

# Medtronic

Engineering the extraordinary

# Cannula catalog

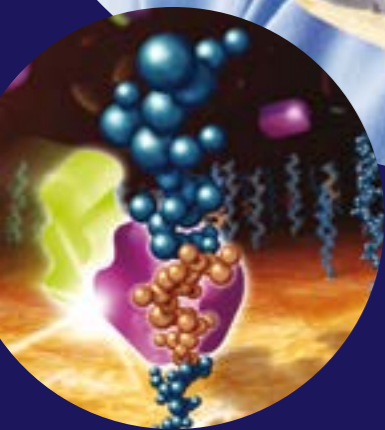
Medtronic in cardiac surgery

A company  
like no other



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

The products in this catalog are available for our customers in Europe, Middle East, Africa and Russia



## Cortiva™ BioActive Surface

- Durable, non-leaching end point-attached heparin
- Provides thromboresistance and enhanced blood compatibility

All product codes with \* are also available with Cortiva™ BioActive Surface. For more information, contact your local Medtronic Cannula Products representative.

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For more information, contact your local Medtronic cannula products representative.

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# Alleviate pain. Restore health. Extend life.

## **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

# Arterial cannulae



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.

# Arterial cannulae



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# Arterial Cannulae

## 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.



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

**78220\*** | 20 Fr (6.7 mm)

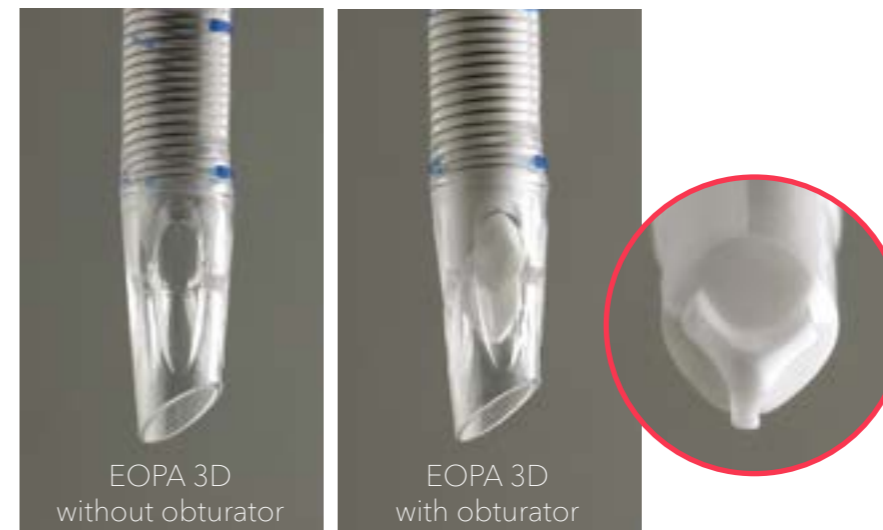
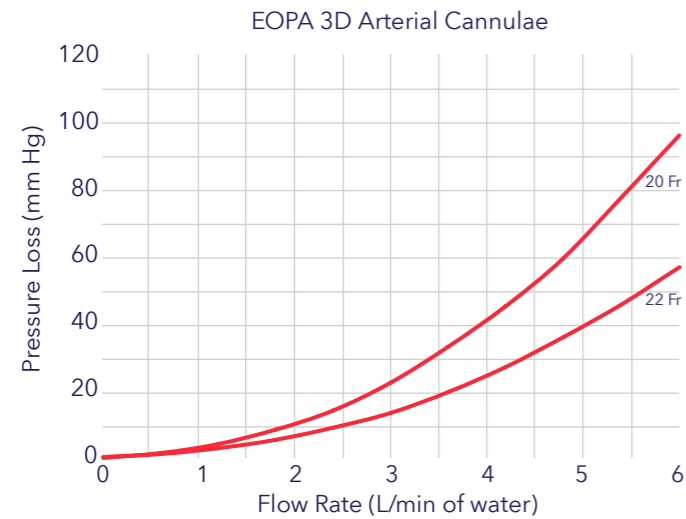
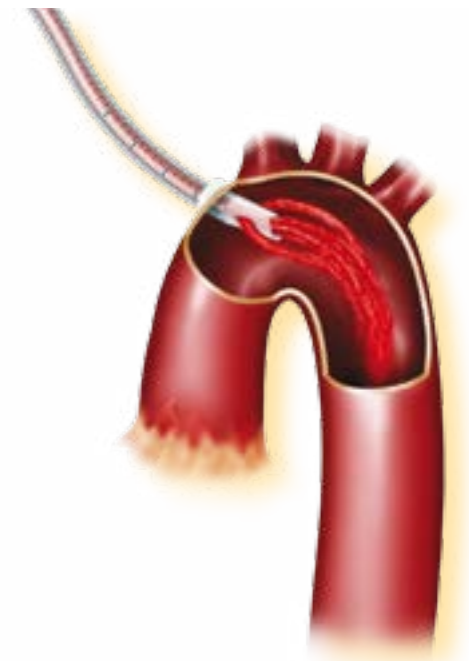
**78222** | 22 Fr (7.3 mm)

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

**78320** | 20 Fr (6.7 mm)

**78322\*** | 22 Fr (7.3 mm)

10 per carton



\* Also available with Cortiva™ BioActive Surface.

#### 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.

# Arterial Cannulae

## 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

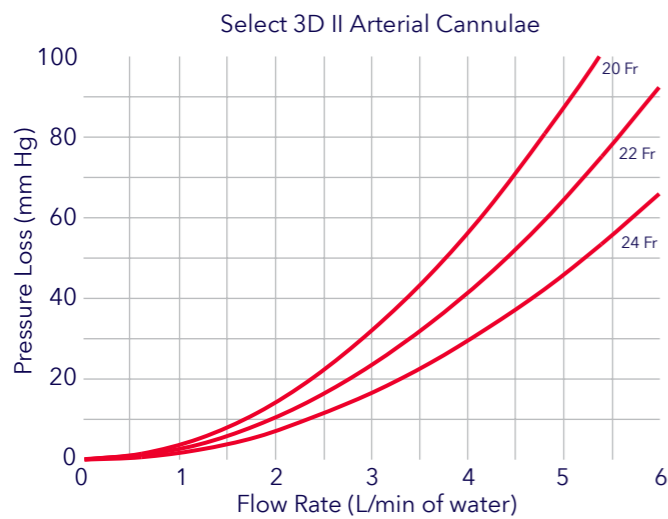
<b>78420</b>	20 Fr (6.7 mm)
<b>78422</b>	22 Fr (7.3 mm)
<b>78424</b>	24 Fr (8.0 mm)



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

<b>78520</b>	20 Fr (6.7 mm)
<b>78522</b>	22 Fr (7.3 mm)
<b>78524</b>	24 Fr (8.0 mm)

20 per carton

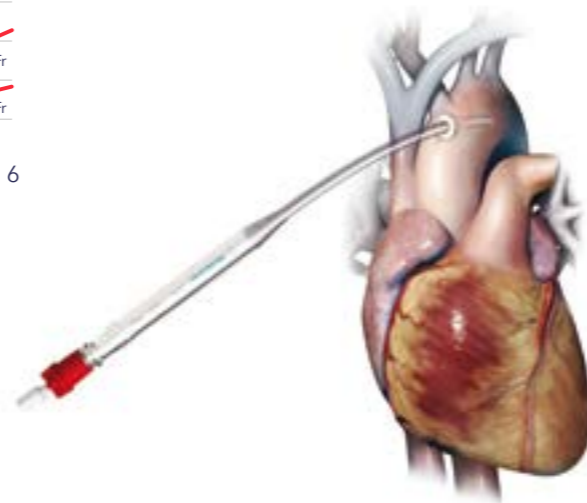
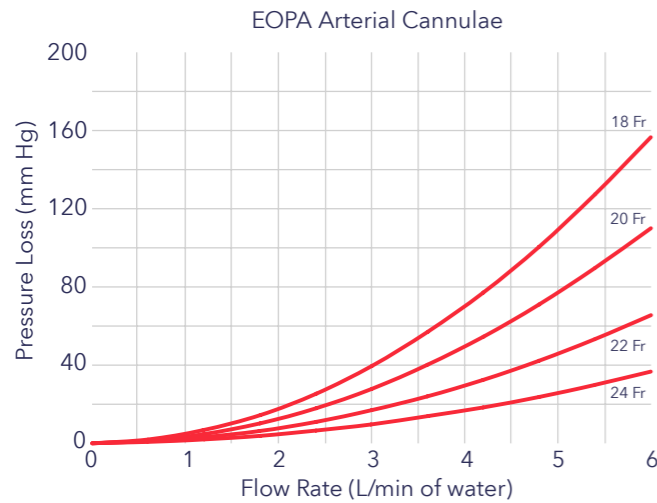


# Arterial Cannulae

## EOPA™ Elongated One-Piece 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

<b>77418</b>	18 Fr (6.0 mm)
<b>77420*</b>	20 Fr (6.7 mm)
<b>77422*</b>	22 Fr (7.3 mm)
<b>77424</b>	24 Fr (8.0 mm)

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

<b>77518</b>	18 Fr (6.0 mm)
<b>77520*</b>	20 Fr (6.7 mm)
<b>77522*</b>	22 Fr (7.3 mm)
<b>77524</b>	24 Fr (8.0 mm)

10 per carton



### 12 in (30.5 cm) overall length

Dilator tip introducer with 0.038 in (0.0965 mm) guidewire

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

<b>77618*</b>	18 Fr (6.0 mm)
<b>77620*</b>	20 Fr (6.7 mm)
<b>77622*</b>	22 Fr (7.3 mm)
<b>77624</b>	24 Fr (8.0 mm)

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

<b>77718</b>	18 Fr (6.0 mm)
<b>77720*</b>	20 Fr (6.7 mm)
<b>77722*</b>	22 Fr (7.3 mm)
<b>77724</b>	24 Fr (8.0 mm)

10 per carton

\* Also available with Cortiva™ BioActive Surface.

#### 8 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.

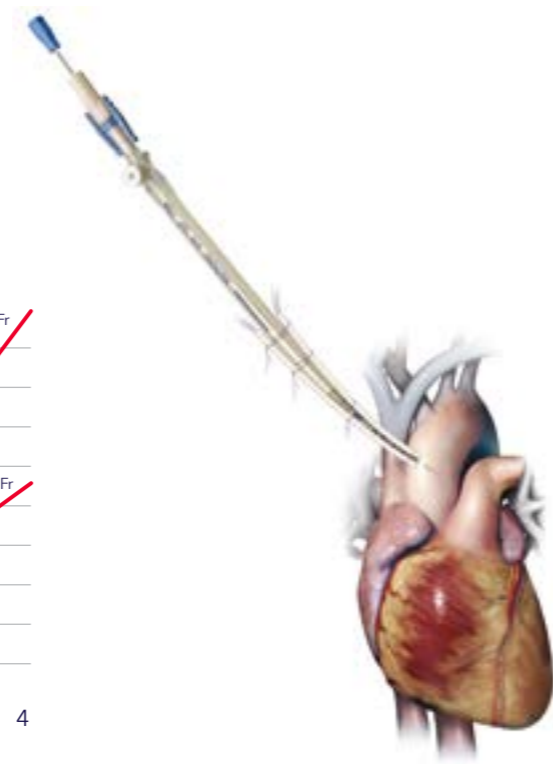
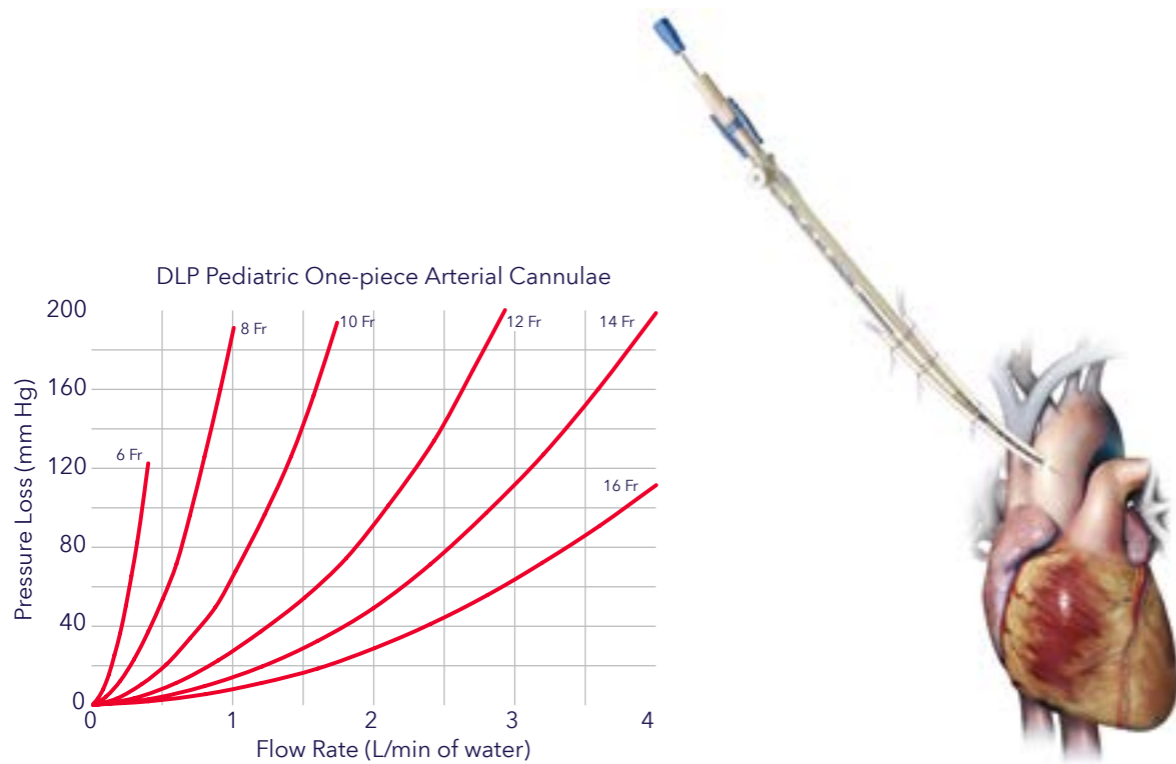


# Arterial Cannulae

## DLP™ One-Piece Pediatric 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)

<b>77006*</b>	6 Fr (2.0 mm)
<b>77008*</b>	8 Fr (2.7 mm)
<b>77010*</b>	10 Fr (3.3 mm)
<b>77012*</b>	12 Fr (4.0 mm)
<b>77014*</b>	14 Fr (4.7 mm)
<b>77016*</b>	16 Fr (5.3 mm)

#### Non-vented 1/4 in (0.64 cm) connector (blue hub)

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

5 per carton



### 9 in (22.9 cm) overall length

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

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

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

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

5 per carton



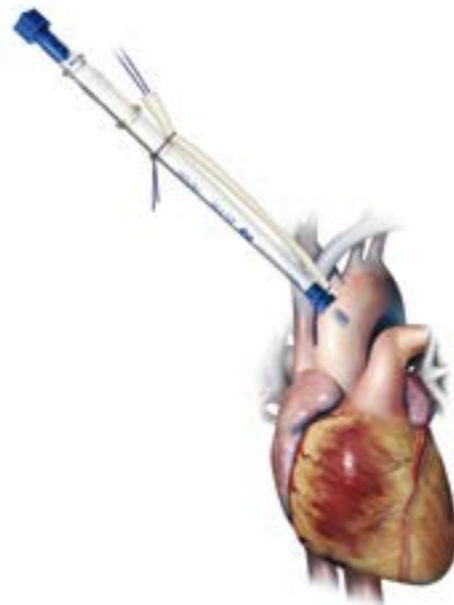
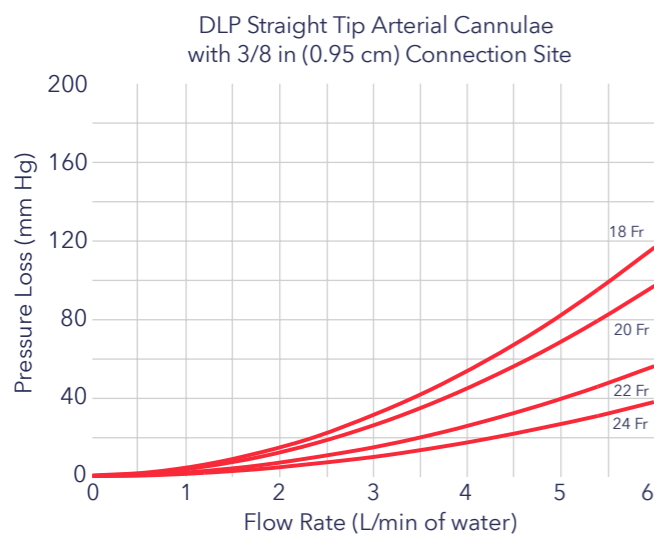
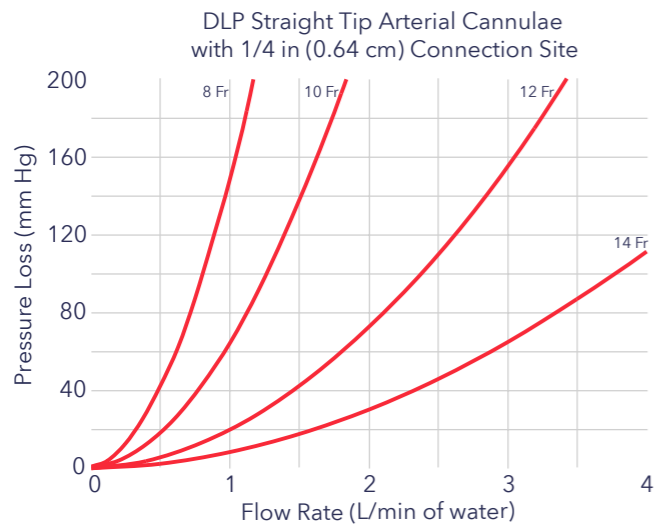
\* Also available with Cortiva™ BioActive Surface.

# Arterial Cannulae

## 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)

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

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

<b>75318*</b>	18 Fr (6.0 mm)
<b>75320*</b>	20 Fr (6.7 mm)
<b>75322</b>	22 Fr (7.3 mm)
<b>75324</b>	24 Fr (8.0 mm)

20 per carton

### 8 in (20.3 cm) overall length

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

<b>76020</b>	20 Fr (6.7 mm)
<b>76022</b>	22 Fr (7.3 mm)
<b>76024</b>	24 Fr (8.0 mm)

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

<b>76118</b>	18 Fr (6.0 mm)
<b>76120</b>	20 Fr (6.7 mm)
<b>76122</b>	22 Fr (7.3 mm)
<b>76124</b>	24 Fr (8.0 mm)

20 per carton

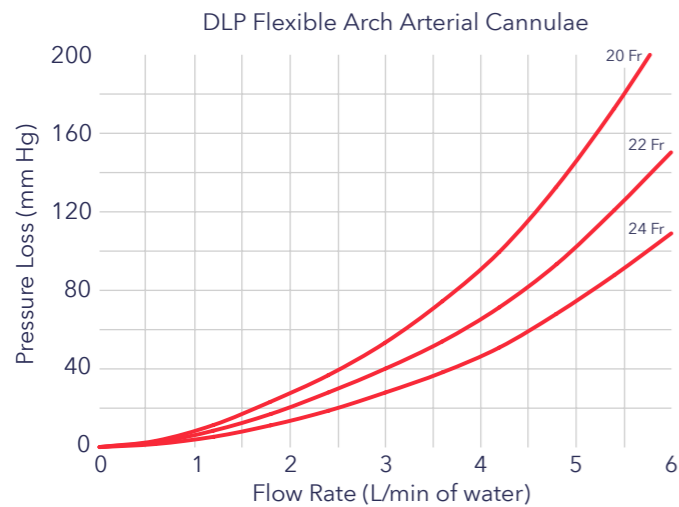
\* Also available with Cortiva™ BioActive Surface.

# Arterial Cannulae

## DLP™ Flexible Arch Arterial Cannulae



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



### 11 in (27.9 cm) overall length

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

<b>70420</b>	20 Fr (6.7 mm)
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<b>70422</b>	22 Fr (7.3 mm)
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<b>70424</b>	24 Fr (8.0 mm)
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#### Non-vented 3/8 in (0.95 cm) connector

<b>71420</b>	20 Fr (6.7 mm)
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<b>71422</b>	22 Fr (7.3 mm)
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<b>71424*</b>	24 Fr (8.0 mm)
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20 per carton

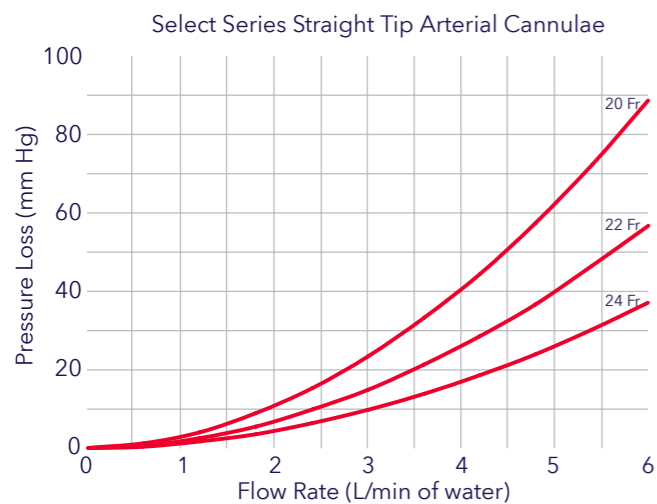
\* Also available with Cortiva™ BioActive Surface.

# Arterial Cannulae

## Select Series™ Straight Tip Arterial Cannulae



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



### 12 in (30.5 cm) overall length

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

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

<b>72220</b>	20 Fr (6.7 mm)
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<b>72222</b>	22 Fr (7.3 mm)
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<b>72224*</b>	24 Fr (8.0 mm)
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20 per carton

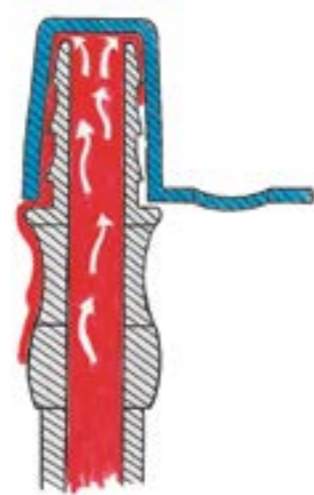
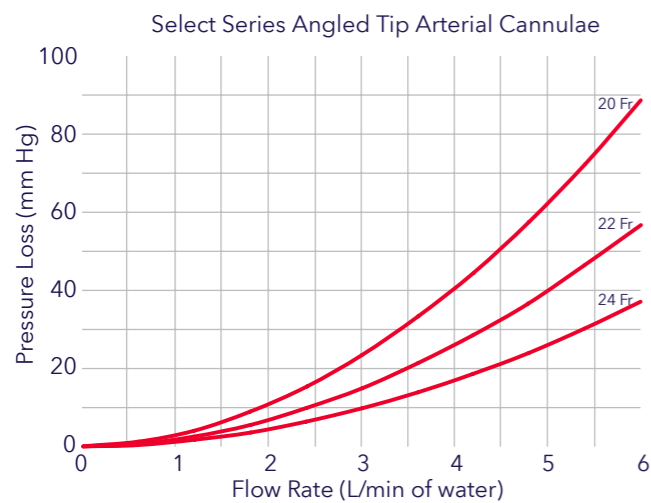
\* Also available with Cortiva™ BioActive Surface.

# Arterial Cannulae

## Select Series™ Angled Tip Arterial Cannulae



These cannulae feature beveled tips and tapered, one-piece, kink-resistant wirewound bodies, 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)
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<b>72422</b>	22 Fr (7.3 mm)
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<b>72424</b>	24 Fr (8.0 mm)
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**Non-vented 3/8 in (0.95 cm) connector**

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



**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)
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<b>73422</b>	22 Fr (7.3 mm)
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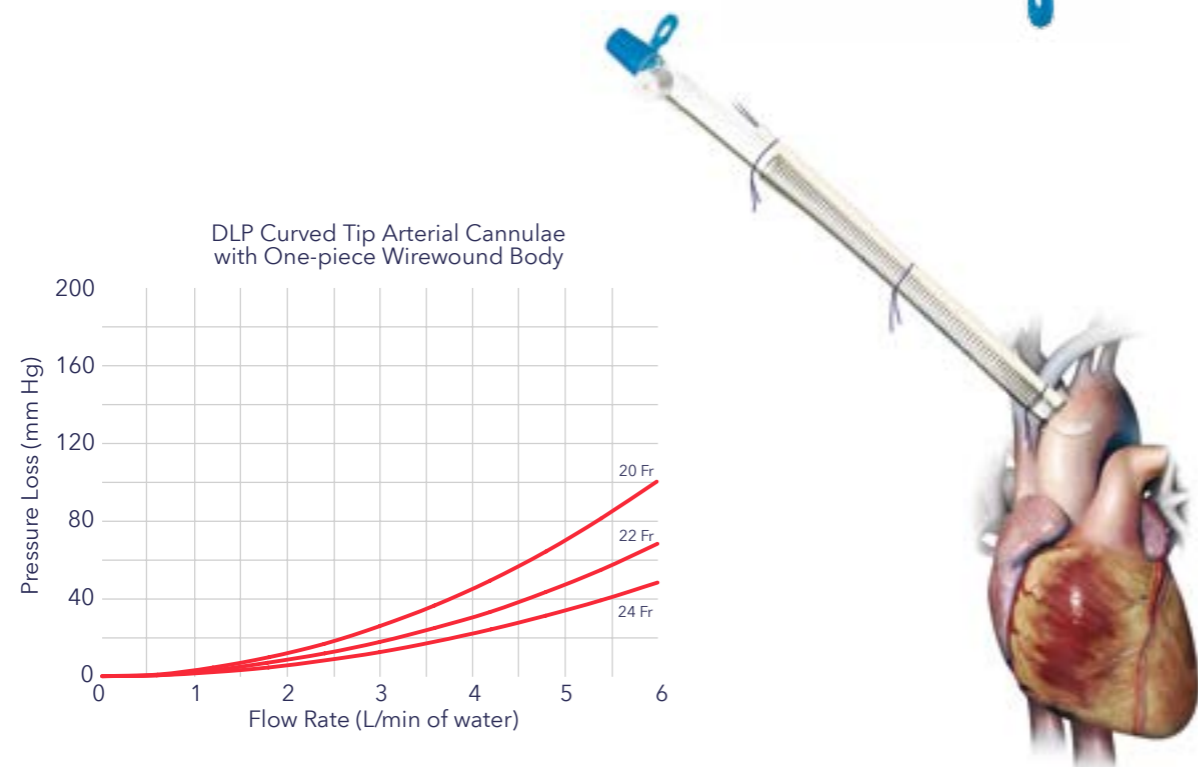
<b>73424</b>	24 Fr (8.0 mm)
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# Arterial Cannulae

## 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) connector

**87120** 20 Fr (6.7 mm)

**87122** 22 Fr (7.3 mm)

**87124** 24 Fr (8.0 mm)

10 per carton

\* Also available with Cortiva™ BioActive Surface.

# Arterial Cannulae

## 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.



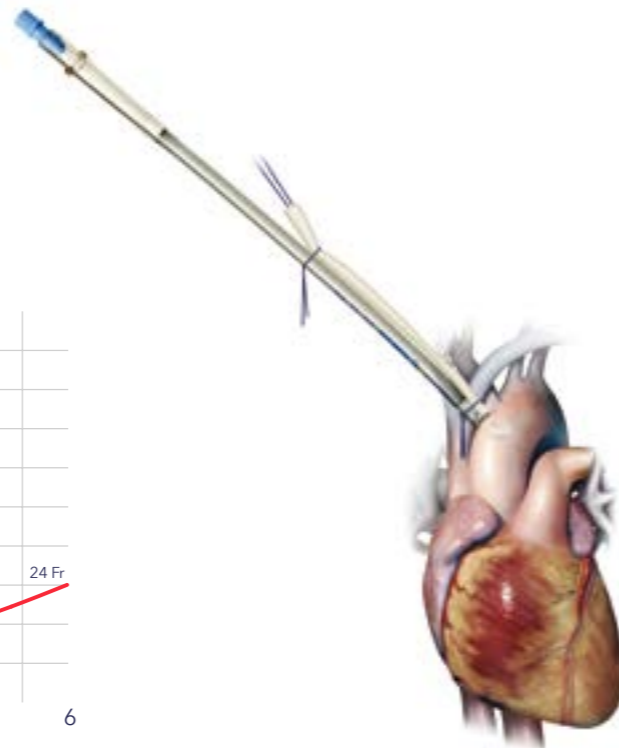
**13 in (33.0 cm)  
overall length**

Curved tip with flange

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

<b>87024</b>	24 Fr (8.0 mm)
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10 per carton



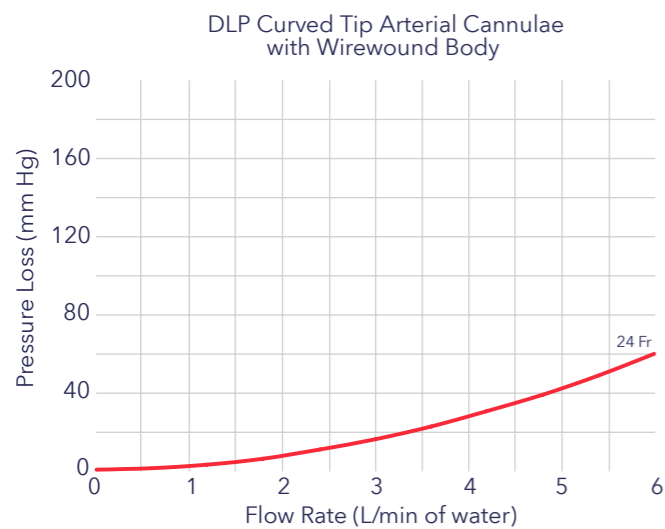
**13 in (33.0 cm)  
overall length**

Curved tip without flange

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

<b>87924</b>	24 Fr (8.0 mm)
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10 per carton

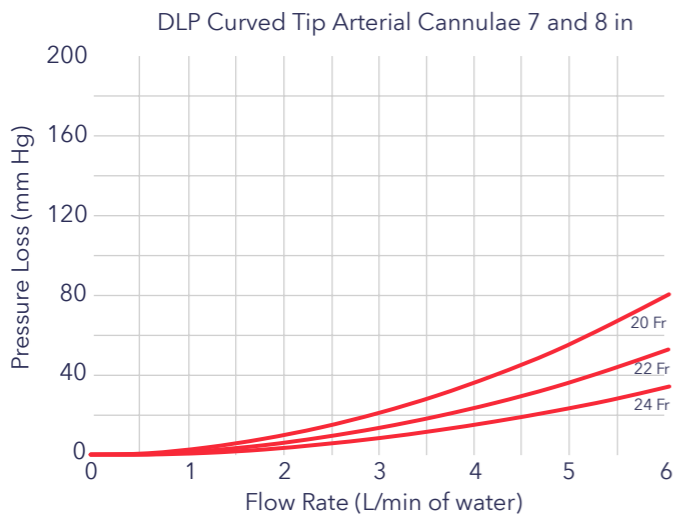


# Arterial Cannulae

## 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

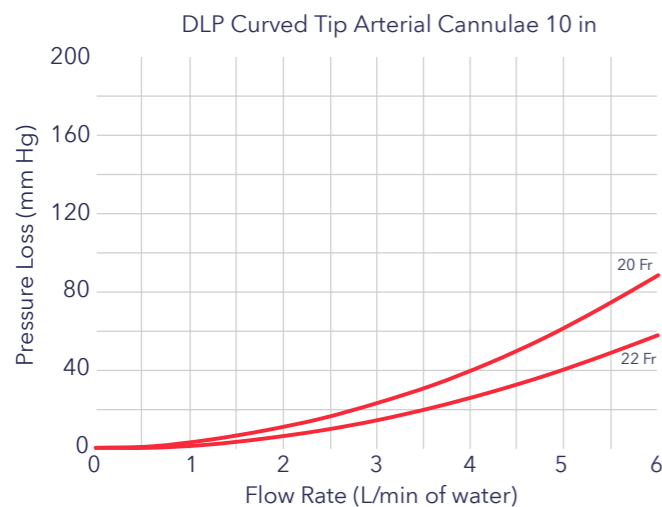
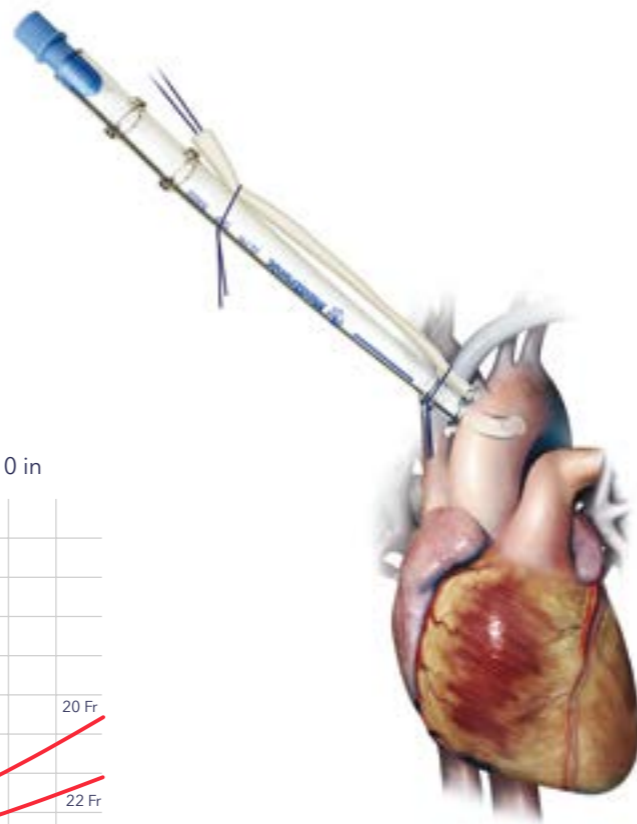


# Arterial Cannulae

## DLP™ Curved Tip Arterial Cannulae



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

<b>81020</b>	20 Fr (6.7 mm)
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<b>81022</b>	22 Fr (7.3 mm)
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#### Non-vented 3/8 in (0.95 cm) connector

<b>81120*</b>	20 Fr (6.7 mm)
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<b>81122*</b>	22 Fr (7.3 mm)
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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

<b>82020</b>	20 Fr (6.7 mm)
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<b>82022</b>	22 Fr (7.3 mm)
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#### Non-vented 3/8 in (0.95 cm) connector

<b>82120</b>	20 Fr (6.7 mm)
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<b>82122</b>	22 Fr (7.3 mm)
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20 per carton

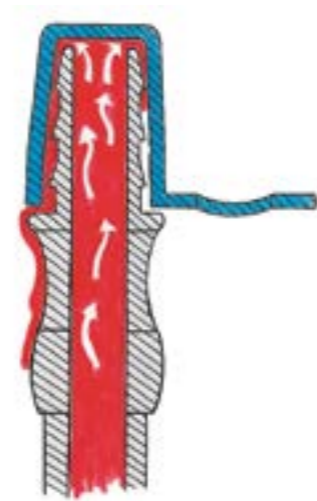
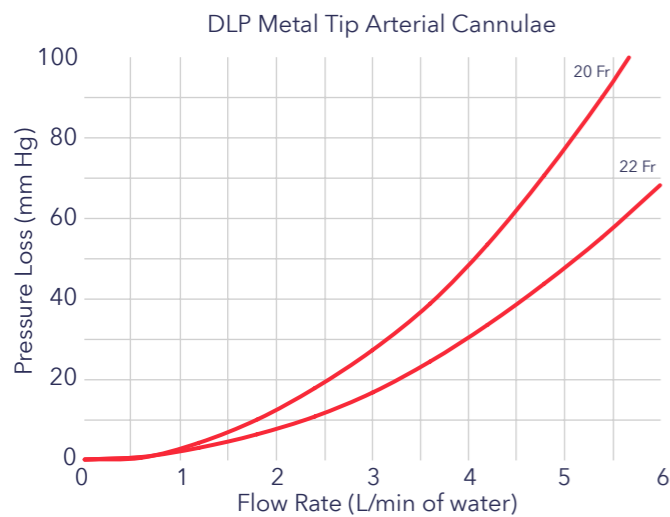
\* Also available with Cortiva™ BioActive Surface.

# Arterial Cannulae

## DLP™ Curved 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)
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<b>80022</b>	22 Fr (7.3 mm)
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#### Non-vented 3/8 in (0.95 cm) connector

<b>80120*</b>	20 Fr (6.7 mm)
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<b>80122</b>	22 Fr (7.3 mm)
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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)
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<b>80222</b>	22 Fr (7.3 mm)
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#### Non-vented 3/8 in (0.95 cm) connector

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

\* Also available with Cortiva™ BioActive Surface.



Extracorporeal circuit

# Femoral cannulae



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.

# Femoral cannulae



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# Femoral Cannulae

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



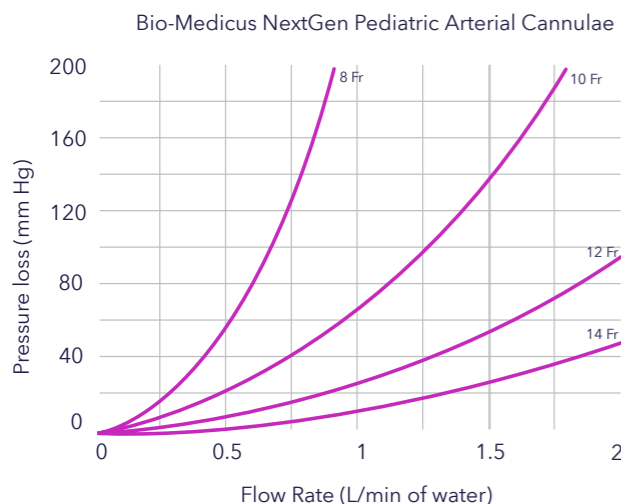
These pediatric cannulae offer a flexible, kink-resistant, thin-wall design that promotes maximum flow rates. The tip design eases insertion and provides a reinforced non-step transition zone along with smooth side holes. Both venous and arterial models are packaged with a tapered solid core and a percutaneous-style, guidewire-capable (0.025 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

		Overall	Tip
<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

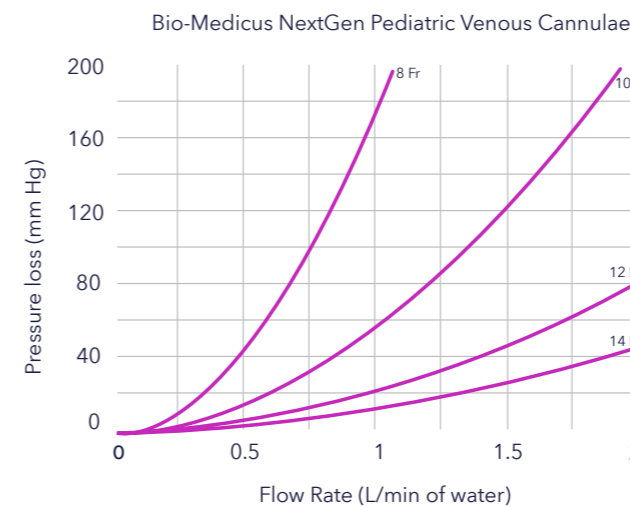


### Venous

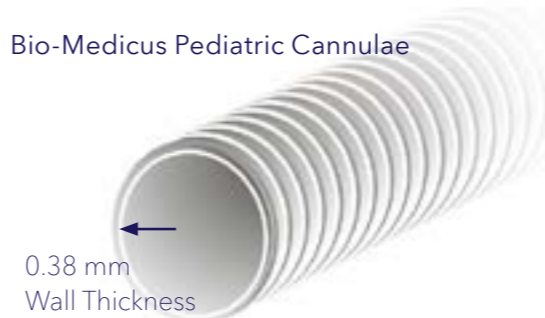
#### Non-vented 1/4 in (0.64 cm) connector

		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



Bio-Medicus Pediatric Cannulae



Retention Clip



See page 25 for 96553 insertion kit.

# Femoral Cannulae

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



These 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
<b>96570-115</b>	<b>96530-115</b>	15 Fr (5.0 mm)
<b>96570-117</b>	<b>96530-117</b>	17 Fr (5.7 mm)
<b>96570-119</b>	<b>96530-119</b>	19 Fr (6.3 mm)
<b>96570-121</b>	<b>96530-121</b>	21 Fr (7.0 mm)
<b>96570-123</b>	<b>96530-123</b>	23 Fr (7.7 mm)
<b>96570-125</b>	<b>96530-125</b>	25 Fr (8.3 mm)

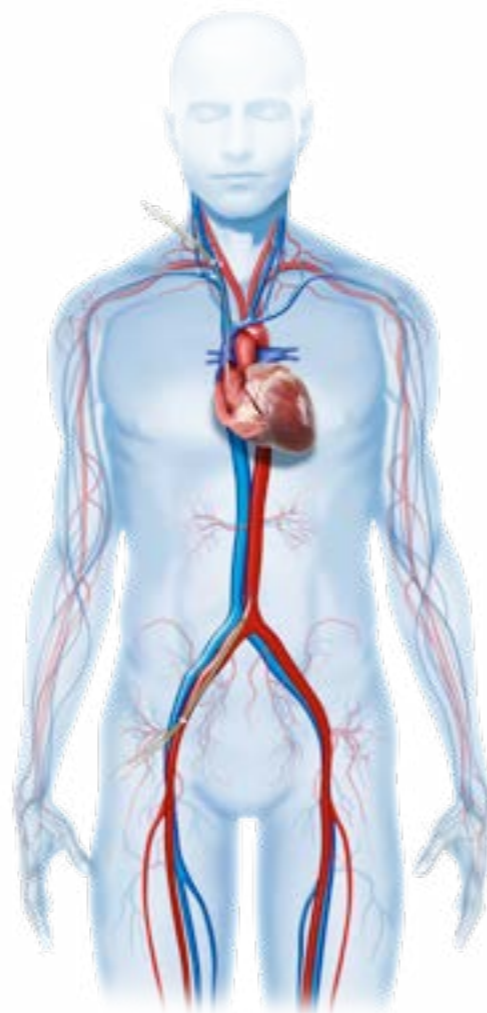
1 per carton

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

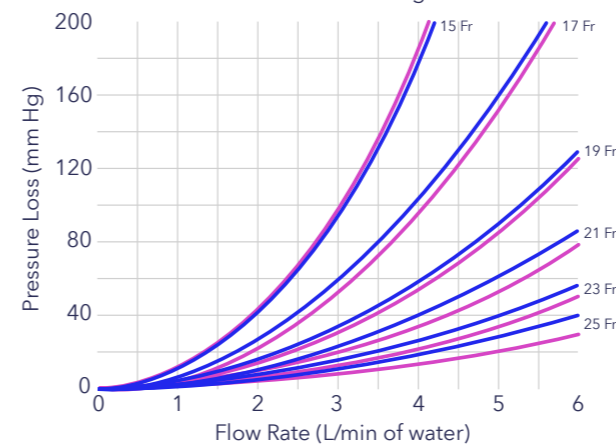
### Cannula kit includes:



White color dilator included with 21 Fr, 23 Fr, and 25 Fr models



Bio-Medicus NextGen Femoral Arterial/Jugular Venous Cannulae



• Bio-Medicus NextGen Femoral Arterial Cannulae  
• Bio-Medicus NextGen Jugular Venous Cannulae

➤ See page 25 for 96552 insertion kit.

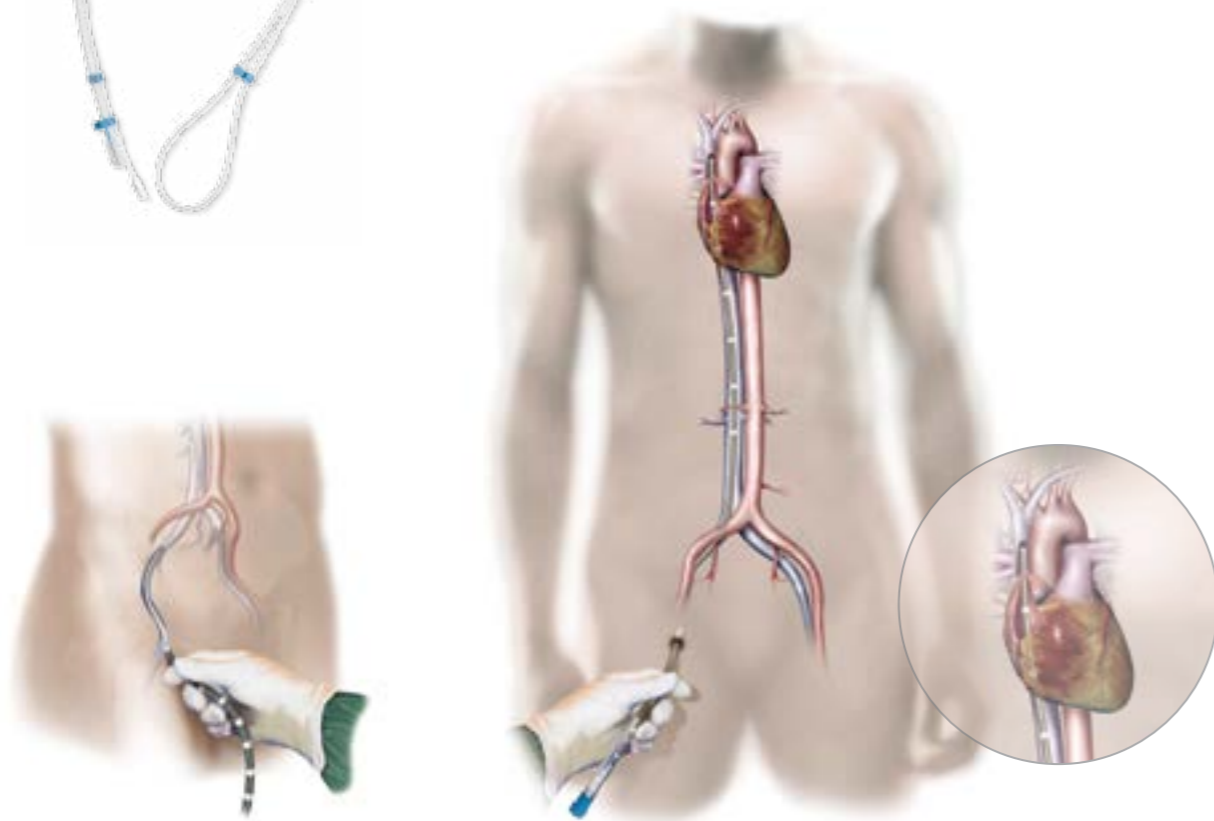
# Femoral Cannulae

## Bio-Medicus™ Percutaneous Kit, Multi-Stage Venous Femoral



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.

### Cannula kit includes:

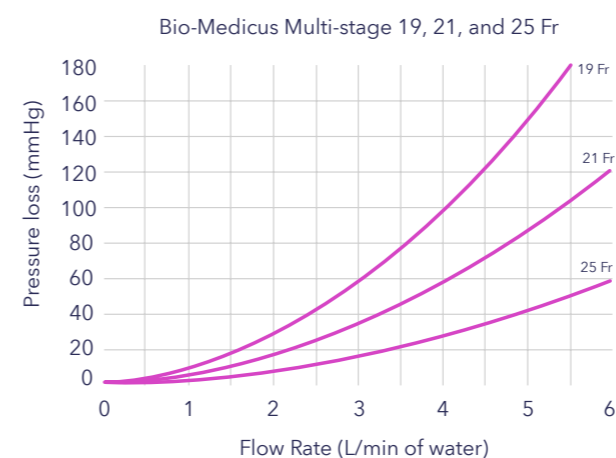


**30 in (76.2 cm) overall length**  
23.6 in (60 cm) tip

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

<b>96880-019</b>	19 Fr (6.3 mm)
<b>96880-021</b>	21 Fr (7.0 mm)
<b>96880-025</b>	25 Fr (8.3 mm)

1 per carton



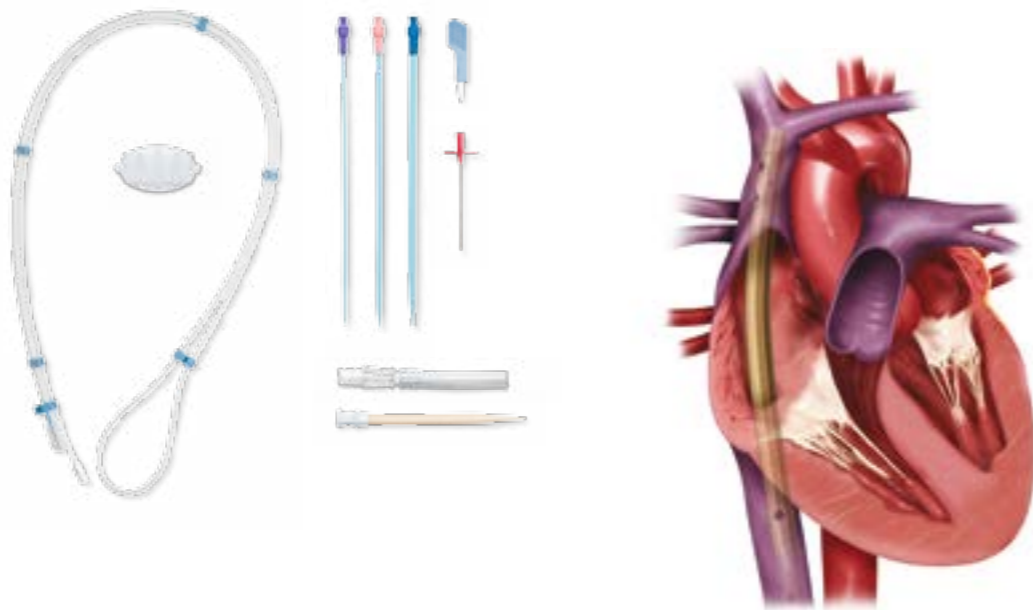
# Femoral Cannulae

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



These cannulae feature a flexible, kink-resistant, thin-wall design that promotes maximum flow rates. The tip design offers an elongated tapered introducer, a reinforced non-step 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.

### Cannulae with a kit include:



### Bi-caval capability with optimized basket placement

Enables increased venous drainage; ideal for MICS or traditional cases.

Designed to enable right atrium occlusion and access.

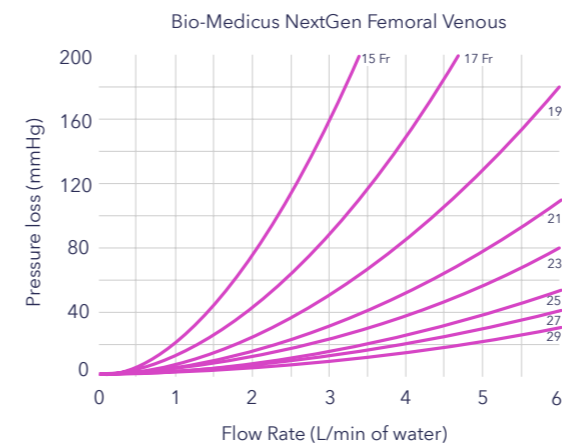
### Non-vented 3/8 in (0.95 cm) connector

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.



See page 25 for 96551 insertion kit.





# Femoral Cannulae

## 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 (0.0965 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



### Pediatric Arterial/Venous

96553

- 0.025 in (0.0635 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



### Arterial/Jugular

96552

- 0.038 in (0.0965 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)

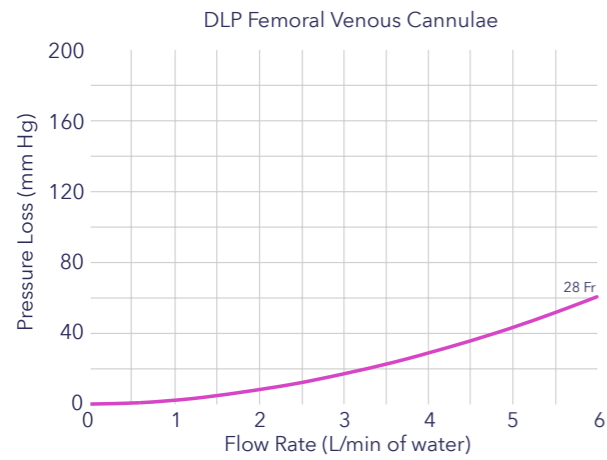
5 kits per carton

# Femoral Cannulae

## DLP™ Femoral Venous Cannulae



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



### 25.5 in (64.8 cm) insertion length

Connection site 3/8 in (0.95 cm) and 0.038 in (0.0965 mm) x 180 cm (70.87 in) guidewire

<b>96328</b>	28 Fr (9.3 mm)
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Non-vented 3/8 in (0.95 cm) connector and 0.038 in (0.0965 cm) x 180 cm (70.87 in) guidewire

<b>96428</b>	28 Fr (9.3 mm)
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4 per carton



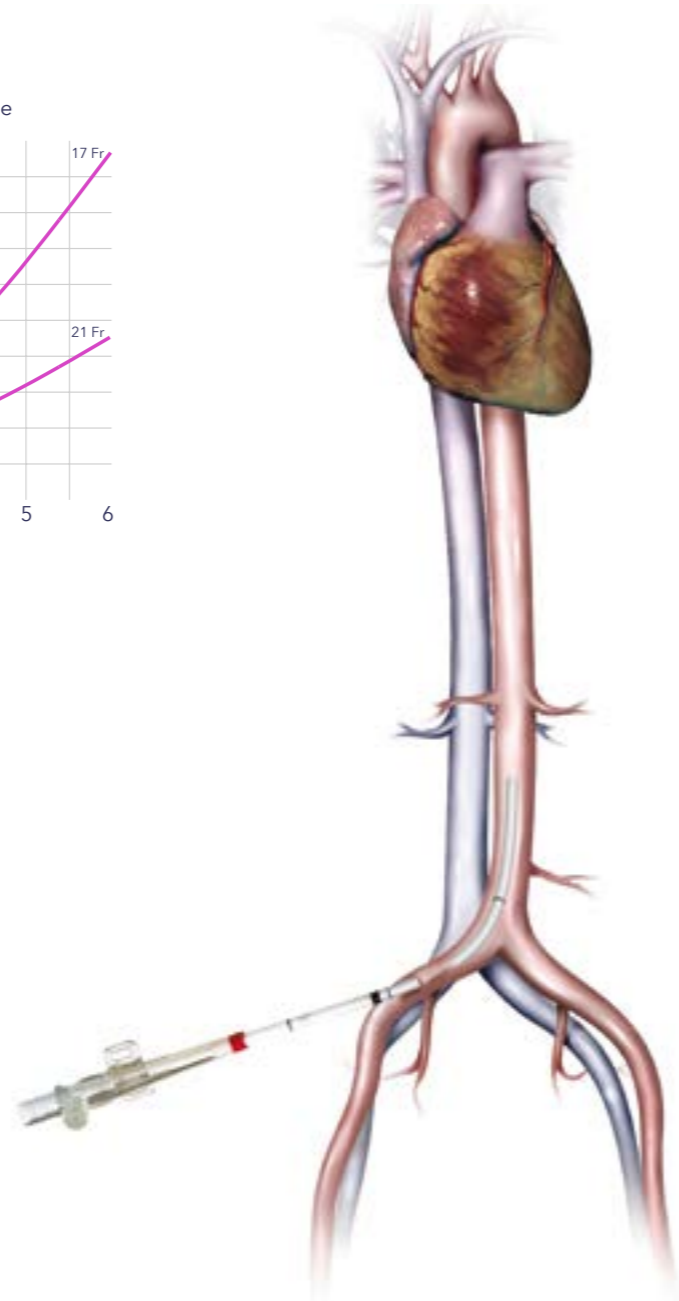
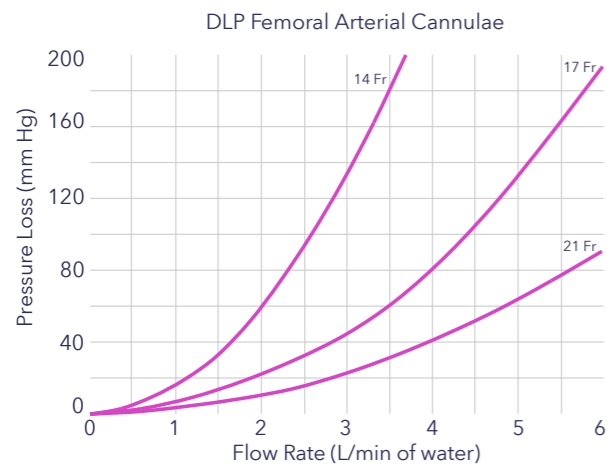
96328

# Femoral Cannulae

## DLP™ Femoral Arterial Cannulae



These cannulae feature multiple side holes, depth markings, and tapered tip introducer for placement over a 0.038 in (0.0965 cm) guidewire (**not included**).



**7 in (17.8 cm) insertion length**

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

<b>57414</b>	14 Fr (4.7 mm)
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<b>57417</b>	17 Fr (5.7 mm)
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<b>57421</b>	21 Fr (7.0 mm)
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*4 per carton*



Extracorporeal circuit

# Venous cannulae



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



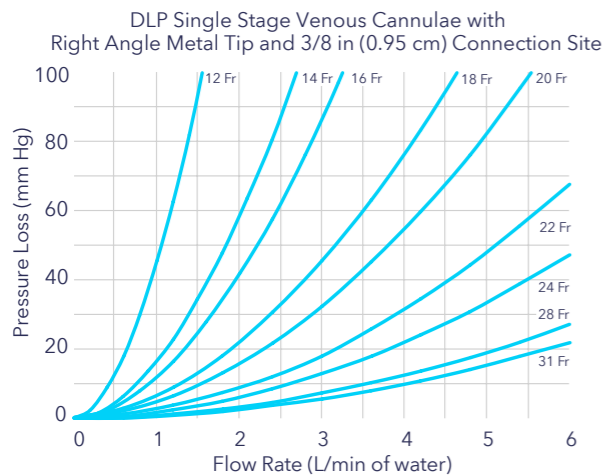
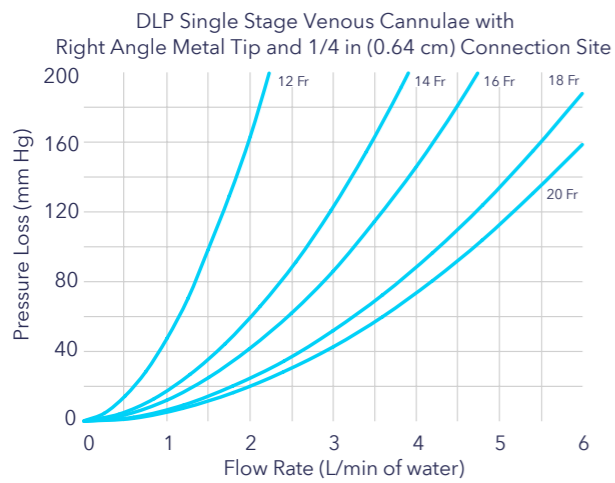
- ▶ DLP™ Single Stage with Right Angle Metal Tip ..... 30
- ▶ DLP™ Single Stage ..... 31
- ▶ DLP™ Single Stage with right angle ..... 32
- ▶ DLP™ Malleable Single Stage ..... 33
- ▶ VC2™ ..... 34
- ▶ MC2™ Two Stage ..... 35
- ▶ MC2X™ Three Stage ..... 36

# Venous Cannulae

## 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.



\* Also available with Cortiva™ BioActive Surface.



**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)

**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*



**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)

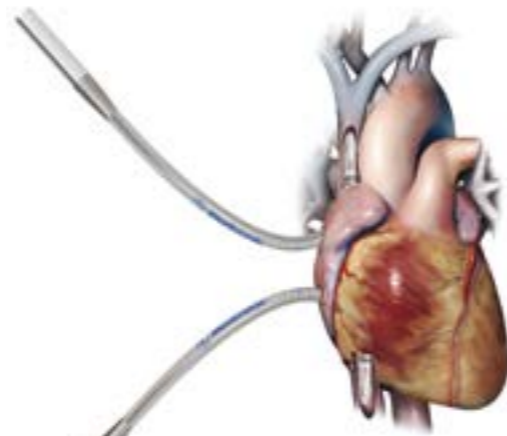
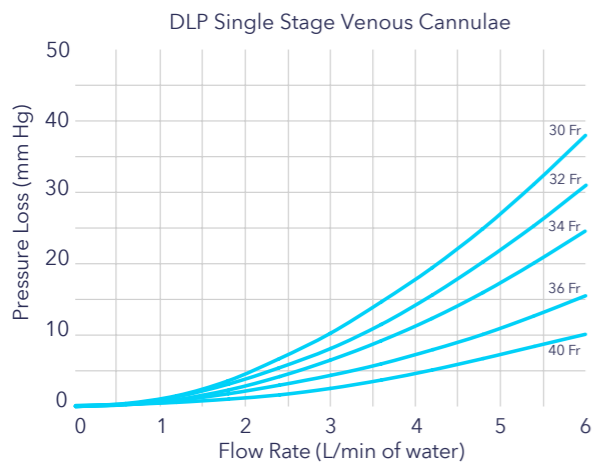
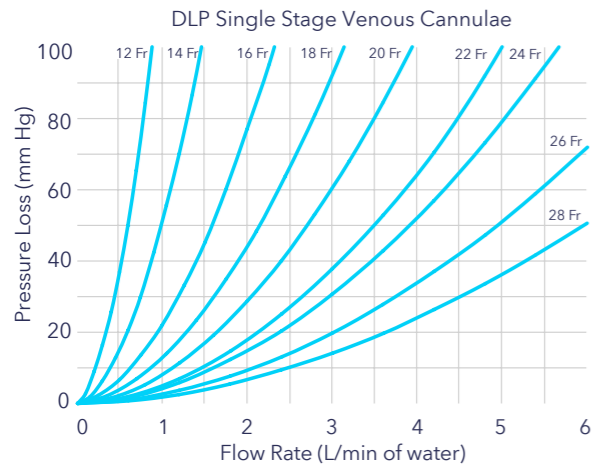
*10 per carton*

# Venous Cannulae

## 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

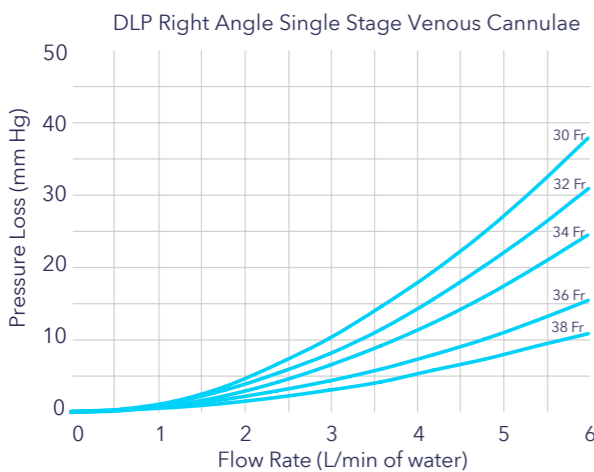
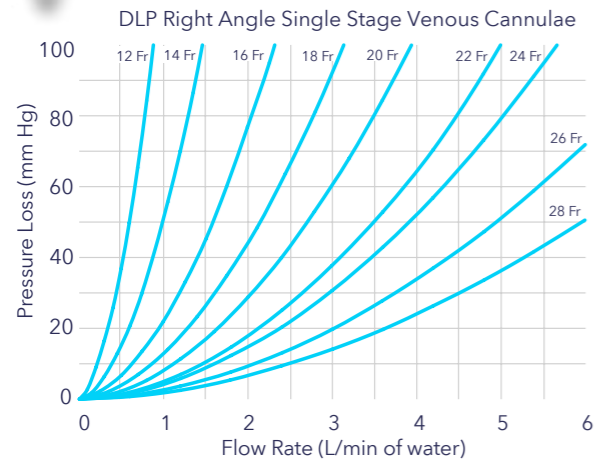
\* Also available with Cortiva™ BioActive Surface.

# Venous Cannulae

## DLP™ Single Stage Venous Cannulae with right angle



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



\* Also available with Cortiva™ BioActive Surface.

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

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

<b>67512</b>	12 Fr (4.0 mm)
<b>67514</b>	14 Fr (4.7 mm)
<b>67516</b>	16 Fr (5.3 mm)

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

<b>67518</b>	18 Fr (6.0 mm)
<b>67520*</b>	20 Fr (6.7 mm)
<b>67522</b>	22 Fr (7.3 mm)
<b>67524*</b>	24 Fr (8.0 mm)

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

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

10 per carton

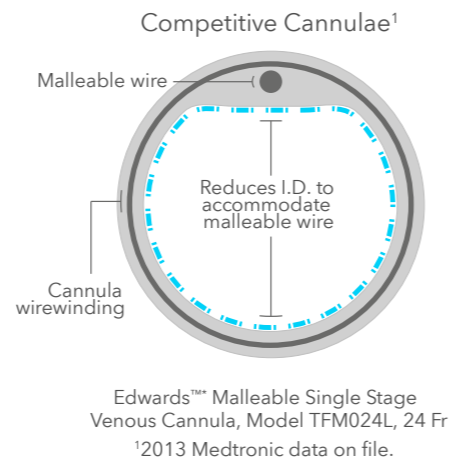
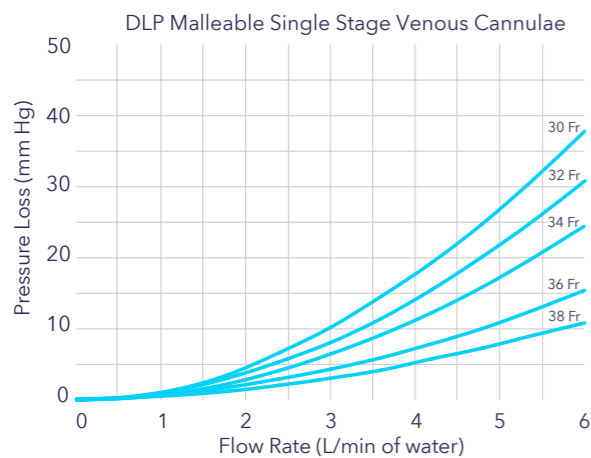
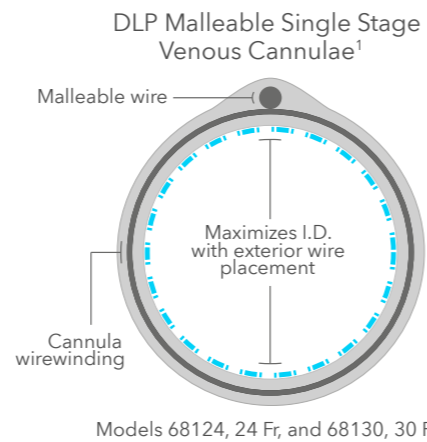
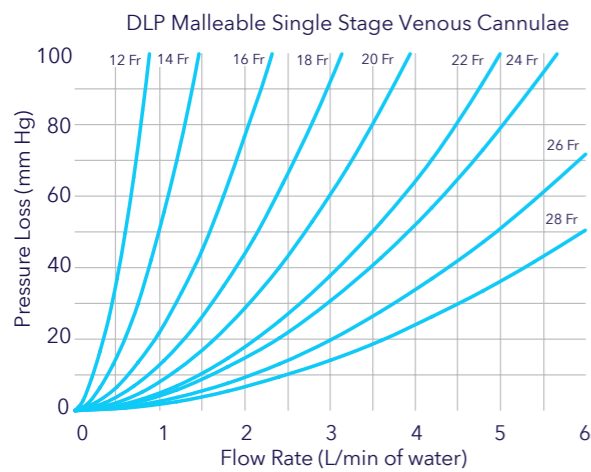


# Venous Cannulae

## 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)

<b>68112*</b>	12 Fr (4.0 mm)
<b>68114*</b>	14 Fr (4.7 mm)
<b>68116*</b>	16 Fr (5.3 mm)

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

<b>68118*</b>	18 Fr (6.0 mm)
<b>68120*</b>	20 Fr (6.7 mm)
<b>68122</b>	22 Fr (7.3 mm)
<b>68124*</b>	24 Fr (8.0 mm)

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

<b>68126</b>	26 Fr (8.7 mm)
<b>68128*</b>	28 Fr (9.3 mm)
<b>68130</b>	30 Fr (10.0 mm)
<b>68132*</b>	32 Fr (10.7 mm)
<b>68134</b>	34 Fr (11.3 mm)

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

<b>68136*</b>	36 Fr (12.0 mm)
<b>68138</b>	38 Fr (12.7 mm)

10 per carton



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

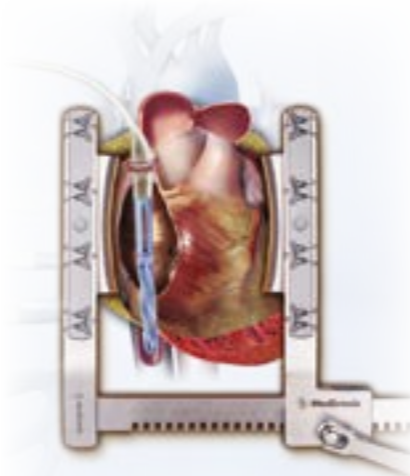
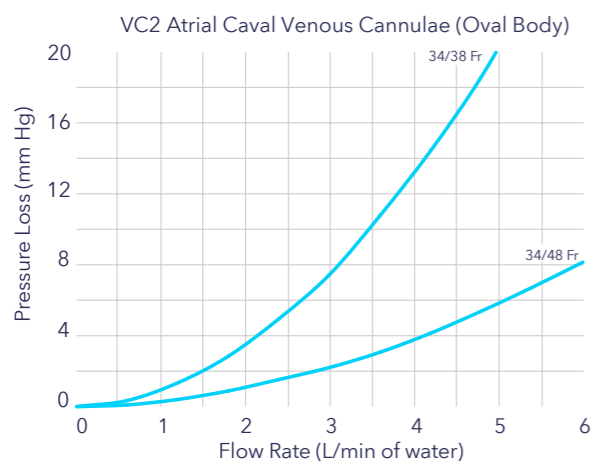
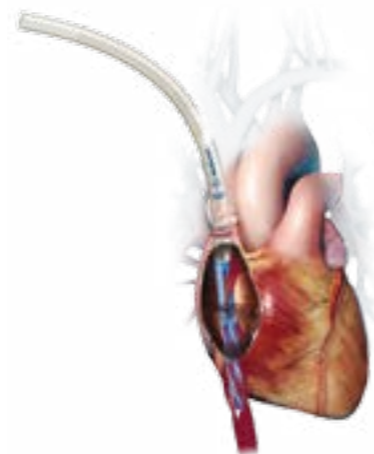
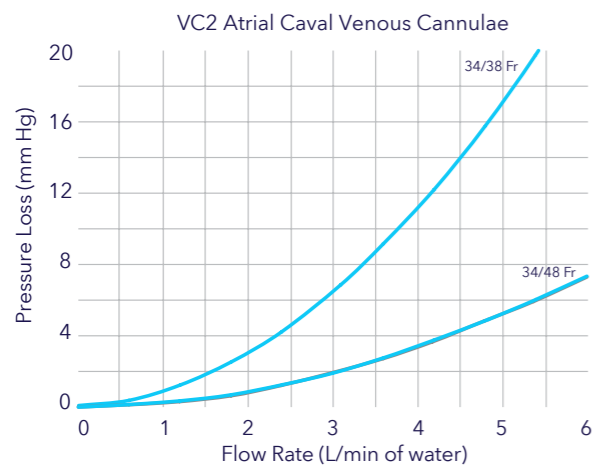
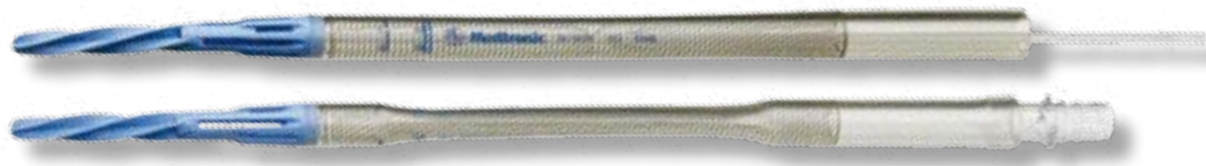
\* Also available with Cortiva™ BioActive Surface.

# Venous Cannulae

## VC2™ 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)

<b>93438</b>	34/38 Fr (11.3/12.7 mm)
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**Wirewound body**  
Connection site 1/2 in (1.27 cm)

<b>93448</b>	34/48 Fr (11.3/16.0 mm)
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**Wirewound body, non-vented**  
1/2 in (1.27 cm) connector

<b>93438C*</b>	34/38 Fr (11.3/12.7 mm)
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<b>93448C</b>	34/48 Fr (11.3/16.0 mm)
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**Oval wirewound body**  
Connection site 3/8 in (0.95 cm)

<b>93463</b>	34/38 Fr (11.3/12.7 mm)
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**Oval wirewound body**  
Connection site 1/2 in (1.27 cm)

<b>93464</b>	34/48 Fr (11.3/16.0 mm)
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**Oval wirewound body, non-vented**  
1/2 in (1.27 cm) connector

<b>93463C</b>	34/38 Fr (11.3/12.7 mm)
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<b>93464C</b>	34/48 Fr (11.3/16.0 mm)
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10 per carton

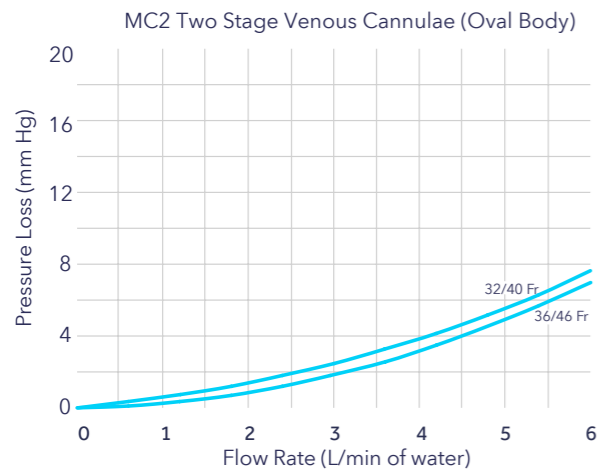
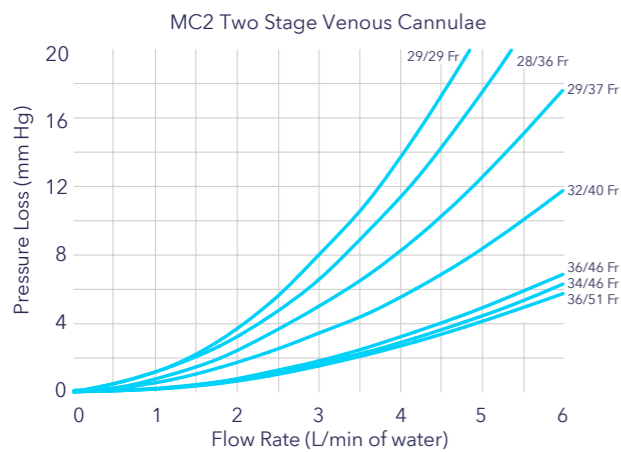
\* Also available with Cortiva™ BioActive Surface.

# Venous Cannulae

## 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.



\* Also available with Cortiva™ BioActive Surface.

### 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

### 15 in (38.1 cm) overall length

#### Reduced stage body Connection site 1/2 in (1.27 cm)

**91229** 29/37 Fr (9.7/12.3 mm)

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

**91229C** 29/37 Fr (9.7/12.3 mm)

#### Thin-wall body Connection site 3/8 in (0.95 cm)

**91329\*** 29/29 Fr (9.7/9.7 mm)

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

**91329C\*** 29/29 Fr (9.7/9.7 mm)

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

**91263\*** 32/40 Fr (10.7/13.3 mm)

**91265\*** 36/46 Fr (12.0/15.3 mm)

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

**91263C\*** 32/40 Fr (10.7/13.3 mm)

**91265C\*** 36/46 Fr (12.0/15.3 mm)

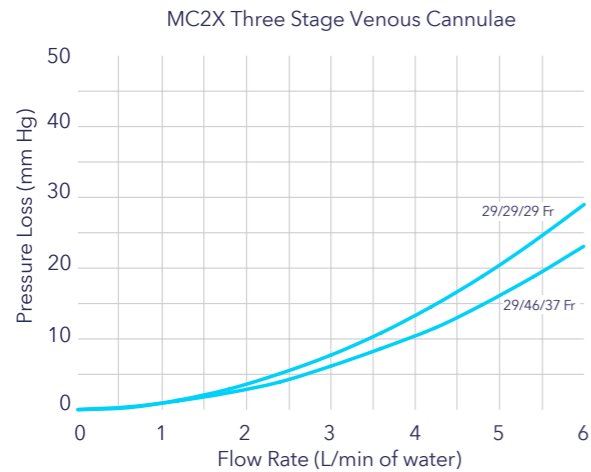
10 per carton

# Venous Cannulae

## 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

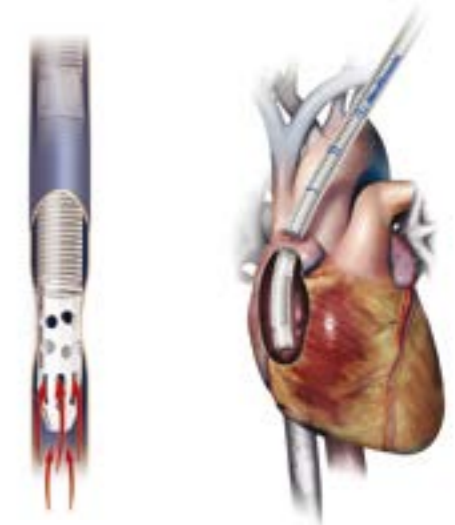
Connection site 3/8 in (0.95 cm)

**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)

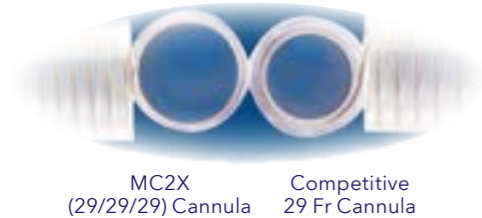
**Non-vented**  
3/8 in (0.95 cm) connector

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

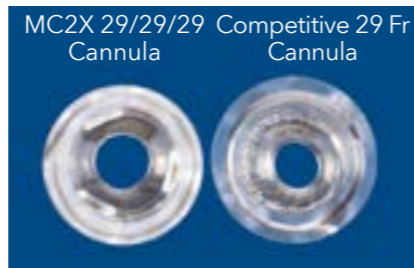
10 per carton



#### Thinner Wall Design



MC2X has a 31% thinner wall for a larger inner diameter when compared to competitive cannula<sup>2</sup>



Larger end hole of the MC2X allows for better flow opportunity<sup>3</sup>  
<sup>2,3</sup> 2013 Medtronic data on file.

\* Also available with Cortiva™ BioActive Surface.

#### Important Safety Information

36 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.



Cardioplegia circuit

# Antegrade cannulae



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



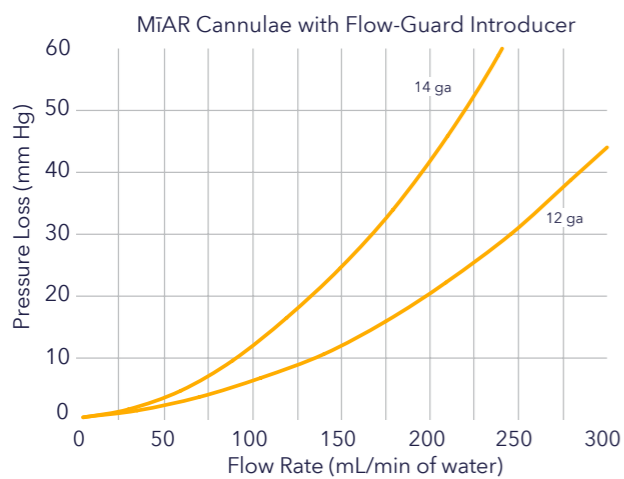
- ▶ MīAR™ Aortic Root with Flow-Guard ..... 39
- ▶ DLP™ Dual Lumen Cardioplegia ..... 40
- ▶ DLP™ Aortic Root ..... 41
- ▶ DLP™ Aortic Root with Vent Line ..... 42
- ▶ DLP™ Cardioplegia Needles ..... 43
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# Antegrade Cannulae

## MiAR™ Aortic Root Cannulae with Flow-Guard



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.



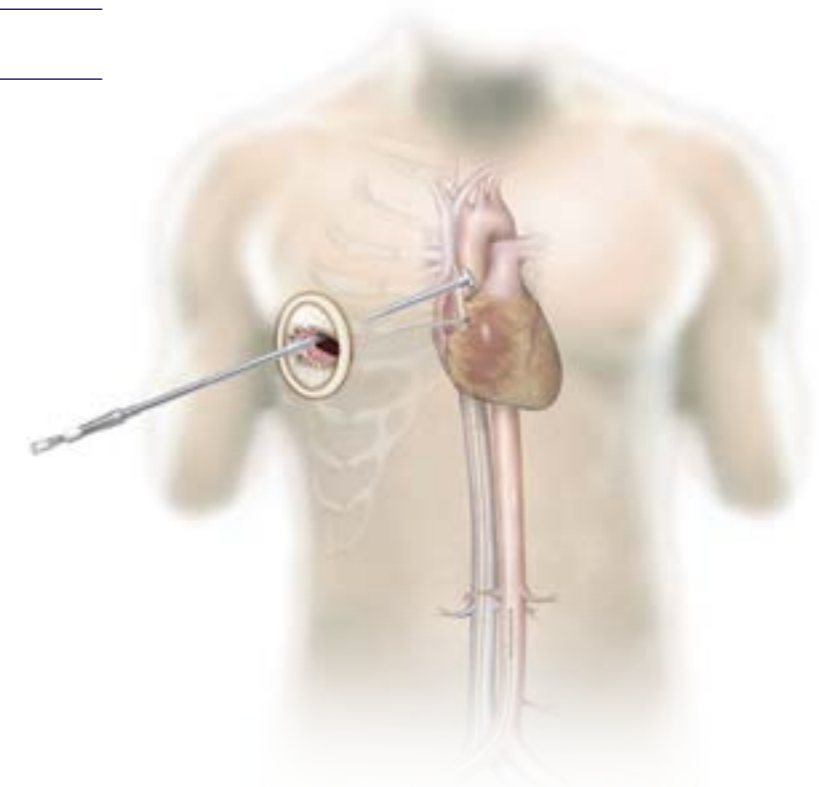
**12.25 in (31 cm)  
overall length**

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

**11012L** 12 ga (9 Fr)

**11014L** 14 ga (7 Fr)

*10 per carton*



### 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.

# Antegrade Cannulae

## DLP™ Dual Lumen Cardioplegia Cannulae



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.

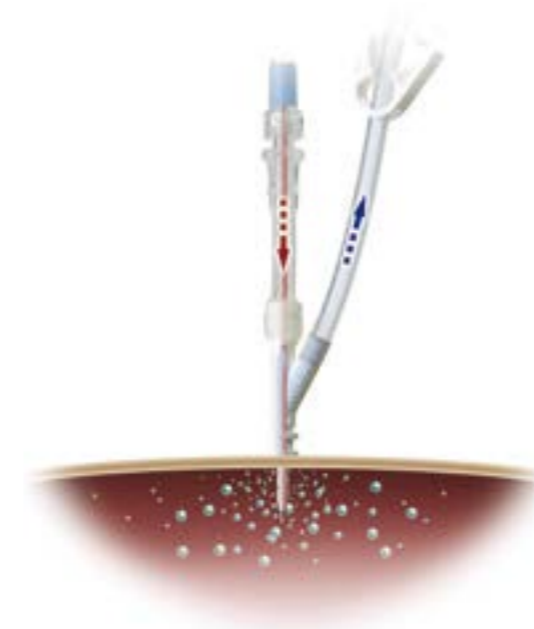
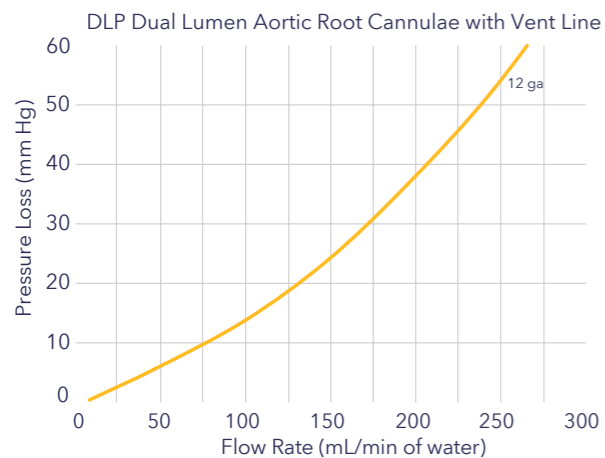


**3.25 in (8.3 cm)**  
overall length

Standard tip

<b>30401</b>	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.

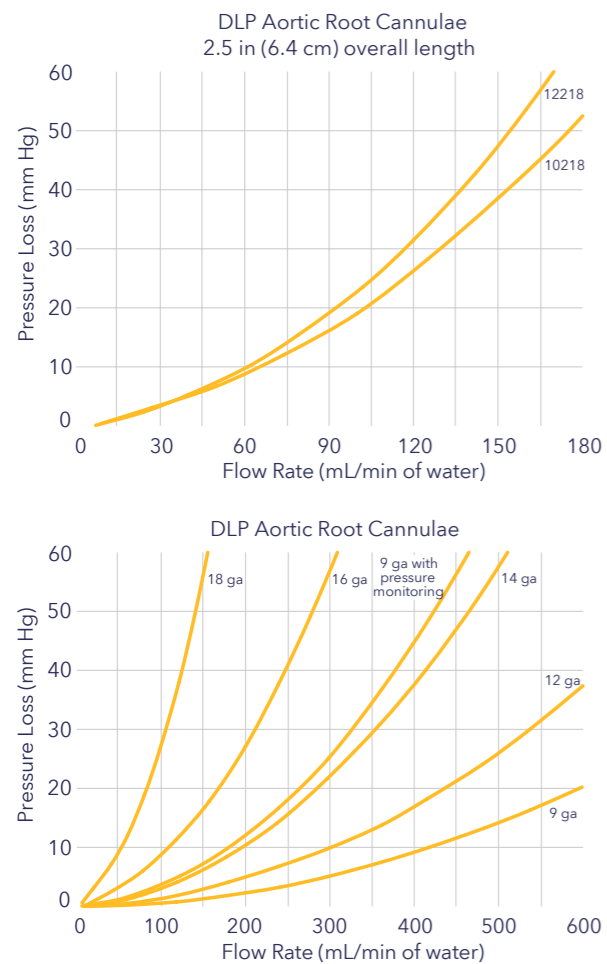


# Antegrade Cannulae

## 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

<b>10218</b>	18 ga (4 Fr) white tip and clear flange
<b>12218</b>	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

<b>10112</b>	12 ga (9 Fr)
<b>10114</b>	14 ga (7 Fr)

20 per carton



### 5.5 in (14.0 cm) overall length

Flanged standard tip and standard introducer

<b>10009</b>	9 ga (11 Fr)
<b>10012*</b>	12 ga (9 Fr)
<b>10014</b>	14 ga (7 Fr)
<b>10016</b>	16 ga (5 Fr)
<b>10018</b>	18 ga (4 Fr)



### 5.25 in (13.3 cm) overall length

Flanged pressure monitoring tip and standard introducer

<b>23009</b>	9 ga (11 Fr)
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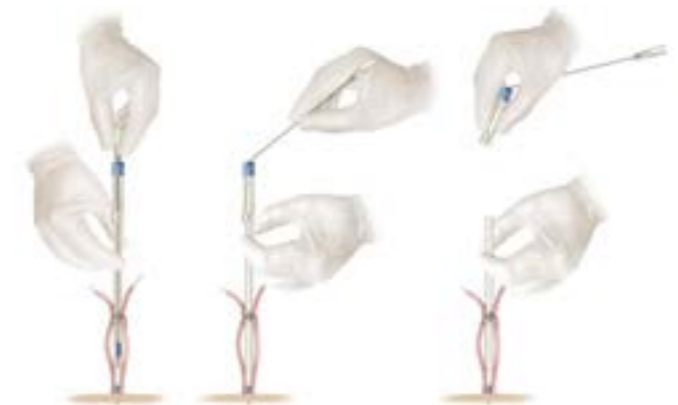
20 per carton



Flanged standard tip and Flow-Guard introducer

<b>11012</b>	12 ga (9 Fr)
<b>11014</b>	14 ga (7 Fr)

20 per carton



Flow-Guard Introducer Application Detail

\* Also available with Cortiva™ BioActive Surface.

#### Important Safety Information

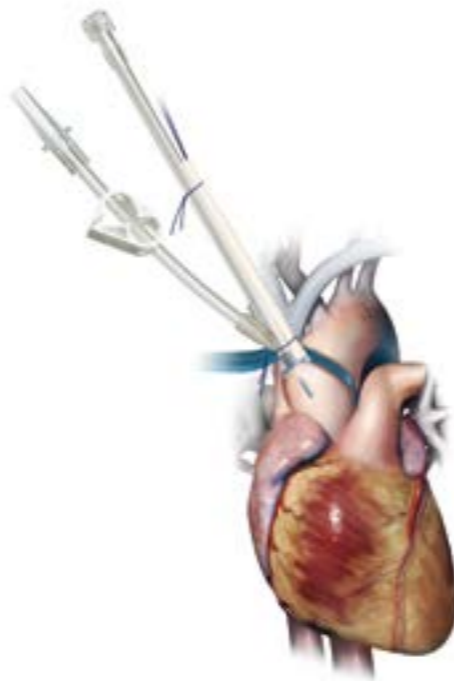
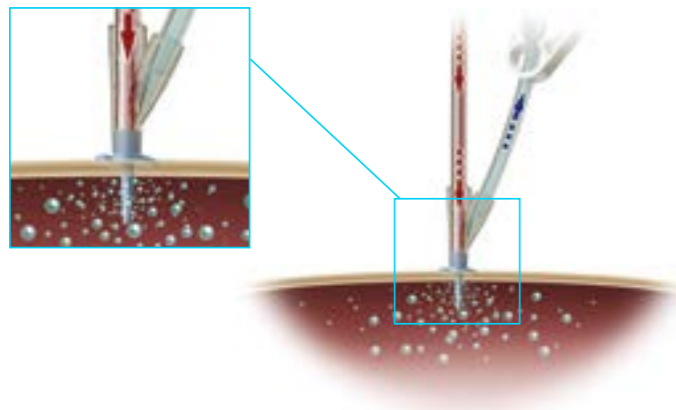
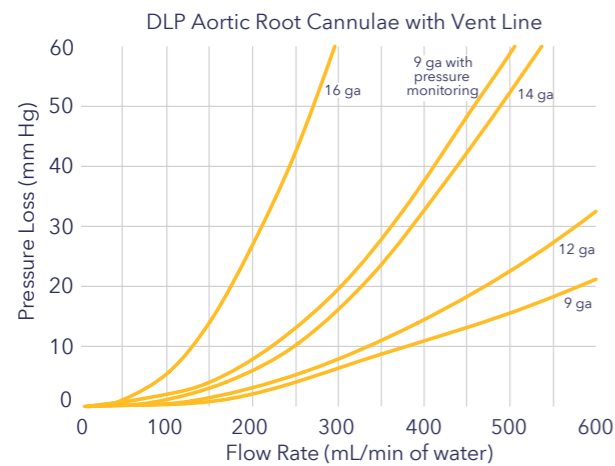
Care should be taken when inserting the needle to prevent perforation of the back wall of the aorta. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. Additional care and caution may be necessary due to the unique adaptations required for minimally invasive techniques.

# Antegrade Cannulae

## 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

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

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

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

20 per carton



### 5.75 in (14.6 cm) overall length

#### Slotted long tip and standard introducer

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

20 per carton



### 5.75 in (14.6 cm) overall length

#### Flanged long tip and standard introducer

20114WF	14 ga (7 Fr)
20114HWF	14 ga (7 Fr) with side holes

20 per carton



### 5.25 in (13.3 cm) overall length

#### Flanged pressure monitoring tip and standard introducer

24009	9 ga (11 Fr)
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20 per carton



\* Also available with Cortiva™ BioActive Surface.

#### 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.

# Antegrade Cannulae

## 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.



### 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)
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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)
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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.

# Antegrade Cannulae

## DLP™ Coronary Ostial Perfusion Cannulae



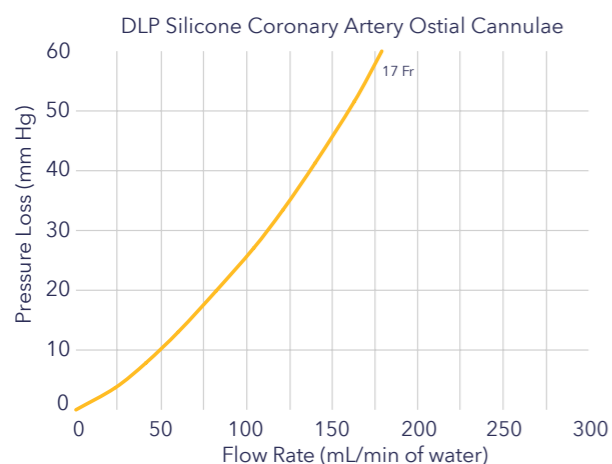
These cannulae feature silicone bodies with soft bulb-shaped tips. All cannulae have a female luer connection site.



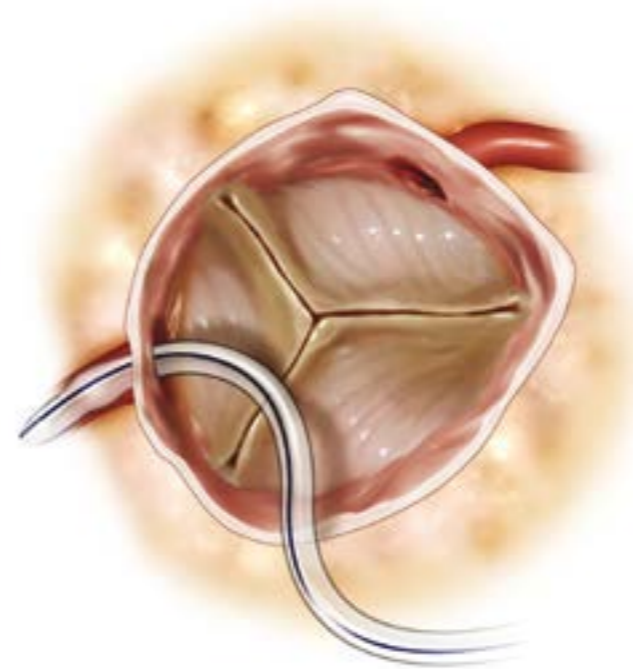
### 10 in (25.4 cm) overall length

<b>30315</b>	15 Fr (5.0 mm) bulb
<b>30317</b>	17 Fr (5.7 mm) bulb
<b>30320</b>	20 Fr (6.7 mm) bulb

10 per carton



Intracoronary cardioplegia



#### Important Safety Information

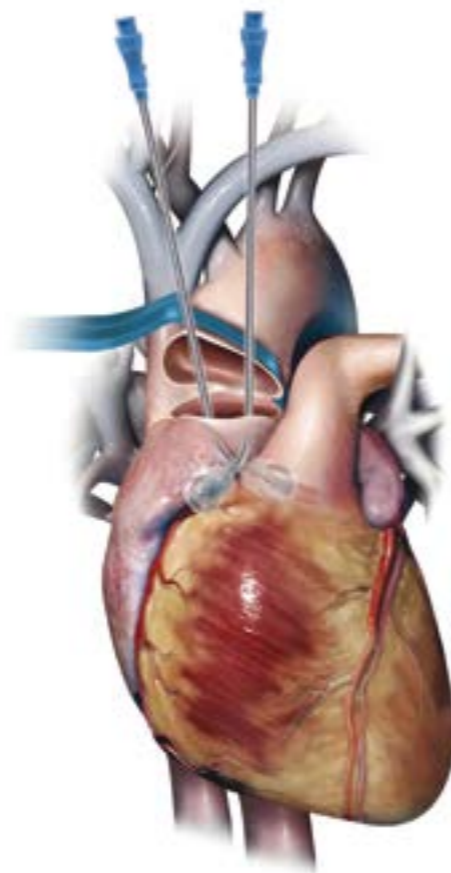
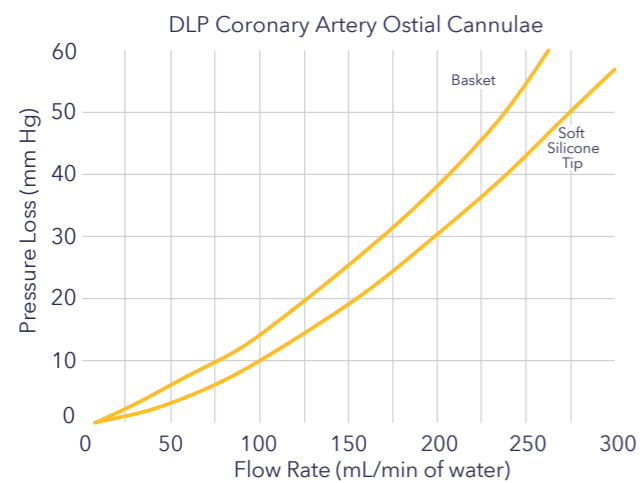
Care should be taken when inserting the needle to prevent perforation of the back wall of the aorta. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. Additional care and caution may be necessary due to the unique adaptations required for minimally invasive techniques.

# Antegrade Cannulae

## DLP™ Coronary Ostial Perfusion 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**

**Soft, concave tip**

**30050**

*10 per carton*



**6 in (15.2 cm)  
overall length**

**Soft, convex tip**

**30055**

*10 per carton*

### Important Safety Information

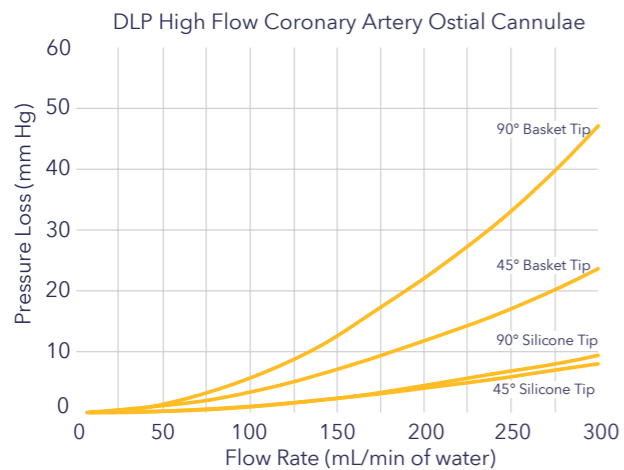
Care should be taken when inserting the needle to prevent perforation of the back wall of the aorta. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. Additional care and caution may be necessary due to the unique adaptations required for minimally invasive techniques.

# Antegrade Cannulae

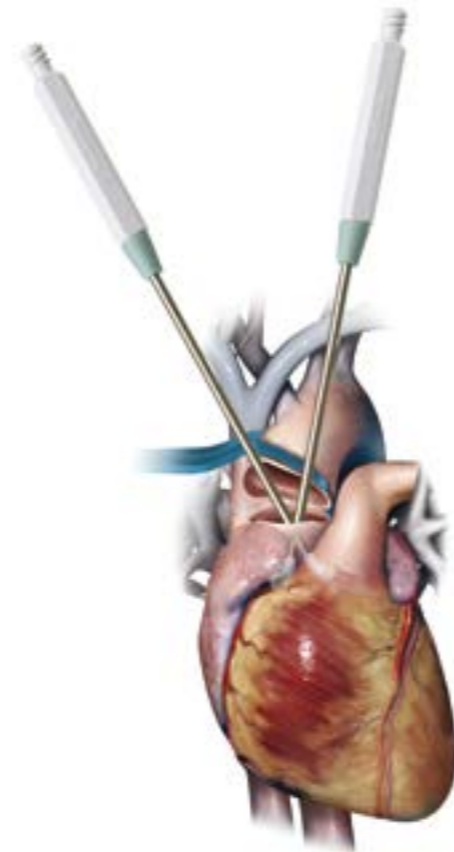
## DLP™ Coronary Ostial Perfusion Cannulae



These high flow 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.



Ostial antegrade cardioplegia



**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)

*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*

### 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.

Cardioplegia circuit

# Retrograde cannulae



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.

# Retrograde cannulae



- ▶ Gundry™ Retrograde Coronary Sinus Perfusion with Manual-Inflate Cuff ..... 49
- ▶ DLP™ Retrograde Coronary Sinus Perfusion with Manual-Inflate Cuff ..... 50
- ▶ DLP™ Retrograde Coronary Sinus Perfusion with Auto-Inflate Cuff ..... 52

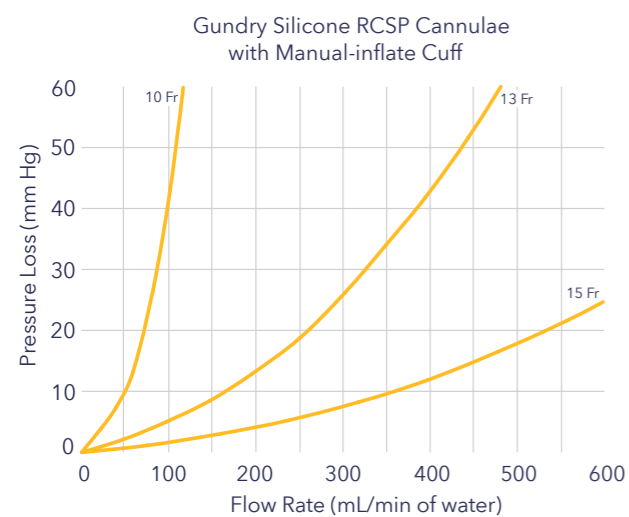
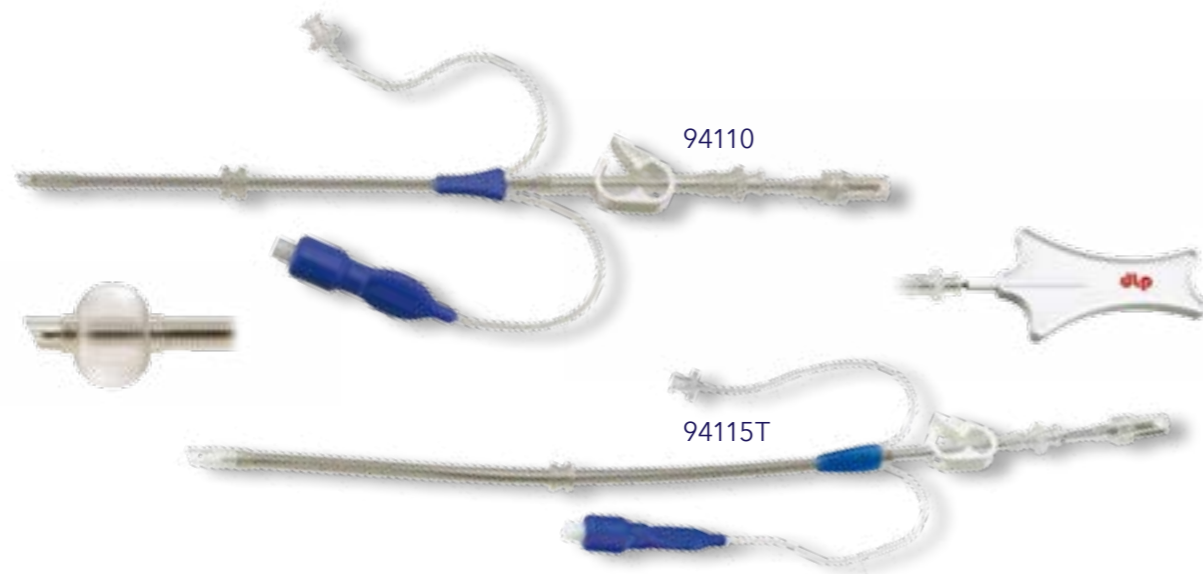


# Retrograde Cannulae

## Gundry™ Retrograde Coronary Sinus Perfusion 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

<b>94110</b>	10 Fr (3.3 mm) guidewire styletw
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4 per carton

### 12.5 in (31.8 cm) overall length

#### Smooth cuff and wirewound body

<b>94115T</b>	15 Fr (5.0 mm) guidewire stylet
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10 per carton

### 12.5 in (31.8 cm) overall length

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

<b>94113T</b>	13 Fr (4.3 mm) guidewire stylet
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10 per carton

<b>94615</b>	15 Fr (5.0 mm) guidewire stylet
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4 per carton

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

#### Important Safety Information

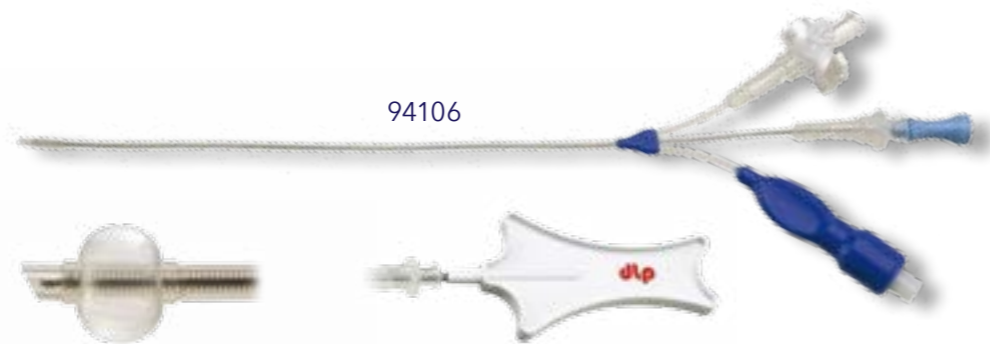
Extreme caution should be exercised while introducing the cannula into the coronary sinus. Do not force the cannula into the coronary sinus as this may cause vessel damage. Do not overinflate the balloon.

# Retrograde Cannulae

## DLP™ Retrograde Coronary Sinus Perfusion 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.



### 9.5 in (24.1 cm) overall length

Smooth cuff, non-wirewound body, and integral stopcock

<b>94006</b>	6 Fr (2.0 mm) no stylet
<b>94106</b>	6 Fr (2.0 mm) guidewire stylet

4 per carton

### 12.5 in (31.8 cm) overall length

Smooth cuff and wirewound body

<b>94215T</b>	15 Fr (5.0 mm) solid stylet
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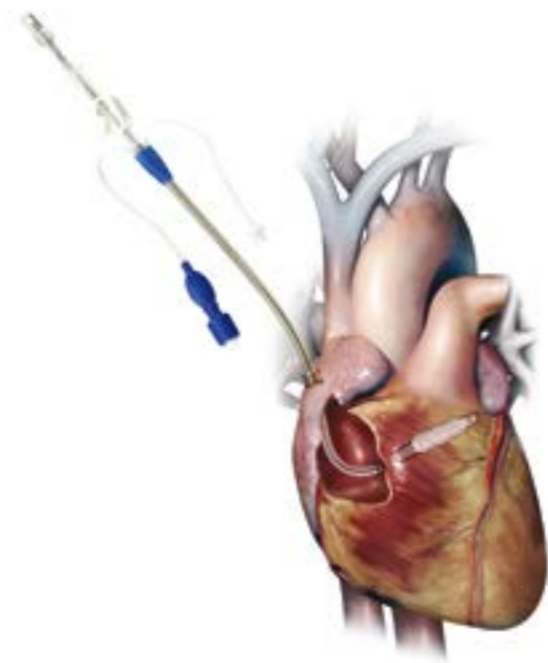
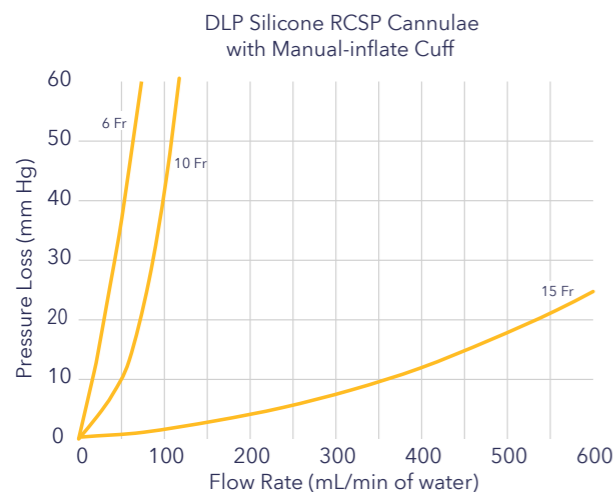
10 per carton

### 12.5 in (31.8 cm) overall length

Smooth cuff, wirewound body, and integral stopcock

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



#### Important Safety Information

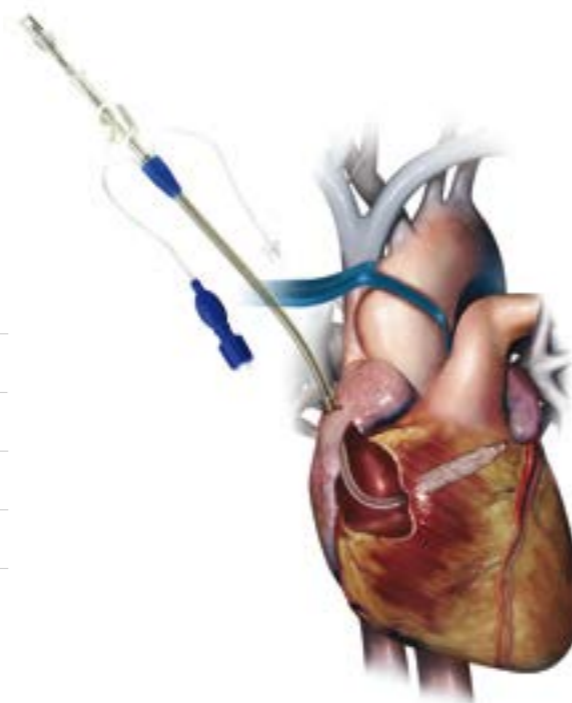
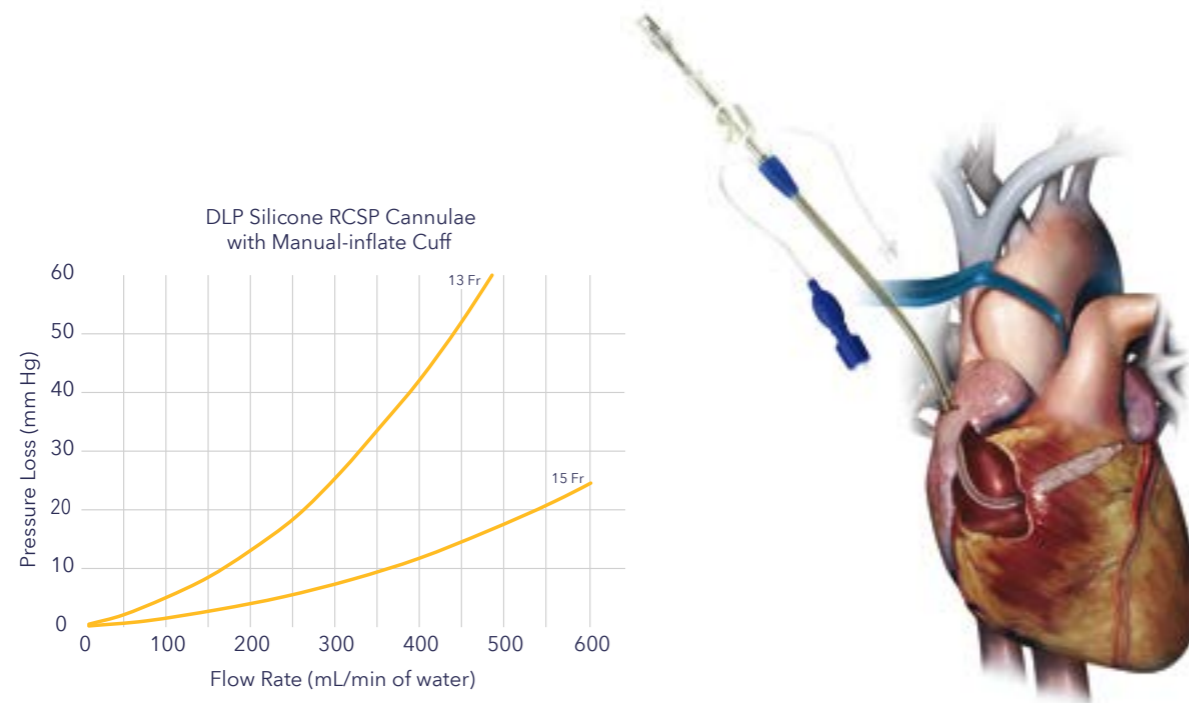
Extreme caution should be exercised while introducing the cannula into the coronary sinus. Do not force the cannula into the coronary sinus as this may cause vessel damage. Do not overinflate the balloon.

# Retrograde Cannulae

## DLP™ Retrograde Coronary Sinus Perfusion 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**

<b>94625</b>	15 Fr (5.0 mm) solid stylet
<b>94665</b>	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**

<b>94913</b>	13 Fr (4.3 mm) guidewire stylet
<b>94913L</b>	13 Fr (4.3 mm) guidewire stylet and 6 in (15.2 cm) pressure monitoring and inflation line
<b>94915</b>	15 Fr (5.0 mm) guidewire stylet
<b>94965</b>	15 Fr (5.0 mm) guidewire stylet with Tru-Touch™ handle
<b>94975</b>	15 Fr (5.0 mm) solid stylet with Tru-Touch handle

*10 per carton*

### Important Safety Information

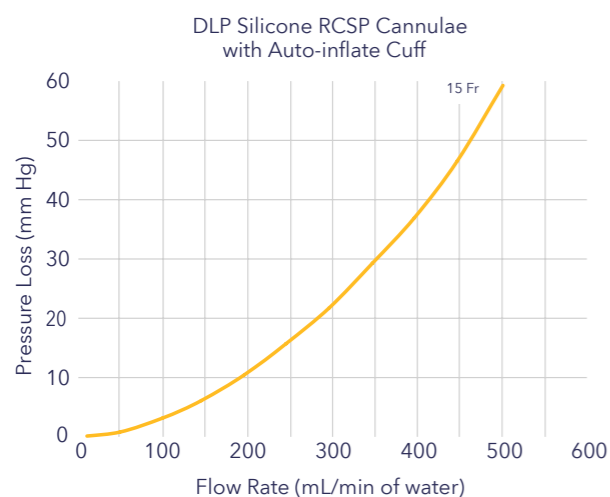
Additional care and caution may be necessary due to the unique adaptations required for minimally invasive techniques. Due to limitations of direct visualization during minimally invasive techniques, echocardiographic or fluoroscopic imaging is recommended. Care and caution should be taken to avoid damage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

# Retrograde Cannulae

## DLP™ Retrograde Coronary Sinus Perfusion 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**

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

*10 per carton*

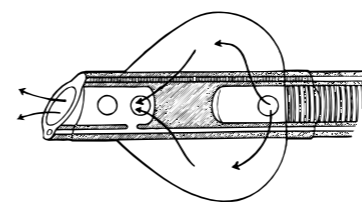


**12.5 in (31.8 cm) overall length**

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

<b>94995</b>	15 Fr (5.0 mm) guidewire stylet with Tru-Touch handle
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*10 per carton*



Silicone Auto-inflate Cuff 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.

# Retrograde Cannulae

## DLP™ Retrograde Coronary Sinus Perfusion 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.



### 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 stylet with Tru-Touch™ handle

10 per carton



### 11 in (27.9 cm) overall length

Smooth preformed cuff, multiport tip, and integral stopcock

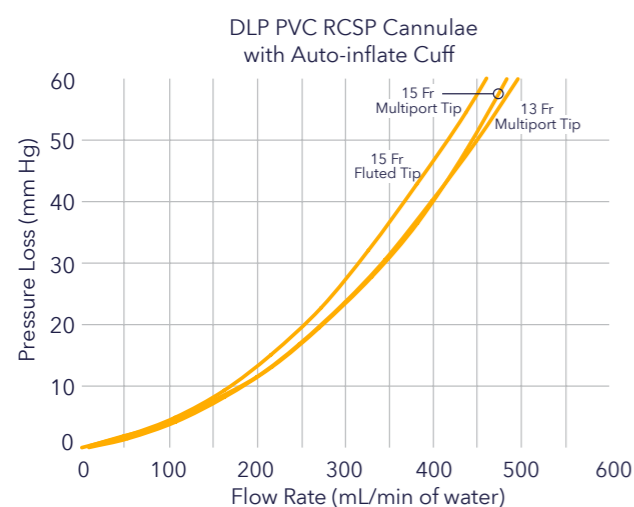
**94533**

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

**94535**

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

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.

# Retrograde Cannulae

## DLP™ Retrograde Coronary Sinus Perfusion Cannulae with Auto-Inflate Cuff



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



### 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



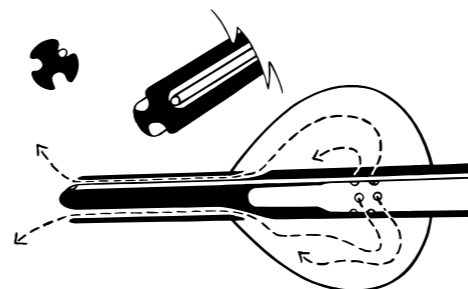
### 12.5 in (31.8 cm) overall length

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

**94935**

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

10 per carton



PVC Auto-inflate Cuff Flow Detail



94885

Stylet



### 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

#### 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.



Cardioplegia circuit

# Cardiognade adapters



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



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# Cardioplegia Adapters

## 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

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

40 per carton



### 3.25 in (8.3 cm) overall length

#### Tubing and female luer

<b>10022</b>	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

<b>13002</b>	
--------------	--

20 per carton



#### Important Safety Information

Cardioplegia adapter devices are a combination of products that have their own indications, contraindications, precautions, warnings, and potential adverse events. Refer to those components individually. Cardioplegia adapter devices are not intended for use except as indicated. Use the lowest possible pressure to reduce risk of hemolysis or risk of vessel damage. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures.

# Cardioplegia Adapters

## 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
--------------	---------------

10 per carton



### 20 in (50.8 cm) overall length

Male and winged female luers

<b>11001G</b>	with clamp
---------------	------------

20 per carton

# DLP™ Pressure Monitoring Extension Line Adapters

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

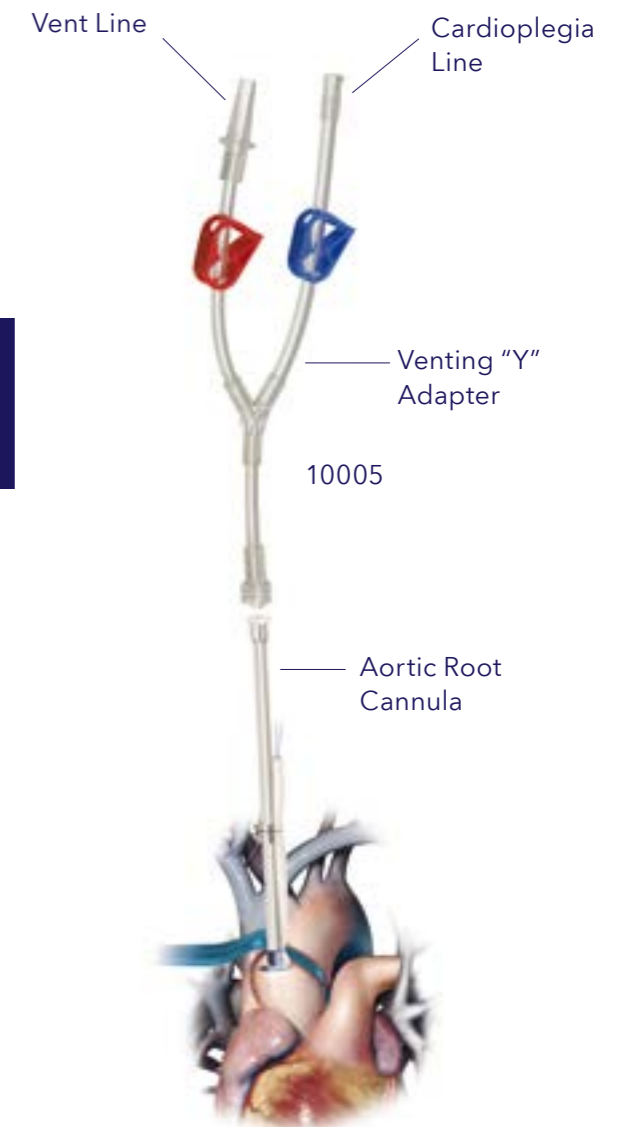
### 6 ft (1.8 m) overall length

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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# Cardioplegia Adapters

## DLP™ Straight 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

<b>10001</b>	with vented 1/4 in connector
<b>10001K</b>	with vented 1/4 in connector and clamp

20 per carton



# DLP™ "Y" 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

<b>10005†</b>	7.5 in (19.1 cm) overall length with 3 in (7.6 cm) inlet leg and color-coded clamps
<b>10534</b>	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.

#### Important Safety Information

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# Cardioplegia Adapters

## DLP™ "Y" Type Recirculating Adapters



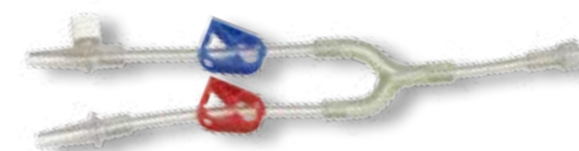
These adapters feature a soft "Y" that has a two-leg option with 1/4 inch (0.64 cm) connectors and venting capabilities or a three-leg option that terminates with male luers.

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

**Male luer on single leg**

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

20 per carton



# 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**

<b>10004</b>	3.5 in (8.9 cm) and 10 in (25.4 cm) legs and white clamps
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<b>10004D</b>	6 in (15.2 cm) legs and white clamps
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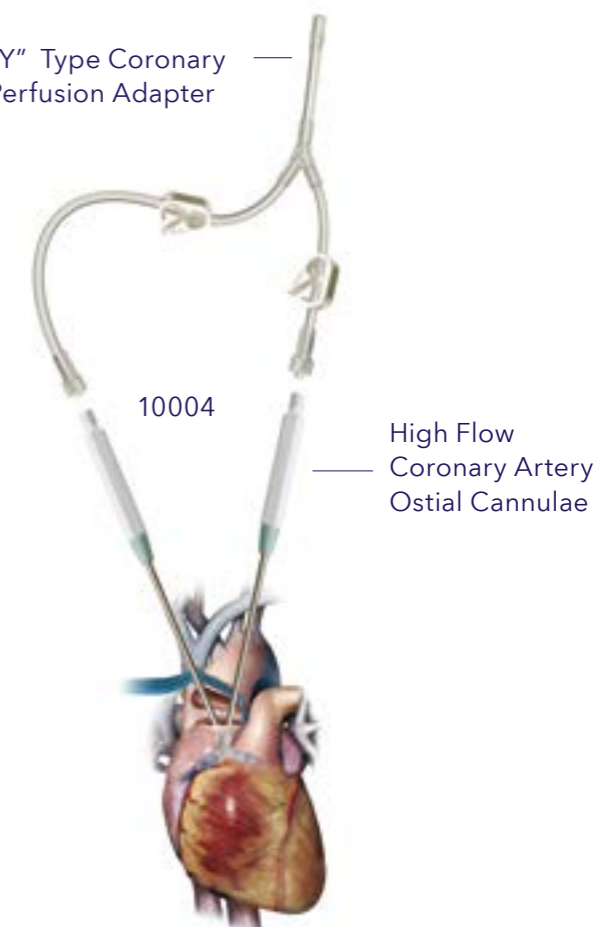
<b>10700</b>	3.5 in (8.9 cm) and 10 in (25.4 cm) legs and color-coded clamps
--------------	---

<b>10706</b>	6 in (15.2 cm) soft, silicone-like PVC legs and white clamps
--------------	--

<b>10710</b>	10 in (25.4 cm) soft, silicone-like PVC legs and white clamps
--------------	---

20 per carton

"Y" Type Coronary Perfusion Adapter



### Important Safety Information

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# Cardioplegia Adapters

## DLP™ "Y" 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
---------	--------------------------------------

20 per carton



#### Important Safety Information

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# Cardioplegia Adapters

## 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.



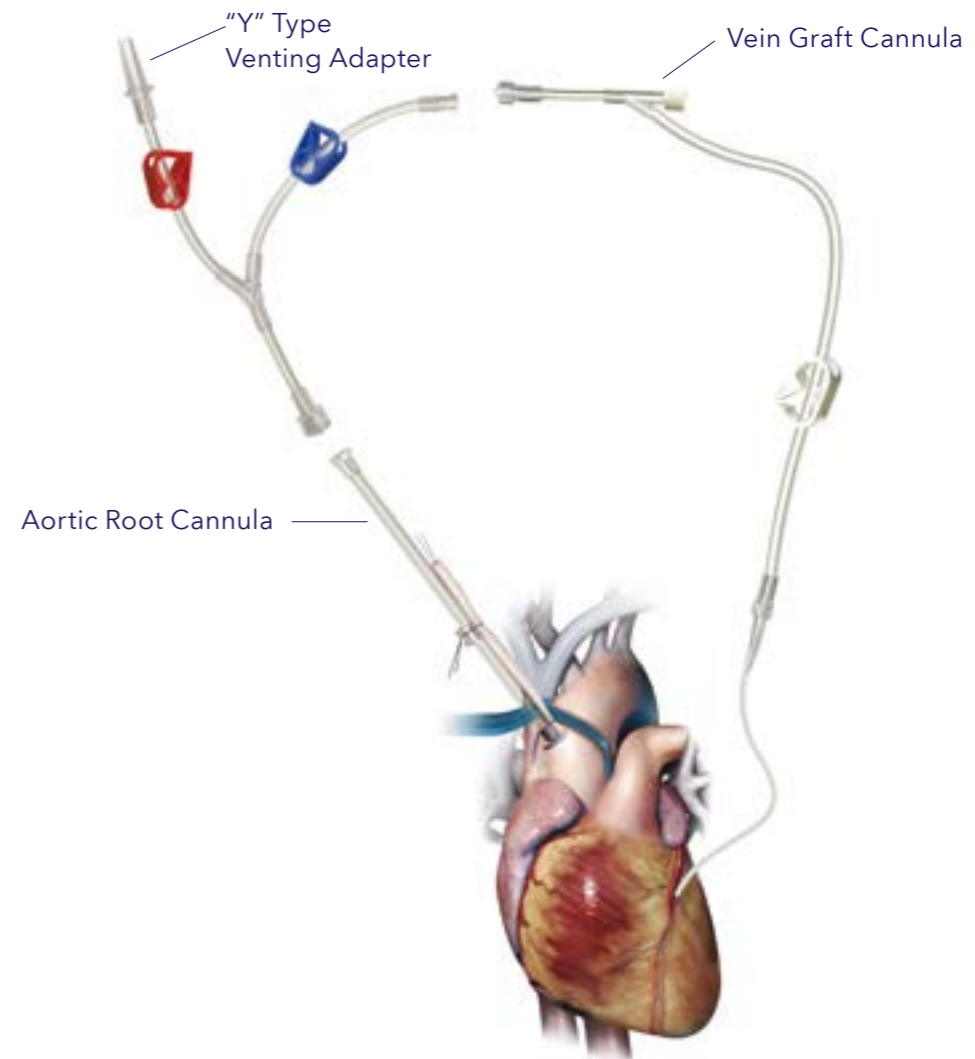
**25.5 in (63.5 cm) overall length**

**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.

### Important Safety Information

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# Cardioplegia Adapters

## 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

# ARISS™ Perfusion Switches

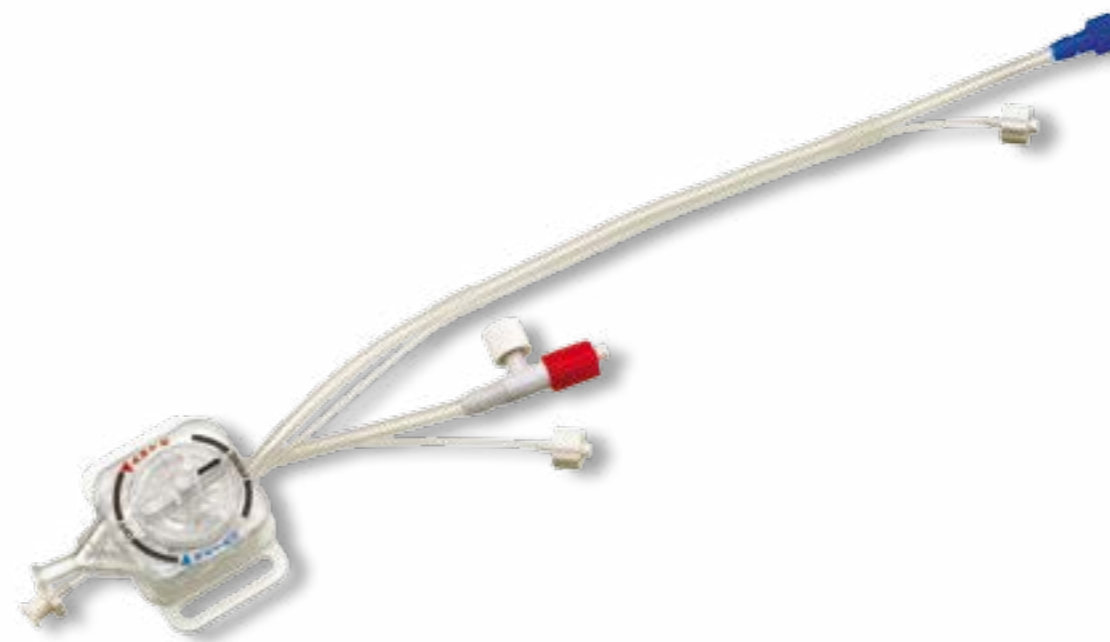
These table mount models allow the surgeon to switch between antegrade and retrograde cardioplegia delivery. These versions feature pressure monitoring lines that run alongside the inlet and outlet ports. The outlet ports are color coded for easy identification.

### 13 in (33.0 cm) overall length

#### Table mount models

13000	unequal legs
13004	equal legs

10 per carton



#### Important Safety Information

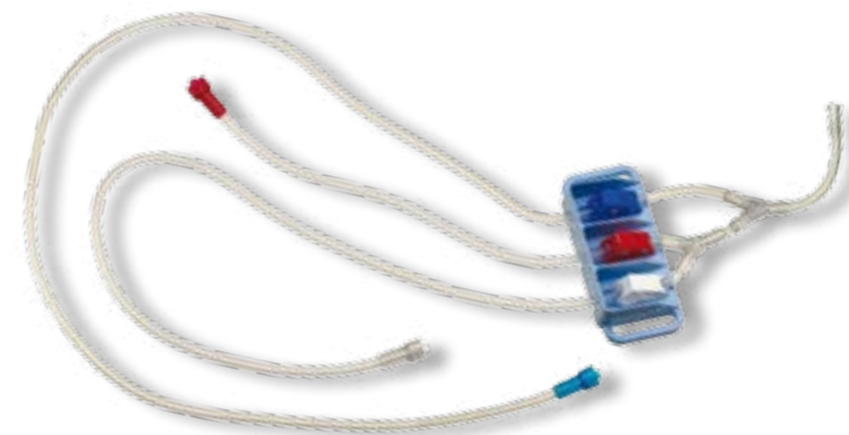
Cardioplegia adapter devices are a combination of products that have their own indications, contraindications, precautions, warnings, and potential adverse events. Refer to those components individually. Cardioplegia adapter devices are not intended for use except as indicated. Use the lowest possible pressure to reduce risk of hemolysis or risk of vessel damage. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures.

# Cardioplegia Adapters

## DLP™ Cardioplegia Management Set



This product features soft tubing with three legs that terminate in male luer. 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

# DLP™ Antegrade/Retrograde Stopcock Adapter

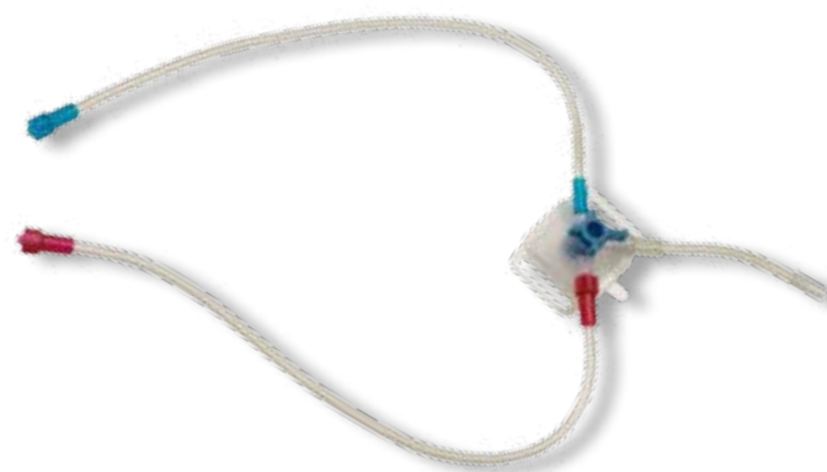
This adapter features a large-bore, three-way stopcock and male luers on the outlet ports.

### 26.5 in (67.3 cm) overall length

### Female luer on single leg

13001
-------

10 per carton



### Important Safety Information

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# Cardioplegia Adapters

## 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 luer. 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

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

10 per carton



14000



14001

### 15 in (38.1 cm) overall length

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

<b>14000</b>	1 - 3 in (7.6 cm) length leg with blue clamp 3 - 10 in (25.4 cm) length legs with red clamps
--------------	---

10 per carton

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

<b>14001</b>	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
<b>14017</b>	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
<b>14031</b>	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

10 per carton



#### Important Safety Information

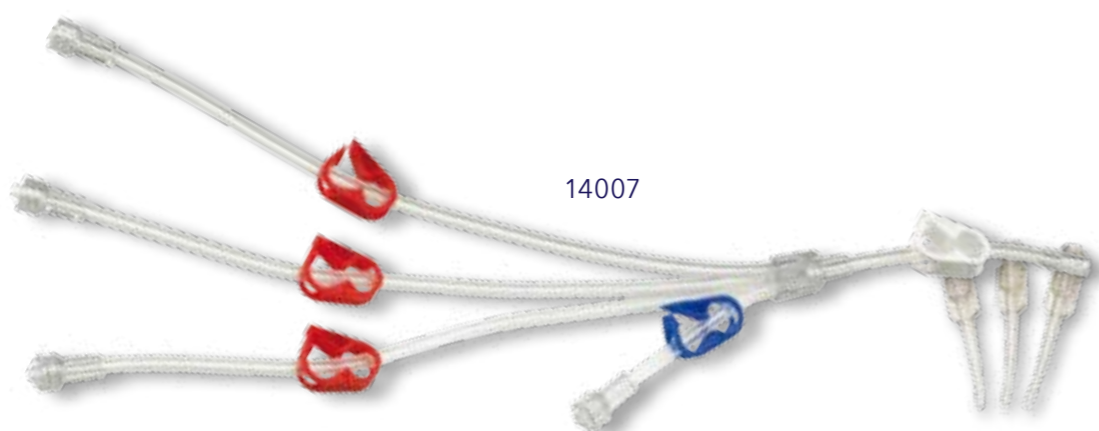
Cardioplegia adapter devices are a combination of products that have their own indications, contraindications, precautions, warnings, and potential adverse events. Refer to those components individually. Cardioplegia adapter devices are not intended for use except as indicated. Use the lowest possible pressure to reduce risk of hemolysis or risk of vessel damage. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures.

# Cardioplegia Adapters

## 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 luers 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.



14007

### 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

10 per carton

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

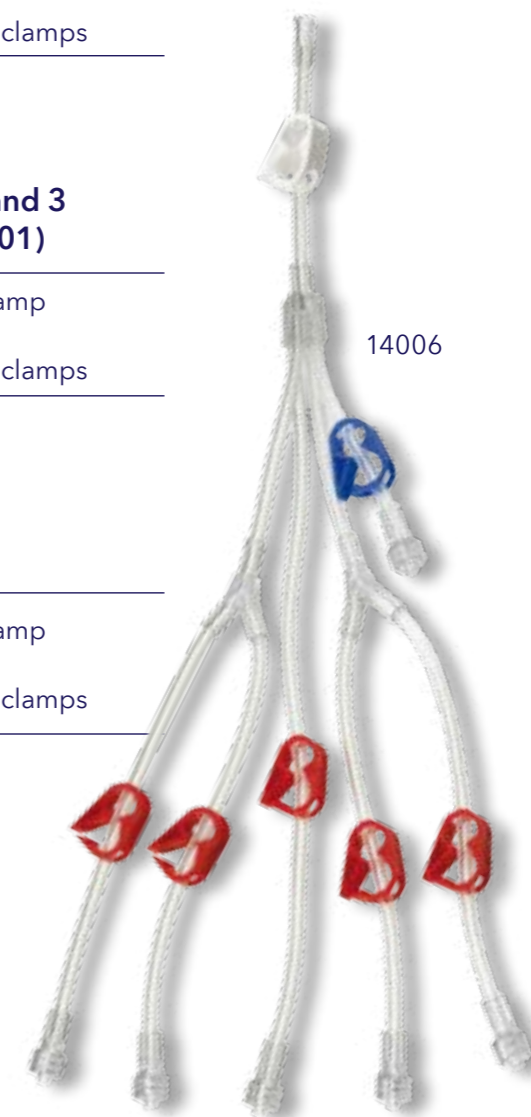
<b>14008</b>	1 - 3 in (7.6 cm) length leg with blue clamp
	3 - 10 in (25.4 cm) length legs with red clamps

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

10 per carton



14006

#### Important Safety Information

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## Products

# Suction circuit



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



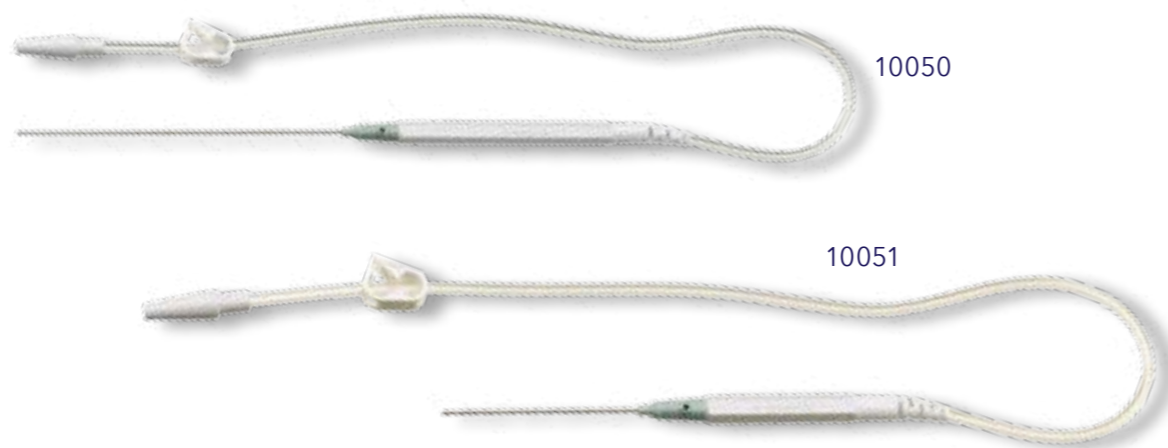
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# Suction circuit

## 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.



Frazier tip



Soft tip



### 3 in (7.6 cm)

approx. shaft and tip length

#### Frazier tip

<b>10051</b>	6 Fr (2.0 mm) shaft
--------------	---------------------

#### Soft tip

<b>10053</b>	6 Fr (2.0 mm) shaft with 10 Fr (3.3 mm) tip
--------------	--

20 per carton

### 6 in (15.2 cm)

approx. shaft and tip length

#### Frazier tip

<b>10050</b>	6 Fr (2.0 mm) shaft
--------------	---------------------

#### Soft tip

<b>10052</b>	6 Fr (2.0 mm) shaft with 10 Fr (3.3 mm) tip
--------------	--

20 per carton

# Suction circuit

## DLP™ Cardiac Suction Tubes



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*

# Suction circuit

## DLP™ Cardiac 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

#### Important Safety Information

Neither Model 10061 nor Model 10062 should be placed through the mitral valve. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures.

# Suction circuit 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**

**12010**

20 Fr (6.7 mm), 1/4 in  
(0.64 cm) connector

*20 per carton*

# 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*

### Important Safety Information

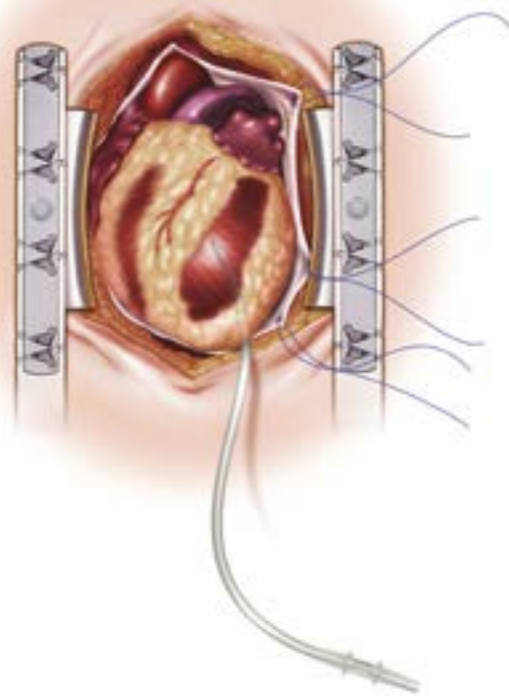
The Pericardial Sump (Model 12010) is not intended to be placed through a valve to drain a closed cardiac chamber. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures.



# Suction circuit DLP™ Cardiac Sump



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

<b>12013</b>	12 Fr (4.0 mm) (10 holes in tip)
--------------	-------------------------------------

20 per carton

## 15 in (38.1 cm) overall length

<b>12012</b>	20 Fr (6.7 mm) (28 holes in tip)
--------------	-------------------------------------

20 per carton

# Suction circuit

## 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**

<b>12008*</b>	10 Fr (3.3 mm) (8 holes in tip)
---------------	------------------------------------

20 per carton

**Preformed 2 in (5.1 cm) tip and vented connector**

<b>12001</b>	13 Fr (4.3 mm) (14 holes in tip)
--------------	-------------------------------------

20 per carton

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

<b>12101</b>	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**

<b>12110</b>	10 Fr (3.3 mm) (9 holes in tip)
--------------	------------------------------------

<b>12113</b>	13 Fr (4.3 mm) (9 holes in tip)
--------------	------------------------------------

<b>12115</b>	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**

<b>12116</b>	16 Fr (5.3 mm) (11 holes in tip)
--------------	-------------------------------------

<b>12118</b>	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**

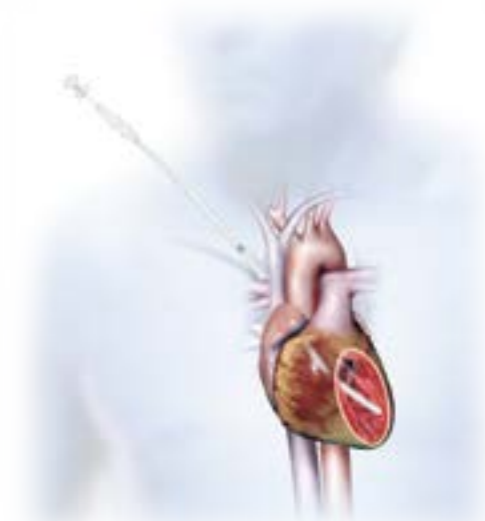
<b>12016</b>	16 Fr (5.3 mm) (20 holes in tip)
--------------	-------------------------------------

<b>12002</b>	20 Fr (6.7 mm) (24 holes in tip)
--------------	-------------------------------------

**Non-vented connector and preformed introducer**

<b>12220</b>	20 Fr (6.7 mm) (24 holes in tip)
--------------	-------------------------------------

20 per carton



\* Also available with Cortiva™ BioActive Surface.



## Products

# Surgical support



The largest cannula portfolio worldwide.

Our commitment  
– **to you.**

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.

Surgical support



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# Surgical support

## DLP™ Disposable Pressure Display Sets

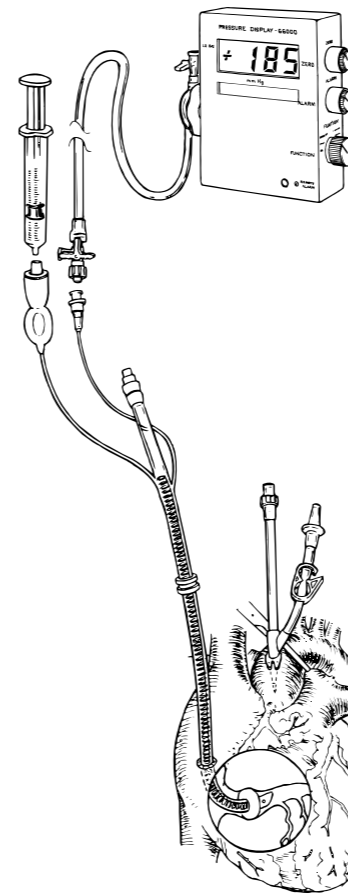


These display sets are for use with our Pressure Display Box. They feature a silicone diaphragm inside a plastic dome with a stopcock that attaches to the transducer fitting on the Pressure Display Box. This dome is attached to a coil of tubing that terminates with either a male luer or a stopcock for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

### 45 in (1.14 m) overall length

61000	stopcock
62000	male luer

10 per carton



# Surgical support DLP™ Tourniquet Sets



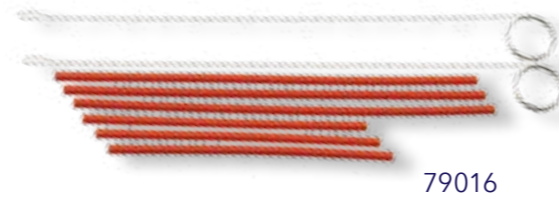
These tourniquet sets consist of color-coded tubes in varying lengths and color combinations. They are available for pediatric and adult uses. Wire snares are included with the tube sets.

## Standard sets

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

<b>79016</b>	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)

<b>79003</b>	12 Fr (1 - red, 2 - blue, 3 - clear, 1 - snare)
<b>79015</b>	12 Fr (1 - red, 2 - blue, 5 - clear, 2 - snares)

40 sets per carton



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

<b>79004</b>	12 Fr (1 - red, 1 - blue, 1 - snare)
<b>79006</b>	12 Fr (1 - red, 1 - blue, 3 - clear, 1 - snare)

40 sets per carton

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

20 sets per carton

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

40 sets per carton



## Vena cava sets

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

<b>79005</b>	12 Fr (3 - clear, 1 - snare)
<b>79009</b>	12 Fr (4 - clear, 1 - snare)

40 sets per carton



# Surgical support

## 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)
<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

# 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.

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

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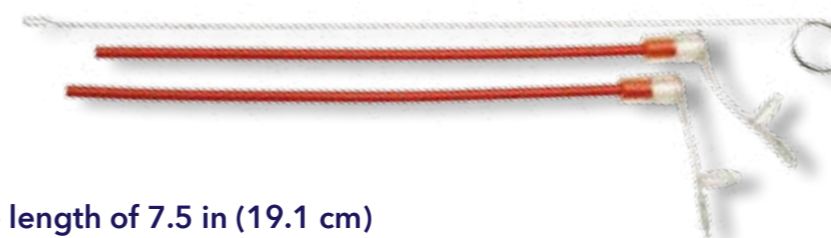
20 sets per carton



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

<b>79008</b>	12 Fr (2 - tubes, 1 - wire snare)
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20 sets per carton



# Surgical support 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.

## 2 in (5.1 cm) overall length

### Clear body

<b>30003</b>	3 mm blunt tip
<b>30004</b>	2 mm blunt tip
<b>30005</b>	4 mm acorn tip
<b>30007</b>	3 mm beveled tip

40 per carton



## 2 in (5.1 cm) overall length

### Clear body with radiopaque band

<b>30022</b>	3 mm blunt tip
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20 per carton



## 2 in (5.1 cm) overall length

### Radiopaque body

<b>30006</b>	3 mm beveled tip
<b>30023</b>	3 mm blunt tip

40 per carton



## 2.5 in (6.4 cm) overall length

### Clear body with one-way valve

<b>30000</b>	3 mm beveled tip
<b>30001</b>	3 mm blunt tip

40 per carton



## 2.5 in (6.4 cm) overall length

### Radiopaque body with one-way valve

<b>30021</b>	3 mm blunt tip
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40 per carton





# Surgical support

## DLP™ Arteriotomy Cannulae



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

<b>31001</b>	1 mm tip
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20 per carton



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

<b>31002</b>	2 mm tip
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<b>31003</b>	3 mm tip
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20 per carton



### 2.3 in (5.8 cm) overall length

<b>31102</b>	2 mm tip
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<b>31103</b>	3 mm tip
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<b>31104</b>	4 mm tip
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<b>31105</b>	5 mm tip
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<b>31106</b>	6 mm tip
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20 per carton

# Surgical support

## DLP™ Electro-Surgical Knife Cleaner

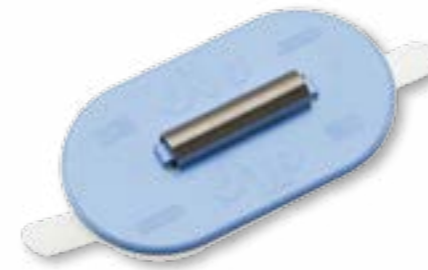


This device keeps electro-surgical knife blades clean with a quick swipe. It features a stainless steel spring attached to a plastic base, which has a self-adhesive pad. This allows the device to be placed at the most convenient site for the surgeon.

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

**60001**

*40 per carton*



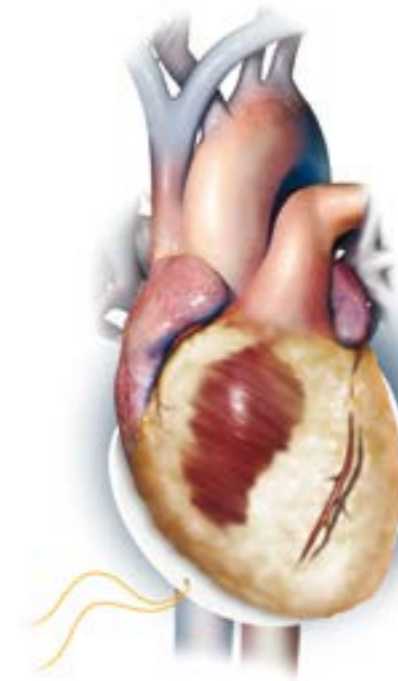
## DLP™ Phrenic Nerve Pads

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.

**38002** medium

**38003** large

*10 per carton*



# Surgical support

## DLP™ Coronary Artery Retraction Clips

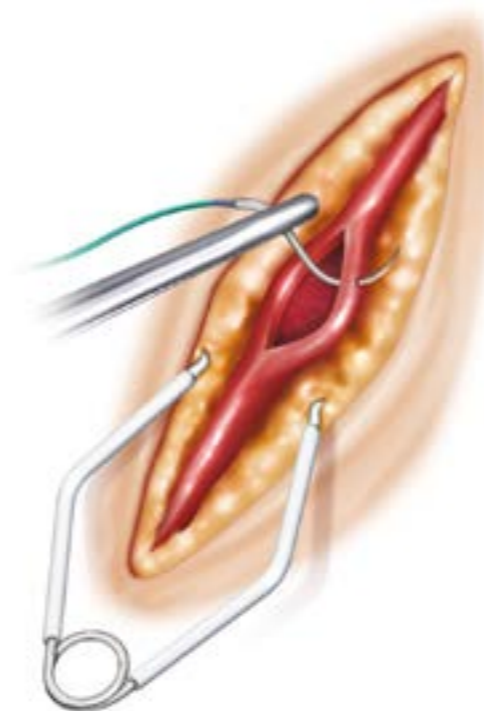


These clips are designed to help improve exposure to a coronary anastomosis site. Small prongs grab and gently hold tissue away from the vessel to improve vision.

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



# Surgical support

## DLP™ Pressure Catheter Placement Set



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

<b>50010</b>	3 Fr (1.0 mm) catheter with 2 - 17 ga peel-away needles
<b>50011</b>	5 Fr (1.7 mm) catheter with 2 - 14 ga peel-away needles

10 per carton

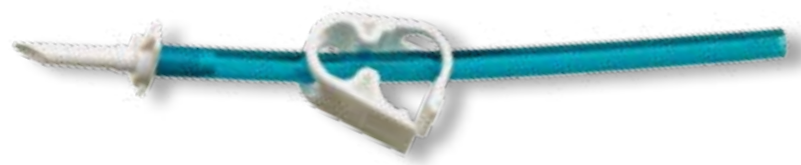


Catheter Models 50010 and 50011 are inserted through the chest wall and into the right superior pulmonary vein using two peel-away needles. The peel-away needles permit catheter insertion through the chest wall and pulmonary vein without utilizing an integral introducer.

# Surgical support 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**

**40040** Flexible tubing and clamp

20 per carton

# 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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CB77010	Arterial, One Piece Pediatric 9" (23cm), 1/4" Vented Connector, 10 Fr. (3.3mm) with Cortiva™ BioActive Surface
CB77012	Arterial, One Piece Pediatric 9" (23cm), 1/4" Vented Connector, 12 Fr. (4.0mm) with Cortiva™ BioActive Surface
CB77014	Arterial, One Piece Pediatric 9" (23cm), 1/4" Vented Connector, 14 Fr. (4.7mm) with Cortiva™ BioActive Surface
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CB77522	Arterial Elongated One Piece 12" (30.5 cm), Blunt Tip introducer w/o guidewire, 22 Fr. (7.3 mm), non-vented with Cortiva™ BioActive Surface
CB77618	Arterial Elongated One Piece 12" (30.5 cm), Dilator Tip introducer w/guidewire, 18 Fr. (6.0 mm), vented with Cortiva™ BioActive Surface
CB77620	Arterial Elongated One Piece 12" (30.5 cm), Dilator Tip introducer w/guidewire, 20 Fr. (6.7 mm), vented with Cortiva™ BioActive Surface
CB77622	Arterial Elongated One Piece 12" (30.5 cm), Dilator Tip introducer w/guidewire, 22 Fr. (7.3 mm), vented with Cortiva™ BioActive Surface
CB77720	Arterial Elongated One Piece 12" (30.5 cm), Dilator Tip introducer w/guidewire, 20 Fr. (6.7 mm), non-vented with Cortiva™ BioActive Surface
CB77722	Arterial Elongated One Piece 12" (30.5 cm), Dilator Tip introducer w/guidewire, 22 Fr. (7.3 mm), non-vented with Cortiva™ BioActive Surface
CB78222	EOPA 3D 22FR VENTED with Cortiva™ BioActive Surface
CB78322	EOPA 3D 22FR NON-VENTED with Cortiva™ BioActive Surface

CB80120	Arterial, Metal Tip, 8.5" (21.6cm), Soft Flange, 20 Fr. (6.7mm), 3/8" Non-Vent Conn with Cortiva™ BioActive Surface
CB81120	Arterial Cannula, Ultraflex Curved Tip, 10" (25cm) Soft Body, 3/8" Non-Vented Connector, 20 Fr. with Cortiva™ BioActive Surface
CB81122	Arterial Cannula, Ultraflex Curved Tip, 10" (25cm) Soft Body, 3/8" Non-Vented Connector, 22 Fr. with Cortiva™ BioActive Surface
CB87222	WireWound curved Tip Arterial Cannula, 22 Fr., 3/8" Vented Connector with Cortiva™ BioActive Surface

### Extracorporeal Circuit - Femoral Cannulae

CB96345-023	Adult Venous Femoral Cannula with 1/2" Non-Vented Connector, 30" (76.2 cm), 23 Fr. with Cortiva™ BioActive Surface
CB96345-025	Adult Venous Femoral Cannula with 1/2" Non-Vented Connector, 30" (76.2 cm), 25 Fr. with Cortiva™ BioActive Surface
CB96345-027	Adult Venous Femoral Cannula with 1/2" Non-Vented Connector, 30" (76.2 cm), 27 Fr. with Cortiva™ BioActive Surface
CB96345-029	Adult Venous Femoral Cannula with 1/2" Non-Vented Connector, 30" (76.2 cm), 29 Fr. with Cortiva™ BioActive Surface
CB96570-015	Femoral Arterial Cannula w/introducer 3/8" Connector with Lock-Vent, 17" (43.2 cm), 15 Fr. with Cortiva™ BioActive Surface
CB96570-017	Femoral Arterial Cannula w/introducer 3/8" Connector with Lock-Vent, 17" (43.2 cm), 17 Fr. with Cortiva™ BioActive Surface
CB96570-019	Femoral Arterial Cannula w/introducer 3/8" Connector with Lock-Vent, 17" (43.2 cm), 19 Fr. with Cortiva™ BioActive Surface
CB96570-021	Femoral Arterial Cannula w/introducer 3/8" Connector with Lock-Vent, 17" (43.2 cm), 21 Fr. with Cortiva™ BioActive Surface
CB96670-015	Femoral Venous Cannula w/introducer 3/8" Non-Vented Connector, 30" (76.2 cm), 15 Fr. with Cortiva™ BioActive Surface
CB96670-017	Femoral Venous Cannula w/introducer 3/8" Non-Vented Connector, 30" (76.2 cm), 17 Fr. with Cortiva™ BioActive Surface
CB96670-019	Femoral Venous Cannula w/introducer 3/8" Non-Vented Connector, 30" (76.2 cm), 19 Fr. with Cortiva™ BioActive Surface
CB96670-021	Femoral Venous Cannula w/introducer 3/8" Non-Vented Connector, 30" (76.2 cm), 21 Fr. with Cortiva™ BioActive Surface
CB96825-008	Pediatric Arterial Cannula with 1/4" Non-Vented Connector, 0.38mm, 7.5" (19 cm), 8 Fr. with Cortiva™ BioActive Surface
CB96825-010	Pediatric Arterial Cannula with 1/4" Non-Vented Connector, 0.38mm, 7.5" (19 cm), 10 Fr. with Cortiva™ BioActive Surface
CB96825-012	Pediatric Arterial Cannula with 1/4" Non-Vented Connector, 0.38mm, 7.5" (19 cm), 12 Fr. with Cortiva™ BioActive Surface
CB96825-014	Pediatric Arterial Cannula with 1/4" Non-Vented Connector, 0.38mm, 7.5" (19 cm), 14 Fr. with Cortiva™ BioActive Surface
CB96835-008	Pediatric Venous Cannula with 1/4" Non-Vented Connector, 0.38mm, 8 Fr. 7.5" (19 cm) with Cortiva™ BioActive Surface

# Products codes

## List of products available with Cortiva™ BioActive Surface



- CB96835-010 Pediatric Venous Cannula with 1/4" Non-Vented Connector, 0.38mm, 10 Fr. 7.5" (19 cm) with Cortiva™ BioActive Surface
- CB96835-012 Pediatric Venous Cannula with 1/4" Non-Vented Connector, 0.38mm, 12 Fr. 7.5" (19 cm) with Cortiva™ BioActive Surface
- CB96835-014 Pediatric Venous Cannula with 1/4" Non-Vented Connector, 0.38mm, 14 Fr. 7.5" (19 cm) with Cortiva™ BioActive Surface

### Extracorporeal Circuit - Venous Cannulae

- CB66112 Single Stage Venous Cannula Straight Tip, 12 Fr. (4.0mm), 1/4" Conn Site with Cortiva™ BioActive Surface
- CB66114 Single Stage Venous Cannula Straight Tip, 14 Fr. (4.7mm), 1/4" Conn Site with Cortiva™ BioActive Surface
- CB66116 Single Stage Venous Cannula Straight Tip, 16 Fr. (5.3mm), 1/4" Conn Site with Cortiva™ BioActive Surface
- CB66118 Single Stage Venous Cannula Straight Tip, 18 Fr. (6.0mm), 1/4" - 3/8" Conn Site with Cortiva™ BioActive Surface
- CB66120 Single Stage Venous Cannula Straight Tip, 20 Fr. (6.7mm), 1/4" - 3/8" Conn Site with Cortiva™ BioActive Surface
- CB66124 Single Stage Venous Cannula Straight Tip, 24 Fr. (8.0mm), 1/4" - 3/8" Conn Site with Cortiva™ BioActive Surface
- CB66128 Single Stage Venous Cannula Straight Tip, 28 Fr. (9.3mm), 3/8" Conn Site with Cortiva™ BioActive Surface
- CB66132 Single Stage Venous Cannula Straight Tip, 32 Fr. (10.7mm), 3/8" Conn Site with Cortiva™ BioActive Surface
- CB66236 Single Stage Venous Cannula Straight Tip, 36 Fr. (12mm), 3/8" Conn Site with Cortiva™ BioActive Surface
- CB67312 Single Stage Venous Cannula, Right Angle, Metal Tip, Pediatric Size, 12 Fr., 1/4" conn. Site with Cortiva™ BioActive Surface
- CB67314 Single Stage Venous Cannula, Right Angle, Metal Tip, Pediatric Size, 14 Fr., 1/4" conn. Site with Cortiva™ BioActive Surface
- CB67316 Single Stage Venous Cannula, Right Angle, Metal Tip, Pediatric Size, 16 Fr., 1/4" conn. Site with Cortiva™ BioActive Surface
- CB67318 Single Stage Venous Cannula, Right Angle, Metal Tip, Pediatric Size, 18 Fr., 1/4" conn. Site with Cortiva™ BioActive Surface
- CB67320 Single Stage Venous Cannula, Right Angle, Metal Tip, Pediatric Size, 20 Fr., 1/4" conn. Site with Cortiva™ BioActive Surface
- CB67520 Single Stage Venous Cann., Angled Tip, 20 Fr. (6.7mm), 1/4" - 3/8" Conn Site with Cortiva™ BioActive Surface
- CB67524 Single Stage Venous Cann., Angled Tip, 24 Fr. (8.0mm), 1/4" - 3/8" Conn Site with Cortiva™ BioActive Surface
- CB67528 Single Stage Venous Cannula, Angled Tip, 28 Fr. (9.3mm), 3/8" Conn Site with Cortiva™ BioActive Surface
- CB67530 Single Stage Venous Cann., Angled Tip, 30 Fr. (10.0mm), 3/8" Conn Site with Cortiva™ BioActive Surface
- CB67532 Single Stage Venous Cannula, Angled Tip, 32 Fr. (10.7mm), 3/8" Conn Site with Cortiva™ BioActive Surface
- CB67534 Single Stage Venous Cann., Angled Tip, 34 Fr. (11.3mm), 3/8" Conn Site with Cortiva™ BioActive Surface
- CB67636 Single Stage Venous Cannula, Angled Tip, 36 Fr. (12mm), 3/8" conn. Site with Cortiva™ BioActive Surface
- CB68112 Malleable Single Stage Venous Cannula, 12 Fr. with Cortiva™ BioActive Surface
- CB68114 Malleable Single Stage Venous Cannula, 14 Fr. with Cortiva™ BioActive Surface
- CB68116 Malleable Single Stage Venous Cannula, 16 Fr. with Cortiva™ BioActive Surface
- CB68118 Malleable Single Stage Venous Cannula, 18 Fr. with Cortiva™ BioActive Surface
- CB68120 Malleable Single Stage Venous Cannula, 20 Fr. with Cortiva™ BioActive Surface
- CB68124 Malleable Single Stage Venous Cannula, 24 Fr. with Cortiva™ BioActive Surface
- CB68128 Malleable Single Stage Venous Cannula, 28 Fr. with Cortiva™ BioActive Surface
- CB68132 Malleable Single Stage Venous Cannula, 32 Fr. with Cortiva™ BioActive Surface
- CB68136 Malleable Single Stage Venous Cannula, 36Fr. with Cortiva™ BioActive Surface
- CB69320 Single Stage Venous Cannula, Right Angle, Metal Tip, High Flow, 3/8" conn site, 20 Fr. with Cortiva™ BioActive Surface
- CB69324 Single Stage Venous Cannula, Right Angle, Metal Tip, High Flow, 3/8" conn site, 24 Fr. with Cortiva™ BioActive Surface
- CB69328 Single Stage Venous Cannula, Right Angle, Metal Tip, High Flow, 3/8" conn site, 28 Fr. with Cortiva™ BioActive Surface
- CB91228 MC2 Two Stage Venous Cannula 28/36 Fr. with 3/8" conn. Site with Cortiva™ BioActive Surface
- CB91228C MC2 Two Stage Venous Cannula 28/36 Fr. with 1/2" Connector with Cortiva™ BioActive Surface
- CB91236C MC2 Two Stage Venous Cannula 36/46 Fr. with 1/2" Connector with Cortiva™ BioActive Surface
- CB91240 MC2 Two Stage Venous Cannula 32/40 Fr. with 1/2" conn. Site with Cortiva™ BioActive Surface
- CB91240C MC2 Two Stage Venous Cannula 32/40 Fr. with 1/2" Connector with Cortiva™ BioActive Surface
- CB91246 MC2 Two Stage Venous Cannula 34/46 Fr. with 1/2" conn. Site with Cortiva™ BioActive Surface
- CB91246C MC2 Two Stage Venous Cannula 34/46 Fr. with 1/2" Connector with Cortiva™ BioActive Surface
- CB91263 Oval MC2 Venous Cannula 32/40 Fr. with 1/2" conn. Site with Cortiva™ BioActive Surface
- CB91263C Oval MC2 Venous Cannula 32/40 Fr. with 1/2" Connector with Cortiva™ BioActive Surface
- CB91265 Oval MC2 Venous Cannula 36/46 Fr. with 1/2" conn. Site with Cortiva™ BioActive Surface
- CB91265C Oval MC2 Venous Cannula 36/46 Fr. with 1/2" Connector with Cortiva™ BioActive Surface

# Products codes

## List of products available with Cortiva™ BioActive Surface



- CB91329 Two Stage Venous Cannula 29/29 Fr. with 3/8" conn. Site with Cortiva™ BioActive Surface
- CB91329C Two Stage Venous Cannula 29/29 Fr. with 3/8" Connector with Cortiva™ BioActive Surface
- CB91429 Three Stage Venous Cannula 29/ 29/ 29 Fr. with 3/8" conn. Site with Cortiva™ BioActive Surface
- CB91429C Three Stage Venous Cannula 29/ 29/ 29 Fr. with 3/8" barbed Connector with Cortiva™ BioActive Surface
- CB93438C VC2 JR Atrial Caval, 34 Fr./38 Fr. (11.3mm/12mm) Wirewound 1/2" Connector with Cortiva™ BioActive Surface

### **Cardioplegia Circuit - Antegrade Perfusion Cannulae**

- CB10012 Standard Aortic Root Cannula, 12ga (9 Fr.) with Cortiva™ BioActive Surface
- CB20012 Standard Aortic Root Cannula with Vent Line, 12ga (9 Fr.) with Cortiva™ BioActive Surface

### **Suction Circuit and Surgical Accessories - Suction Circuit Products**

- CB12008 Left Heart Vent Catheter, PVC - Pediatric 10 Fr. (3.3mm), preformed 1/5" tip, vented slip conn., 13" (33.0cm) with Cortiva™ BioActive Surface



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