Fr (10.3 mm)
-------	-----------------

*10 per carton*

**Connection site 3/8 in (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)
-------	----------------

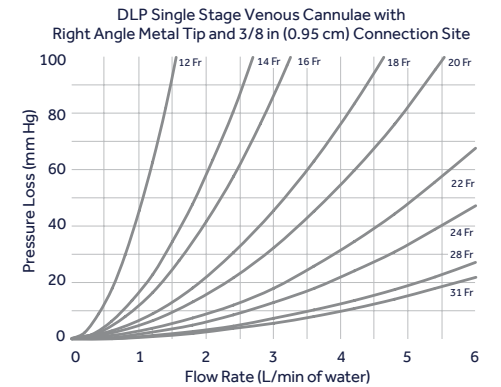
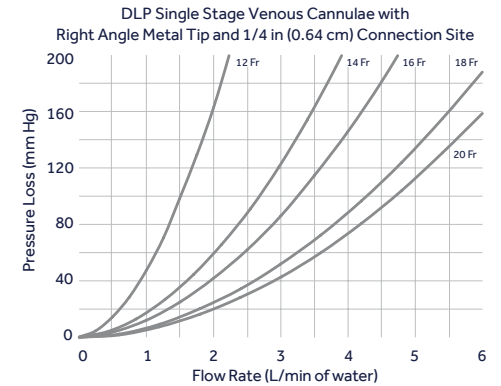
69328	28 Fr (9.3 mm)
-------	----------------

69331	31 Fr (10.3 mm)
-------	-----------------

*10 per carton*

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## DLP™ Single Stage Venous Cannulae

These pediatric and adult cannulae feature tapered, multiport tips and one-piece, kink-resistant wirewound bodies with depth markings.



12–16 in (30.5–40.6 cm) overall length

### Connection site 1/4 in (0.64 cm)

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

### Connection site 1/4 in–3/8 in (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)

### Connection site 3/8 in (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)

### Connection site 1/2 in (1.27 cm)

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

10 per carton

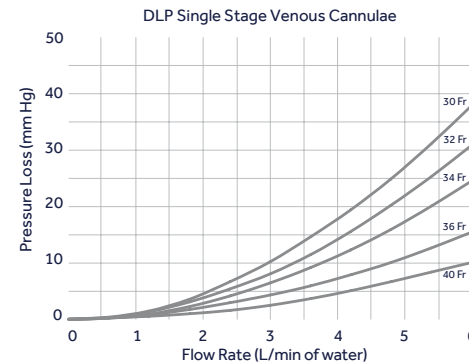
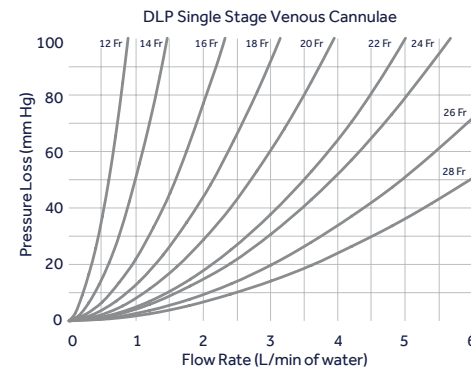
## EXTRACORPOREAL CIRCUIT

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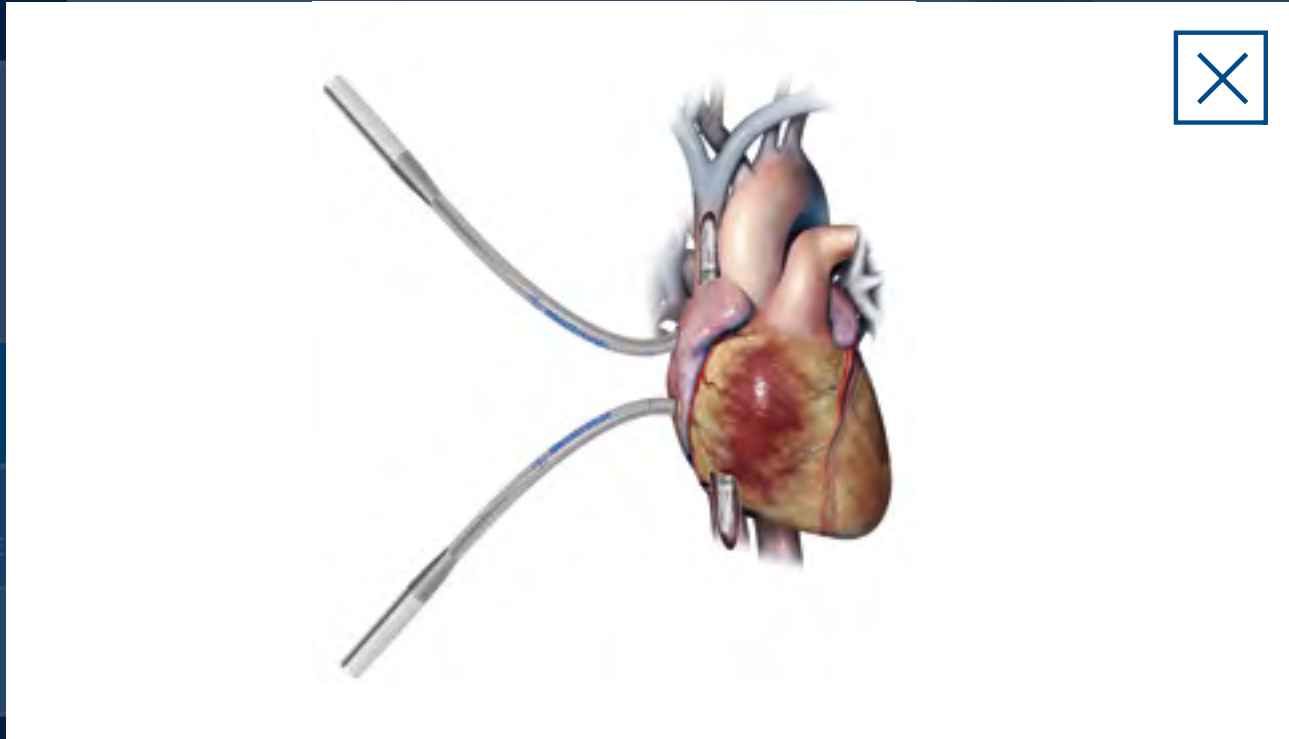
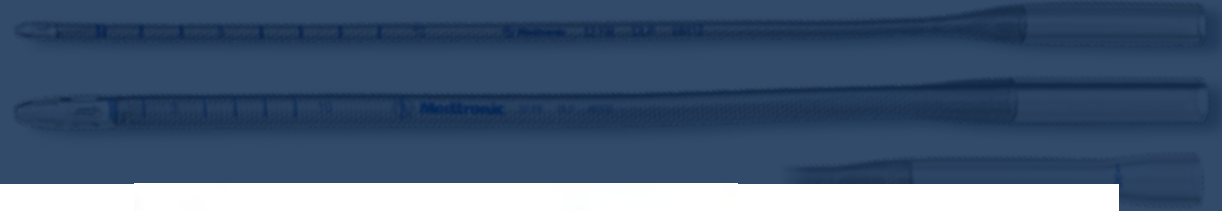
Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.





## DLP™ Single Stage Venous Cannulae

These pediatric and adult cannulae feature tapered, multiport tips and one-piece, kink-resistant wirewound bodies with depth markings.



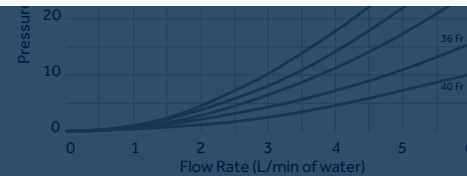
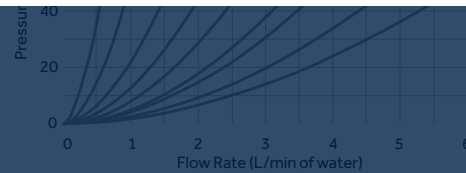
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## DLP™ Right Angle Single Stage Venous Cannulae

These pediatric and adult cannulae feature tapered, multiport tips and one-piece, kink-resistant wirewound bodies with depth markings.



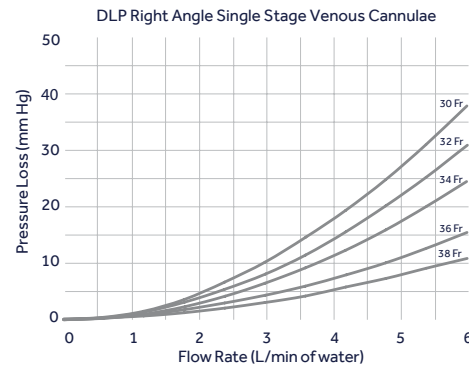
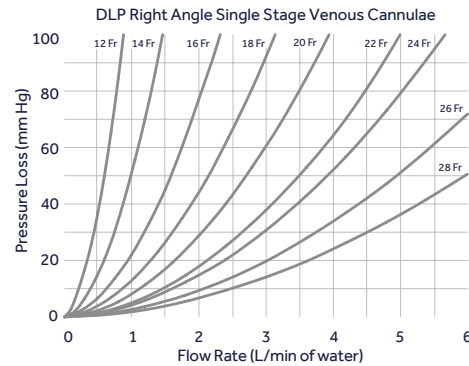
### EXTRACORPOREAL CIRCUIT

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### 12–15 in (30.5–38.1 cm) overall length

#### Connection site 1/4 in (0.64 cm)

67512	12 Fr (4.0 mm)
67514	14 Fr (4.7 mm)
67516	16 Fr (5.3 mm)

#### Connection site 1/4 in–3/8 in (0.64–0.95 cm)

67518	18 Fr (6.0 mm)
67520	20 Fr (6.7 mm)
67522	22 Fr (7.3 mm)
67524	24 Fr (8.0 mm)

#### Connection site 3/8 in (0.95 cm)

67526	26 Fr (8.7 mm)
67528	28 Fr (9.3 mm)
67530	30 Fr (10.0 mm)
67532	32 Fr (10.7 mm)
67534	34 Fr (11.3 mm)
67636	36 Fr (12.0 mm)
67638	38 Fr (12.7 mm)

10 per carton

#### Important Safety Information

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## DLP™ Malleable Single Stage Venous Cannulae

These pediatric and adult cannulae feature multiport tips and malleable, one-piece, kink-resistant wirewound bodies with depth markings. This construction allows the surgeon to shape the cannulae. An integrated malleable wire outside the wirewinding optimizes the inner diameter (I.D.) for maximum flow performance.



### 12–15 in (30.5–38.1 cm) overall length

#### Connection site 1/4 in (0.64 cm)

**68112** 12 Fr (4.0 mm)

**68114** 14 Fr (4.7 mm)

**68116** 16 Fr (5.3 mm)

#### Connection site 1/4 in–3/8 in (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)

#### Connection site 3/8 in (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)

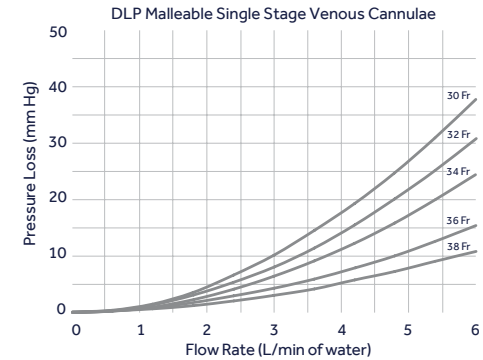
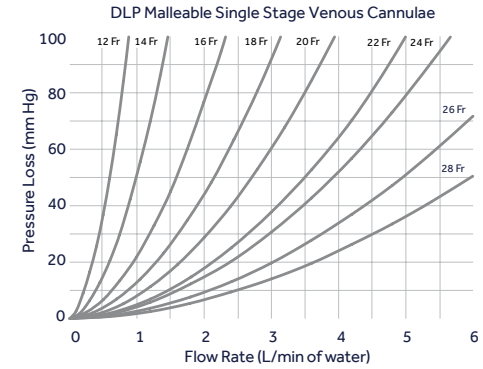
**68134** 34 Fr (11.3 mm)

#### Connection site 1/2 in (1.27 cm)

**68136** 36 Fr (12.0 mm)

**68138** 38 Fr (12.7 mm)

10 per carton



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### Important Safety Information

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## DLP™ Malleable Single Stage Venous Cannulae

These pediatric and adult cannulae feature multiport tips and malleable, one-piece, kink-resistant wirewound bodies with depth markings. This construction allows the surgeon to shape the cannulae. An integrated malleable wire outside the wirewinding optimizes the inner diameter (I.D.) for maximum flow performance.

12–15 in (30.5–38.1 cm) overall length

Connection site 1/4 in (0.64 cm)

68112 12 Fr (4.0 mm)

DLP Malleable Single Stage Venous Cannulae  
100 12 Fr 14 Fr 16 Fr 18 Fr 20 Fr 22 Fr 24 Fr

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68138 38 Fr (12.7 mm)

10 per carton

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12–15 in (30.5–38.1 cm) overall length

Connection site 1/4 in (0.64 cm)

68112 12 Fr (4.0 mm)

DLP Malleable Single Stage Venous Cannulae  
100 12 Fr 14 Fr 16 Fr 18 Fr 20 Fr 22 Fr 24 Fr

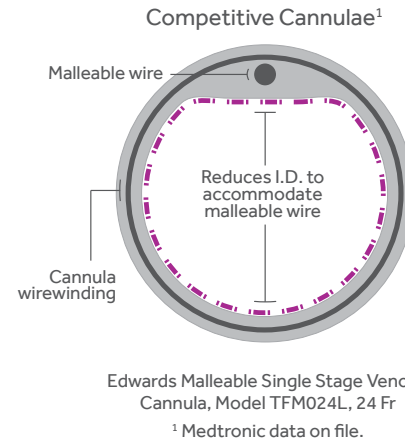
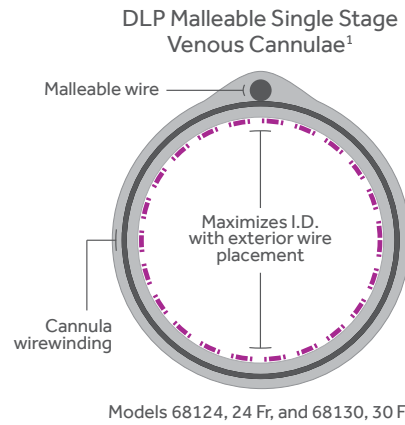
### EXTRACORPOREAL CIRCUIT

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68138 38 Fr (12.7 mm)

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12–15 in (30.5–38.1 cm) overall length

Connection site 1/4 in (0.64 cm)

68112 12 Fr (4.0 mm)

DLP Malleable Single Stage Venous Cannulae  
100 12 Fr 14 Fr 16 Fr 18 Fr 20 Fr 22 Fr 24 Fr

### EXTRACORPOREAL CIRCUIT

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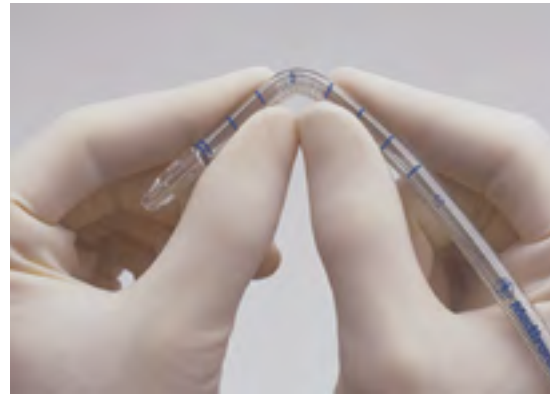
### CARDIOPLEGIA CIRCUIT

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The malleable single stage venous cannulae allow the surgeon to manipulate the cannula shape into virtually any position.



68138 38 Fr (12.7 mm)

10 per carton

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#### Important Safety Information

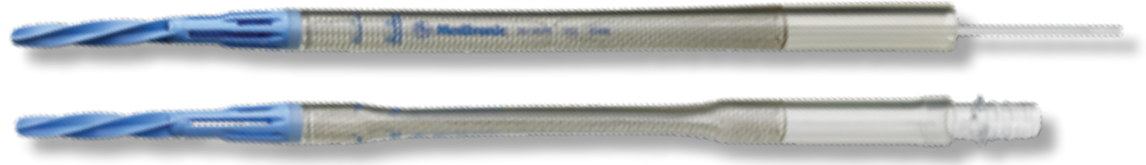
Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.





## VC2™ Atrial Caval Venous Cannulae

These cannulae offer swirl tips with slotted atrial baskets and kink-resistant, wirewound bodies that feature depth markings. The oval body presents a lower profile in the surgical field.



### 15 in (38.1 cm) overall length

Wirewound body  
Connection site 3/8 in (0.95 cm)

93438	34/38 Fr (11.3/12.7 mm)
-------	-------------------------

Wirewound body  
Connection site 1/2 in (1.27 cm)

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

Wirewound body, non-vented  
1/2 in (1.27 cm) connector

93438C	34/38 Fr (11.3/12.7 mm)
--------	-------------------------

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

Oval wirewound body  
Connection site 3/8 in (0.95 cm)

93463	34/38 Fr (11.3/12.7 mm)
-------	-------------------------

Oval wirewound body  
Connection site 1/2 in (1.27 cm)

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

Oval wirewound body, non-vented  
1/2 in (1.27 cm) connector

93463C	34/38 Fr (11.3/12.7 mm)
--------	-------------------------

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

10 per carton

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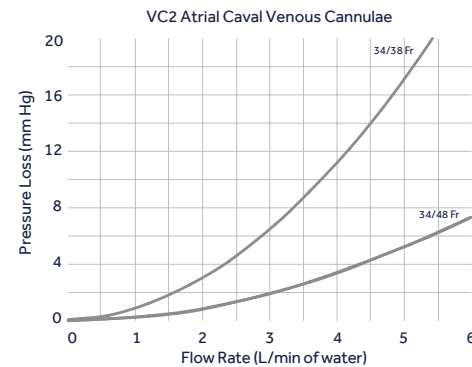
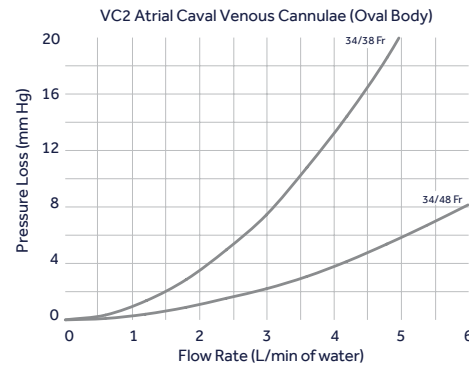
## EXTRACORPOREAL CIRCUIT

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### Important Safety Information

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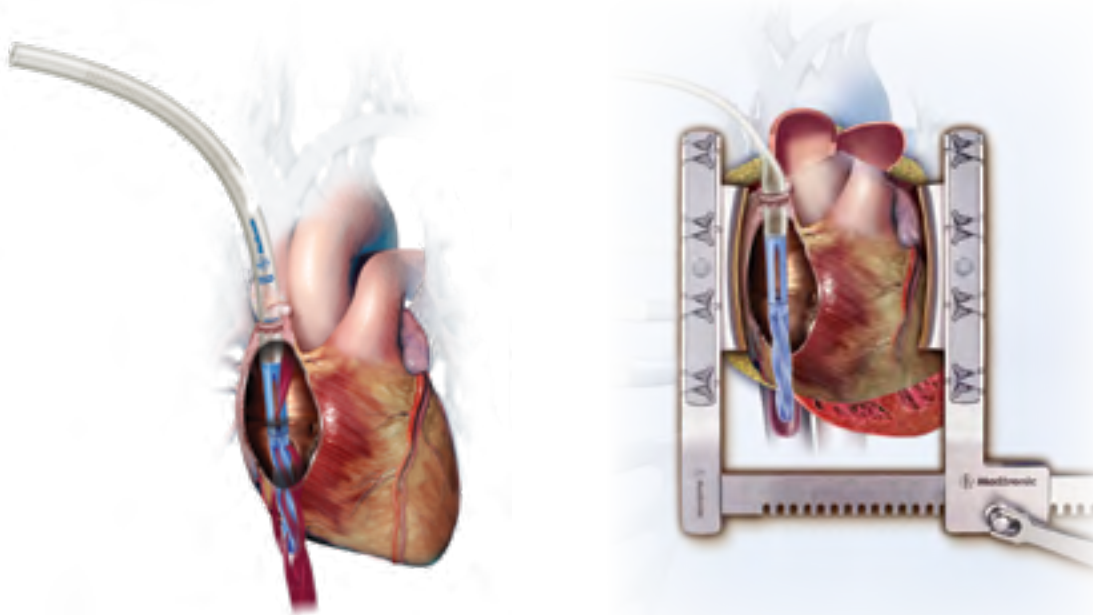
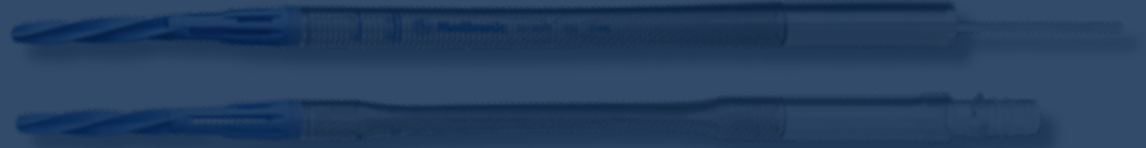






## VC2™ Atrial Caval Venous Cannulae

These cannulae offer swirl tips with slotted atrial baskets and kink-resistant, wirewound bodies that feature depth markings. The oval body presents a lower profile in the surgical field.



IMAGES



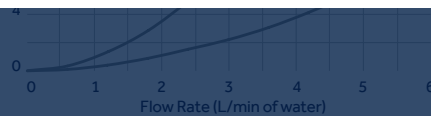
EXTRACORPOREAL  
CIRCUIT

ARTERIAL CANNULAE  
FEMORAL CANNULAE  
VENOUS CANNULAE

CARDIOPLEGIA  
CIRCUIT

SUCTION CIRCUIT AND  
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Oval wirewound body, non-vented  
1/2 in (1.27 cm) connector

93463C 34/38 Fr (11.3/12.7 mm)

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

10 per carton

### Important Safety Information

Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.





## MC2™ Two Stage Venous Cannulae

These cannulae feature multiport tips with atrial baskets and kink-resistant, wirewound bodies with depth markings. The oval body presents a lower profile in the surgical field.



### 15 in (38.1 cm) overall length

#### Connection site 3/8 in (0.95 cm)

91228	28/36 Fr (9.3/12.0 mm)
-------	---------------------------

#### Connection site 1/2 in (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 in (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)
--------	----------------------------

10 per carton

## EXTRACORPOREAL CIRCUIT

ARTERIAL CANNULAE  
FEMORAL CANNULAE  
VENOUS CANNULAE

## CARDIOPLEGIA CIRCUIT

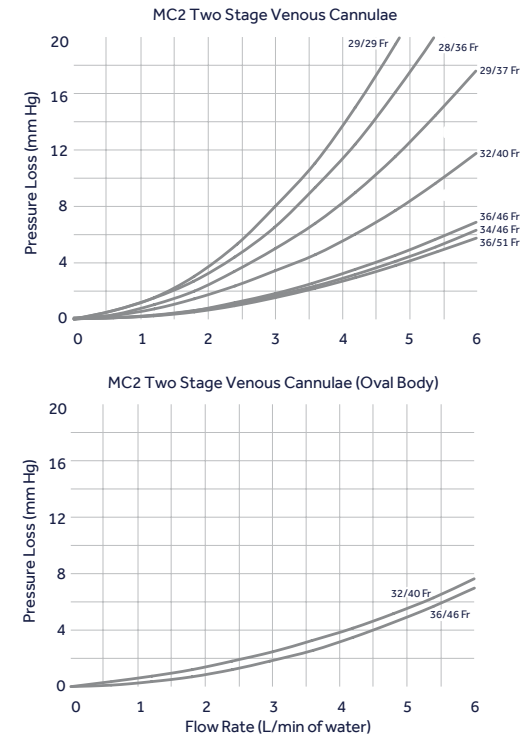
## SUCTION CIRCUIT AND SURGICAL ACCESSORIES

## APPENDIX

Continued on next page >

### Important Safety Information

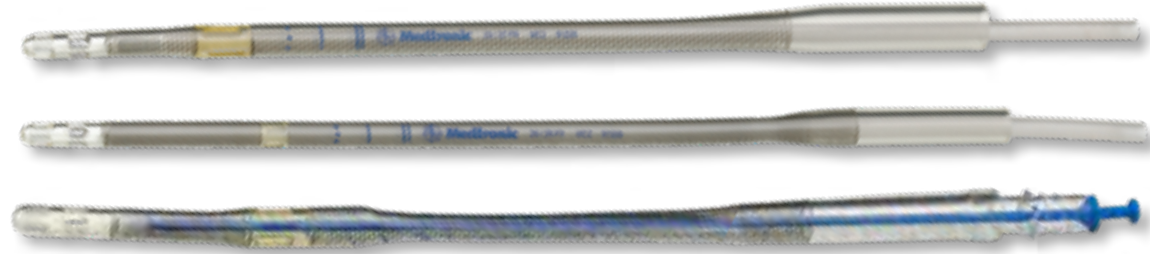
Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.





## MC2™ Two Stage Venous Cannulae, cont'd.

These cannulae feature multiport tips with atrial baskets and kink-resistant, wirewound bodies with depth markings. The oval body presents a lower profile in the surgical field.



### 15 in (38.1 cm) overall length

#### Reduced stage body

Connection site 1/2 in (1.27 cm)

<b>91229</b>	29/37 Fr (9.7/12.3 mm)
--------------	---------------------------

#### Non-vented

1/2 in (1.27 cm) connector

<b>91229C</b>	29/37 Fr (9.7/12.3 mm)
---------------	---------------------------

#### Thin-wall body

Connection site 3/8 in (0.95 cm)

<b>91329</b>	29/29 Fr (9.7/9.7 mm)
--------------	--------------------------

#### Non-vented

3/8 in (0.95 cm) connector

<b>91329C</b>	29/29 Fr (9.7/9.7 mm)
---------------	--------------------------

#### Oval body

Connection site 1/2 in (1.27 cm)

<b>91263</b>	32/40 Fr (10.7/13.3 mm)
--------------	----------------------------

<b>91265</b>	36/46 Fr (12.0/15.3 mm)
--------------	----------------------------

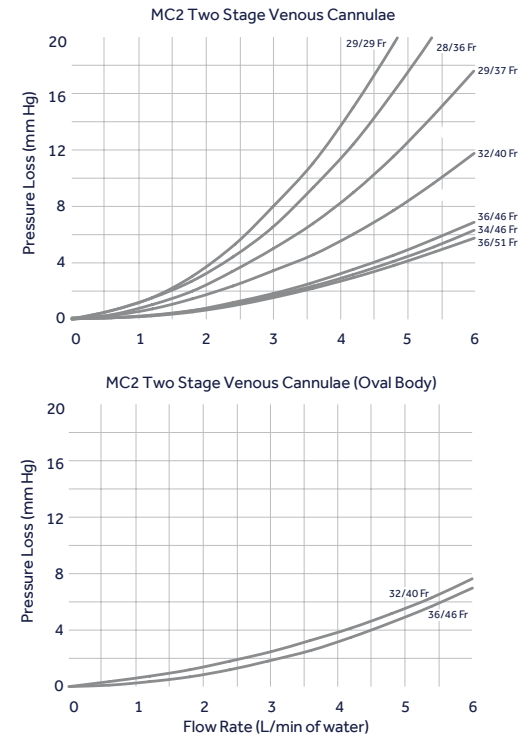
#### Oval body

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

<b>91263C</b>	32/40 Fr (10.7/13.3 mm)
---------------	----------------------------

<b>91265C</b>	36/46 Fr (12.0/15.3 mm)
---------------	----------------------------

10 per carton



#### Important Safety Information

Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.



## EXTRACORPOREAL CIRCUIT

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## MC2X™ Three Stage Venous Cannulae

These cannulae feature a thin-wall design that provides minimal pressure differential for use with vacuum or kinetically assisted venous drainage.



### 15 in (38.1 cm) overall length

Connection site 3/8 in (0.95 cm)

91429	29/29/29 Fr (9.7/9.7/9.7 mm)
-------	------------------------------

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

91429C	29/29/29 Fr (9.7/9.7/9.7 mm)
--------	------------------------------

10 per carton

### 15.5 in (39 cm) overall length

Connection site 3/8 in (0.95 cm)

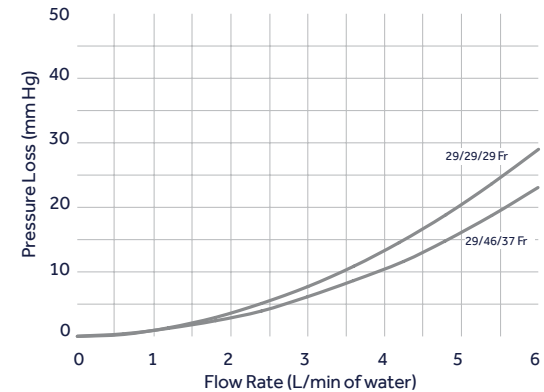
91437	29/46/37 Fr (9.7/15.3/12.3 mm)
-------	--------------------------------

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

91437C	29/46/37 Fr (9.7/15.3/12.3 mm)
--------	--------------------------------

10 per carton

MC2X Three Stage Venous Cannulae



[VIEW IMAGES](#)



#### Important Safety Information

The introduction of air into the right heart may result in the immediate total loss of venous drainage to the extracorporeal circulation. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.

## EXTRACORPOREAL CIRCUIT

ARTERIAL CANNULAE  
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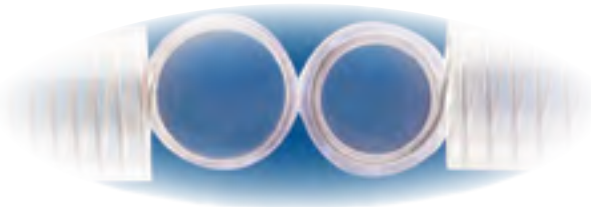


## MC2X™ Three Stage Venous Cannulae

These cannulae feature a thin-wall design that provides minimal pressure differential for use with vacuum or kinetically assisted venous drainage.



### Thinner Wall Design



MC2X  
(29/29/29) Cannula

Competitive  
29 Fr Cannula



MC2X 29/29/29  
Cannula

Competitive 29 Fr  
Cannula

MC2X has a 31% thinner wall for a larger inner diameter when compared to competitive cannula<sup>1</sup>

Larger end hole of the MC2X allows for better flow opportunity<sup>2</sup>

<sup>1,2</sup> Medtronic data on file.

#### Important Safety Information

The introduction of air into the right heart may result in the immediate total loss of venous drainage to the extracorporeal circulation. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.

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9.7 mm)

9.7 mm)

/12.3 mm)

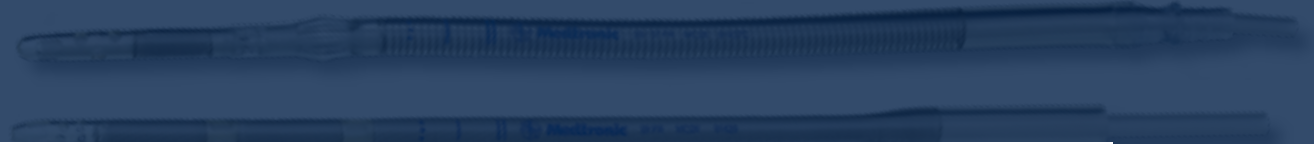
/12.3 mm)





## MC2X™ Three Stage Venous Cannulae

These cannulae feature a thin-wall design that provides minimal pressure differential for use with vacuum or kinetically assisted venous drainage.



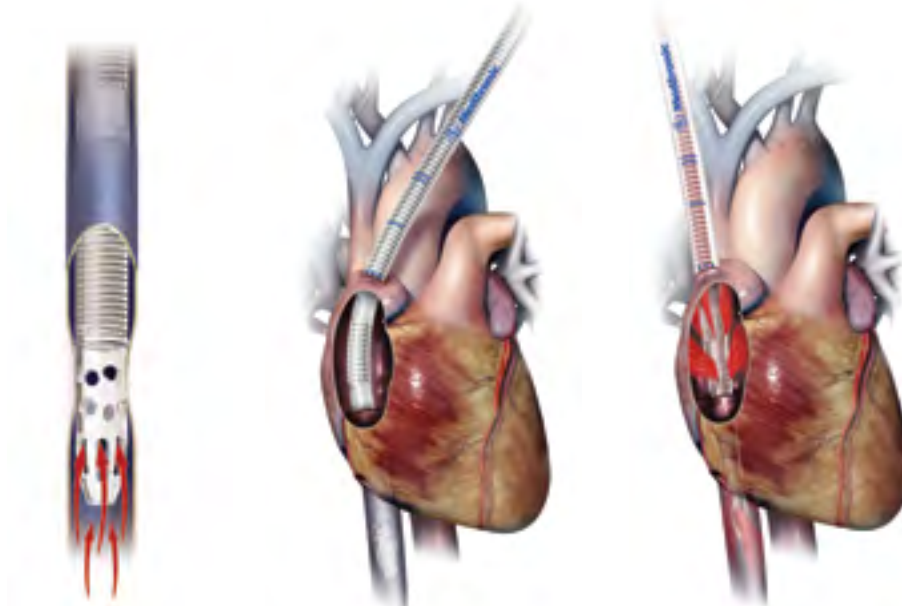
### EXTRACORPOREAL CIRCUIT

ARTERIAL CANNULAE  
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(9.7 mm)

(9.7 mm)

(12.3 mm)

(12.3 mm)

#### Important Safety Information

The introduction of air into the right heart may result in the immediate total loss of venous drainage to the extracorporeal circulation. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.





# CARDIOPLEGIA CIRCUIT

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RETROGRADE  
PERFUSION  
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CARDIOPLEGIA  
ADAPTERS





# ANTEGRADE CANNULAE



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Antegrade cannulae are designed to deliver cardioplegia solution to the heart via the arteries in the normal direction of blood flow (antegrade perfusion). Aortic root cannulae are intended to either aspirate air from the aorta or infuse cardioplegia solution directly into the aortic root near the aortic valve. We offer adult and pediatric aortic root cannulae in varying lengths to accommodate various techniques and patient anatomies. Our product breadth ensures the availability of a cannula to meet your specific needs.







# ANTEGRADE CANNULAE

MiAR™ >

DLP™ Dual Lumen Aortic Root with Vent Line >

DLP™ Aortic Root >

DLP™ Aortic Root with Vent Line >

DLP™ Cardioplegia Needles >

DLP™ Silicone Coronary Artery Ostial >

DLP™ Coronary Artery Ostial >

DLP™ High Flow Coronary Artery Ostial >

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Antegrade cannulae are designed to deliver cardioplegia solution to the heart via the arteries in the normal direction of blood flow (antegrade perfusion). Aortic root cannulae are intended to either aspirate air from the aorta or infuse cardioplegia solution directly into the aortic root near the aortic valve. We offer adult and pediatric aortic root cannulae in varying lengths to accommodate various techniques and patient anatomies. Our product breadth ensures the availability of a cannula to meet your specific needs.





## MiAR™ Cannulae

These Minimally Invasive Aortic Root (MiAR) models feature a 12.25 in (31 cm) cannula body to allow access into the chest for small incision techniques. This length also allows positioning of the luer connection to the cardioplegia line out of the surgeon's way, outside the chest incision. Additionally, these MiAR models include the Flow-Guard™ feature to maintain hemostasis during removal of the needle from the cannula.



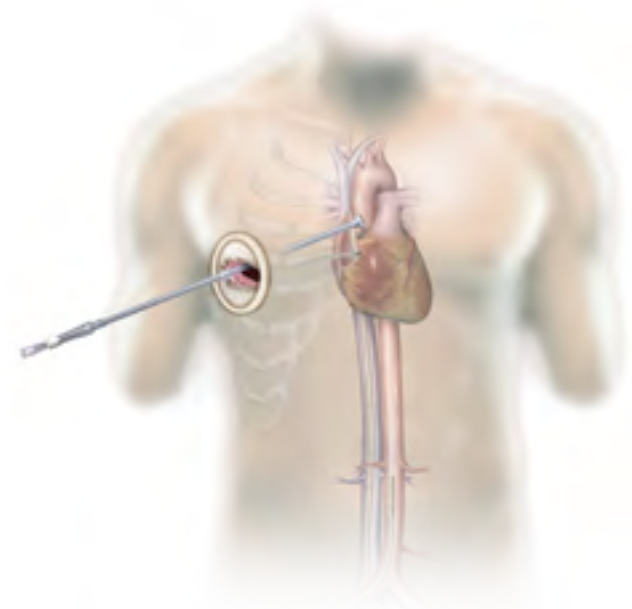
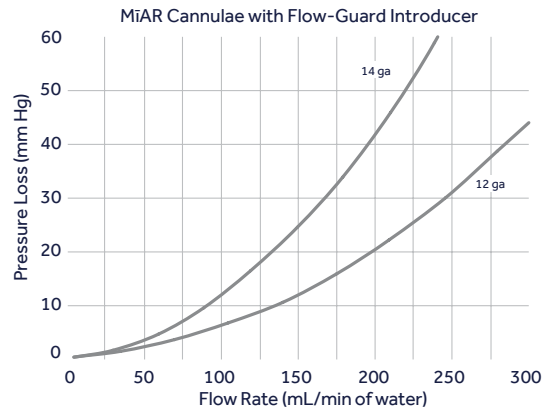
### 12.25 in (31 cm) overall length

Flanged standard tip and Flow-Guard introducer

11012L 12 ga (9 Fr)

11014L 14 ga (7 Fr)

10 per carton



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### Important Safety Information

Care should be taken when inserting the needle to prevent perforation of the back wall of the aorta. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. Additional care and caution may be necessary due to the unique adaptations required for minimally invasive techniques. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.





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

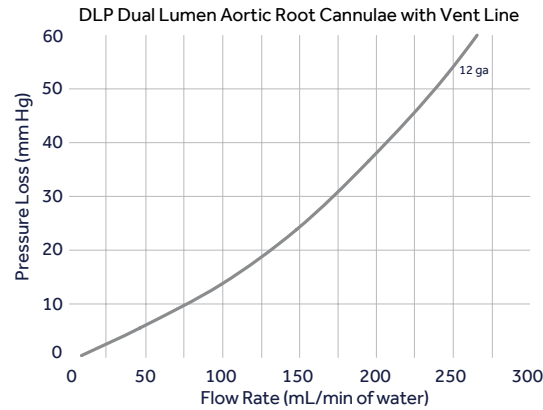
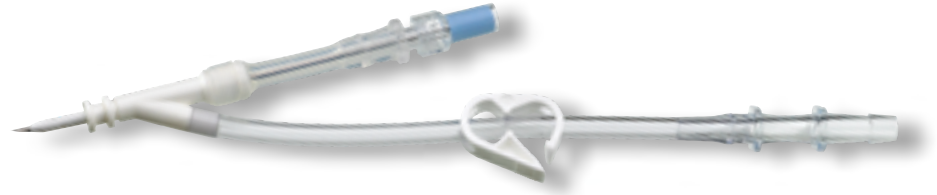
The dual lumen cannula features a tip attached to a clear body with a separate vent line. Additional features include left heart venting and simultaneous cardioplegia delivery and aspiration. Each cannula is supplied with a stainless steel introducer needle.

**3.25 in (8.3 cm) overall length**

**Standard tip**

**30401** | 12 ga (9 Fr)

*10 per carton*



Dual Lumen Aortic Root Application Detail

### Important Safety Information

Care should be taken when inserting the needle to prevent perforation of the back wall of the aorta. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. Additional care and caution may be necessary due to the unique adaptations required for minimally invasive techniques. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.

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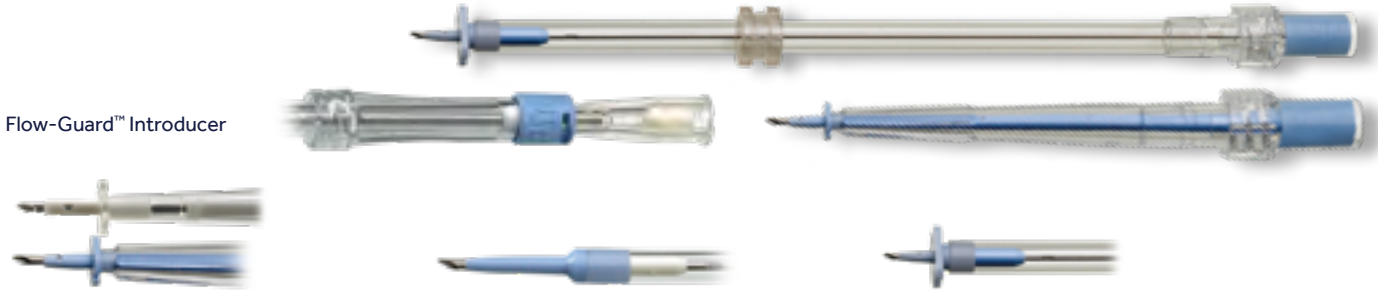




## DLP™ Aortic Root Cannulae

These pediatric and adult cannulae feature radiopaque tips attached to clear PVC bodies. Additional features available with these cannulae include aortic root pressure monitoring and left heart venting. All cannulae are supplied with a stainless steel introducer needle. All DLP Aortic Root Cannulae can be used to aspirate air emboli as well as administer cardioplegia.

Flow-Guard™ Introducer



2.5 in (6.4 cm) overall length

Flanged standard tip and standard introducer

10218	18 ga (4 Fr) white tip and clear flange
12218	18 ga (4 Fr) blue one-piece tip and flange

20 per carton

5.75 in (14.6 cm) overall length

Slotted long tip and standard introducer

10112	12 ga (9 Fr)
10114	14 ga (7 Fr)

20 per carton

5.5 in (14.0 cm) overall length

Flanged 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)

Flanged standard tip and Flow-Guard introducer

11012	12 ga (9 Fr)
11014	14 ga (7 Fr)

20 per carton



5.25 in (13.3 cm) overall length

Flanged pressure monitoring tip and standard introducer

23009	9 ga (11 Fr)
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20 per carton

### Important Safety Information

Care should be taken when inserting the needle to prevent perforation of the back wall of the aorta. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. Additional care and caution may be necessary due to the unique adaptations required for minimally invasive techniques. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.

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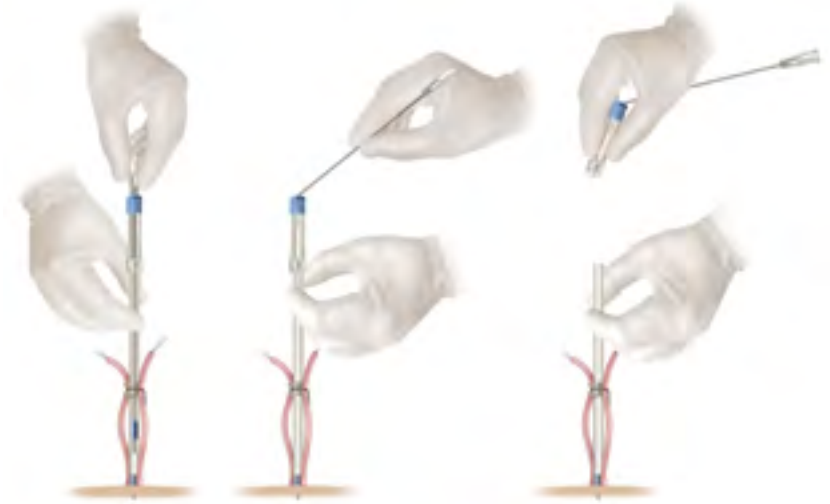
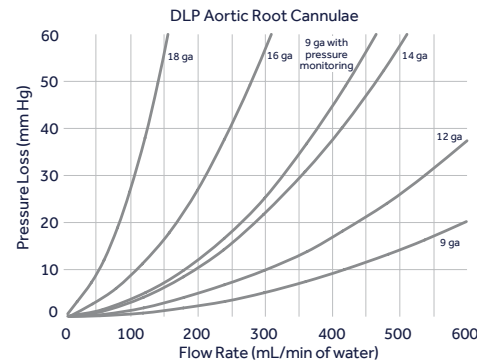
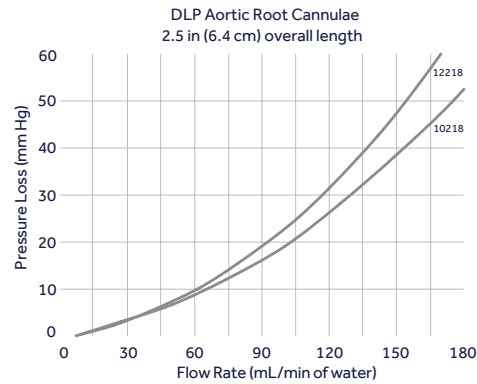
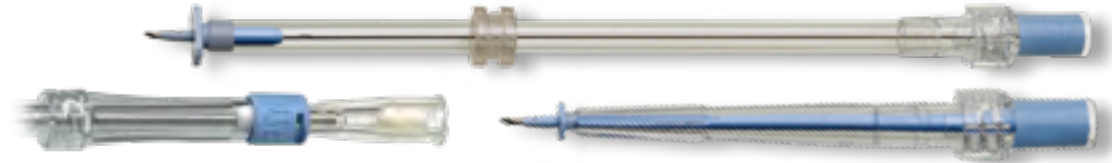
APPENDIX



## DLP™ Aortic Root Cannulae, cont'd.

These pediatric and adult cannulae feature radiopaque tips attached to clear PVC bodies. Additional features available with these cannulae include aortic root pressure monitoring and left heart venting. All cannulae are supplied with a stainless steel introducer needle. All DLP Aortic Root Cannulae can be used to aspirate air emboli as well as administer cardioplegia.

Flow-Guard™ Introducer



Flow-Guard Introducer Application Detail

### Important Safety Information

Care should be taken when inserting the needle to prevent perforation of the back wall of the aorta. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. Additional care and caution may be necessary due to the unique adaptations required for minimally invasive techniques. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.

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## DLP™ Aortic Root Cannulae with Vent Line

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



**5.5 in (14.0 cm) overall length**

**Flanged standard tip and standard introducer**

<b>20009</b>	9 ga (11 Fr)
<b>20012</b>	12 ga (9 Fr)
<b>20012S</b>	12 ga (9 Fr) with two clamps
<b>20014</b>	14 ga (7 Fr)
<b>20014L</b>	14 ga (7 Fr), 8 in (20.3 cm) vent line
<b>20016</b>	16 ga (5 Fr)

**Flanged standard tip and Flow-Guard™ introducer**

<b>21012</b>	12 ga (9 Fr)
<b>21014</b>	14 ga (7 Fr)

*20 per carton*



**5.25 in (13.3 cm) overall length**

**Flanged pressure monitoring tip and standard introducer**

<b>24009</b>	9 ga (11 Fr)
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*20 per carton*



**5.75 in (14.6 cm) overall length**

**Slotted long tip and standard introducer**

<b>20112</b>	12 ga (9 Fr)
<b>20114</b>	14 ga (7 Fr)

*20 per carton*

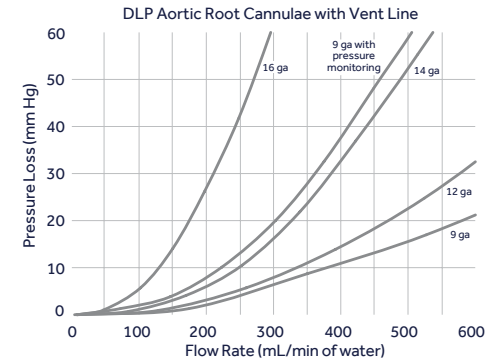


**5.75 in (14.6 cm) overall length**

**Flanged long tip and standard introducer**

<b>20114WF</b>	14 ga (7 Fr)
<b>20114HWF</b>	14 ga (7 Fr) with side holes

*20 per carton*



[VIEW IMAGES](#)



### Important Safety Information

Care should be taken when inserting the needle to prevent perforation of the back wall of the aorta. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. Additional care and caution may be necessary due to the unique adaptations required for minimally invasive techniques. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.

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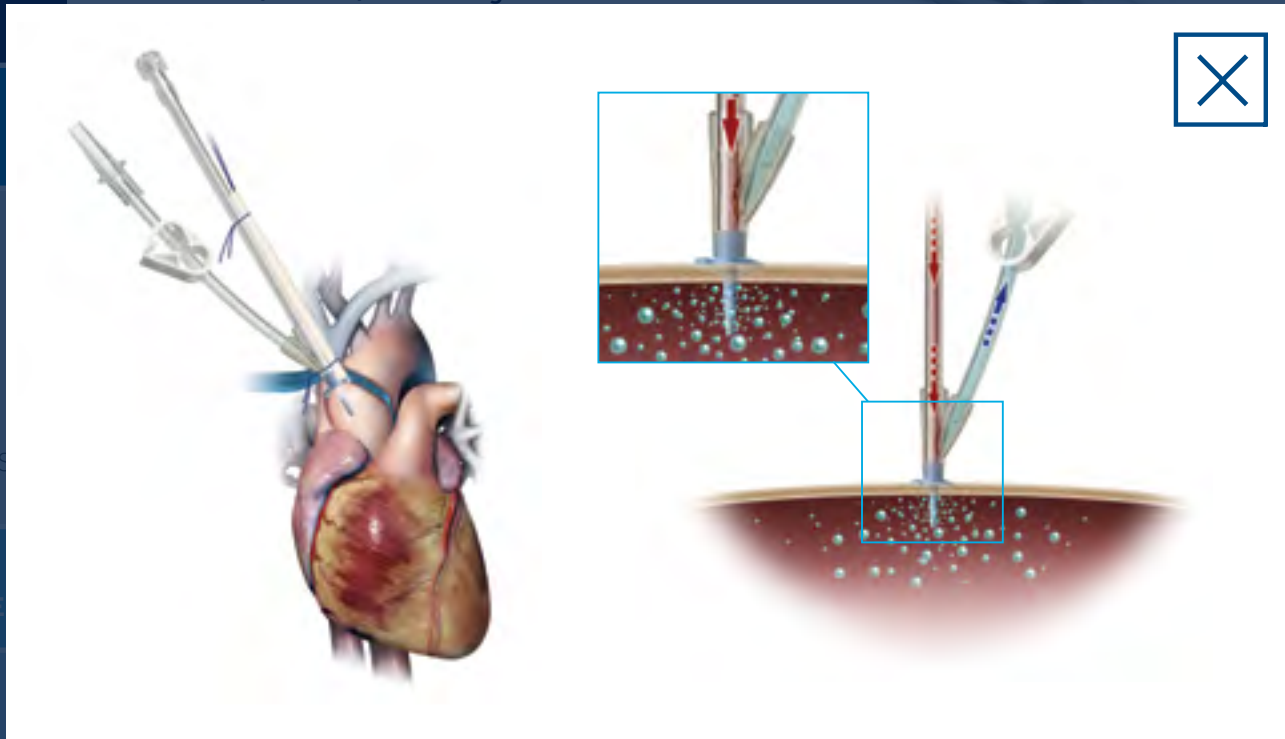


## DLP™ Aortic Root Cannulae with Vent Line

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



5.5 in (14.0 cm) overall length



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Flanged pressure monitoring tip  
and standard introducer

24009 9 ga (11 Fr)

20 per carton

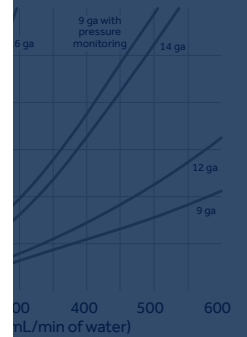
20114HWF 14 ga (7 Fr)  
with side holes

20 per carton

### Important Safety Information

Care should be taken when inserting the needle to prevent perforation of the back wall of the aorta. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. Additional care and caution may be necessary due to the unique adaptations required for minimally invasive techniques. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.

Cannulae with Vent Line





## 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.



### EXTRACORPOREAL CIRCUIT

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#### Pediatric

6.5 in (16.5 cm) overall length

Tip length 1/4 in (0.64 cm)  
with hub stop

11316	16 ga (5 Fr)
-------	--------------

20 per carton

#### Adult

10 in (25.4 cm) overall length

Tip length 5/8 in (1.59 cm)  
with 4 side holes and flange stop

10313	13 ga (8 Fr)
-------	--------------

20 per carton

#### Important Safety Information

Care should be taken when inserting the needle to prevent perforation of the back wall of the aorta. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. Additional care and caution may be necessary due to the unique adaptations required for minimally invasive techniques. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.







## DLP™ Silicone Coronary Artery Ostial Cannulae

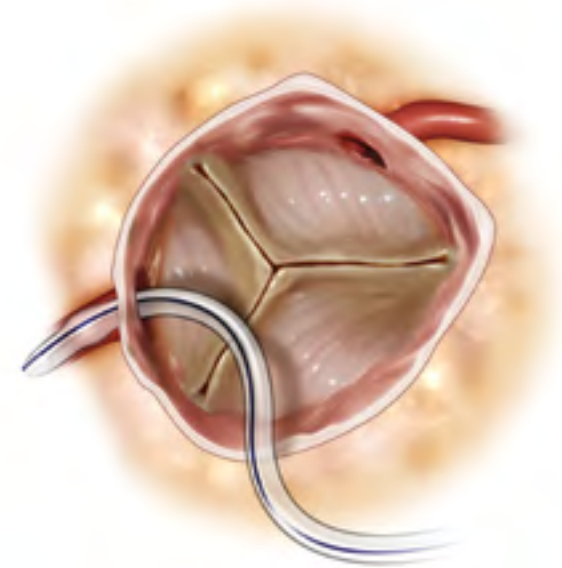
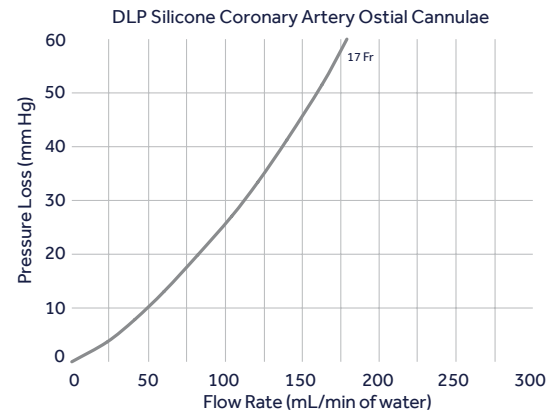
These cannulae feature silicone bodies with soft bulb-shaped tips. All cannulae have a female luer connection site.



10 in (25.4 cm) overall length

30315	15 Fr (5.0 mm) bulb
30317	17 Fr (5.7 mm) bulb
30320	20 Fr (6.7 mm) bulb

10 per carton



Intracoronary cardioplegia

EXTRACORPOREAL  
CIRCUIT

CARDIOPLEGIA  
CIRCUIT

ANTEGRADE  
PERFUSION CANNULAE

RETROGRADE  
PERFUSION CANNULAE  
CARDIOPLEGIA ADAPTERS

SUCTION CIRCUIT AND  
SURGICAL ACCESSORIES

APPENDIX

### Important Safety Information

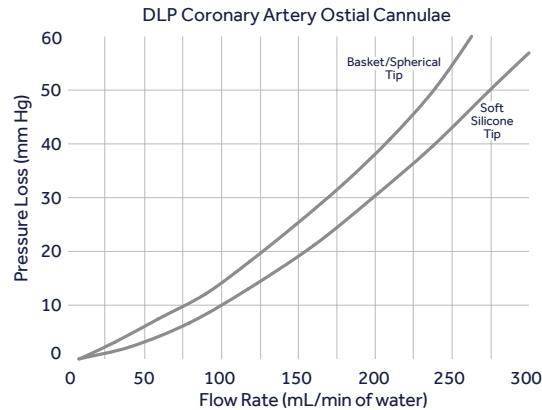
Care should be taken when inserting the needle to prevent perforation of the back wall of the aorta. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. Additional care and caution may be necessary due to the unique adaptations required for minimally invasive techniques. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.





## DLP™ Coronary Artery Ostial Cannulae

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



6 in (15.2 cm) overall length

Basket tip

<b>30010</b>	10 Fr (3.3 mm)
<b>30012</b>	12 Fr (4.0 mm)
<b>30014</b>	14 Fr (4.7 mm)

20 per carton



6 in (15.2 cm) overall length

Spherical tip

**30011**

20 per carton



6 in (15.2 cm) overall length

Soft, concave tip

**30050**

10 per carton



6 in (15.2 cm) overall length

Soft, convex tip

**30055**

10 per carton

**VIEW IMAGES**



### Important Safety Information

Care should be taken when inserting the needle to prevent perforation of the back wall of the aorta. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. Additional care and caution may be necessary due to the unique adaptations required for minimally invasive techniques. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.



**EXTRACORPOREAL  
CIRCUIT**

**CARDIOPLEGIA  
CIRCUIT**

**ANTEGRADE  
PERFUSION CANNULAE**

RETROGRADE  
PERFUSION CANNULAE

CARDIOPLEGIA ADAPTERS

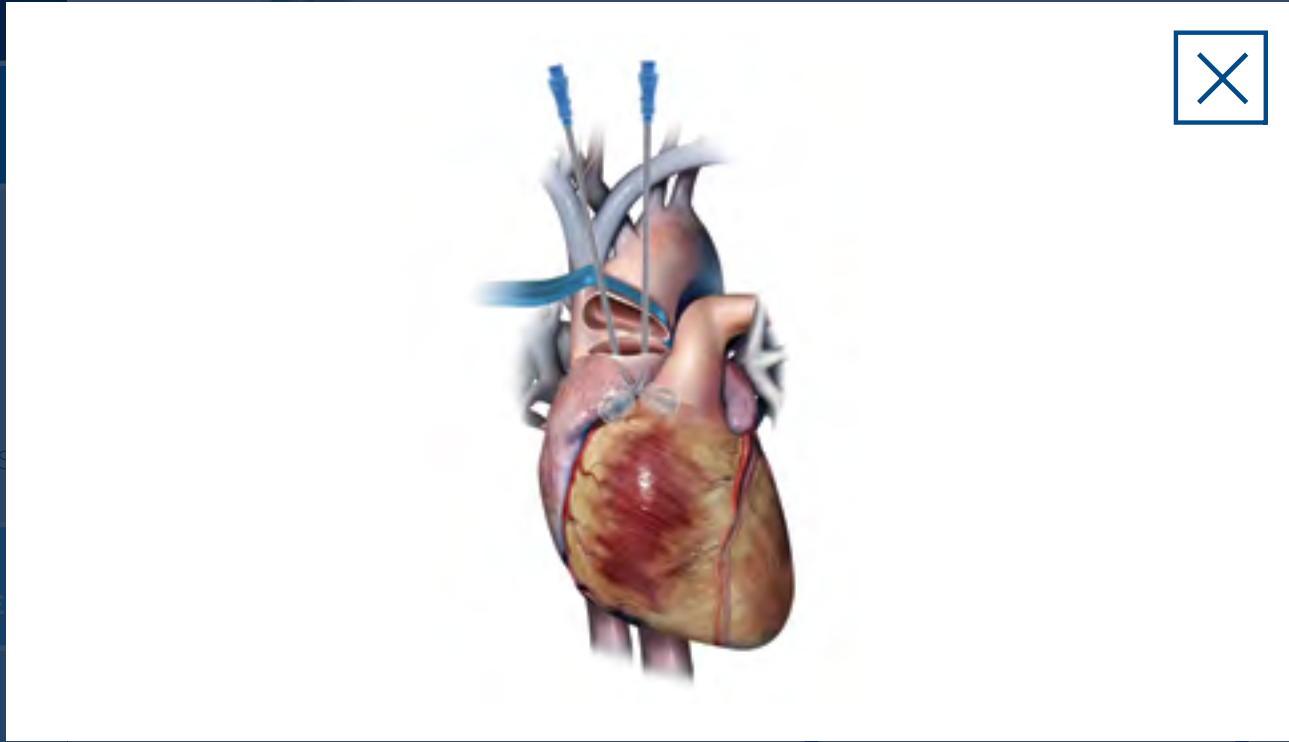
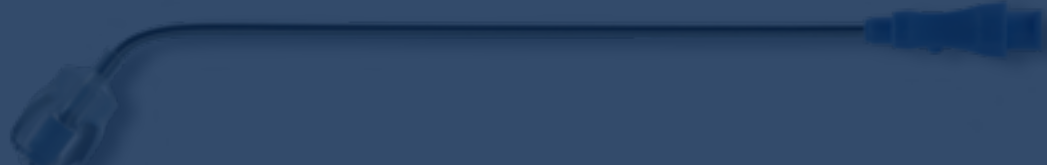
**SUCTION CIRCUIT AND  
SURGICAL ACCESSORIES**

APPENDIX



## DLP™ Coronary Artery Ostial Cannulae

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



EXTRACORPOREAL  
CIRCUIT

CARDIOPLEGIA  
CIRCUIT

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PERFUSION CANNULAE

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APPENDIX

(5.2 cm) overall length

Spherical tip

011

per carton

(5.2 cm) overall length

ft, convex tip

30050

10 per carton

30055

10 per carton

### Important Safety Information

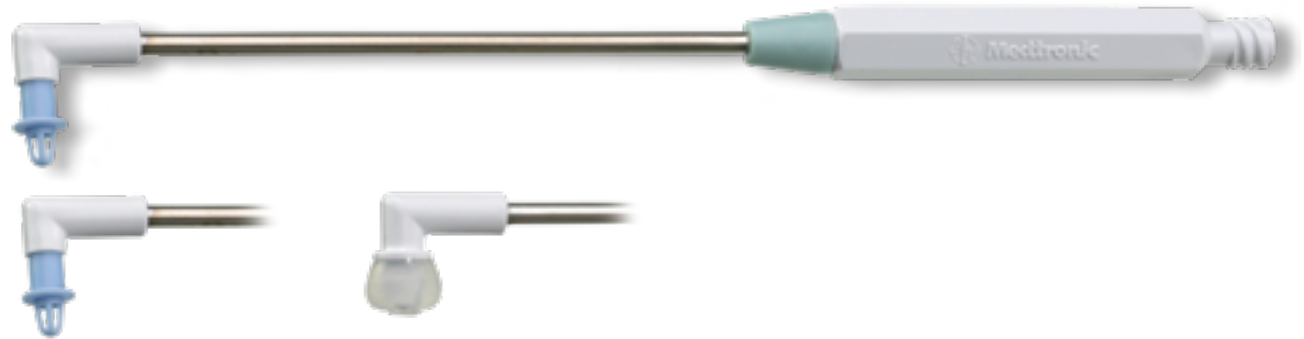
Care should be taken when inserting the needle to prevent perforation of the back wall of the aorta. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. Additional care and caution may be necessary due to the unique adaptations required for minimally invasive techniques. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.





## 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 shafts. All cannulae have a female luer connection site.



7.5 in (19.1 cm) overall length

90° angle basket tip

30110	10 Fr (3.3 mm)
30112	12 Fr (4.0 mm)
30114	14 Fr (4.7 mm)

10 per carton

7.5 in (19.1 cm) overall length

90° angle soft silicone tip

30155	10 Fr (3.3 mm)
-------	----------------

10 per carton



7.5 in (19.1 cm) overall length

45° angle basket tip

30212	12 Fr (4.0 mm)
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10 per carton

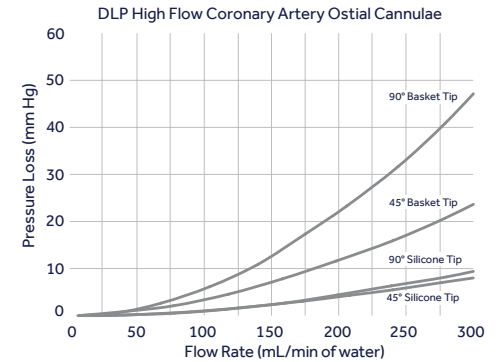


7.5 in (19.1 cm) overall length

45° angle soft silicone tip

30255	10 Fr (3.3 mm)
-------	----------------

10 per carton



[VIEW IMAGES](#)



### Important Safety Information

Care should be taken when inserting the needle to prevent perforation of the back wall of the aorta. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. Additional care and caution may be necessary due to the unique adaptations required for minimally invasive techniques. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.



## EXTRACORPOREAL CIRCUIT

## CARDIOPLEGIA CIRCUIT

## ANTEGRADE PERFUSION CANNULAE

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## 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 shafts. All cannulae have a female luer connection site.



EXTRACORPOREAL  
CIRCUIT

CARDIOPLEGIA  
CIRCUIT

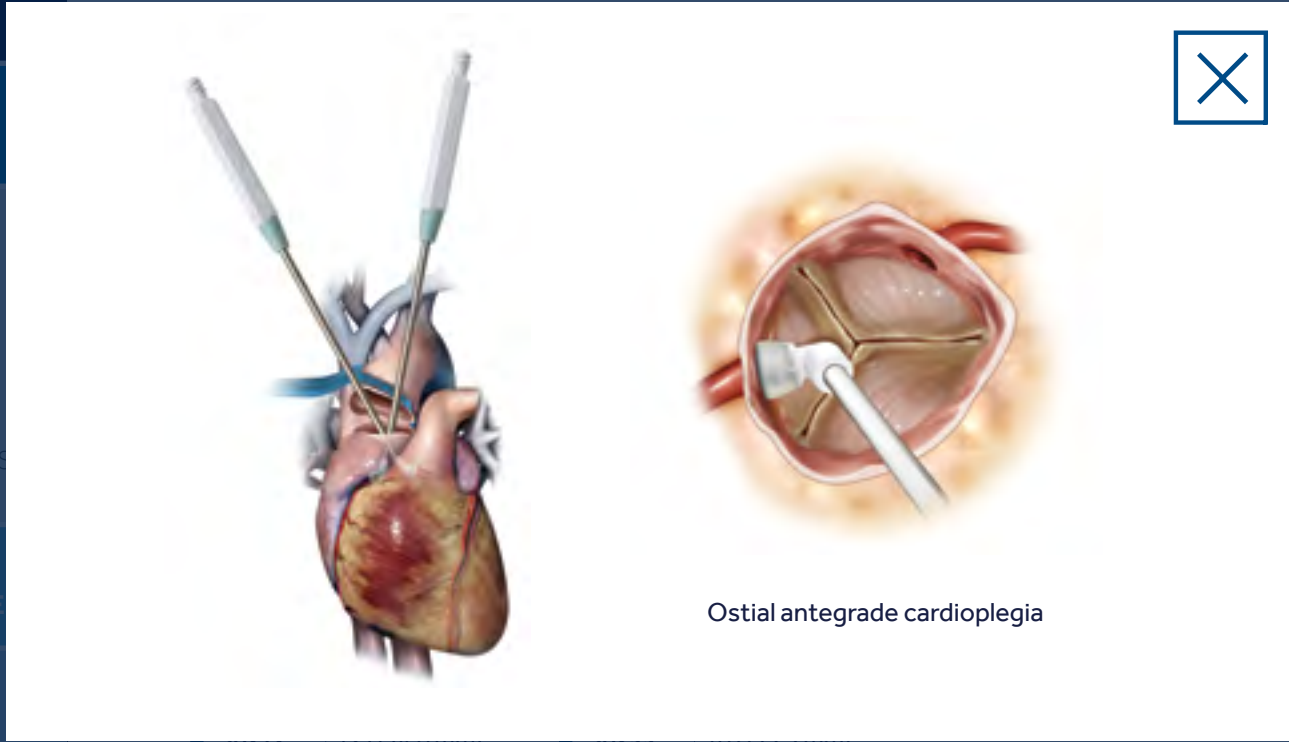
ANTEGRADE  
PERFUSION CANNULAE

RETROGRADE  
PERFUSION CANNULAE

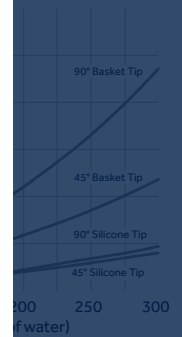
CARDIOPLEGIA ADAPTERS

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Ostial Cannulae



50212 1211 (4.0 mm)  
10 per carton

50235 1011 (3.5 mm)  
10 per carton

### Important Safety Information

Care should be taken when inserting the needle to prevent perforation of the back wall of the aorta. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. Additional care and caution may be necessary due to the unique adaptations required for minimally invasive techniques. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.





# RETROGRADE CANNULAE

## EXTRACORPOREAL CIRCUIT

## CARDIOPLEGIA CIRCUIT

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PERFUSION CANNULAE

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Retrograde cannulae are designed to deliver cardioplegia solution to the heart via the coronary sinus in the reverse direction of normal blood flow (retrograde perfusion). We offer the retrograde cannulae in pediatric and adult sizes. The pediatric cannulae are offered with silicone bodies, with or without a guidewire stylet, and a manual-inflate cuff. Adult models are offered with a silicone or PVC body, a solid or guidewire stylet with a variety of handle options, and an auto- or manual-inflate cuff. Silicone bodies ensure product malleability under cold cardioplegia temperatures. The purpose of the opening of the coronary sinus, forcing cardioplegia flow to the coronary vessel bed of the heart. Manual-inflate models require the clinician to inflate the cuff prior to delivering cardioplegia. Our product breadth ensures the availability of a cannula to meet your specific needs.





# RETROGRADE CANNULAE

Gundry™ Silicone with Manual-inflate Cuff >

DLP™ Silicone with Manual-inflate Cuff >

DLP™ Silicone with Auto-inflate Cuff >

DLP™ PVC with Auto-inflate Cuff >

## EXTRACORPOREAL CIRCUIT

## CARDIOPLEGIA CIRCUIT

ANTEGRADE  
PERFUSION CANNULAE

## RETROGRADE PERFUSION CANNULAE

CARDIOPLEGIA ADAPTERS

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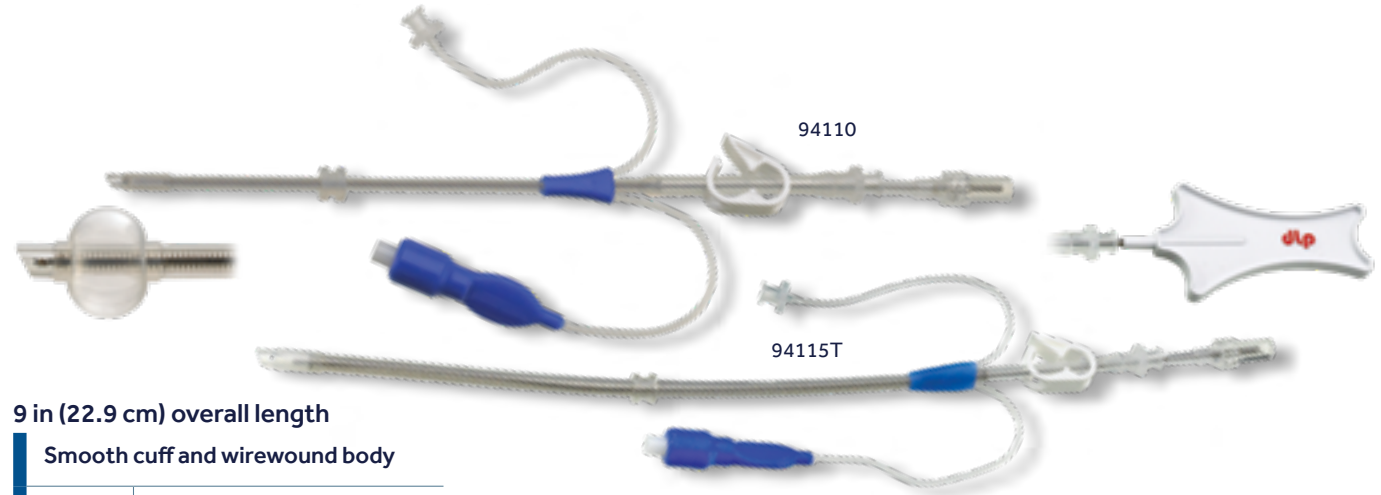
Retrograde cannulae are designed to deliver cardioplegia solution to the heart via the coronary sinus in the reverse direction of normal blood flow (retrograde perfusion). We offer the retrograde cannulae in pediatric and adult sizes. The pediatric cannulae are offered with silicone bodies, with or without a guidewire stylet, and a manual-inflate cuff. Adult models are offered with a silicone or PVC body, a solid or guidewire stylet with a variety of handle options, and an auto- or manual-inflate cuff. Silicone bodies ensure product malleability under cold cardioplegia temperatures. The purpose of the cuff is to occlude the opening of the coronary sinus, forcing cardioplegia flow to the coronary vessel bed of the heart. Manual-inflate models require the clinician to inflate the cuff prior to delivering cardioplegia. Our product breadth ensures the availability of a cannula to meet your specific needs.





## Gundry™ Silicone RCSP Cannulae with Manual-inflate Cuff

These pediatric and adult 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.



### 9 in (22.9 cm) overall length

Smooth cuff and wirewound body

94110	10 Fr (3.3 mm) guidewire stylet
-------	---------------------------------

4 per carton

### 12.5 in (31.8 cm) overall length

Smooth cuff, wirewound body, and integral stopcock

94113T	13 Fr (4.3 mm) guidewire stylet
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10 per carton

94615	15 Fr (5.0 mm) guidewire stylet
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4 per carton

94715	15 Fr (5.0 mm) guidewire stylet with Tru-Touch handle
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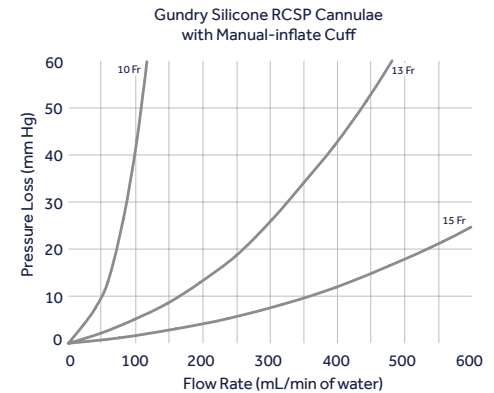
10 per carton

### 12.5 in (31.8 cm) overall length

Smooth cuff and wirewound body

94115T	15 Fr (5.0 mm) guidewire stylet
--------	---------------------------------

10 per carton



### Important Safety Information

Extreme caution should be exercised while introducing the cannula into the coronary sinus. Do not force the cannula into the coronary sinus as this may cause vessel damage. Do not overinflate the balloon. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.

## EXTRACORPOREAL CIRCUIT

## CARDIOPLEGIA CIRCUIT

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## DLP™ Silicone RCSP Cannulae with Manual-inflate Cuff

These pediatric and adult cannulae feature silicone bodies and manual-inflate cuffs with pressure monitoring lines. All cannulae come with a smooth cuff and a syringe for cuff inflation.

### 9 in (22.9 cm) overall length

Smooth cuff and wirewound body

94010	10 Fr (3.3 mm) no stylet
-------	--------------------------

4 per carton

### 9.5 in (24.1 cm) overall length

Smooth cuff, non-wirewound body, and integral stopcock

94006	6 Fr (2.0 mm) no stylet
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94106	6 Fr (2.0 mm) guidewire stylet
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4 per carton

### 12.5 in (31.8 cm) overall length

Smooth cuff and wirewound body

94215T	15 Fr (5.0 mm) solid stylet
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10 per carton

### 12.5 in (31.8 cm) overall length

Smooth cuff, wirewound body, and integral stopcock

94725	15 Fr (5.0 mm) solid stylet with Tru-Touch™ handle
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10 per carton

#### Important Safety Information

Extreme caution should be exercised while introducing the cannula into the coronary sinus. Do not force the cannula into the coronary sinus as this may cause vessel damage. Do not overinflate the balloon. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.

## EXTRACORPOREAL CIRCUIT

## CARDIOPLEGIA CIRCUIT

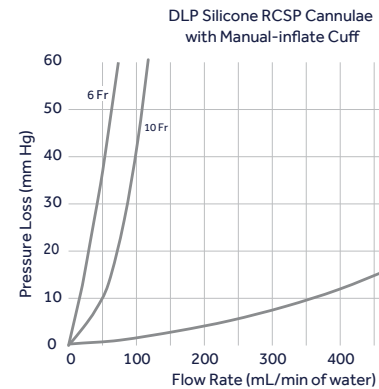
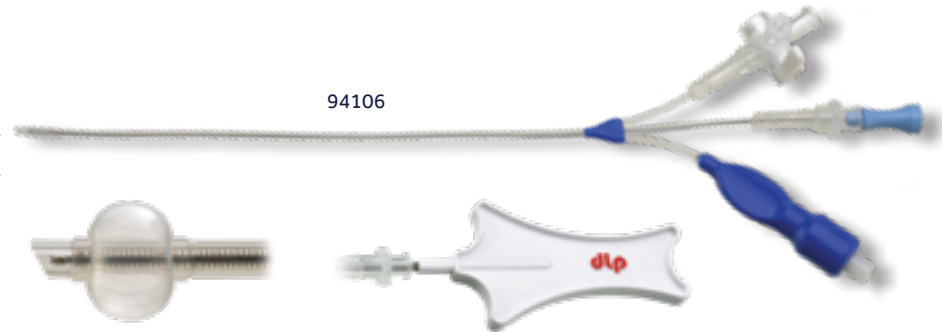
ANTEGRADE PERFUSION CANNULAE

## RETROGRADE PERFUSION CANNULAE

CARDIOPLEGIA ADAPTERS

## SUCTION CIRCUIT AND SURGICAL ACCESSORIES

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## DLP™ Silicone RCSP Cannulae with Manual-inflate Cuff

These pediatric and adult 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.



12.5 in (31.8 cm) overall length

Elongated cuff, wirewound body, and integral stopcock

94625	15 Fr (5.0 mm) solid stylet
94665	15 Fr (5.0 mm) guidewire stylet

10 per carton



12.5 in (31.8 cm) overall length

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 in (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

10 per carton

### EXTRACORPOREAL CIRCUIT

### CARDIOPLEGIA CIRCUIT

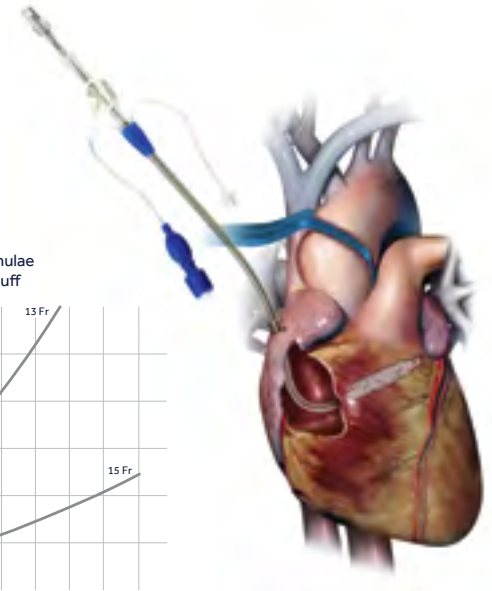
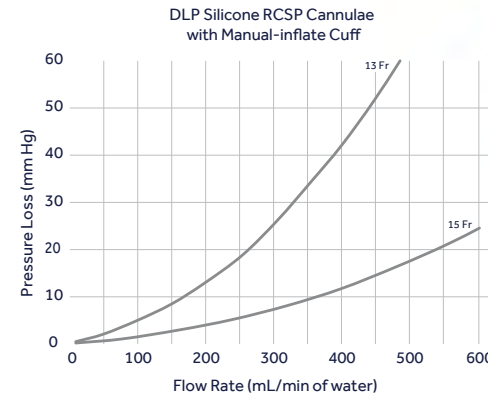
ANTEGRADE PERFUSION CANNULAE

RETROGRADE PERFUSION CANNULAE

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### SUCTION CIRCUIT AND SURGICAL ACCESSORIES

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#### Important Safety Information

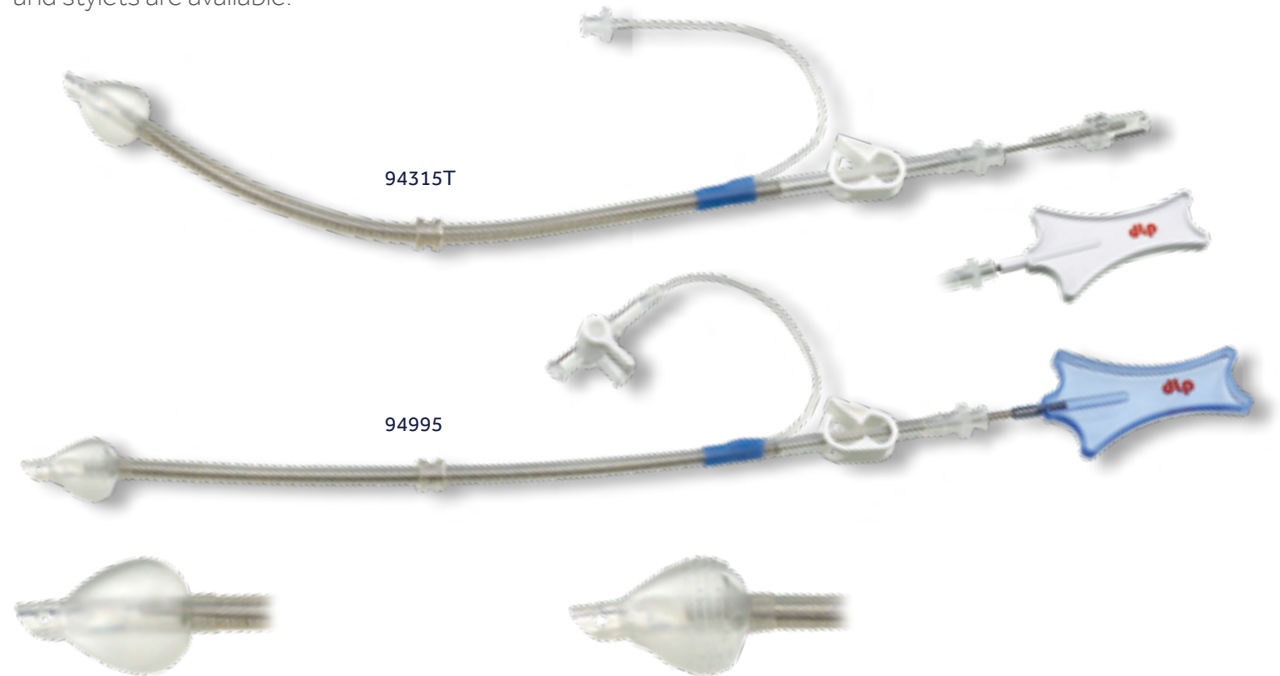
Additional care and caution may be necessary due to the unique adaptations required for minimally invasive techniques. Due to limitations of direct visualization during minimally invasive techniques, echocardiographic or fluoroscopic imaging is recommended. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures.





## 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.



12.5 in (31.8 cm) overall 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

10 per carton

12.5 in (31.8 cm) overall length

Ridged preformed cuff, wirewound body,  
and integral stopcock

94995	15 Fr (5.0 mm) guidewire stylet with Tru-Touch handle
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10 per carton

### EXTRACORPOREAL CIRCUIT

### CARDIOPLEGIA CIRCUIT

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#### Important Safety Information

Additional care and caution may be necessary due to the unique adaptations required for minimally invasive techniques. Due to limitations of direct visualization during minimally invasive techniques, echocardiographic or fluoroscopic imaging is recommended. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.

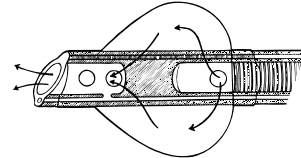
Continued on next page >





## DLP™ Silicone RCSP Cannulae with Auto-inflate Cuff, cont'd.

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



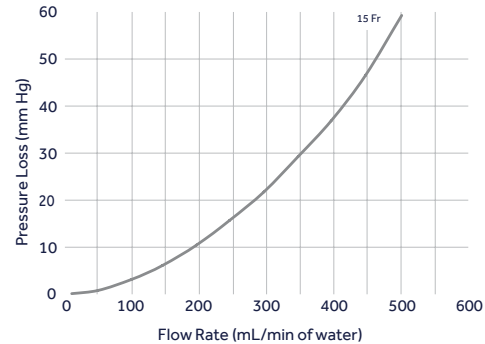
Silicone Auto-inflateCuff Flow Detail

Silicone auto-inflating cuffs offer the convenience of cuff inflation without the need for a syringe. Their 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, which 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 overinflation.

### Important Safety Information

Additional care and caution may be necessary due to the unique adaptations required for minimally invasive techniques. Due to limitations of direct visualization during minimally invasive techniques, echocardiographic or fluoroscopic imaging is recommended. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.

DLP Silicone RCSP Cannulae with Auto-inflate Cuff



[VIEW IMAGES](#)



## EXTRACORPOREAL CIRCUIT

## CARDIOPLEGIA CIRCUIT

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## DLP™ Silicone RCSP Cannulae with Auto-inflate Cuff, cont'd.

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

94315T

### EXTRACORPOREAL CIRCUIT

### CARDIOPLEGIA CIRCUIT

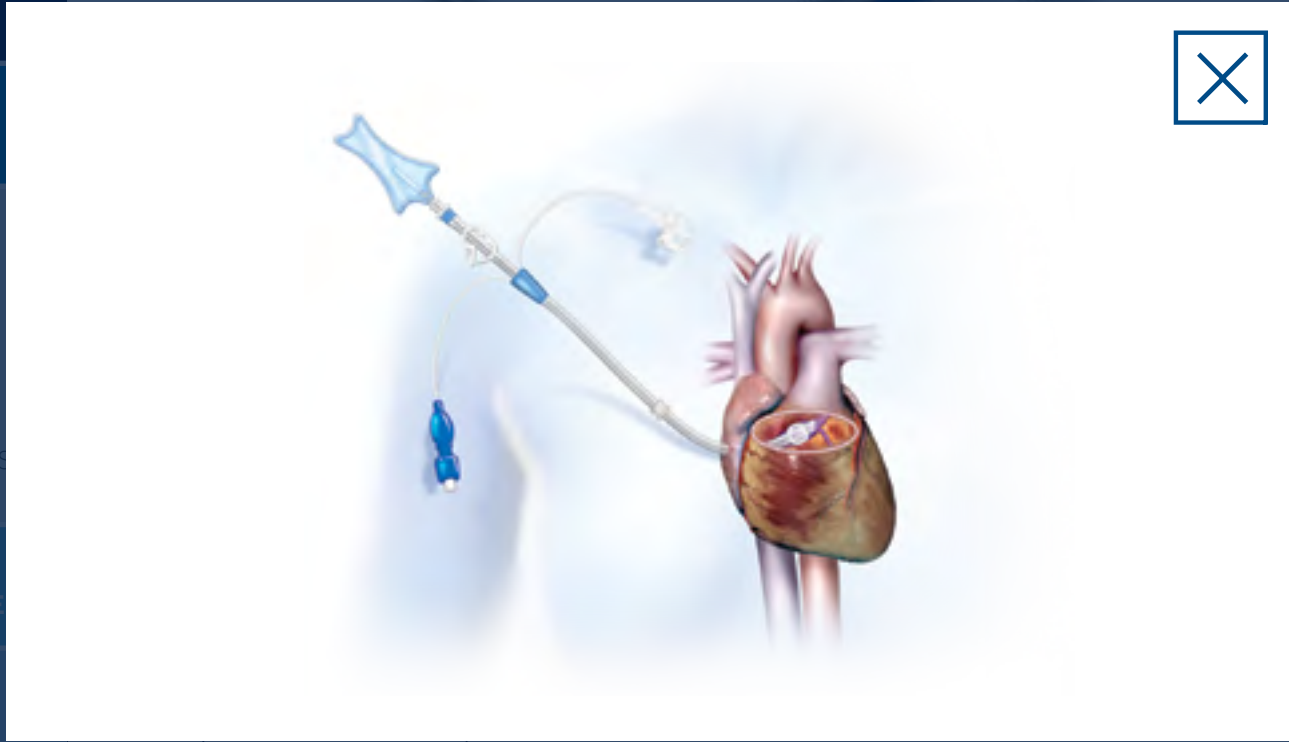
ANTEGRADE  
PERFUSION CANNULAE

### RETROGRADE PERFUSION CANNULAE

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### APPENDIX



monitoring system, which 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 overinflation.

#### Important Safety Information

Additional care and caution may be necessary due to the unique adaptations required for minimally invasive techniques. Due to limitations of direct visualization during minimally invasive techniques, echocardiographic or fluoroscopic imaging is recommended. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.

Flow Rate (mL/min of water)





## DLP™ PVC RCSP Cannulae with Auto-inflate Cuff

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



### EXTRACORPOREAL CIRCUIT

### CARDIOPLEGIA CIRCUIT

ANTEGRADE PERFUSION CANNULAE

### RETROGRADE PERFUSION CANNULAE

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10 in (25.4 cm) overall length

Smooth preformed cuff, short fluted bullet-nosed tip, and integral stopcock

94885K	15 Fr (5.0 mm) solid stilet with Tru-Touch™ handle
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10 per carton



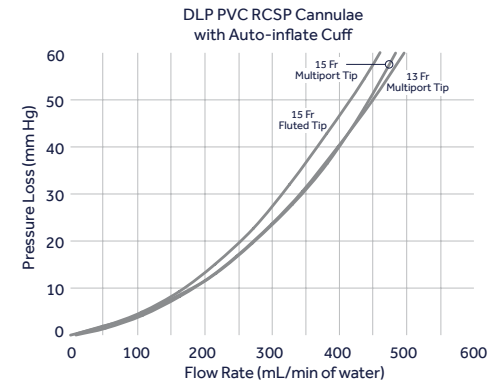
11 in (27.9 cm) overall length

Smooth preformed cuff, multiport tip, and integral stopcock

94533	13 Fr (4.3 mm) solid stilet with Tru-Touch handle
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94535	15 Fr (5.0 mm) solid stilet with Tru-Touch handle
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10 per carton



Continued on next page >

#### Important Safety Information

Extreme caution should be exercised while introducing the cannula into the coronary sinus. Do not force the cannula into the coronary sinus as this may cause vessel damage. Do not overinflate the balloon. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.





## DLP™ PVC RCSP Cannulae with Auto-inflate Cuff, cont'd.

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



### EXTRACORPOREAL CIRCUIT

### CARDIOPLEGIA CIRCUIT

ANTEGRADE PERFUSION CANNULAE

### RETROGRADE PERFUSION CANNULAE

CARDIOPLEGIA ADAPTERS

### SUCTION CIRCUIT AND SURGICAL ACCESSORIES

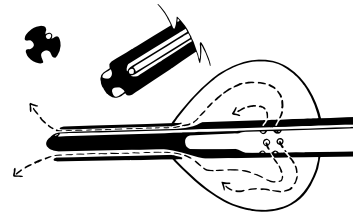
### APPENDIX

**12 in (30.5 cm) overall length**

Smooth preformed cuff, short fluted bullet-nosed 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

10 per carton



PVC Auto-inflate Cuff Flow Detail

#### Important Safety Information

Additional care and caution may be necessary due to the unique adaptations required for minimally invasive techniques. Due to limitations of direct visualization during minimally invasive techniques, echocardiographic or fluoroscopic imaging is recommended. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use.  
Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.

**12.5 in (31.8 cm) overall length**

Smooth preformed cuff, fluted bullet-nosed tip, and integral stopcock

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

10 per carton



**12.5 in (31.8 cm) overall length**

Ridged preformed silicone cuff, short fluted bullet-nosed tip, and integral stopcock

94935	15 Fr (5.0 mm) solid stylet with Tru-Touch handle
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10 per carton





# CARDIOPLEGIA ADAPTERS

## EXTRACORPOREAL CIRCUIT

## CARDIOPLEGIA CIRCUIT

ANTEGRADE  
PERFUSION CANNULAE  
RETROGRADE  
PERFUSION CANNULAE

## CARDIOPLEGIA ADAPTERS

## SUCTION CIRCUIT AND SURGICAL ACCESSORIES

## APPENDIX



Cardioplegia adapters are designed to permit customization of the cardioplegia circuit. Medtronic adapters can be used to connect multiple cardioplegia cannulae and/or vein graft cannulae to a single inlet source, switch between antegrade and retrograde delivery of cardioplegia, and provide the option for attaching a vent line to cardioplegia cannulae. Additional adapters are available to extend the length of the cardioplegia circuit, recirculate the cardioplegia solution, or provide an extension to the pressure monitoring line.







# CARDIOPLEGIA ADAPTERS

## EXTRACORPOREAL CIRCUIT

## CARDIOPLEGIA CIRCUIT

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RETROGRADE  
PERFUSION CANNULAE

## CARDIOPLEGIA ADAPTERS

## SUCTION CIRCUIT AND SURGICAL ACCESSORIES

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- [DLP™ Perfusion >](#)
- [DLP™ Perfusion/Venting >](#)
- [DLP™ Extension Line >](#)
- [DLP™ Pressure Monitoring Extension Line >](#)
- [DLP™ Straight Venting >](#)
- [DLP™ "Y" Type Venting >](#)
- [DLP™ "Y" Type Recirculating >](#)
- [DLP™ "Y" Type Coronary Perfusion >](#)
- [DLP™ "Y" Type >](#)
- [DLP™ Vein Graft Cannula >](#)
- [DLP™ Cardioplegia Adapter with Pressure Port >](#)
- [ARISS™ Perfusion Switches >](#)
- [DLP™ Cardioplegia Management Set >](#)
- [DLP™ Antegrade/Retrograde >](#)
- [DLP™ Multiple Perfusion Sets >](#)

Cardioplegia adapters are designed to permit customization of the cardioplegia circuit. Medtronic adapters can be used to connect multiple cardioplegia cannulae and/or vein graft cannulae to a single inlet source, switch between antegrade and retrograde delivery of cardioplegia, and provide the option for attaching a vent line to cardioplegia cannulae. Additional adapters are available to extend the length of the cardioplegia circuit, recirculate the cardioplegia solution, or provide an extension to the pressure monitoring line.





## 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 in (5.1 cm) overall length

#### Male luer

10007	1/4 in (0.64 cm) barbed connector
10008	3/8 in (0.95 cm) barbed connector

40 per carton



### 3.25 in (8.3 cm) overall length

#### Tubing and female luer

10022	1/4 in (0.64 cm) barbed connector
-------	-----------------------------------

40 per carton



## DLP™ Perfusion/Venting Adapter

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

#### Male luer

13002

20 per carton



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## EXTRACORPOREAL CIRCUIT

## CARDIOPLEGIA CIRCUIT

ANTEGRADE  
PERFUSION CANNULAE

RETROGRADE  
PERFUSION CANNULAE

## CARDIOPLEGIA ADAPTERS

## SUCTION CIRCUIT AND SURGICAL ACCESSORIES

## APPENDIX





## DLP™ Extension Line Adapters

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

### 10 in (25.4 cm) overall length

Male and winged female luers

<b>11001</b>	without clamp
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10 per carton

### 20 in (50.8 cm) overall length

Male and winged female luers

<b>11001G</b>	with clamp
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20 per carton



## EXTRACORPOREAL CIRCUIT

## CARDIOPLEGIA CIRCUIT

ANTEGRADE  
PERFUSION CANNULAE

RETROGRADE  
PERFUSION CANNULAE

## CARDIOPLEGIA ADAPTERS

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## DLP™ Pressure Monitoring Extension Line Adapters

These adapters feature combinations of male and female luers on the ends.

### 6 ft (1.8 m) overall length

Male and female luers

<b>25009</b>	male x female luers
--------------	---------------------

<b>25010</b>	male x male luers
--------------	-------------------

20 per carton



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## DLP™ Straight Venting Adapters

These adapters have a male luer on one end and a 1/4 inch (0.64 cm) connector on the other.



5 in (12.7 cm) overall length

### Male luers

10001	with vented 1/4 in connector
10001K	with vented 1/4 in connector and clamp

20 per carton

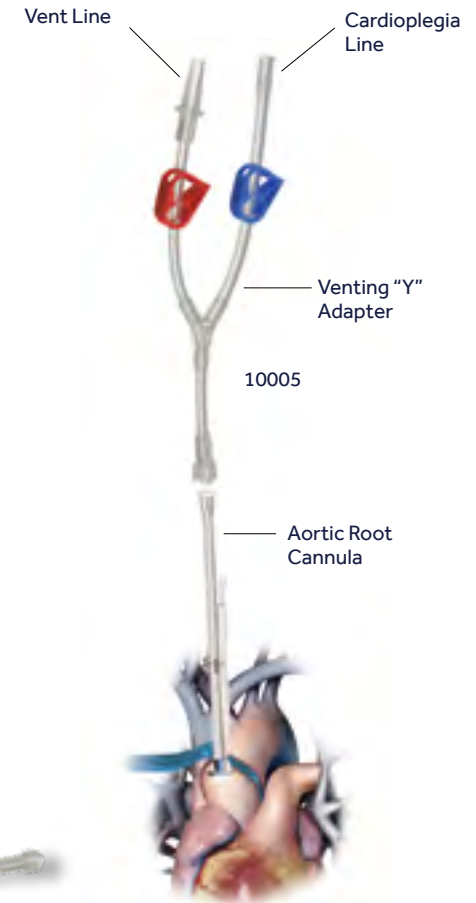
## DLP™ “Y” Type Venting Adapters

These adapters feature a male luer on the single leg. A female luer is on the cardioplegia inlet leg and a 1/4 inch (0.64 cm) connector is on the venting leg.

### Male luer on single leg

10005†	7.5 in (19.1 cm) overall length with 3 in (7.6 cm) inlet leg and color-coded clamps
10534	8.5 in (21.6 cm) overall length with one-way valve in vent line and color-coded clamps

20 per carton



†When used with 10005 Venting “Y” Adapter, an Aortic Root Cannula can be used to vent the left heart.

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## EXTRACORPOREAL CIRCUIT

## CARDIOPLEGIA CIRCUIT

ANTEGRADE PERFUSION CANNULAE  
RETROGRADE PERFUSION CANNULAE

## CARDIOPLEGIA ADAPTERS

## SUCTION CIRCUIT AND SURGICAL ACCESSORIES

## APPENDIX





## DLP™ “Y” Type Recirculating Adapters

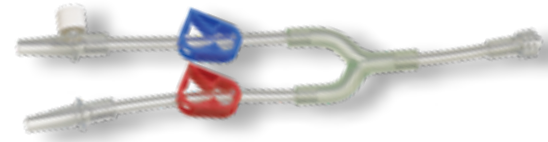
This adapter features a soft “Y” that has two legs with 1/4 inch (0.64 cm) connectors and venting capabilities.

**8 in (20.3 cm) overall length**

**Male luer on single leg**

<b>10003</b>	color-coded clamps
--------------	--------------------

*20 per carton*



### EXTRACORPOREAL CIRCUIT

### CARDIOPLEGIA CIRCUIT

ANTEGRADE  
PERFUSION CANNULAE

RETROGRADE  
PERFUSION CANNULAE

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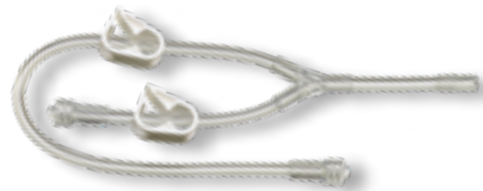
## DLP™ “Y” Type Coronary Perfusion Adapters

These adapters feature a rigid “Y” with two legs in various lengths that terminate with male luers.

### Female luer on single leg

10004	3.5 in (8.9 cm) and 10 in (25.4 cm) legs and white clamps
10004D	6 in (15.2 cm) legs and white clamps
10700	3.5 in (8.9 cm) and 10 in (25.4 cm) legs and color-coded clamps
10706	6 in (15.2 cm) soft, silicone-like PVC legs and white clamps
10710	10 in (25.4 cm) soft, silicone-like PVC legs and white clamps

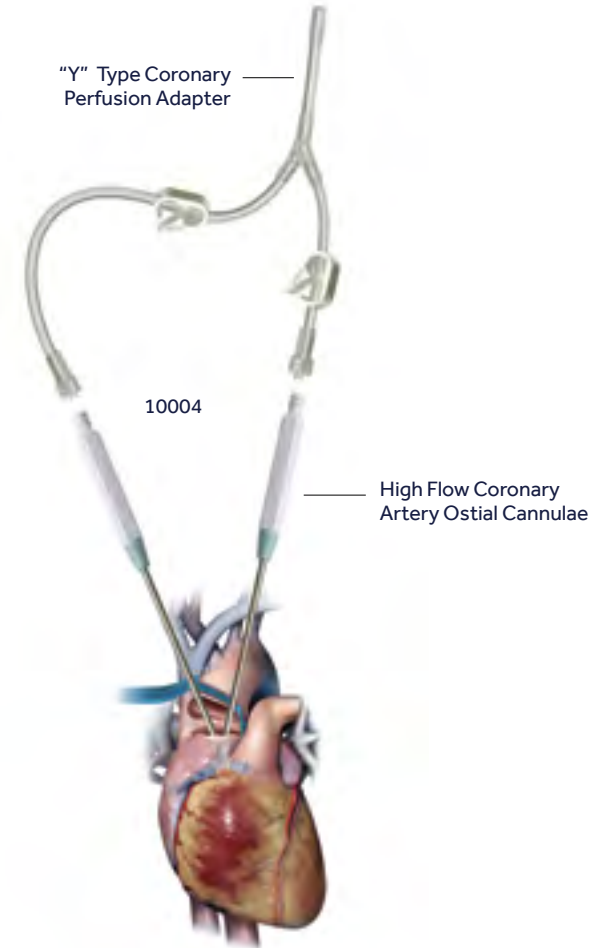
20 per carton



10004



10004D



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## EXTRACORPOREAL CIRCUIT

## CARDIOPLEGIA CIRCUIT

ANTEGRADE  
PERFUSION CANNULAE  
RETROGRADE  
PERFUSION CANNULAE

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## DLP™ “Y” Type Adapter

This adapter is a combination of Models 10004 and 10005 and features four legs. Two legs terminate in male luers, one terminates with a female luer, and the fourth terminates with a 1/4 inch (0.64 cm) connector.

20.5 in (52.1 cm) overall length

Combination with four legs

10005BH	color-coded clamps
---------	--------------------

20 per carton



This adapter features a female luer on the cardioplegia inlet leg and a 1/4 inch (0.64 cm) connector on the venting leg.

7.5 in (19.1 cm) overall length

Male luer on single leg

10005OS	white clamps with color-coded arrows
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20 per carton



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## EXTRACORPOREAL CIRCUIT

## CARDIOPLEGIA CIRCUIT

ANTEGRADE  
PERFUSION CANNULAE

RETROGRADE  
PERFUSION CANNULAE

## CARDIOPLEGIA ADAPTERS

## SUCTION CIRCUIT AND SURGICAL ACCESSORIES

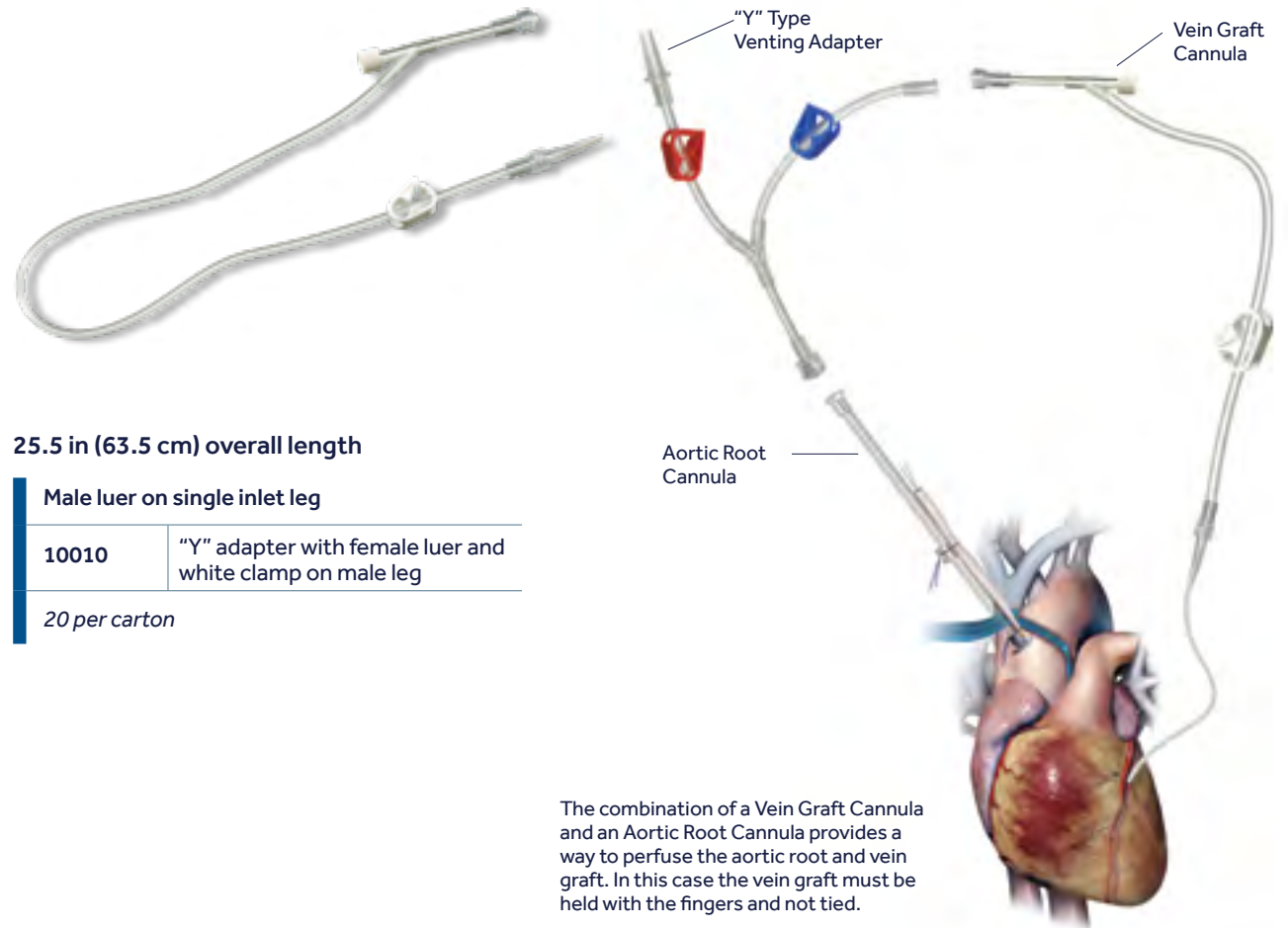
## APPENDIX





## DLP™ Vein Graft Cannula

This product features a soft silicone tip with graduated steps to fit any vessel. The tip is attached to a “Y” adapter via tubing with clamps. The “Y” adapter terminates with a male luer.



25.5 in (63.5 cm) overall length

Male luer on single inlet leg

10010	“Y” adapter with female luer and white clamp on male leg
-------	--

20 per carton

The combination of a Vein Graft Cannula and an Aortic Root Cannula 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.

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## EXTRACORPOREAL CIRCUIT

## CARDIOPLEGIA CIRCUIT

ANTEGRADE  
PERFUSION CANNULAE

RETROGRADE  
PERFUSION CANNULAE

## CARDIOPLEGIA ADAPTERS

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## DLP™ Cardioplegia Adapter with Pressure Port

This adapter features a latex-free rubber septum to allow access for a pressure monitoring needle near the connection to the cardioplegia cannula.

Locking male luer

15004

10 per carton



### EXTRACORPOREAL CIRCUIT

### CARDIOPLEGIA CIRCUIT

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PERFUSION CANNULAE

RETROGRADE  
PERFUSION CANNULAE

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## ARISS™ Perfusion Switches

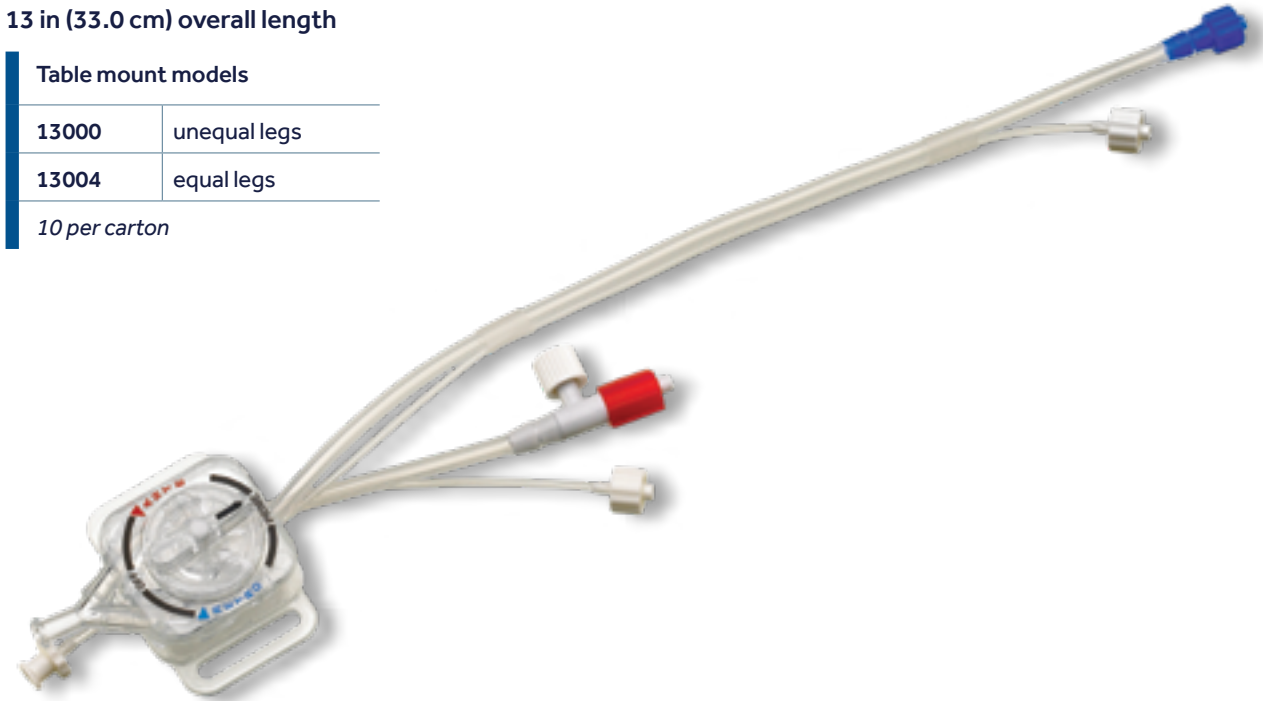
These table mount models allow the surgeon to switch between antegrade and retrograde cardioplegia delivery. These versions feature pressure monitoring lines that run alongside the inlet and outlet ports. The outlet ports are color coded for easy identification.

13 in (33.0 cm) overall length

### Table mount models

13000	unequal legs
13004	equal legs

10 per carton



## EXTRACORPOREAL CIRCUIT

## CARDIOPLEGIA CIRCUIT

ANTEGRADE  
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RETROGRADE  
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## DLP™ Cardioplegia Management Set

This product features soft tubing with three legs that terminate in male luers. The legs have varying lengths and are set in a mounting bracket with adhesive pads on the back. The red clamp leg has a length of 10 inches (25.4 cm), the white clamp leg has a length of 20 inches (50.8 cm), and the blue clamp leg has a length of 30 inches (76.2 cm).

### Female luer on single leg

13003	color-coded clamps
-------	--------------------

5 per carton

## EXTRACORPOREAL CIRCUIT

## CARDIOPLEGIA CIRCUIT

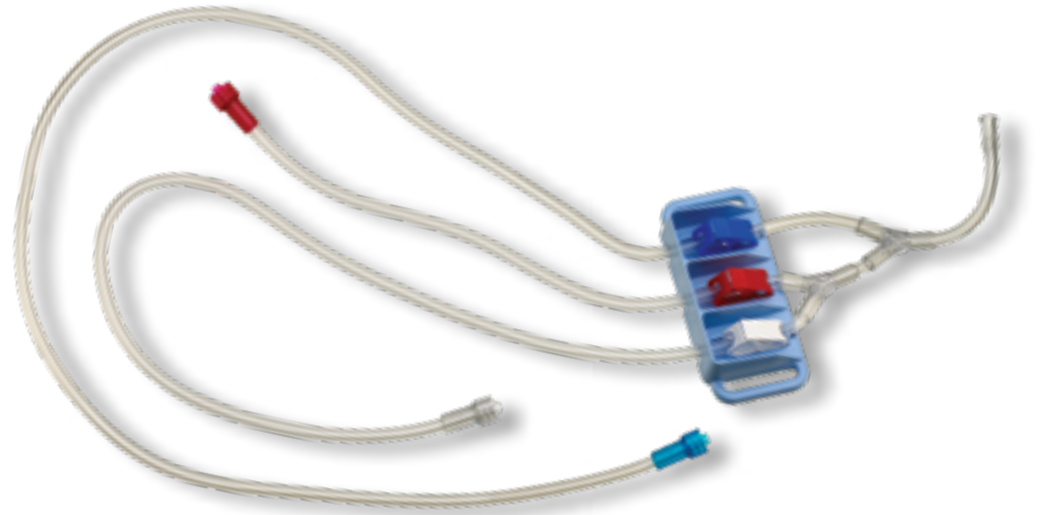
ANTEGRADE  
PERFUSION CANNULAE

RETROGRADE  
PERFUSION CANNULAE

## CARDIOPLEGIA ADAPTERS

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### Important Safety Information

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## DLP™ Antegrade/Retrograde Adapter

This adapter features a large-bore, three-way stopcock and male luers on the outlet ports.

26.5 in (67.3 cm) overall length

Female luer on single leg

13001

10 per carton

### EXTRACORPOREAL CIRCUIT

### CARDIOPLEGIA CIRCUIT

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RETROGRADE  
PERFUSION CANNULAE

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## DLP™ Multiple Perfusion Sets

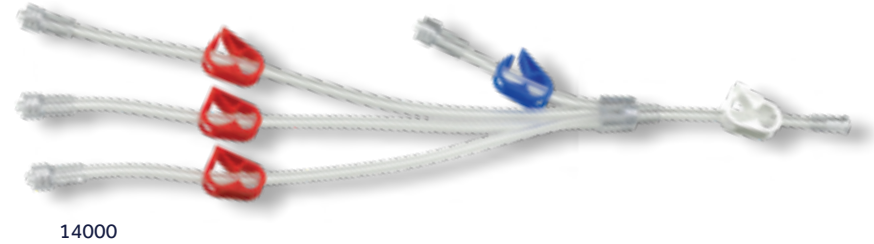
These products allow for simultaneous perfusion of the aortic root and up to three or more vein grafts. They feature inlet ports with male or female luer and clamps attached to an adapter that splits into four or more legs. These legs have color-coded clamps for easy identification and terminate with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

### 12 in (30.5 cm) overall length

#### Female luer on single inlet leg with 4 legs

14003	4–8 in (20.3 cm) length legs with 3 red clamps and 1 blue clamp
14013	4–10 in (25.4 cm) length legs with red, blue, yellow, and white clamps

10 per carton



## EXTRACORPOREAL CIRCUIT

## CARDIOPLEGIA CIRCUIT

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PERFUSION CANNULAE

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## 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 male or female luer and clamps attached to an adapter that 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 inch (0.64 cm) connector.

### 15 in (38.1 cm) overall length

#### Female luer on single inlet leg with 4 legs

14000	1–3 in (7.6 cm) length leg with blue clamp 3–10 in (25.4 cm) length legs with red clamps
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10 per carton

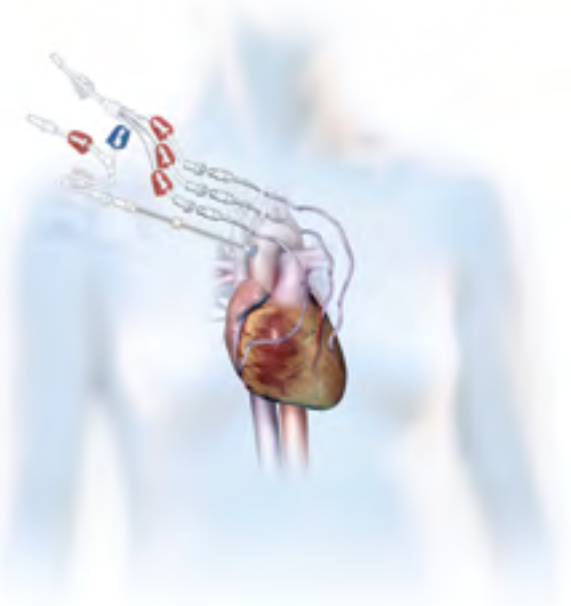
#### Female luer on single inlet leg with 4 legs and vent line

14001	1–8 in (20.3 cm) length vented leg with red clamp on vent line 3–10 in (25.4 cm) length legs with red clamps
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14017	1–8 in (20.3 cm) length vented leg with stiff tubing and red clamp on vent line 3–10 in (25.4 cm) lengths stiff tubing and red clamps
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14031	1–12 in (30.5 cm) length vented leg with yellow clamp on vent line 3–10 in (25.4 cm) length legs with red clamps
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10 per carton



## EXTRACORPOREAL CIRCUIT

## CARDIOPLEGIA CIRCUIT

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## 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 male or female luer and clamps attached to an adapter that splits into four or more legs. These legs have color-coded clamps for easy identification and terminate with male luers.

### 15 in (38.1 cm) overall length

**Female luer on single inlet leg with 4 legs and 3 free-flow vessel cannulae (Model 30003)**

<b>14007</b>	1–3 in (7.6 cm) length leg with blue clamp 3–10 in (25.4 cm) length legs with red clamps
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*10 per carton*

**Female luer on single inlet leg with 4 legs and 3 one-way valve vessel cannulae (Model 30001)**

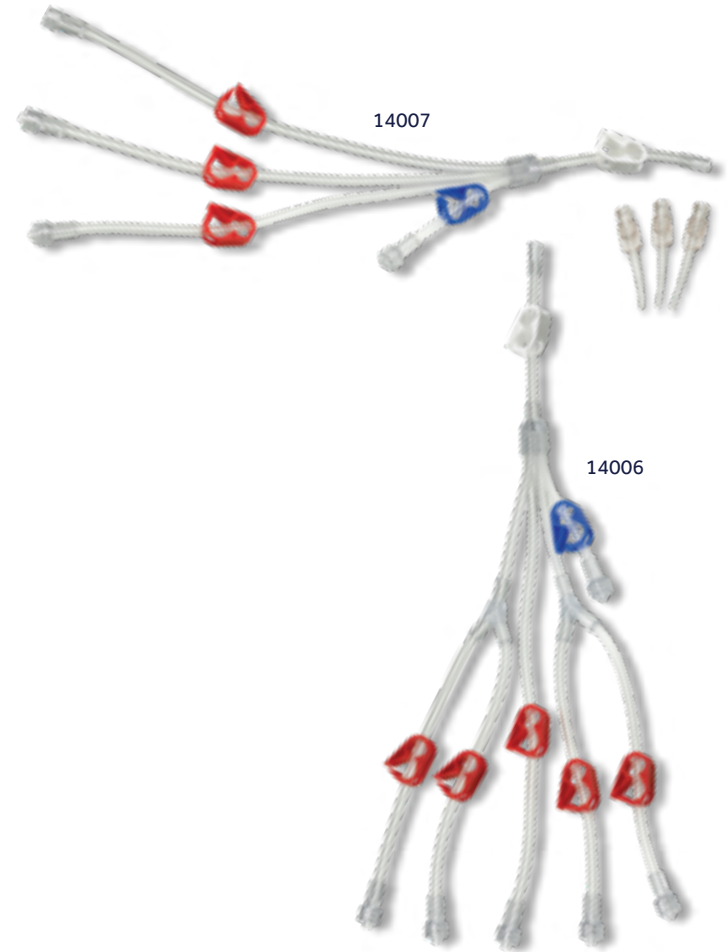
<b>14008</b>	1–3 in (7.6 cm) length leg with blue clamp 3–10 in (25.4 cm) length legs with red clamps
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*10 per carton*

**Female luer on single inlet leg with 6 legs**

<b>14006</b>	1–3 in (7.6 cm) length leg with blue clamp 5–10 in (25.4 cm) length legs with red clamps
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*10 per carton*



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## EXTRACORPOREAL CIRCUIT

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# SUCTION CIRCUIT AND SURGICAL ACCESSORIES

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SUCTION  
CIRCUIT



SURGICAL  
SUPPORT  
PRODUCTS



CARDIO-KITS  
AND PACKS







# SUCTION CIRCUIT



**EXTRACORPOREAL  
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**SUCTION CIRCUIT AND  
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**SUCTION CIRCUIT**

SURGICAL SUPPORT  
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We offer suction products that are designed to provide either fine or gross suction to ensure a clear and dry surgical field. The Medtronic handheld cardiac suction tubes are designed for fine suction, while our intracardiac suction tubes and sumps are intended to provide suction within and around the heart. The Medtronic left heart vent catheters are designed for indirect and direct venting of the left ventricle and feature perforated tips. These vents are offered in different lengths, introducer styles, and in both silicone and PVC body construction. Our product breadth ensures the availability of a cannula to meet your specific needs.





# SUCTION CIRCUIT

- [DLP™ Cardiac Suction Tubes >](#)
- [DLP™ Intracardiac Suction Tube >](#)
- [DLP™ Rigid Suction Tubes >](#)
- [DLP™ Pericardial Sump >](#)
- [DLP™ Pericardial/Intracardiac Sump >](#)
- [DLP™ Intracardiac Sumps >](#)
- [DLP™ Pulmonary Artery Vent Cannula >](#)
- [DLP™ Aortic Air Aspirating Needle >](#)
- [DLP™ Left Heart Vent Catheters >](#)

**EXTRACORPOREAL  
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**SUCTION CIRCUIT AND  
SURGICAL ACCESSORIES**

**SUCTION CIRCUIT**

SURGICAL SUPPORT  
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**APPENDIX**



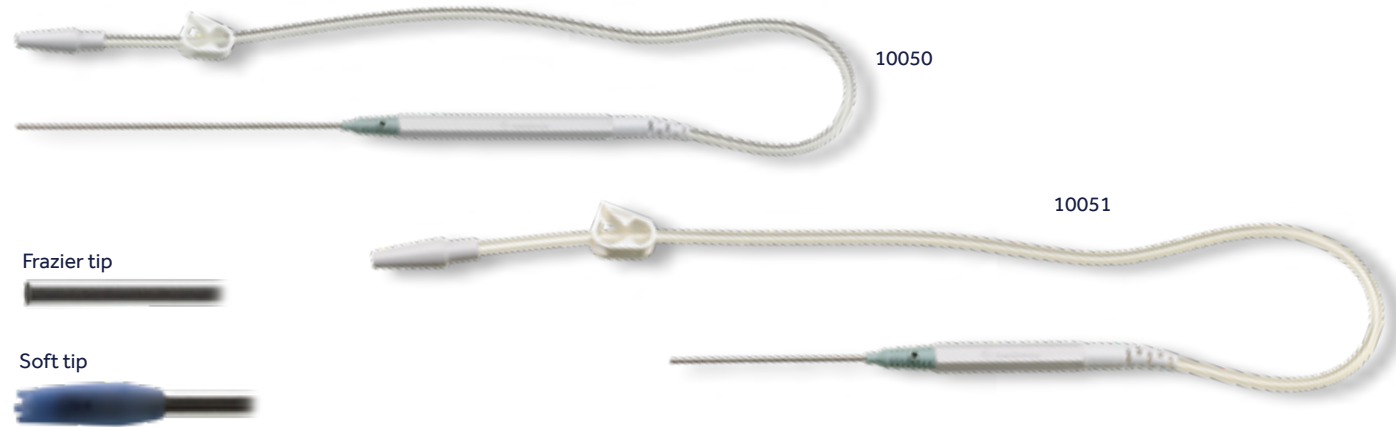
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## DLP™ Cardiac Suction Tubes

These suction tubes feature comfortable hand grips with a vacuum control port. The tip is made from a malleable stainless steel shaft, which allows the surgeon to gently shape to a desired preference. Models 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 inch (0.64 cm) connector.



EXTRACORPOREAL  
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**3 in (7.6 cm)**

approx. shaft and tip length

**Frazier tip**

<b>10051</b>	6 Fr (2.0 mm) shaft
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**Soft tip**

<b>10053</b>	6 Fr (2.0 mm) shaft with 10 Fr (3.3 mm) tip
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*20 per carton*

**6 in (15.2 cm)**

approx. shaft and tip length

**Frazier tip**

<b>10050</b>	6 Fr (2.0 mm) shaft
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**Soft tip**

<b>10052</b>	6 Fr (2.0 mm) shaft with 10 Fr (3.3 mm) tip
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*20 per carton*

### Important Safety Information

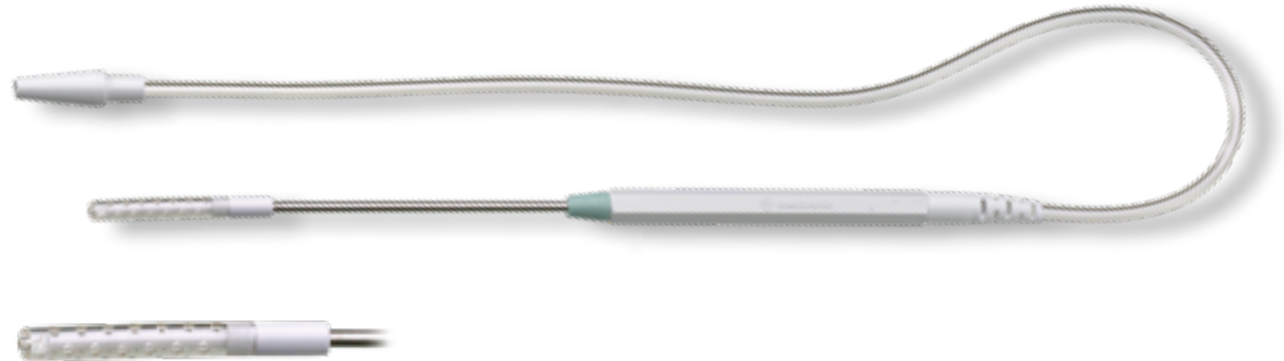
Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.





## DLP™ Intracardiac Suction Tube

This suction tube features a comfortable hand grip. The tip is made from a malleable stainless steel shaft, which allows the surgeon to gently shape to a desired preference. The DLP Intracardiac Suction device offers a perforated pool tip to minimize the possibility of tissue occlusion while maintaining an opportunity for drainage. This suction tube is equipped with a length of tubing terminating with a 1/4 inch (0.64 cm) connector.



6 in (15.2 cm) overall length

Perforated pool tip

10060

10 Fr (3.3 mm) shaft with 20 Fr (6.7 mm) tip (28 holes in tip)

20 per carton

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### Important Safety Information

Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.





## DLP™ Rigid Suction Tubes

These suction tubes feature a comfortable hand grip. The tip shaft is made from rigid stainless steel. The Macro Sucker offers a fluted pool tip to minimize the possibility of tissue occlusion while maintaining an opportunity for drainage. The Mini Sucker has a soft, vented tip designed to clear blood from the surgical site with gentle suction.



**7 in (18.0 cm)**  
approx. shaft and tip length

### Macro Sucker

<b>10061</b>	20 Fr (6.7 mm) tip with 16 Fr (5.3 mm) shaft
--------------	--

20 per carton



**4.75 in (12.1 cm)**  
approx. shaft and tip length

### Mini Sucker

<b>10062</b>	9 Fr (3.0 mm) tip with 11 Fr (3.7 mm) shaft
--------------	---

20 per carton



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### Important Safety Information

Neither Model 10061 nor Model 10062 should be placed through the mitral valve. The Pericardial Sump (Model 12010) is not intended to be placed through a valve to drain a closed cardiac chamber. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.





## DLP™ Pericardial Sump

This sump features a fluted tip that 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 connector.



**15 in (38.1 cm) overall length**

### Weighted tip

<b>12010</b>	20 Fr (6.7 mm), 1/4 in (0.64 cm) connector
--------------	--

*20 per carton*

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### Important Safety Information

Neither Model 10061 nor Model 10062 should be placed through the mitral valve. The Pericardial Sump (Model 12010) is not intended to be placed through a valve to drain a closed cardiac chamber. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.





## DLP™ Pericardial/Intracardiac Sump

This sump features a weighted perforated pool tip to minimize the possibility of tissue occlusion while maintaining an opportunity for drainage. The perforated tip is attached to tubing that terminates with a 1/4 inch (0.64 cm) connector.



**15 in (38.1 cm) overall length**

### Weighted tip

12112	20 Fr (6.7 mm)
-------	----------------

*20 per carton*

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## DLP™ Intracardiac Sumps

These sumps feature a perforated pool tip to minimize the possibility of tissue occlusion while maintaining an opportunity for drainage. These sumps are available in pediatric and adult sizes. The perforated tip is attached to tubing that terminates with a 1/4 inch (0.64 cm) connector.



### 12 in (30.5 cm) overall length

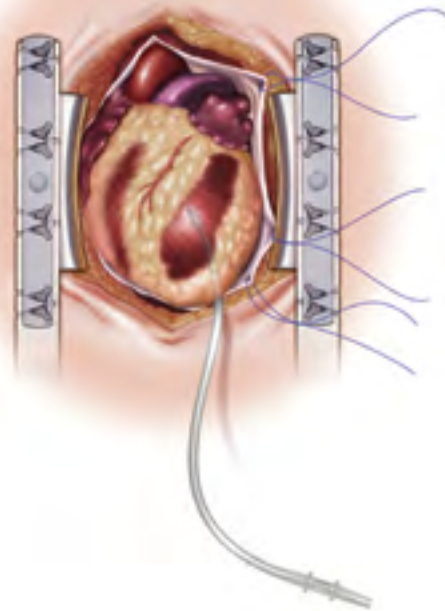
12013	12 Fr (4.0 mm) (10 holes in tip)
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20 per carton

### 15 in (38.1 cm) overall length

12012	20 Fr (6.7 mm) (28 holes in tip)
-------	-------------------------------------

20 per carton



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### Important Safety Information

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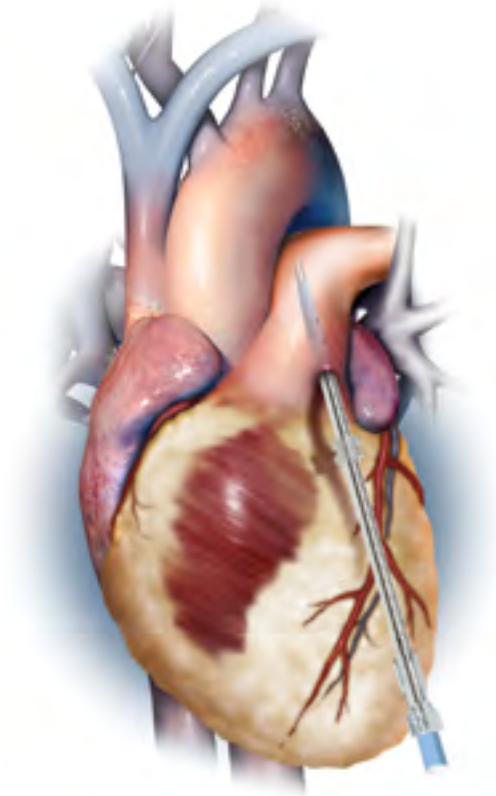
## DLP™ Pulmonary Artery Vent Cannula

This cannula is used to empty the left atrium via the pulmonary vasculature. It features a soft, pliable tip 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.



6 in (15.2 cm) overall length

12004	16 Fr (5.3 mm) (12 holes in tip)
20 per carton	



### Important Safety Information

With DLP pulmonary artery vent cannulae, the degree of suction should be monitored to reduce the possibility of air embolism. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.

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## DLP™ Aortic Air Aspirating Needle

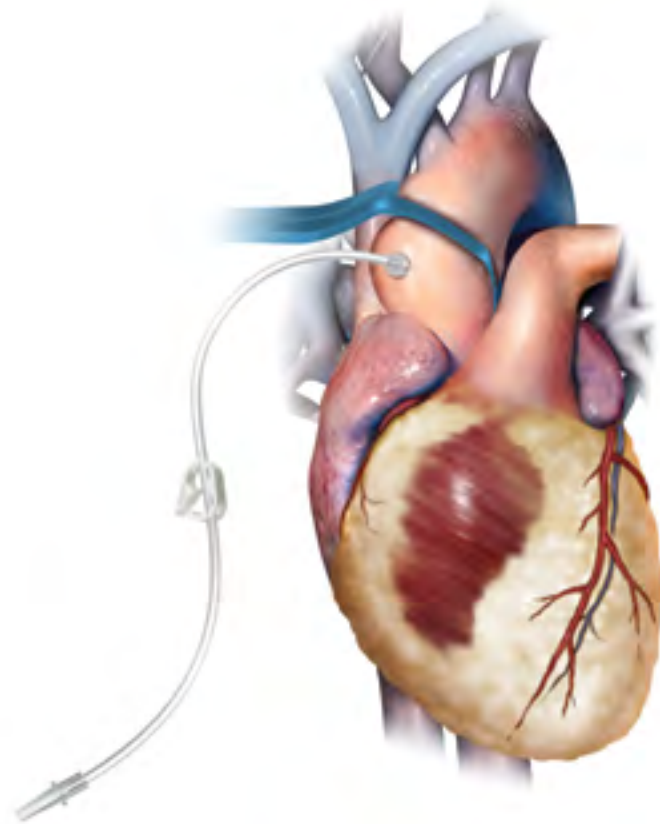
This needle features a stainless steel needle with two side slots and flange. The needle is attached to soft, flexible tubing with a clamp and terminates with a 1/4 inch (0.64 cm) connector. This product is used for aspirating air from the ascending aorta.



11.5 in (29.2 cm) overall length

12006	16 ga (5 Fr)
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20 per carton



### Important Safety Information

With DLP pulmonary artery vent cannulae, the degree of suction should be monitored to reduce the possibility of air embolism. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.

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## 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, or malleable bodies with depth markings. These vents are available in pediatric and adult sizes. 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 inch (0.64 cm) connector.



### PVC 13 in (33.0 cm) overall length

Preformed 1.5 in (3.8 cm) tip and vented connector

12008	10 Fr (3.3 mm) (8 holes in tip)
-------	------------------------------------

20 per carton

Preformed 2 in (5.1 cm) tip and vented connector

12001	13 Fr (4.3 mm) (14 holes in tip)
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20 per carton

2 in (5.1 cm) tip, vented connector, and malleable introducer

12101	13 Fr (4.3 mm) (14 holes in tip)
-------	-------------------------------------

20 per carton

### PVC 15 in (38.1 cm) overall length

Malleable body and vented connector

12110	10 Fr (3.3 mm) (9 holes in tip)
-------	------------------------------------

12113	13 Fr (4.3 mm) (9 holes in tip)
-------	------------------------------------

12115	15 Fr (5.0 mm) (20 holes in tip)
-------	-------------------------------------

20 per carton



### PVC 15 in (38.1 cm) overall length

Malleable body and non-vented connector

12116	16 Fr (5.3 mm) (11 holes in tip)
-------	-------------------------------------

12118	18 Fr (6.0 mm) (11 holes in tip)
-------	-------------------------------------

20 per carton

### Silicone 16 in (40.6 cm) overall length

Non-vented connector and malleable introducer

12016	16 Fr (5.3 mm) (20 holes in tip)
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12002	20 Fr (6.7 mm) (24 holes in tip)
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Non-vented connector and preformed introducer

12220	20 Fr (6.7 mm) (24 holes in tip)
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20 per carton

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#### Important Safety Information

The degree of suction should be monitored to reduce the possibility of air embolism and overdistention of the left ventricle. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.

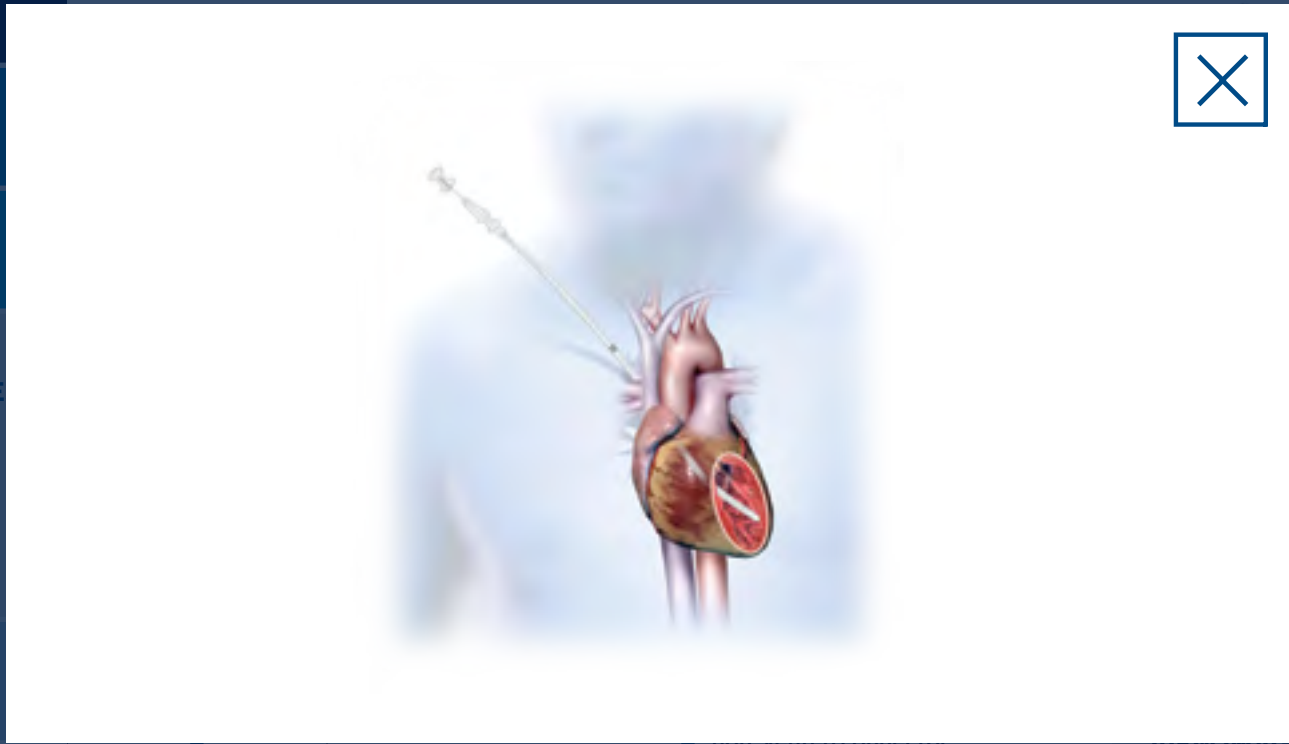
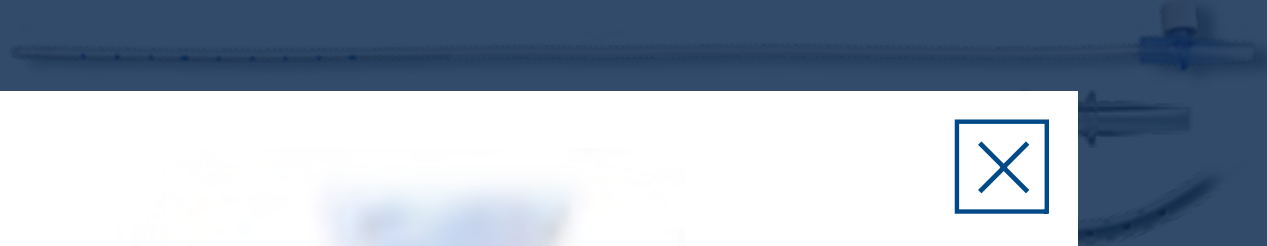
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## DLP™ Left Heart Vent Catheters

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, or malleable bodies with depth markings. These vents are available in pediatric and adult sizes. 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 inch (0.64 cm) connector.



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0.6 cm) overall length

connector  
introducer

Fr (5.3 mm)  
(11 holes in tip)

Fr (6.7 mm)  
(11 holes in tip)

connector and  
roducer

Fr (6.7 mm)  
(11 holes in tip)

20 per carton

non-vented connector

12116 16 Fr (5.3 mm)  
(11 holes in tip)

12118 18 Fr (6.0 mm)  
(11 holes in tip)

20 per carton

### Important Safety Information

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Surgical support products  
are designed to provide  
timesaving techniques and  
ease of use — and to  
facilitate the remainder of  
the surgical procedure. We  
offer a wide range of  
products to ensure that your  
specific needs are met.





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[DLP™ Tourniquet Sets >](#)

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[DLP™ I.M.A. Cannula >](#)

[DLP™ Arteriotomy Cannulae >](#)

[DLP™ Electro-surgical Knife Cleaner >](#)

[DLP™ Phrenic Nerve Pads >](#)

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[DLP™ Left Atrial Pressure Monitoring Catheter Placement Sets >](#)

[DLP™ IV-decanter >](#)

[DLP™ Rapid Prime Set >](#)

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The largest cannula  
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Surgical support products are designed to provide timesaving techniques and ease of use — and to facilitate the remainder of the surgical procedure. We offer a wide range of products to ensure that your specific needs are met.





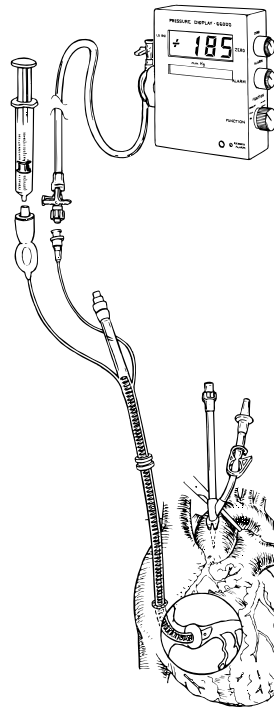
## DLP™ Disposable Pressure Display Sets

These display sets are for use with our Pressure Display Box (66000). They feature a silicone diaphragm inside a plastic dome with a stopcock that attaches to the transducer fitting on the Pressure Display Box. This dome is attached to a coil of tubing that terminates with either a male luer or a stopcock for convenient handling.

45 in (1.14 m) overall length

61000	stopcock
62000	male luer

10 per carton



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## DLP™ Tourniquet Sets

These tourniquet sets consist of color-coded tubes in varying lengths and color combinations. They are available for pediatric and adult uses. Wire snares are included with the tube sets.

### Standard sets

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

79016	12 Fr [3–4 in (10.2 cm) bronze, 3–6 in (15.2 cm) bronze, 2 - snares]
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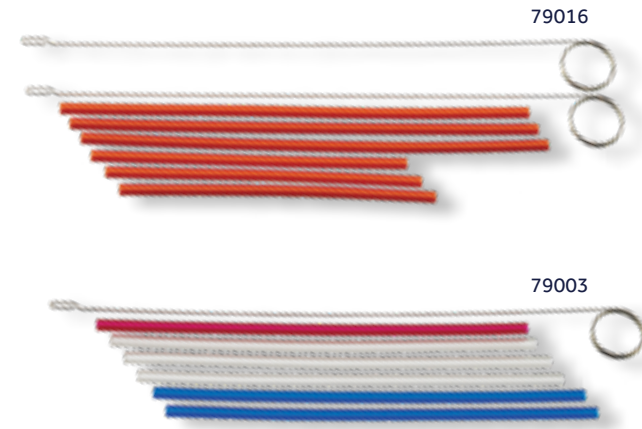
40 sets per carton

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

79003	12 Fr (1 - red, 2 - blue, 3 - clear, 1 - snare)
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79015	12 Fr (1 - red, 2 - blue, 5 - clear, 2 - snares)
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40 sets per carton



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### Important Safety Information

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## DLP™ Tourniquet Sets, cont'd.

These tourniquet sets consist of color-coded tubes in varying lengths and color combinations. They are available for pediatric and adult uses. Wire snares are included with the tube sets.

### Standard sets

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

79004	12 Fr (1 - red, 1 - blue, 1 - snare)
79006	12 Fr (1 - red, 1 - blue, 3 - clear, 1 - snare)

40 sets per carton

79022	12 Fr (6 - small O.D. white radiopaque, 1 - snare)
79023	19 Fr (3 - large O.D. white radiopaque, 1 - snare)

20 sets per carton

79026	12 Fr (2 - red, 2 - blue, 2 - clear) and 16 Fr (2 - large O.D. clear, 1 - snare)
79027	12 Fr (2 - red, 1 - blue, 1 - snare)

40 sets per carton



79022

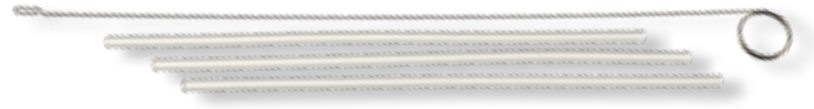


### Vena cava sets

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

79005	12 Fr (3 - clear, 1 - snare)
79009	12 Fr (4 - clear, 1 - snare)

40 sets per carton



79005

### Important Safety Information

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## TourniKwik™ Tourniquet Sets

These tourniquet sets consist of bronze-colored tubes in varying lengths that 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.

### Tube length of 6 in (15.2 cm)

<b>79010</b>	12 Fr (2 - tubes, 1 - snare)
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<b>79011</b>	12 Fr (4 - tubes, 1 - snare)
--------------	------------------------------

40 sets per carton

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

<b>79012</b>	12 Fr (2 - tubes, 1 - snare)
--------------	------------------------------

<b>79013</b>	12 Fr (4 - tubes, 1 - snare)
--------------	------------------------------

40 sets per carton



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### Important Safety Information

Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.





## Sure-Snare™ Tourniquet Sets

These tourniquet sets consist of bronze-colored tubes in varying lengths that 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.

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Tube length of 5 in (12.7 cm)

79020	22 Fr (2 - tubes, 2 - umbilical tapes, 2 - plastic snares)
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20 sets per carton



Tube length of 7.5 in (19.1 cm)

79008	12 Fr (2 - tubes, 1 - wire snare)
-------	-----------------------------------

20 sets per carton



### Important Safety Information

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## 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.

30005



30007



**2 in (5.1 cm) overall length**

**Clear body**

30003	3 mm blunt tip
-------	----------------

30004	2 mm blunt tip
-------	----------------

30005	4 mm acorn tip
-------	----------------

30007	3 mm beveled tip
-------	------------------

40 per carton

30001



**2.5 in (6.4 cm) overall length**

**Clear body with one-way valve**

30000	3 mm beveled tip
-------	------------------

30001	3 mm blunt tip
-------	----------------

40 per carton

30022



30006



**2 in (5.1 cm) overall length**

**Clear body with radiopaque band**

30022	3 mm blunt tip
-------	----------------

20 per carton

**2 in (5.1 cm) overall length**

**Radiopaque body**

30006	3 mm beveled tip
-------	------------------

30023	3 mm blunt tip
-------	----------------

40 per carton



**2.5 in (6.4 cm) overall length**

**Radiopaque body with one-way valve**

30021	3 mm blunt tip
-------	----------------

40 per carton

### Important Safety Information

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### DLP™ I.M.A. Cannula

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

#### 1.8 in (4.6 cm) overall length

31001	1 mm tip
-------	----------

20 per carton



### DLP™ Arteriotomy Cannulae

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

#### 1.3 in (3.3 cm) overall length

31002	2 mm tip
-------	----------

31003	3 mm tip
-------	----------

20 per carton



#### 2.3 in (5.8 cm) overall length

31102	2 mm tip
-------	----------

31103	3 mm tip
-------	----------

31104	4 mm tip
-------	----------

31105	5 mm tip
-------	----------

31106	6 mm tip
-------	----------

20 per carton



#### Important Safety Information

Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.





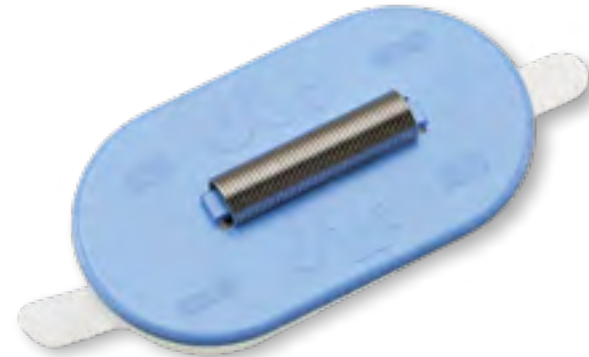
## DLP™ Electro-surgical Knife Cleaner

This device keeps electro-surgical knife blades clean with a quick swipe. It 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.

**2.5 in (6.4 cm) overall length**

**60001**

*40 per carton*



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### **Important Safety Information**

Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.





## 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 and contain slots. These slots can hold a pericardial sump in place. A radiopaque marker is tied to the pad.

<b>38002</b>	medium
<b>38003</b>	large

*10 per carton*

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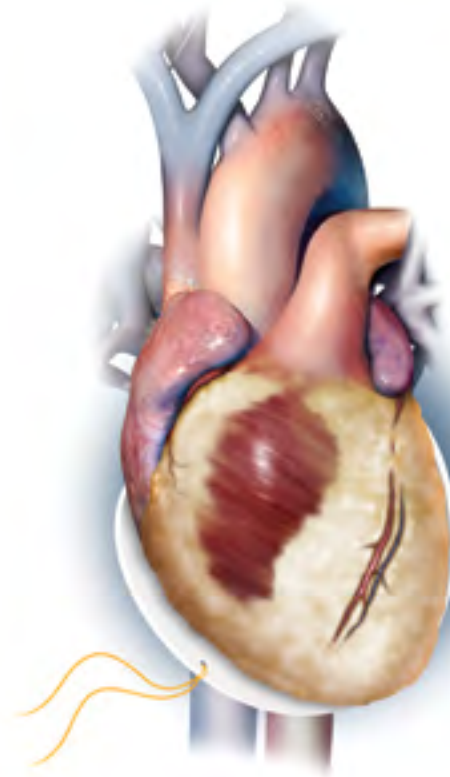
**SUCTION CIRCUIT AND  
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### **Important Safety Information**

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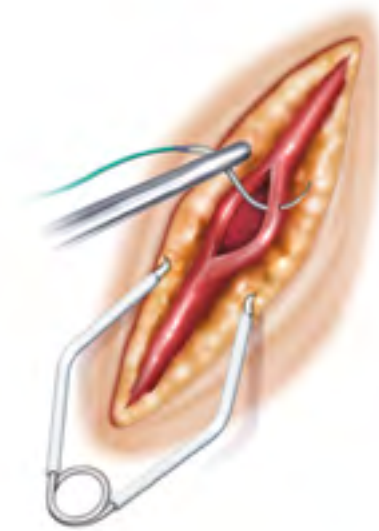




## DLP™ Coronary Artery Retraction Clips

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.

<b>16130</b>	3.0 mm prong length
<b>16150</b>	5.0 mm prong length
<i>10 per carton</i>	



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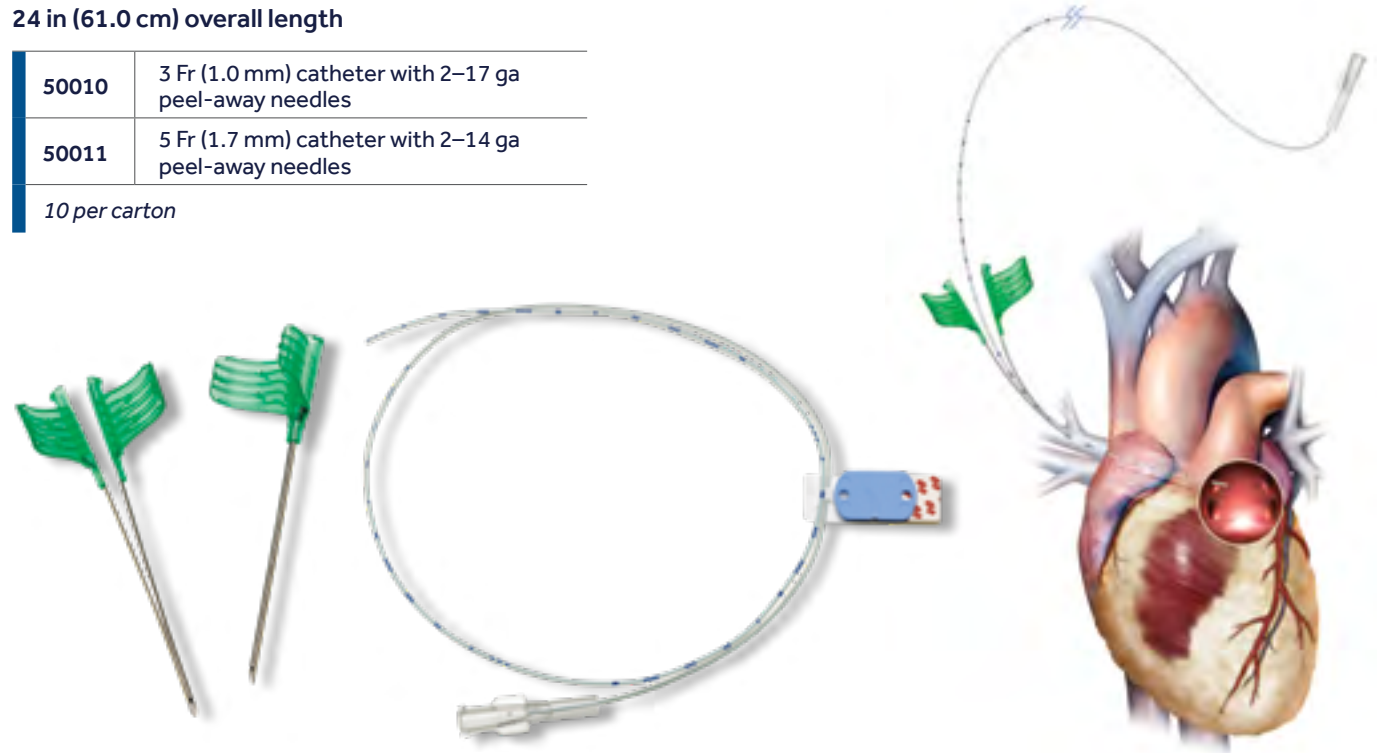


## DLP™ Left Atrial Pressure Monitoring Catheter Placement Sets

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

### 24 in (61.0 cm) overall 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
10 per carton	



Catheter Models 50010 and 50011 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.

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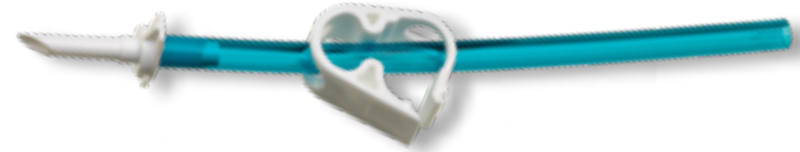


## DLP™ IV-decanter

This decanter includes several features to facilitate aseptic decanting of fluids from intravenous containers. It includes a large-bore spike that is attached to flexible tubing. This decanter also features a clamp, thereby eliminating spillage, reducing contamination.

**8.5 in (21.6 cm) overall length**

<b>40040</b>	Flexible tubing and clamp
<i>20 per carton</i>	



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## DLP™ Rapid Prime Set

This set facilitates the transfer of fluids during the priming of the circuit. It features a large-bore spike attached to flexible tubing with a clamp, and terminates with a male luer.

**14 in (35.6 cm) overall length**

**With male luer**

**10021**

*10 per carton*



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The Medtronic Cardio-Kit is designed for you. Medtronic understands that each surgeon and cardiopulmonary circuit is unique, and we offer you the ability to customize a Cardio-Kit of Medtronic cannulae to your specifications. The Cardio-Kit provides simplified packaging, procedure efficiency, and a streamlined ordering process designed to meet your specific needs.





# CARDIO-KITS AND PACKS

[DLP™ Cardio-Kits >](#)

[DLP™ Cardioplegia Pack >](#)

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## DLP™ Cardio-Kits

Instead of ordering all your products separately, have a custom kit made specifically for you. Medtronic Cardio-Kits contain invaluable tools for surgeons, nurses, and purchasing teams.



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### Built to Your Specification

This enables the surgical team to choose the Medtronic DLP cannulae they prefer.

### Simplified Packaging

Keeps products neatly organized and reduces unnecessary waste of multiple product pouches.

### Easy to Order

Instead of ordering multiple product codes separately, only one code is ordered and stocked.

### Easy to Use

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

### Personalized Tray and Label

The products you need are in one package with a label that we'll personalize with the surgeon's name, procedure being performed, or other title of your choice.

*5 kits/packs per carton*

### Important Safety Information

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## DLP™ Cardioplegia Pack

### Pack Information

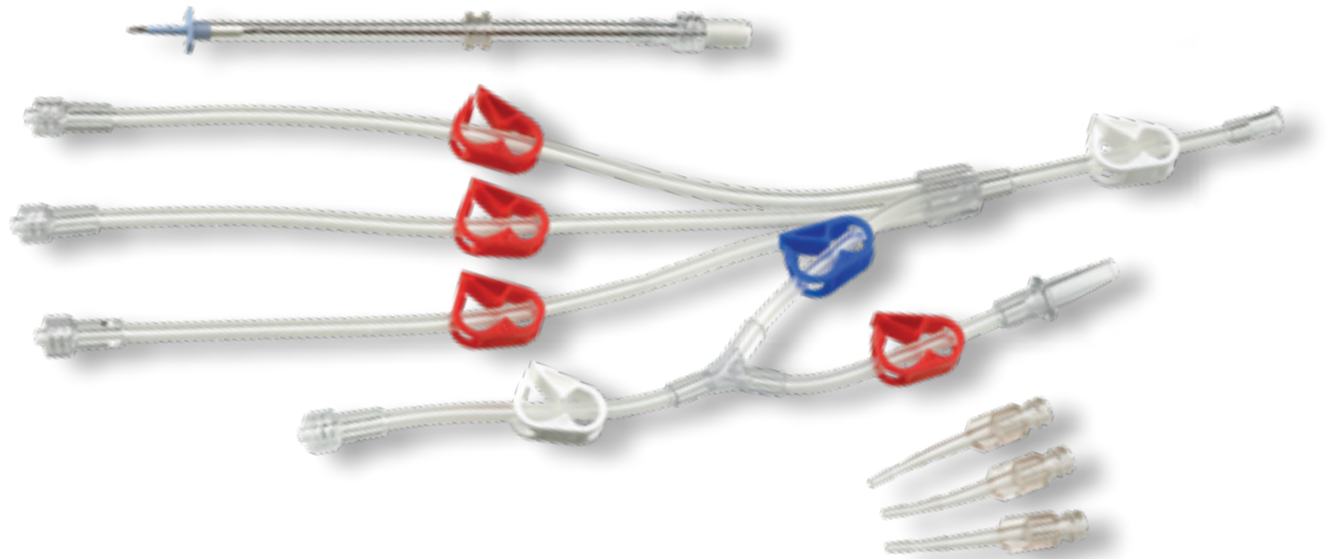
11440

1 each 10014 DLP Aortic Root Cannula

1 each 14001 DLP Multiple Perfusion Set

3 each 30003 DLP Vessel Cannulae

10 per carton



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<b>4948</b>	Soft-Flow®* Extended Arterial Cannulae, 21 Fr (7.0 mm)	>	<b>6392</b>	Soft-Flow®* Angled Arterial Cannulae, 21 Fr (7.0 mm)	>
<b>4949</b>	Soft-Flow®* Extended Arterial Cannulae, 21 Fr (7.0 mm)	>	<b>6394</b>	Soft-Flow®* Angled Arterial Cannulae, 21 Fr (7.0 mm)	>
<b>4950</b>	Soft-Flow®* Extended Arterial Cannulae, 24 Fr (8.0 mm)	>	<b>7071</b>	Soft-Flow®* Angled Arterial Cannulae, 18 Fr (6.0 mm)	>
<b>4951</b>	Soft-Flow®* Extended Arterial Cannulae, 24 Fr (8.0 mm)	>	<b>7072</b>	Soft-Flow®* Angled Arterial Cannulae, 18 Fr (6.0 mm)	>
<b>5761</b>	Soft-Flow®* Angled Arterial Cannulae, 21 Fr (7.0 mm)	>	<b>7080</b>	Soft-Flow®* Angled Arterial Cannulae, 18 Fr (6.0 mm)	>
<b>5762</b>	Soft-Flow®* Angled Arterial Cannulae, 24 Fr (8.0 mm)	>	<b>10001</b>	DLP™ Straight Venting Adapters	>
<b>5767</b>	Soft-Flow®* Angled Arterial Cannulae, 21 Fr (7.0 mm)	>	<b>10001K</b>	DLP™ Straight Venting Adapters	>
<b>5768</b>	Soft-Flow®* Angled Arterial Cannulae, 24 Fr (8.0 mm)	>	<b>10003</b>	DLP™ “Y” Type Recirculating Adapters	>
<b>5798</b>	Soft-Flow®* Straight Arterial Cannulae, 21 Fr (7.0 mm)	>	<b>10004</b>	DLP™ “Y” Type Coronary Perfusion Adapters	>
<b>5841</b>	Soft-Flow®* Straight Arterial Cannulae, 24 Fr (8.0 mm)	>	<b>10004D</b>	DLP™ “Y” Type Coronary Perfusion Adapters	>
<b>5842</b>	Soft-Flow®* Straight Arterial Cannulae, 21 Fr (7.0 mm)	>	<b>10005</b>	DLP™ “Y” Type Venting Adapters	>
<b>5843</b>	Soft-Flow®* Straight Arterial Cannulae, 24 Fr (8.0 mm)	>	<b>10005BH</b>	DLP™ “Y” Type Adapters	>
<b>6384</b>	Soft-Flow®* Angled Arterial Cannulae, 24 Fr (8.0 mm)	>	<b>10005OS</b>	DLP™ “Y” Type Adapters	>
<b>6386</b>	Soft-Flow®* Angled Arterial Cannulae, 24 Fr (8.0 mm)	>	<b>10007</b>	DLP™ Perfusion Adapters, ¼ in (0.64 cm) barbed connector	>
			<b>10008</b>	DLP™ Perfusion Adapters, ⅜ in (0.95 cm) barbed connector	>
			<b>10009</b>	DLP™ Aortic Root Cannulae, 9 ga (11 Fr)	>
			<b>10010</b>	DLP™ Vein Graft Cannula	>







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<b>10012</b>	DLP™ Aortic Root Cannulae, 12 ga (9 Fr)	>	<b>10114</b>	DLP™ Aortic Root Cannulae, 14 ga (7 Fr)	>
<b>10014</b>	DLP™ Aortic Root Cannulae, 14 ga (7 Fr)	>	<b>10218</b>	DLP™ Aortic Root Cannulae, 18 ga (4 Fr)	>
<b>10016</b>	DLP™ Aortic Root Cannulae, 16 ga (5 Fr)	>	<b>10313</b>	DLP™ Cardioplegia Needles, 13 ga (8 Fr)	>
<b>10018</b>	DLP™ Aortic Root Cannulae, 18 ga (4 Fr)	>	<b>10534</b>	DLP™ “Y” Type Venting Adapters	>
<b>10021</b>	DLP™ Rapid Prime Set	>	<b>10700</b>	DLP™ “Y” Type Coronary Perfusion Adapters	>
<b>10022</b>	DLP™ Perfusion Adapters, ¼ in (0.64 cm) barbed connector	>	<b>10706</b>	DLP™ “Y” Type Coronary Perfusion Adapters	>
<b>10050</b>	DLP™ Cardiac Suction Tubes, 6 Fr (2.0 mm)	>	<b>10710</b>	DLP™ “Y” Type Coronary Perfusion Adapters	>
<b>10051</b>	DLP™ Cardiac Suction Tubes, 6 Fr (2.0 mm)	>	<b>11001</b>	DLP™ Extension Line Adapters, 10 in (25.4 cm) length	>
<b>10052</b>	DLP™ Cardiac Suction Tubes, 6 Fr (2.0 mm)	>	<b>11001G</b>	DLP™ Extension Line Adapters, 20 in (50.8 cm) length	>
<b>10053</b>	DLP™ Cardiac Suction Tubes, 6 Fr (2.0 mm)	>	<b>11012</b>	DLP™ Aortic Root Cannulae, 12 ga (9 Fr)	>
<b>10060</b>	DLP™ Intracardiac Suction Tube, 10 Fr (3.3 mm)	>	<b>11012L</b>	MiAR™ Cannulae, 12 ga (9 Fr)	>
<b>10061</b>	DLP™ Rigid Suction Tubes, Macro Sucker, 20 Fr (6.7 mm)	>	<b>11014</b>	DLP™ Aortic Root Cannulae, 14 ga (7 Fr)	>
<b>10062</b>	DLP™ Rigid Suction Tubes, Mini Sucker, 9 Fr (3.0 mm)	>	<b>11014L</b>	MiAR™ Cannulae, 14 ga (7 Fr)	>
<b>10112</b>	DLP™ Aortic Root Cannulae, 12 ga (9 Fr)	>	<b>11316</b>	DLP™ Cardioplegia Needles, 16 ga (5 Fr)	>
		>	<b>11440</b>	DLP™ Cardioplegia Pack	>





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<b>12001</b>	DLP™ Left Heart Vent Catheters, 13 Fr (4.3 mm)	>	<b>12116</b>	DLP™ Left Heart Vent Catheters, 16 Fr (5.3 mm)	>
<b>12002</b>	DLP™ Left Heart Vent Catheters, 20 Fr (6.7 mm)	>	<b>12118</b>	DLP™ Left Heart Vent Catheters, 18 Fr (6.0 mm)	>
<b>12004</b>	DLP™ Pulmonary Artery Vent Cannula, 16 Fr (5.3 mm)	>	<b>12218</b>	DLP™ Aortic Root Cannulae, 18 ga (4 Fr)	>
<b>12006</b>	DLP™ Aortic Air Aspirating Needle, 16 ga (5 Fr)	>	<b>12220</b>	DLP™ Left Heart Vent Catheters, 20 Fr (6.7 mm)	>
<b>12008</b>	DLP™ Left Heart Vent Catheters, 10 Fr (3.3 mm)	>	<b>13000</b>	ARISS™ Perfusion Switches	>
<b>12010</b>	DLP™ Pericardial Sumps, ¼ in (0.64 cm) connector	>	<b>13001</b>	DLP™ Antegrade/Retrograde Adapter	>
<b>12012</b>	DLP™ Intracardiac Sumps, 20 Fr (6.7 mm)	>	<b>13002</b>	DLP™ Perfusion/Venting Adapter	>
<b>12013</b>	DLP™ Intracardiac Sumps, 12 Fr (4.0 mm)	>	<b>13003</b>	DLP™ Cardioplegia Management Set	>
<b>12016</b>	DLP™ Left Heart Vent Catheters, 16 Fr (5.3 mm)	>	<b>13004</b>	ARISS™ Perfusion Switches	>
<b>12101</b>	DLP™ Left Heart Vent Catheters, 13 Fr (4.3 mm)	>	<b>14000</b>	DLP™ Multiple Perfusion Sets	>
<b>12110</b>	DLP™ Left Heart Vent Catheters, 10 Fr (3.3 mm)	>	<b>14001</b>	DLP™ Multiple Perfusion Sets	>
<b>12112</b>	DLP™ Pericardial/Intracardiac Sumps, 20 Fr (6.7 mm)	>	<b>14003</b>	DLP™ Multiple Perfusion Sets	>
<b>12113</b>	DLP™ Left Heart Vent Catheters, 13 Fr (4.3 mm)	>	<b>14006</b>	DLP™ Multiple Perfusion Sets	>
<b>12115</b>	DLP™ Left Heart Vent Catheters, 15 Fr (5.0 mm)	>	<b>14007</b>	DLP™ Multiple Perfusion Sets	>
			<b>14008</b>	DLP™ Multiple Perfusion Sets	>
			<b>14013</b>	DLP™ Multiple Perfusion Sets	>
			<b>14017</b>	DLP™ Multiple Perfusion Sets	>
			<b>14031</b>	DLP™ Multiple Perfusion Sets	>
			<b>15004</b>	DLP™ Cardioplegia Adapter with Pressure Port	>





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<b>16130</b>	DLP™ Coronary Artery Retraction Clips	>	<b>24009</b>	DLP™ Aortic Root Cannulae with Vent Line, 9 ga (11 Fr)	>
<b>16150</b>	DLP™ Coronary Artery Retraction Clips	>	<b>25009</b>	DLP™ Pressure Monitoring Extension Line Adapters	>
<b>20009</b>	DLP™ Aortic Root Cannulae with Vent Line, 9 ga (11 Fr)	>	<b>25010</b>	DLP™ Pressure Monitoring Extension Line Adapters	>
<b>20012</b>	DLP™ Aortic Root Cannulae with Vent Line, 12 ga (9 Fr)	>	<b>30000</b>	DLP™ Vessel Cannulae, 3 mm beveled tip	>
<b>20012S</b>	DLP™ Aortic Root Cannulae with Vent Line, 12 ga (9 Fr)	>	<b>30001</b>	DLP™ Vessel Cannulae, 3 mm blunt tip	>
<b>20014</b>	DLP™ Aortic Root Cannulae with Vent Line, 14 ga (7 Fr)	>	<b>30003</b>	DLP™ Vessel Cannulae, 3 mm blunt tip	>
<b>20014L</b>	DLP™ Aortic Root Cannulae with Vent Line, 14 ga (7 Fr)	>	<b>30004</b>	DLP™ Vessel Cannulae, 2 mm blunt tip	>
<b>20016</b>	DLP™ Aortic Root Cannulae with Vent Line, 16 ga (5 Fr)	>	<b>30005</b>	DLP™ Vessel Cannulae, 4 mm acorn tip	>
<b>20112</b>	DLP™ Aortic Root Cannulae with Vent Line, 12 ga (9 Fr)	>	<b>30006</b>	DLP™ Vessel Cannulae, 3 mm beveled tip	>
<b>20114</b>	DLP™ Aortic Root Cannulae with Vent Line, 14 ga (7 Fr)	>	<b>30007</b>	DLP™ Vessel Cannulae, 3 mm beveled tip	>
<b>20114HWF</b>	DLP™ Aortic Root Cannulae with Vent Line, 14 ga (7 Fr)	>	<b>30010</b>	DLP™ Coronary Artery Ostial Cannulae, 10 Fr (3.3 mm)	>
<b>20114WF</b>	DLP™ Aortic Root Cannulae with Vent Line, 14 ga (7 Fr)	>	<b>30011</b>	DLP™ Coronary Artery Ostial Cannulae	>
<b>21012</b>	DLP™ Aortic Root Cannulae with Vent Line, 12 ga (9 Fr)	>	<b>30012</b>	DLP™ Coronary Artery Ostial Cannulae, 12 Fr (4.0 mm)	>
<b>21014</b>	DLP™ Aortic Root Cannulae with Vent Line, 14 ga (7 Fr)	>	<b>30014</b>	DLP™ Coronary Artery Ostial Cannulae, 14 Fr (4.7 mm)	>
<b>23009</b>	DLP™ Aortic Root Cannulae, 9 ga (11 Fr)	>			





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<b>30021</b>	DLP™ Vessel Cannulae, 3 mm blunt tip	>	<b>30317</b>	DLP™ Silicone Coronary Artery Ostial Cannulae, 17 Fr (5.7 mm)	>
<b>30022</b>	DLP™ Vessel Cannulae, 3 mm blunt tip	>	<b>30320</b>	DLP™ Silicone Coronary Artery Ostial Cannulae, 20 Fr (6.7 mm)	>
<b>30023</b>	DLP™ Vessel Cannulae, 3 mm blunt tip	>	<b>30401</b>	DLP™ Dual Lumen Aortic Root Cannulae with Vent Line, 12 ga (9 Fr)	>
<b>30050</b>	DLP™ Coronary Artery Ostial Cannulae	>	<b>31001</b>	DLP™ I.M.A. Cannulae, 1 mm tip	>
<b>30055</b>	DLP™ Coronary Artery Ostial Cannulae	>	<b>31002</b>	DLP™ Arteriotomy Cannulae, 2 mm tip	>
<b>30110</b>	DLP™ High Flow Coronary Artery Ostial Cannulae, 10 Fr (3.3 mm)	>	<b>31003</b>	DLP™ Arteriotomy Cannulae, 3 mm tip	>
<b>30112</b>	DLP™ High Flow Coronary Artery Ostial Cannulae, 12 Fr (4.0 mm)	>	<b>31102</b>	DLP™ Arteriotomy Cannulae, 2 mm tip	>
<b>30114</b>	DLP™ High Flow Coronary Artery Ostial Cannulae, 14 Fr (4.7 mm)	>	<b>31103</b>	DLP™ Arteriotomy Cannulae, 3 mm tip	>
<b>30155</b>	DLP™ High Flow Coronary Artery Ostial Cannulae, 10 Fr (3.3 mm)	>	<b>31104</b>	DLP™ Arteriotomy Cannulae, 4 mm tip	>
<b>30212</b>	DLP™ High Flow Coronary Artery Ostial Cannulae, 12 Fr (4.0 mm)	>	<b>31105</b>	DLP™ Arteriotomy Cannulae, 5 mm tip	>
<b>30255</b>	DLP™ High Flow Coronary Artery Ostial Cannulae, 10 Fr (3.3 mm)	>	<b>31106</b>	DLP™ Arteriotomy Cannulae, 6 mm tip	>
<b>30315</b>	DLP™ Silicone Coronary Artery Ostial Cannulae, 15 Fr (5.0 mm)	>	<b>38002</b>	DLP™ Phrenic Nerve Pads	>
		>	<b>38003</b>	DLP™ Phrenic Nerve Pads	>
		>	<b>40040</b>	DLP™ IV-decanter	>





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<b>50010</b>	DLP™ Left Atrial Pressure Monitoring Catheter Placement Sets, 3 Fr (1.0 mm)	>	<b>66122</b>	DLP™ Single Stage Venous Cannulae, 22 Fr (7.3 mm)	>
<b>50011</b>	DLP™ Left Atrial Pressure Monitoring Catheter Placement Sets, 5 Fr (1.7 mm)	>	<b>66124</b>	DLP™ Single Stage Venous Cannulae, 24 Fr (8.0 mm)	>
<b>57414</b>	DLP™ Femoral Arterial Cannulae, 14 Fr (4.7 mm)	>	<b>66126</b>	DLP™ Single Stage Venous Cannulae, 26 Fr (8.7 mm)	>
<b>57417</b>	DLP™ Femoral Arterial Cannulae, 17 Fr (5.7 mm)	>	<b>66128</b>	DLP™ Single Stage Venous Cannulae, 28 Fr (9.3 mm)	>
<b>57421</b>	DLP™ Femoral Arterial Cannulae, 21 Fr (7.0 mm)	>	<b>66130</b>	DLP™ Single Stage Venous Cannulae, 30 Fr (10.0 mm)	>
<b>58521</b>	DLP™ Femoral Venous Cannulae, 21 Fr (7.0 mm)	>	<b>66132</b>	DLP™ Single Stage Venous Cannulae, 32 Fr (10.7 mm)	>
<b>60001</b>	DLP™ Electro-surgical Knife Cleaner	>	<b>66134</b>	DLP™ Single Stage Venous Cannulae, 34 Fr (11.3 mm)	>
<b>61000</b>	DLP™ Disposable Pressure Display Sets	>	<b>66136</b>	DLP™ Single Stage Venous Cannulae, 36 Fr (12.0 mm)	>
<b>62000</b>	DLP™ Disposable Pressure Display Sets	>	<b>66140</b>	DLP™ Single Stage Venous Cannulae, 40 Fr (13.3 mm)	>
<b>66112</b>	DLP™ Single Stage Venous Cannulae, 12 Fr (4.0 mm)	>	<b>66236</b>	DLP™ Single Stage Venous Cannulae, 36 Fr (12.0 mm)	>
<b>66114</b>	DLP™ Single Stage Venous Cannulae, 14 Fr. (4.7 mm)	>	<b>67312</b>	DLP™ Single Stage Venous Cannulae with Right Angle Metal Tip, 12 Fr (4.0 mm)	>
<b>66116</b>	DLP™ Single Stage Venous Cannulae, 16 Fr (5.3 mm)	>	<b>67314</b>	DLP™ Single Stage Venous Cannulae with Right Angle Metal Tip, 14 Fr (4.7 mm)	>
<b>66118</b>	DLP™ Single Stage Venous Cannulae, 18 Fr (6.0 mm)	>			
<b>66120</b>	DLP™ Single Stage Venous Cannulae, 20 Fr (6.7 mm)	>			





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<b>67316</b>	DLP™ Single Stage Venous Cannulae with Right Angle Metal Tip, 16 Fr (5.3 mm)	>	<b>67526</b>	DLP™ Right Angle Single Stage Venous Cannulae, 26 Fr (8.7 mm)	>
<b>67318</b>	DLP™ Single Stage Venous Cannulae with Right Angle Metal Tip, 18 Fr (6.0 mm)	>	<b>67528</b>	DLP™ Right Angle Single Stage Venous Cannulae, 28 Fr (9.3 mm)	>
<b>67320</b>	DLP™ Single Stage Venous Cannulae with Right Angle Metal Tip, 20 Fr (6.7 mm)	>	<b>67530</b>	DLP™ Right Angle Single Stage Venous Cannulae, 30 Fr (10.0 mm)	>
<b>67512</b>	DLP™ Right Angle Single Stage Venous Cannulae, 12 Fr (4.0 mm)	>	<b>67532</b>	DLP™ Right Angle Single Stage Venous Cannulae, 32 Fr (10.7 mm)	>
<b>67514</b>	DLP™ Right Angle Single Stage Venous Cannulae, 14 Fr (4.7 mm)	>	<b>67534</b>	DLP™ Right Angle Single Stage Venous Cannulae, 34 Fr (11.3 mm)	>
<b>67516</b>	DLP™ Right Angle Single Stage Venous Cannulae, 16 Fr (5.3 mm)	>	<b>67636</b>	DLP™ Right Angle Single Stage Venous Cannulae, 36 Fr (12.0 mm)	>
<b>67518</b>	DLP™ Right Angle Single Stage Venous Cannulae, 18 Fr (6.0 mm)	>	<b>67638</b>	DLP™ Right Angle Single Stage Venous Cannulae, 38 Fr (12.7 mm)	>
<b>67520</b>	DLP™ Right Angle Single Stage Venous Cannulae, 20 Fr (6.7 mm)	>	<b>68112</b>	DLP™ Malleable Single Stage Venous Cannulae, 12 Fr (4.0 mm)	>
<b>67522</b>	DLP™ Right Angle Single Stage Venous Cannulae, 22 Fr (7.3 mm)	>	<b>68114</b>	DLP™ Malleable Single Stage Venous Cannulae, 14 Fr (4.7 mm)	>
<b>67524</b>	DLP™ Right Angle Single Stage Venous Cannulae, 24 Fr (8.0 mm)	>			





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<b>68116</b>	DLP™ Malleable Single Stage Venous Cannulae, 16 Fr (5.3 mm)	>	<b>68136</b>	DLP™ Malleable Single Stage Venous Cannulae, 36 Fr (12.0 mm)	>
<b>68118</b>	DLP™ Malleable Single Stage Venous Cannulae, 18 Fr (6.0 mm)	>	<b>68138</b>	DLP™ Malleable Single Stage Venous Cannulae, 38 Fr (12.7 mm)	>
<b>68120</b>	DLP™ Malleable Single Stage Venous Cannulae, 20 Fr (6.7 mm)	>	<b>69312</b>	DLP™ Single Stage Venous Cannulae with Right Angle Metal Tip, 12 Fr (4.0 mm)	>
<b>68122</b>	DLP™ Malleable Single Stage Venous Cannulae, 22 Fr (7.3 mm)	>	<b>69314</b>	DLP™ Single Stage Venous Cannulae with Right Angle Metal Tip, 14 Fr (4.7 mm)	>
<b>68124</b>	DLP™ Malleable Single Stage Venous Cannulae, 24 Fr (8.0 mm)	>	<b>69316</b>	DLP™ Single Stage Venous Cannulae with Right Angle Metal Tip, 16 Fr (5.3 mm)	>
<b>68126</b>	DLP™ Malleable Single Stage Venous Cannulae, 26 Fr (8.7 mm)	>	<b>69318</b>	DLP™ Single Stage Venous Cannulae with Right Angle Metal Tip, 18 Fr (6.0 mm)	>
<b>68128</b>	DLP™ Malleable Single Stage Venous Cannulae, 28 Fr (9.3 mm)	>	<b>69320</b>	DLP™ Single Stage Venous Cannulae with Right Angle Metal Tip, 20 Fr (6.7 mm)	>
<b>68130</b>	DLP™ Malleable Single Stage Venous Cannulae, 30 Fr (10.0 mm)	>	<b>69322</b>	DLP™ Single Stage Venous Cannulae with Right Angle Metal Tip, 22 Fr (7.3 mm)	>
<b>68132</b>	DLP™ Malleable Single Stage Venous Cannulae, 32 Fr (10.7 mm)	>	<b>69324</b>	DLP™ Single Stage Venous Cannulae with Right Angle Metal Tip, 24 Fr (8.0 mm)	>
<b>68134</b>	DLP™ Malleable Single Stage Venous Cannulae, 34 Fr (11.3 mm)	>			





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<b>69328</b>	DLP™ Single Stage Venous Cannulae with Right Angle Metal Tip, 28 Fr (9.3 mm)	>	<b>72124</b>	Select Series™ Straight Tip Arterial Cannulae, 24 Fr (8.0 mm)	>
<b>69331</b>	DLP™ Single Stage Venous Cannulae with Right Angle Metal Tip, 31 Fr (10.3 mm)	>	<b>72220</b>	Select Series™ Straight Tip Arterial Cannulae, 20 Fr (6.7 mm)	>
<b>69428</b>	DLP™ Single Stage Venous Cannulae with Right Angle Metal Tip, 28 Fr (9.3 mm)	>	<b>72222</b>	Select Series™ Straight Tip Arterial Cannulae, 22 Fr (7.3 mm)	>
<b>69431</b>	DLP™ Single Stage Venous Cannulae with Right Angle Metal Tip, 31 Fr (10.3 mm)	>	<b>72224</b>	Select Series™ Straight Tip Arterial Cannulae, 24 Fr (8.0 mm)	>
<b>70420</b>	DLP™ Flexible Arch Arterial Cannulae, 20 Fr (6.7 mm)	>	<b>72420</b>	Select Series™ Angled Tip Arterial Cannulae, 20 Fr (6.7 mm)	>
<b>70422</b>	DLP™ Flexible Arch Arterial Cannulae, 22 Fr (7.3 mm)	>	<b>72422</b>	Select Series™ Angled Tip Arterial Cannulae, 22 Fr (7.3 mm)	>
<b>70424</b>	DLP™ Flexible Arch Arterial Cannulae, 24 Fr (8.0 mm)	>	<b>72424</b>	Select Series™ Angled Tip Arterial Cannulae, 24 Fr (8.0 mm)	>
<b>71420</b>	DLP™ Flexible Arch Arterial Cannulae, 20 Fr (6.7 mm)	>	<b>72520</b>	Select Series™ Angled Tip Arterial Cannulae, 20 Fr (6.7 mm)	>
<b>71422</b>	DLP™ Flexible Arch Arterial Cannulae, 22 Fr (7.3 mm)	>	<b>72522</b>	Select Series™ Angled Tip Arterial Cannulae, 22 Fr (7.3 mm)	>
<b>71424</b>	DLP™ Flexible Arch Arterial Cannulae, 24 Fr (8.0 mm)	>	<b>72524</b>	Select Series™ Angled Tip Arterial Cannulae, 24 Fr (8.0 mm)	>
<b>72120</b>	Select Series™ Straight Tip Arterial Cannulae, 20 Fr (6.7 mm)	>	<b>73420</b>	Select Series™ Angled Tip Arterial Cannulae, 20 Fr (6.7 mm)	>
<b>72122</b>	Select Series™ Straight Tip Arterial Cannulae, 22 Fr (7.3 mm)	>	<b>73422</b>	Select Series™ Angled Tip Arterial Cannulae, 22 Fr (7.3 mm)	>
		>	<b>73424</b>	Select Series™ Angled Tip Arterial Cannulae, 24 Fr (8.0 mm)	>







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<b>75008</b>	DLP™ Straight Tip Arterial Cannulae, 8 Fr (2.7 mm)	>	<b>77010</b>	DLP™ Pediatric One-piece Arterial Cannulae, 10 Fr (3.3 mm)	>
<b>75010</b>	DLP™ Straight Tip Arterial Cannulae, 10 Fr (3.3 mm)	>	<b>77012</b>	DLP™ Pediatric One-piece Arterial Cannulae, 12 Fr (4.0 mm)	>
<b>75012</b>	DLP™ Straight Tip Arterial Cannulae, 12 Fr (4.0 mm)	>	<b>77014</b>	DLP™ Pediatric One-piece Arterial Cannulae, 14 Fr (4.7 mm)	>
<b>75014</b>	DLP™ Straight Tip Arterial Cannulae, 14 Fr (4.7 mm)	>	<b>77016</b>	DLP™ Pediatric One-piece Arterial Cannulae, 16 Fr (5.3 mm)	>
<b>75318</b>	DLP™ Straight Tip Arterial Cannulae, 18 Fr (6.0 mm)	>	<b>77106</b>	DLP™ Pediatric One-piece Arterial Cannulae, 6 Fr (2.0 mm)	>
<b>76020</b>	DLP™ Straight Tip Arterial Cannulae, 20 Fr (6.7 mm)	>	<b>77108</b>	DLP™ Pediatric One-piece Arterial Cannulae, 8 Fr (2.7 mm)	>
<b>76022</b>	DLP™ Straight Tip Arterial Cannulae, 22 Fr (7.3 mm)	>	<b>77110</b>	DLP™ Pediatric One-piece Arterial Cannulae, 10 Fr (3.3 mm)	>
<b>76024</b>	DLP™ Straight Tip Arterial Cannulae, 24 Fr (8.0 mm)	>	<b>77112</b>	DLP™ Pediatric One-piece Arterial Cannulae, 12 Fr (4.0 mm)	>
<b>76118</b>	DLP™ Straight Tip Arterial Cannulae, 18 Fr (6.0 mm)	>	<b>77114</b>	DLP™ Pediatric One-piece Arterial Cannulae, 14 Fr (4.7 mm)	>
<b>76120</b>	DLP™ Straight Tip Arterial Cannulae, 20 Fr (6.7 mm)	>	<b>77116</b>	DLP™ Pediatric One-piece Arterial Cannulae, 16 Fr (5.3 mm)	>
<b>76122</b>	DLP™ Straight Tip Arterial Cannulae, 22 Fr (7.3 mm)	>	<b>77206</b>	DLP™ Pediatric One-piece Arterial Cannulae, 6 Fr (2.0 mm)	>
<b>76124</b>	DLP™ Straight Tip Arterial Cannulae, 24 Fr (8.0 mm)	>	<b>77208</b>	DLP™ Pediatric One-piece Arterial Cannulae, 8 Fr (2.7 mm)	>
<b>77006</b>	DLP™ Pediatric One-piece Arterial Cannulae, 6 Fr (2.0 mm)	>	<b>77210</b>	DLP™ Pediatric One-piece Arterial Cannulae, 10 Fr (3.3 mm)	>
<b>77008</b>	DLP™ Pediatric One-piece Arterial Cannulae, 8 Fr (2.7 mm)	>			





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<b>77212</b>	DLP™ Pediatric One-piece Arterial Cannulae, 12 Fr (4.0 mm)	>	<b>77622</b>	EOPA™ Arterial Cannulae, 22 Fr (7.3 mm)	>
<b>77306</b>	DLP™ Pediatric One-piece Arterial Cannulae, 6 Fr (2.0 mm)	>	<b>77624</b>	EOPA™ Arterial Cannulae, 24 Fr (8.0 mm)	>
<b>77308</b>	DLP™ Pediatric One-piece Arterial Cannulae, 8 Fr (2.7 mm)	>	<b>77718</b>	EOPA™ Arterial Cannulae, 18 Fr (6.0 mm)	>
<b>77310</b>	DLP™ Pediatric One-piece Arterial Cannulae, 10 Fr (3.3 mm)	>	<b>77720</b>	EOPA™ Arterial Cannulae, 20 Fr (6.7 mm)	>
<b>77312</b>	DLP™ Pediatric One-piece Arterial Cannulae, 12 Fr (4.0 mm)	>	<b>77722</b>	EOPA™ Arterial Cannulae, 22 Fr (7.3 mm)	>
<b>77418</b>	EOPA™ Arterial Cannulae, 18 Fr (6.0 mm)	>	<b>77724</b>	EOPA™ Arterial Cannulae, 24 Fr (8.0 mm)	>
<b>77420</b>	EOPA™ Arterial Cannulae, 20 Fr (6.7 mm)	>	<b>78220</b>	EOPA 3D™ Arterial Cannulae, 20 Fr (6.7 mm)	>
<b>77422</b>	EOPA™ Arterial Cannulae, 22 Fr (7.3 mm)	>	<b>78222</b>	EOPA 3D™ Arterial Cannulae, 22 Fr (7.3 mm)	>
<b>77424</b>	EOPA™ Arterial Cannulae, 24 Fr (8.0 mm)	>	<b>78320</b>	EOPA 3D™ Arterial Cannulae, 20 Fr (6.7 mm)	>
<b>77518</b>	EOPA™ Arterial Cannulae, 18 Fr (6.0 mm)	>	<b>78322</b>	EOPA 3D™ Arterial Cannulae, 22 Fr (7.3 mm)	>
<b>77520</b>	EOPA™ Arterial Cannulae, 20 Fr (6.7 mm)	>	<b>78420</b>	Select 3D™ II Arterial Cannulae, 20 Fr (6.7 mm)	>
<b>77522</b>	EOPA™ Arterial Cannulae, 22 Fr (7.3 mm)	>	<b>78422</b>	Select 3D™ II Arterial Cannulae, 22 Fr (7.3 mm)	>
<b>77524</b>	EOPA™ Arterial Cannulae, 24 Fr (8.0 mm)	>	<b>78424</b>	Select 3D™ II Arterial Cannulae, 24 Fr (8.0 mm)	>
<b>77618</b>	EOPA™ Arterial Cannulae, 18 Fr (6.0 mm)	>			
<b>77620</b>	EOPA™ Arterial Cannulae, 20 Fr (6.7 mm)	>			





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<b>78520</b>	Select 3D™ II Arterial Cannulae, 20 Fr (6.7 mm)	>	<b>80122</b>	DLP™ Metal Tip Arterial Cannulae, 22 Fr (7.3 mm)	>
<b>78522</b>	Select 3D™ II Arterial Cannulae, 22 Fr (7.3 mm)	>	<b>80220</b>	DLP™ Metal Tip Arterial Cannulae, 20 Fr (6.7 mm)	>
<b>78524</b>	Select 3D™ II Arterial Cannulae, 24 Fr (8.0 mm)	>	<b>80222</b>	DLP™ Metal Tip Arterial Cannulae, 22 Fr (7.3 mm)	>
<b>79003</b>	DLP™ Tourniquet Sets	>	<b>80320</b>	DLP™ Metal Tip Arterial Cannulae, 20 Fr (6.7 mm)	>
<b>79004</b>	DLP™ Tourniquet Sets	>	<b>80322</b>	DLP™ Metal Tip Arterial Cannulae, 22 Fr (7.3 mm)	>
<b>79005</b>	DLP™ Tourniquet Sets	>	<b>81020</b>	DLP™ Curved Tip Arterial Cannulae, 20 Fr (6.7 mm)	>
<b>79006</b>	DLP™ Tourniquet Sets	>	<b>81022</b>	DLP™ Curved Tip Arterial Cannulae, 22 Fr (7.3 mm)	>
<b>79009</b>	DLP™ Tourniquet Sets	>	<b>81120</b>	DLP™ Curved Tip Arterial Cannulae, 20 Fr (6.7 mm)	>
<b>79010</b>	TourniKwik™ Tourniquet Sets	>	<b>81122</b>	DLP™ Curved Tip Arterial Cannulae, 22 Fr (7.3 mm)	>
<b>79011</b>	TourniKwik™ Tourniquet Sets	>	<b>82020</b>	DLP™ Curved Tip Arterial Cannulae, 20 Fr (6.7 mm)	>
<b>79012</b>	TourniKwik™ Tourniquet Sets	>	<b>82022</b>	DLP™ Curved Tip Arterial Cannulae, 22 Fr (7.3 mm)	>
<b>79013</b>	TourniKwik™ Tourniquet Sets	>	<b>82120</b>	DLP™ Curved Tip Arterial Cannulae, 20 Fr (6.7 mm)	>
<b>79015</b>	DLP™ Tourniquet Sets	>	<b>82122</b>	DLP™ Curved Tip Arterial Cannulae, 22 Fr (7.3 mm)	>
<b>79016</b>	DLP™ Tourniquet Sets	>			
<b>79022</b>	DLP™ Tourniquet Sets	>			
<b>79023</b>	DLP™ Tourniquet Sets	>			
<b>79026</b>	DLP™ Tourniquet Sets	>			
<b>79027</b>	DLP™ Tourniquet Sets	>			
<b>80020</b>	DLP™ Metal Tip Arterial Cannulae, 20 Fr (6.7 mm)	>			
<b>80022</b>	DLP™ Metal Tip Arterial Cannulae, 22 Fr (7.3 mm)	>			
<b>80120</b>	DLP™ Metal Tip Arterial Cannulae, 20 Fr (6.7 mm)	>			





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<b>83020</b>	DLP™ Curved Tip Arterial Cannulae, 20 Fr (6.7 mm)	>	<b>87220</b>	DLP™ Curved Tip Arterial Cannulae with One-piece Wirewound Body, 20 Fr (6.7 mm)	>
<b>83022</b>	DLP™ Curved Tip Arterial Cannulae, 22 Fr (7.3 mm)	>	<b>87222</b>	DLP™ Curved Tip Arterial Cannulae with One-piece Wirewound Body, 22 Fr (7.3 mm)	>
<b>83024</b>	DLP™ Curved Tip Arterial Cannulae, 24 Fr (8.0 mm)	>	<b>87224</b>	DLP™ Curved Tip Arterial Cannulae with One-piece Wirewound Body, 24 Fr (8.0 mm)	>
<b>84020</b>	DLP™ Curved Tip Arterial Cannulae, 20 Fr (6.7 mm)	>	<b>87920</b>	DLP™ Curved Tip Arterial Cannulae with Wirewound Body, 20 Fr (6.7 mm)	>
<b>84022</b>	DLP™ Curved Tip Arterial Cannulae, 22 Fr (7.3 mm)	>	<b>87922</b>	DLP™ Curved Tip Arterial Cannulae with Wirewound Body, 22 Fr (7.3 mm)	>
<b>84024</b>	DLP™ Curved Tip Arterial Cannulae, 24 Fr (8.0 mm)	>	<b>87924</b>	DLP™ Curved Tip Arterial Cannulae with Wirewound Body, 24 Fr (8.0 mm)	>
<b>87020</b>	DLP™ Curved Tip Arterial Cannulae with Wirewound Body, 20 Fr (6.7 mm)	>	<b>88020</b>	DLP™ Curved Tip Arterial Cannulae, 20 Fr (6.7 mm)	>
<b>87022</b>	DLP™ Curved Tip Arterial Cannulae with Wirewound Body, 22 Fr (7.3 mm)	>	<b>88022</b>	DLP™ Curved Tip Arterial Cannulae, 22 Fr (7.3 mm)	>
<b>87024</b>	DLP™ Curved Tip Arterial Cannulae with Wirewound Body, 24 Fr (8.0 mm)	>	<b>88024</b>	DLP™ Curved Tip Arterial Cannulae, 24 Fr (8.0 mm)	>
<b>87120</b>	DLP™ Curved Tip Arterial Cannulae with One-piece Wirewound Body, 20 Fr (6.7 mm)	>	<b>88120</b>	DLP™ Curved Tip Arterial Cannulae, 20 Fr (6.7 mm)	>
<b>87122</b>	DLP™ Curved Tip Arterial Cannulae with One-piece Wirewound Body, 22 Fr (7.3 mm)	>	<b>88122</b>	DLP™ Curved Tip Arterial Cannulae, 22 Fr (7.3 mm)	>
<b>87124</b>	DLP™ Curved Tip Arterial Cannulae with One-piece Wirewound Body, 24 Fr (8.0 mm)	>			





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<b>88124</b>	DLP™ Curved Tip Arterial Cannulae 24 Fr (8.0 mm)	>	<b>91246</b>	MC2™ Two Stage Venous Cannulae, 34/46 Fr (11.3/15.3 mm)	>
<b>89020</b>	DLP™ Curved Tip Arterial Cannulae 20 Fr (6.7 mm)	>	<b>91246C</b>	MC2™ Two Stage Venous Cannulae, 34/46 Fr (11.3/15.3 mm)	>
<b>89022</b>	DLP™ Curved Tip Arterial Cannulae 22 Fr (7.3 mm)	>	<b>91251</b>	MC2™ Two Stage Venous Cannulae, 36/51 Fr (12.0/17.0 mm)	>
<b>89024</b>	DLP™ Curved Tip Arterial Cannulae 24 Fr (8.0 mm)	>	<b>91251C</b>	MC2™ Two Stage Venous Cannulae, 36/51 Fr (12.0/17.0 mm)	>
<b>89120</b>	DLP™ Curved Tip Arterial Cannulae 20 Fr (6.7 mm)	>	<b>91263</b>	MC2™ Two Stage Venous Cannulae, 32/40 Fr (10.7/13.3 mm)	>
<b>89122</b>	DLP™ Curved Tip Arterial Cannulae 22 Fr (7.3 mm)	>	<b>91263C</b>	MC2™ Two Stage Venous Cannulae, 32/40 Fr (10.7/13.3 mm)	>
<b>89124</b>	DLP™ Curved Tip Arterial Cannulae 24 Fr (8.0 mm)	>	<b>91265</b>	MC2™ Two Stage Venous Cannulae, 36/46 Fr (12.0/15.3 mm)	>
<b>91228</b>	MC2™ Two Stage Venous Cannulae, 28/36 Fr (9.3/12.0 mm)	>	<b>91265C</b>	MC2™ Two Stage Venous Cannulae, 36/46 Fr (12.0/15.3 mm)	>
<b>91228C</b>	MC2™ Two Stage Venous Cannulae, 28/36 Fr (9.3/12.0 mm)	>	<b>91329</b>	MC2™ Two Stage Venous Cannulae, 29/29 Fr (9.7/9.7 mm)	>
<b>91229</b>	MC2™ Two Stage Venous Cannulae, 29/37 Fr (9.7/12.3 mm)	>	<b>91329C</b>	MC2™ Two Stage Venous Cannulae, 29/29 Fr (9.7/9.7 mm)	>
<b>91229C</b>	MC2™ Two Stage Venous Cannulae, 29/37 Fr (9.7/12.3 mm)	>	<b>91429</b>	MC2X™ Three Stage Venous Cannulae, 29/29/29 Fr (9.7/9.7/9.7 mm)	>
<b>91236</b>	MC2™ Two Stage Venous Cannulae, 36/46 Fr (12.0/15.3 mm)	>	<b>91429C</b>	MC2X™ Three Stage Venous Cannulae, 29/29/29 Fr (9.7/9.7/9.7 mm)	>
<b>91236C</b>	MC2™ Two Stage Venous Cannulae, 36/46 Fr (12.0/15.3 mm)	>	<b>91437</b>	MC2X™ Three Stage Venous Cannulae, 29/46/37 Fr (9.7/15.3/12.3 mm)	>
<b>91240</b>	MC2™ Two Stage Venous Cannulae, 32/40 Fr (10.7/13.3 mm)	>			
<b>91240C</b>	MC2™ Two Stage Venous Cannulae, 32/40 Fr (10.7/13.3 mm)	>			





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<b>91437C</b>	MC2X™ Three Stage Venous Cannulae, 29/46/37 Fr (9.7/15.3/12.3 mm)	>	<b>94113T</b>	Gundry™ Silicone RCSP Cannulae with Manual-inflate Cuff, 13 Fr (4.3 mm)	>
<b>93438</b>	VC2™ Atrial Caval Venous Cannulae, 34/38 Fr (11.3/12.7 mm)	>	<b>94115T</b>	Gundry™ Silicone RCSP Cannulae with Manual-inflate Cuff, 15 Fr (5.0 mm)	>
<b>93438C</b>	VC2™ Atrial Caval Venous Cannulae, 34/38 Fr (11.3/12.7 mm)	>	<b>94215T</b>	DLP™ Silicone RCSP Cannulae with Manual-inflate Cuff, 15 Fr (5.0 mm)	>
<b>93448</b>	VC2™ Atrial Caval Venous Cannulae, 34/48 Fr (11.3/16.0 mm)	>	<b>94315T</b>	DLP™ Silicone RCSP Cannulae with Auto-inflate Cuff, 15 Fr (5.0 mm)	>
<b>93448C</b>	VC2™ Atrial Caval Venous Cannulae, 34/48 Fr (11.3/16.0 mm)	>	<b>94415T</b>	DLP™ Silicone RCSP Cannulae with Auto-inflate Cuff, 15 Fr (5.0 mm)	>
<b>93463</b>	VC2™ Atrial Caval Venous Cannulae, 34/38 Fr (11.3/12.7 mm)	>	<b>94533</b>	DLP™ PVC RCSP Cannulae with Auto-inflate Cuff, 13 Fr (4.3 mm)	>
<b>93463C</b>	VC2™ Atrial Caval Venous Cannulae, 34/38 Fr (11.3/12.7 mm)	>	<b>94535</b>	DLP™ PVC RCSP Cannulae with Auto-inflate Cuff, 15 Fr (5.0 mm)	>
<b>93464</b>	VC2™ Atrial Caval Venous Cannulae, 34/48 Fr (11.3/16.0 mm)	>	<b>94615</b>	Gundry™ Silicone RCSP Cannulae with Manual-inflate Cuff, 15 Fr (5.0 mm)	>
<b>93464C</b>	VC2™ Atrial Caval Venous Cannulae, 34/48 Fr (11.3/16.0 mm)	>	<b>94625</b>	DLP™ Silicone RCSP Cannulae with Manual-inflate Cuff, 15 Fr (5.0 mm)	>
<b>94006</b>	DLP™ Silicone RCSP Cannulae with Manual-inflate Cuff, 6 Fr (2.0 mm)	>	<b>94665</b>	DLP™ Silicone RCSP Cannulae with Manual-inflate Cuff, 15 Fr (5.0 mm)	>
<b>94010</b>	DLP™ Silicone RCSP Cannulae with Manual-inflate Cuff, 10 Fr (3.3 mm)	>			
<b>94106</b>	DLP™ Silicone RCSP Cannulae with Manual-inflate Cuff, 6 Fr (2.0 mm)	>			
<b>94110</b>	Gundry™ Silicone RCSP Cannulae with Manual-inflate Cuff, 10 Fr (3.3 mm)	>			





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<b>94715</b>	Gundry™ Silicone RCSP Cannulae with Manual-inflate Cuff, 15 Fr (5.0 mm)	>	<b>94935</b>	DLP™ PVC RCSP Cannulae with Auto-inflate Cuff, 15 Fr (5.0 mm)	>
<b>94725</b>	DLP™ Silicone RCSP Cannulae with Manual-inflate Cuff, 15 Fr (5.0 mm)	>	<b>94965</b>	DLP™ Silicone RCSP Cannulae with Manual-inflate Cuff, 15 Fr (5.0 mm)	>
<b>94735</b>	DLP™ Silicone RCSP Cannulae with Auto-inflate Cuff, 15 Fr (5.0 mm)	>	<b>94975</b>	DLP™ Silicone RCSP Cannulae with Manual-inflate Cuff, 15 Fr (5.0 mm)	>
<b>94745</b>	DLP™ Silicone RCSP Cannulae with Auto-inflate Cuff, 15 Fr (5.0 mm)	>	<b>94995</b>	DLP™ Silicone RCSP Cannulae with Auto-inflate Cuff, 15 Fr (5.0 mm)	>
<b>94835</b>	DLP™ PVC RCSP Cannulae with Auto-inflate Cuff, 15 Fr (5.0 mm)	>	<b>96328</b>	DLP™ Femoral Venous Cannulae, 28 Fr (9.3 mm)	>
<b>94885</b>	DLP™ PVC RCSP Cannulae with Auto-inflate Cuff, 15 Fr (5.0 mm)	>	<b>96428</b>	DLP™ Femoral Venous Cannulae, 28 Fr (9.3 mm)	>
<b>94885K</b>	DLP™ PVC RCSP Cannulae with Auto-inflate Cuff, 15 Fr (5.0 mm)	>	<b>96530-115</b>	Bio-Medicus™ NextGen Femoral Arterial/Jugular Venous Cannula Kits, 15 Fr (5.0 mm)	>
<b>94895</b>	DLP™ PVC RCSP Cannulae with Auto-inflate Cuff, 15 Fr (5.0 mm)	>	<b>96530-117</b>	Bio-Medicus™ NextGen Femoral Arterial/Jugular Venous Cannula Kits, 17 Fr (5.7 mm)	>
<b>94913</b>	DLP™ Silicone RCSP Cannulae with Manual-inflate Cuff, 13 Fr (4.3 mm)	>	<b>96530-119</b>	Bio-Medicus™ NextGen Femoral Arterial/Jugular Venous Cannula Kits, 19 Fr (6.3 mm)	>
<b>94913L</b>	DLP™ Silicone RCSP Cannulae with Manual-inflate Cuff, 13 Fr (4.3 mm)	>	<b>96530-121</b>	Bio-Medicus™ NextGen Femoral Arterial/Jugular Venous Cannula Kits, 21 Fr (7.0 mm)	>
<b>94915</b>	DLP™ Silicone RCSP Cannulae with Manual-inflate Cuff, 15 Fr (5.0 mm)	>			





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<b>96530-123</b>	Bio-Medicus™ NextGen Femoral Arterial/Jugular Venous Cannula Kits, 23 Fr (7.7 mm)	>	<b>96600-117</b>	Bio-Medicus™ NextGen Femoral Venous Cannula Kits, 17 Fr (5.7 mm)	>
<b>96530-125</b>	Bio-Medicus™ NextGen Femoral Arterial/Jugular Venous Cannula Kits, 25 Fr (8.3 mm)	>	<b>96600-119</b>	Bio-Medicus™ NextGen Femoral Venous Cannula Kits, 19 Fr (6.3 mm)	>
<b>96551</b>	Bio-Medicus™ NextGen Venous Insertion Kit	>	<b>96600-121</b>	Bio-Medicus™ NextGen Femoral Venous Cannula Kits, 21 Fr (7.0 mm)	>
<b>96552</b>	Bio-Medicus™ NextGen Arterial/Jugular Venous Insertion Kit	>	<b>96600-123</b>	Bio-Medicus™ NextGen Femoral Venous Cannula Kits, 23 Fr (7.7 mm)	>
<b>96553</b>	Bio-Medicus™ NextGen Pediatric Arterial/Venous Insertion Kit	>	<b>96600-125</b>	Bio-Medicus™ NextGen Femoral Venous Cannula Kits, 25 Fr (8.3 mm)	>
<b>96570-115</b>	Bio-Medicus™ NextGen Femoral Arterial or Jugular Venous Cannulae, 15 Fr (5.0 mm)	>	<b>96600-127</b>	Bio-Medicus™ NextGen Femoral Venous Cannula Kits, 27 Fr (9.0 mm)	>
<b>96570-117</b>	Bio-Medicus™ NextGen Femoral Arterial or Jugular Venous Cannulae, 17 Fr (5.7 mm)	>	<b>96600-129</b>	Bio-Medicus™ NextGen Femoral Venous Cannula Kits, 29 Fr (9.7 mm)	>
<b>96570-119</b>	Bio-Medicus™ NextGen Femoral Arterial or Jugular Venous Cannulae, 19 Fr (6.3 mm)	>	<b>96670-115</b>	Bio-Medicus™ NextGen Multi-stage Femoral Venous Cannulae, 15 Fr (5.0 mm)	>
<b>96570-121</b>	Bio-Medicus™ NextGen Femoral Arterial or Jugular Venous Cannulae, 21 Fr (7.0 mm)	>	<b>96670-117</b>	Bio-Medicus™ NextGen Multi-stage Femoral Venous Cannulae, 17 Fr (5.7 mm)	>
<b>96570-123</b>	Bio-Medicus™ NextGen Femoral Arterial or Jugular Venous Cannulae, 23 Fr (7.7 mm)	>			
<b>96570-125</b>	Bio-Medicus™ NextGen Femoral Arterial or Jugular Venous Cannulae, 25 Fr (8.3 mm)	>			
<b>96600-115</b>	Bio-Medicus™ NextGen Femoral Venous Cannula Kits, 15 Fr (5.0 mm)	>			







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<b>96670-119</b>	Bio-Medicus™ NextGen Multi-stage Femoral Venous Cannulae, 19 Fr (6.3 mm)	>	<b>96830-110</b>	Bio-Medicus™ NextGen Pediatric Venous Cannulae, 10 Fr (3.3 mm)	>
<b>96670-121</b>	Bio-Medicus™ NextGen Multi-stage Femoral Venous Cannulae, 21 Fr (7.0 mm)	>	<b>96830-112</b>	Bio-Medicus™ NextGen Pediatric Venous Cannulae, 12 Fr (4.0 mm)	>
<b>96670-123</b>	Bio-Medicus™ NextGen Multi-stage Femoral Venous Cannulae, 23 Fr (7.7 mm)	>	<b>96830-114</b>	Bio-Medicus™ NextGen Pediatric Venous Cannulae, 14 Fr (4.7 mm)	>
<b>96670-125</b>	Bio-Medicus™ NextGen Multi-stage Femoral Venous Cannulae, 25 Fr (8.3 mm)	>	<b>96880-019</b>	Bio-Medicus™ Multi-stage Femoral Venous Cannulae with Insertion Kit, 19 Fr (6.3 cm)	>
<b>96670-127</b>	Bio-Medicus™ NextGen Femoral Bi-caval Venous Cannulae, 27 Fr (9.0 mm)	>	<b>96880-021</b>	Bio-Medicus™ Multi-stage Femoral Venous Cannulae with Insertion Kit, 21 Fr (7.0 cm)	>
<b>96670-129</b>	Bio-Medicus™ NextGen Femoral Bi-caval Venous Cannulae, 29 Fr (9.7 mm)	>	<b>96880-025</b>	Bio-Medicus™ Multi-stage Femoral Venous Cannulae with Insertion Kit, 25 Fr (8.3 cm)	>
<b>96820-108</b>	Bio-Medicus™ NextGen Pediatric Arterial Cannulae, 8 Fr (2.7 mm)	>			
<b>96820-110</b>	Bio-Medicus™ NextGen Pediatric Arterial Cannulae, 10 Fr (3.3 mm)	>			
<b>96820-112</b>	Bio-Medicus™ NextGen Pediatric Arterial Cannulae, 12 Fr (4.0 mm)	>			
<b>96820-114</b>	Bio-Medicus™ NextGen Pediatric Arterial Cannulae, 14 Fr (4.7 mm)	>			
<b>96830-108</b>	Bio-Medicus™ NextGen Pediatric Venous Cannulae, 8 Fr (2.7 mm)	>			





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