

Medtronic

Engineering the extraordinary

Cannula catalog



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

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Reason: MoldSign Signature
Location: Moldova
MOLDOVA EUROPEANĂ



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



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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



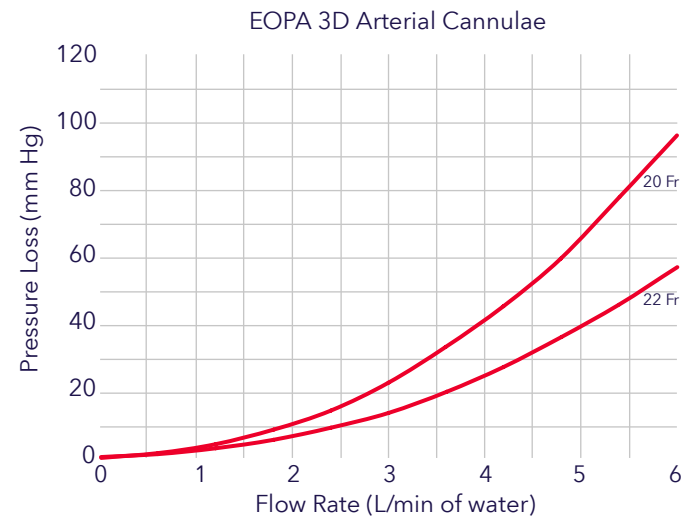
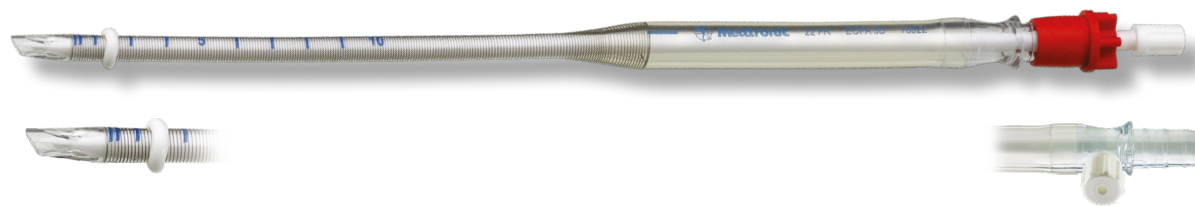
▶ EOPA 3D™	6
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Arterial Cannulae

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.



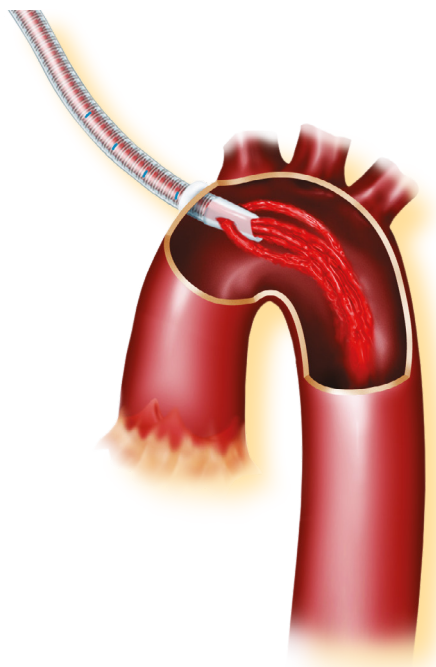
Vented 3/8 in (0.95 cm) connector

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



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

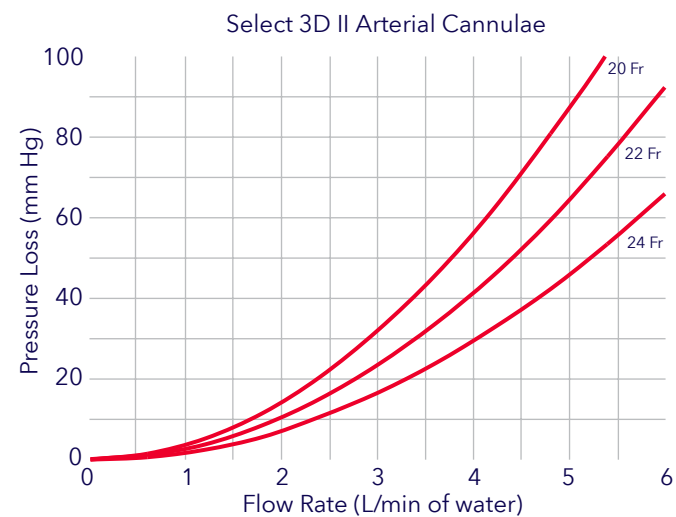
78420	20 Fr (6.7 mm)
78422	22 Fr (7.3 mm)
78424	24 Fr (8.0 mm)



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

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

20 per carton

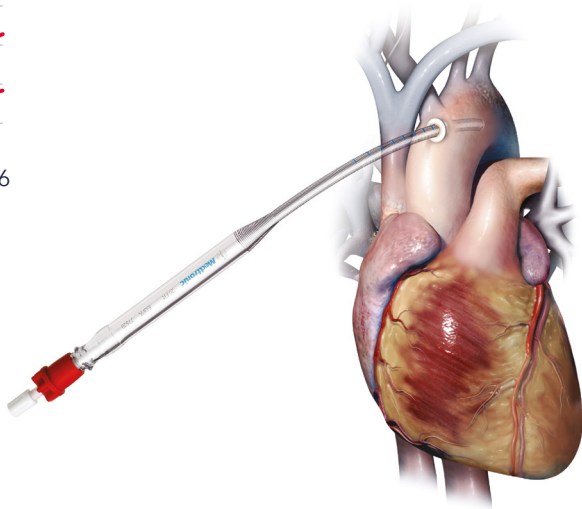
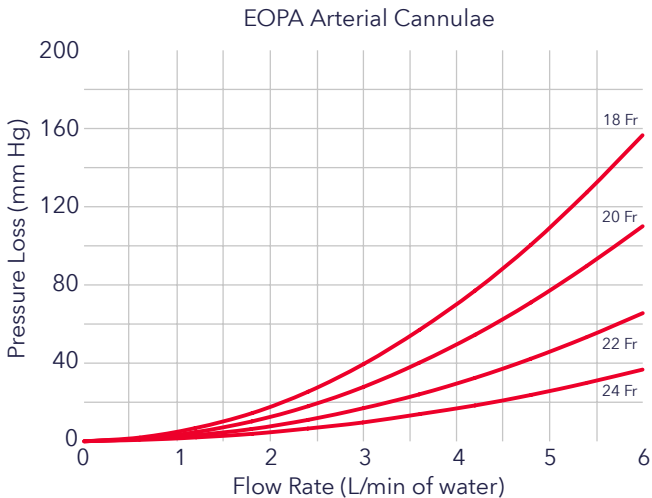


Arterial Cannulae

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

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

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

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

10 per carton



12 in (30.5 cm) overall length

Dilator tip introducer
with 0.038 in (0.0965 mm) guidewire

Vented 3/8 in (0.95 cm) connector

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

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

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

10 per carton

Important Safety Information

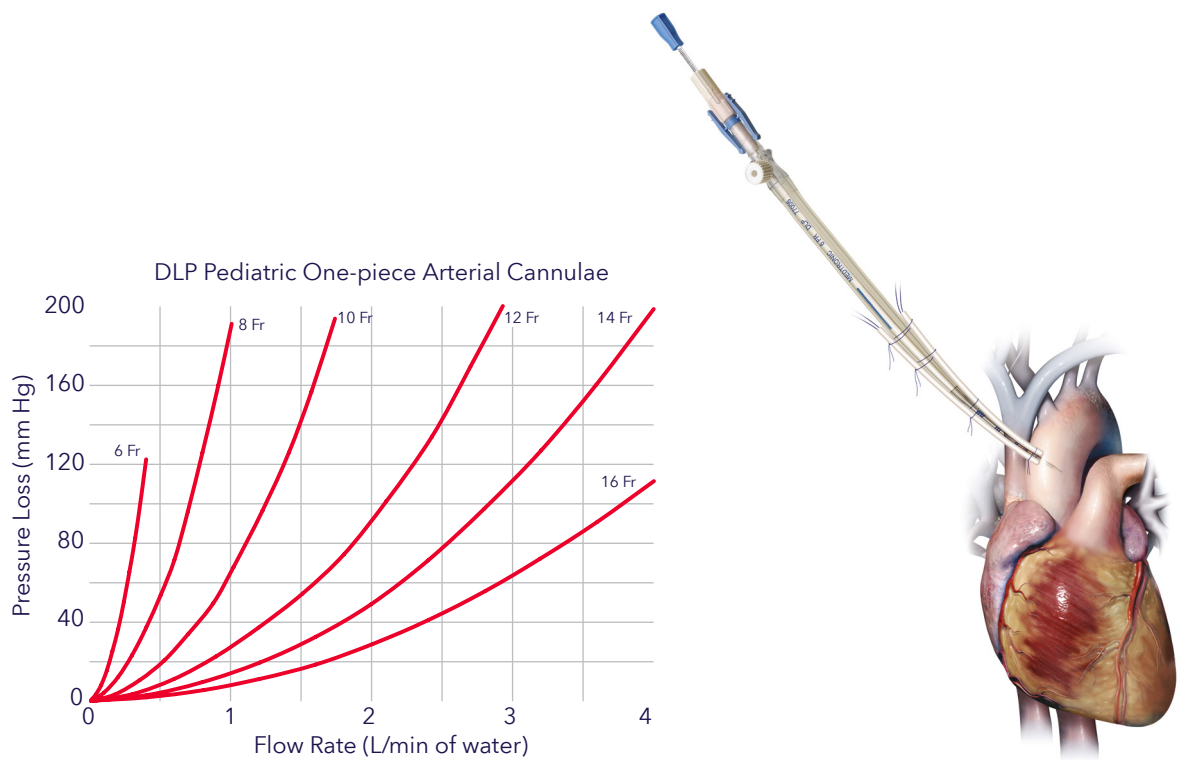
EOPA models with dilator tip introducer: A guidewire must be used for proper placement of introducer tip while inserting cannula to avoid trauma to the back wall of the aorta. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgical procedures.

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)

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

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

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

5 per carton



9 in (22.9 cm) overall length

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

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

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

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

5 per carton

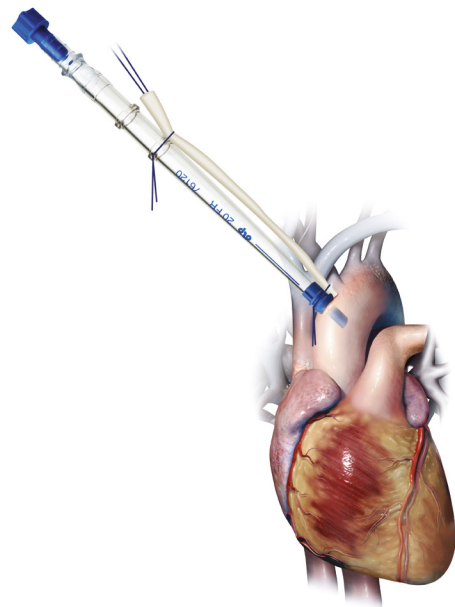
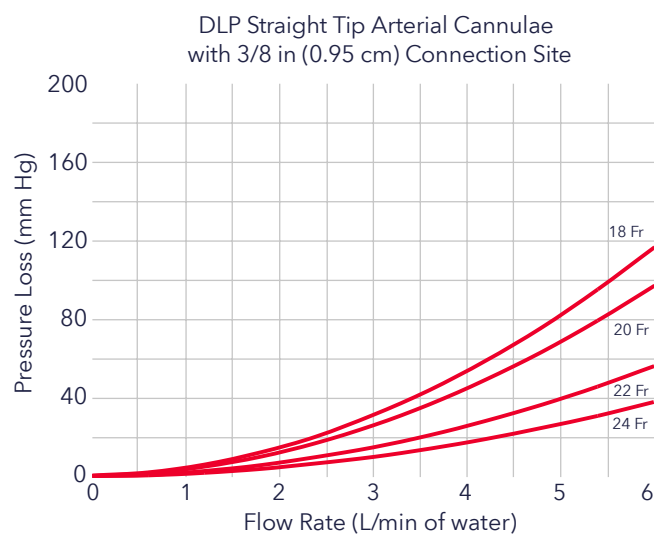
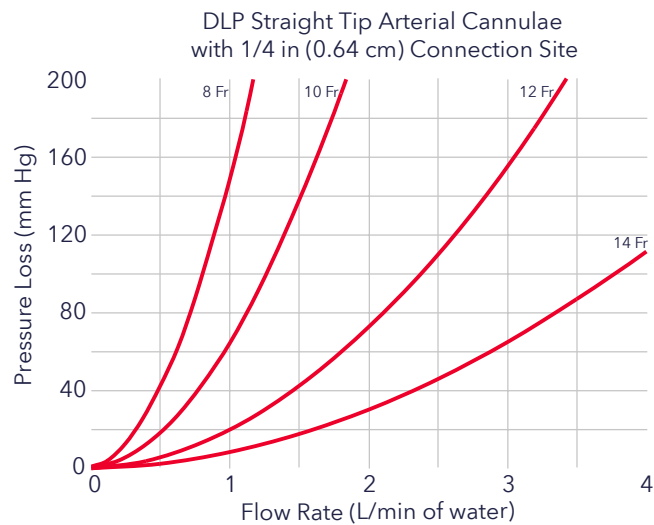


Arterial Cannulae

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)

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

Connection site 3/8 in (0.95 cm)

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

20 per carton

8 in (20.3 cm) overall length

Vented 3/8 in (0.95 cm) connector

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

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

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

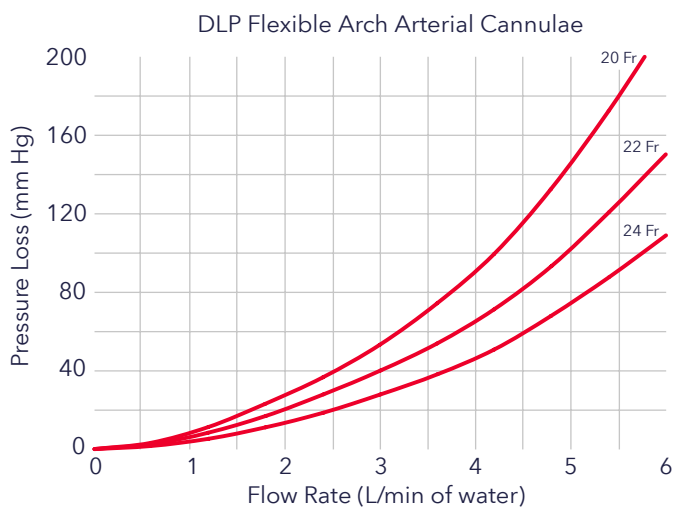
20 per carton

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

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

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

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

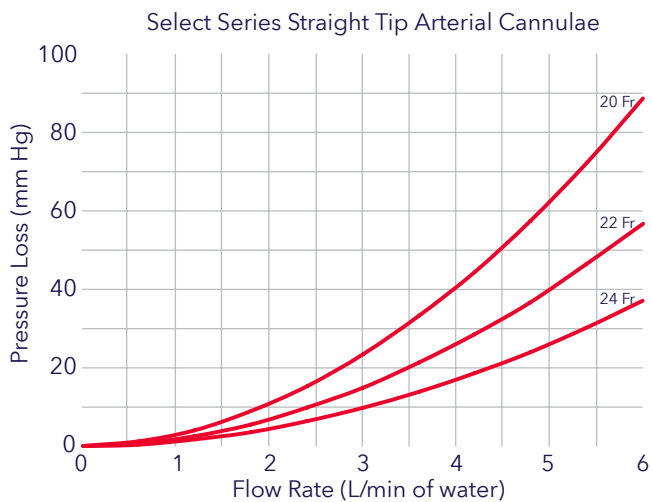
20 per carton

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

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

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

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

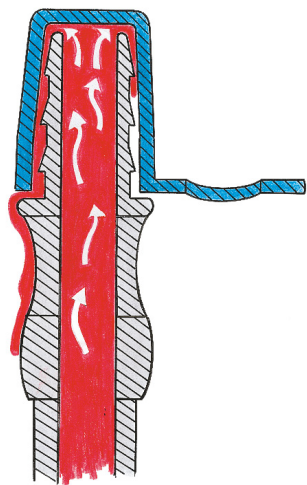
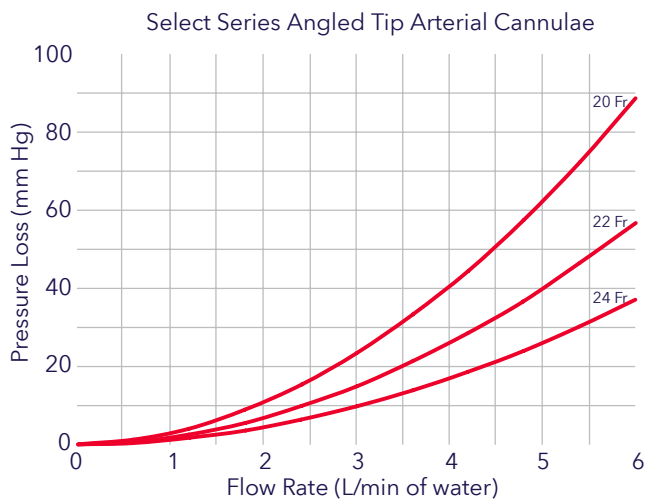
20 per carton

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

72420	20 Fr (6.7 mm)
72422	22 Fr (7.3 mm)
72424	24 Fr (8.0 mm)

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

72520	20 Fr (6.7 mm)
72522	22 Fr (7.3 mm)
72524	24 Fr (8.0 mm)

20 per carton



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

Vented 3/8 in (0.95 cm) connector

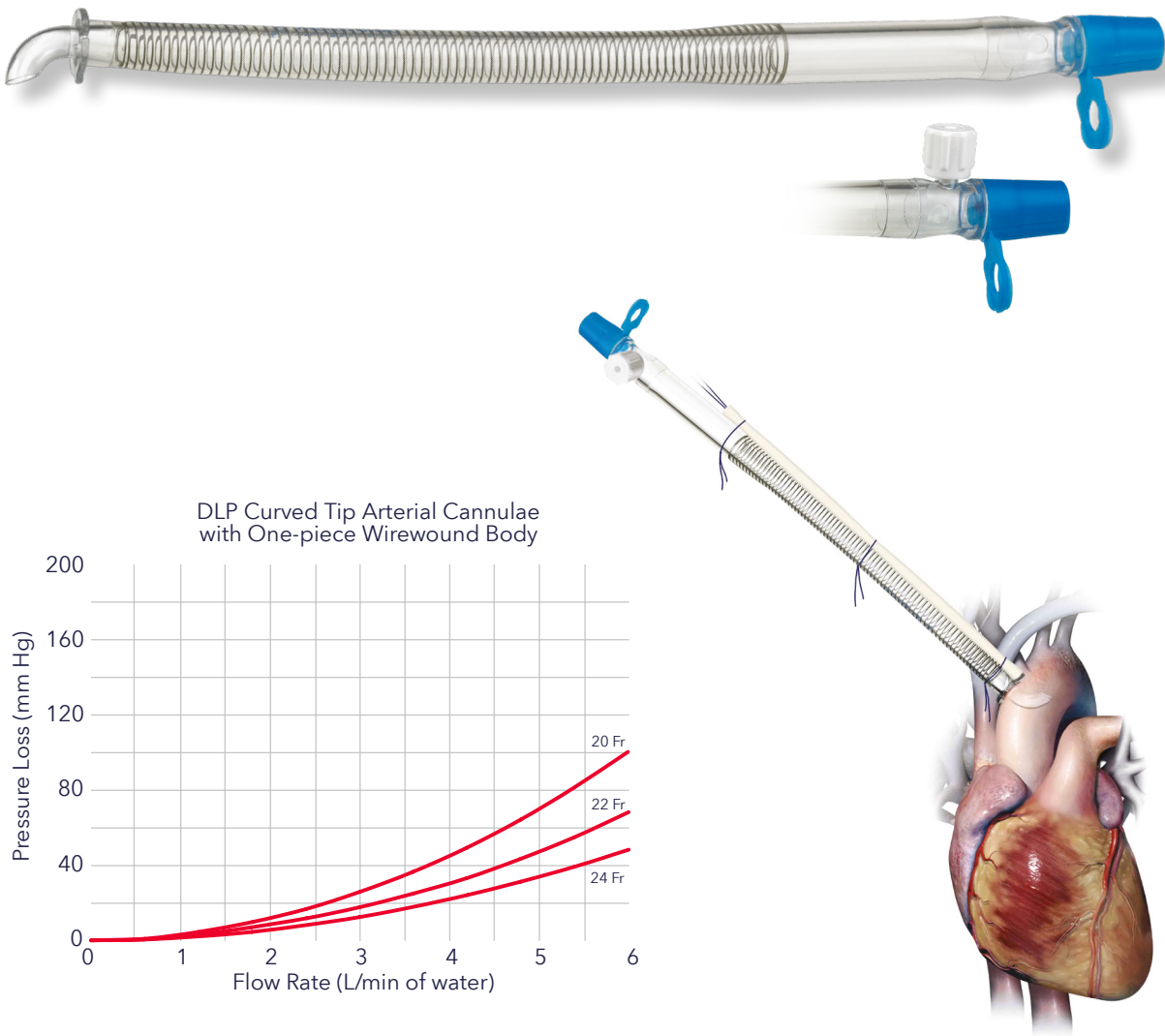
73420	20 Fr (6.7 mm)
73422	22 Fr (7.3 mm)
73424	24 Fr (8.0 mm)

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)

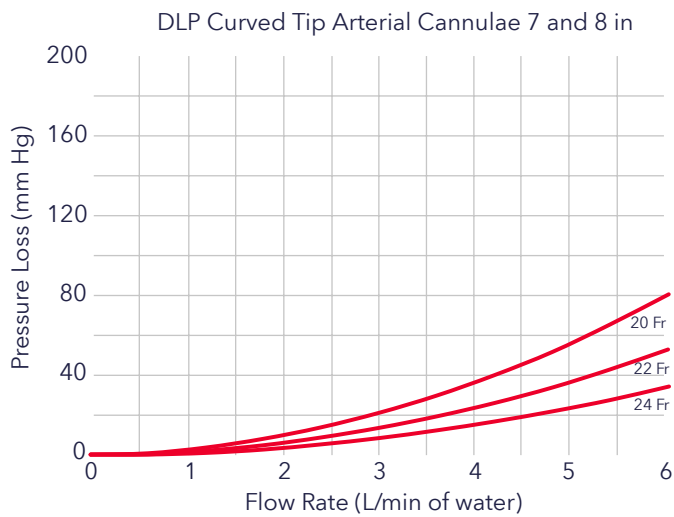
10 per carton

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)

83020	20 Fr (6.7 mm)
83022	22 Fr (7.3 mm)
83024	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)

84020	20 Fr (6.7 mm)
84022	22 Fr (7.3 mm)
84024	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

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

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

88120	20 Fr (6.7 mm)
88122	22 Fr (7.3 mm)
88124	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

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

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

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

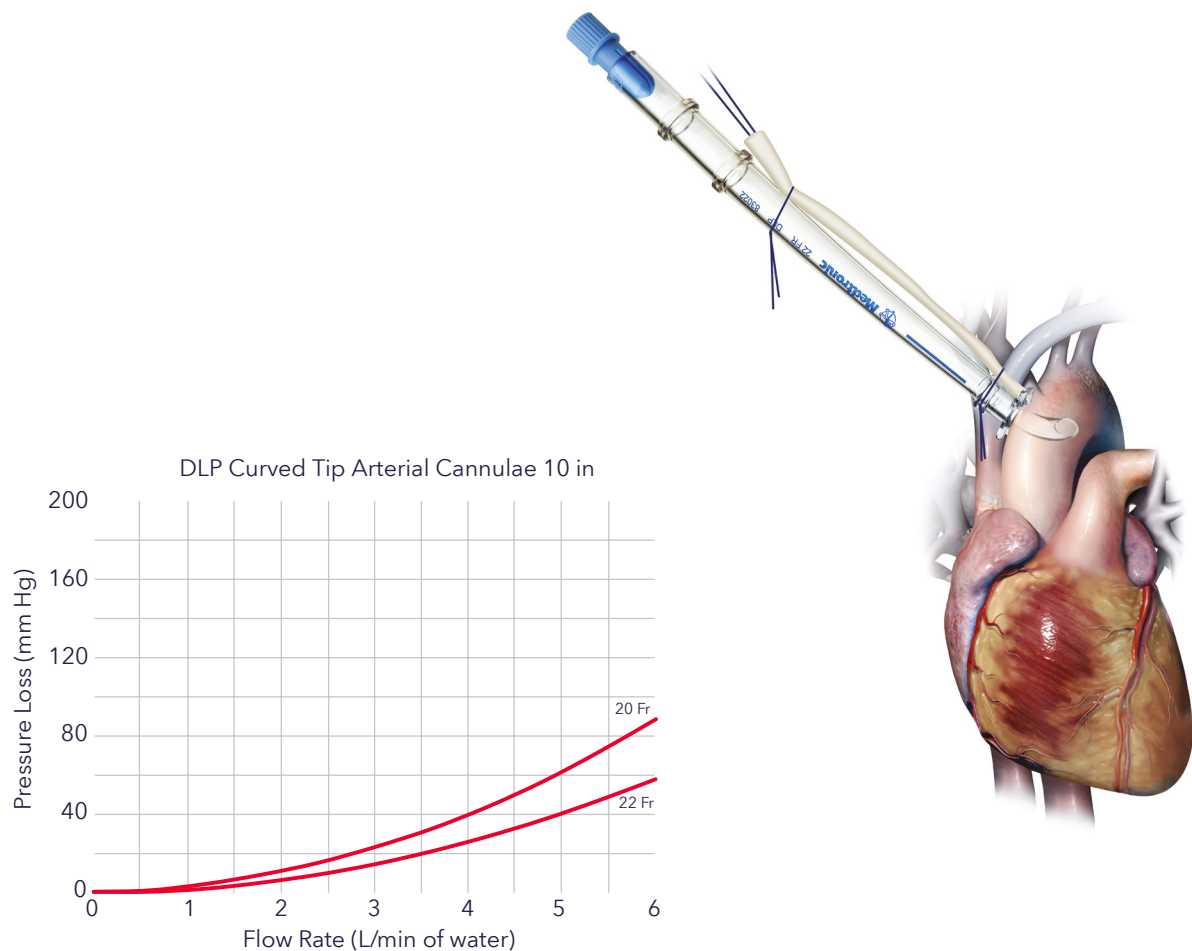
20 per carton

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

81020	20 Fr (6.7 mm)
81022	22 Fr (7.3 mm)

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

81120	20 Fr (6.7 mm)
81122	22 Fr (7.3 mm)

20 per carton

10 in (25.4 cm) overall length

Curved tip without flange and soft body

Vented 3/8 in (0.95 cm) connector

82020	20 Fr (6.7 mm)
82022	22 Fr (7.3 mm)

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

82120	20 Fr (6.7 mm)
82122	22 Fr (7.3 mm)

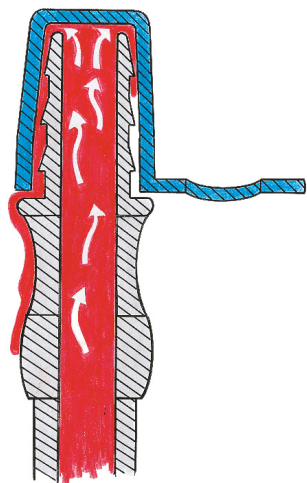
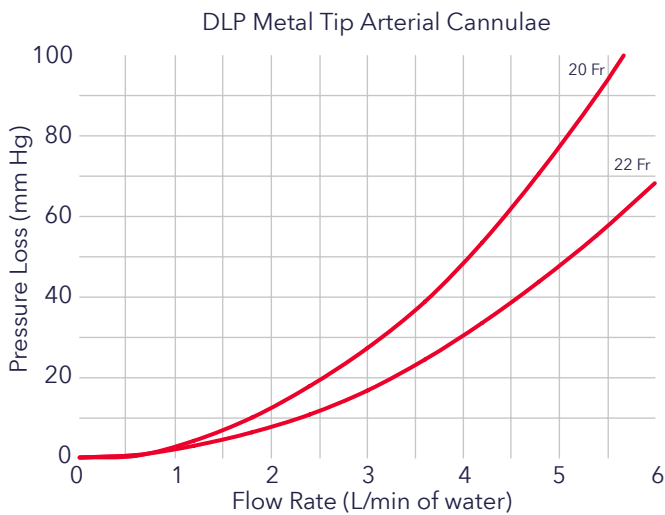
20 per carton

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

80020	20 Fr (6.7 mm)
80022	22 Fr (7.3 mm)

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

80120	20 Fr (6.7 mm)
80122	22 Fr (7.3 mm)

20 per carton

10.5 in (26.7 cm) overall length

Standard flange

Vented 3/8 in (0.95 cm) connector

80220	20 Fr (6.7 mm)
80222	22 Fr (7.3 mm)

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

80320	20 Fr (6.7 mm)
80322	22 Fr (7.3 mm)

20 per carton

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



- ▶ Bio-Medicus™ NextGen Pediatric Arterial and Venous 20
- ▶ Bio-Medicus™ NextGen Arterial or Jugular Venous 21
- ▶ Bio-Medicus™ NextGen Multi-Stage Venous 22
- ▶ Bio-Medicus™ NextGen Bi-caval Venous 23
- ▶ Bio-Medicus™ NextGen Insertion Kits 24

Femoral Cannulae

Bio-Medicus™ NextGen Pediatric Arterial and Venous Cannulae



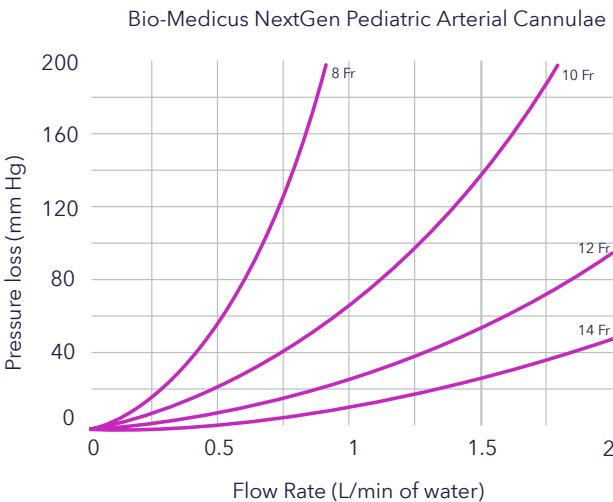
These pediatric cannulae offer a flexible, kink-resistant, thin-wall design that promotes maximum flow rates. The tip design eases insertion and provides a reinforced non-step transition zone along with smooth side holes. Both venous and arterial models are packaged with a tapered solid core and a percutaneous-style, 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
96820-108	8 Fr (2.7 mm)	22.9 cm	10.0 cm
96820-110	10 Fr (3.3 mm)	22.9 cm	10.5 cm
96820-112	12 Fr (4.0 mm)	22.9 cm	11.0 cm
96820-114	14 Fr (4.7 mm)	22.9 cm	11.5 cm

1 per carton

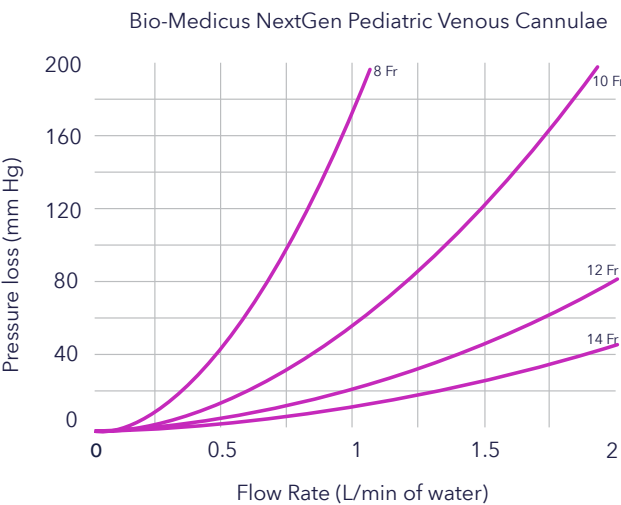


Venous

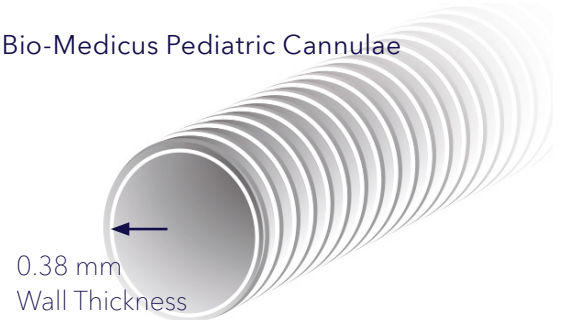
Non-vented 1/4 in (0.64 cm) connector

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

1 per carton



Bio-Medicus Pediatric Cannulae



Retention Clip



See page 24 for 96553 insertion kit.

Femoral Cannulae

Bio-Medicus™ NextGen Femoral Arterial or Jugular Venous Cannulae

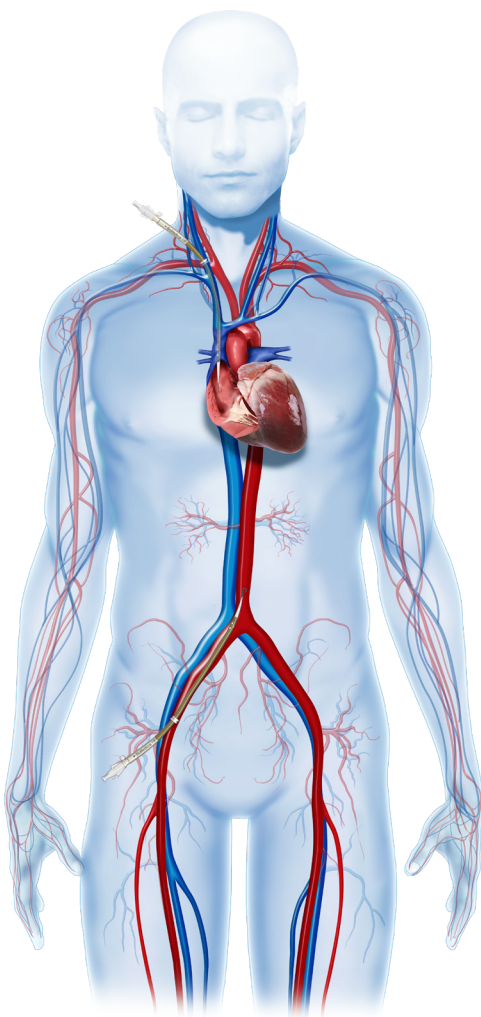


These cannulae offer a flexible, kink-resistant, thin-wall design that promotes maximum flow rates. The tip design eases insertion with a reinforced non-step transition zone, and smooth side holes. A silicone friction-fit cap and non-phthalate PVC introducer provide improved function as well. The percutaneous-style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

Cannula kit includes:



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



12.5 in (31.8 cm) overall length

7.09 in (18.0 cm) tip

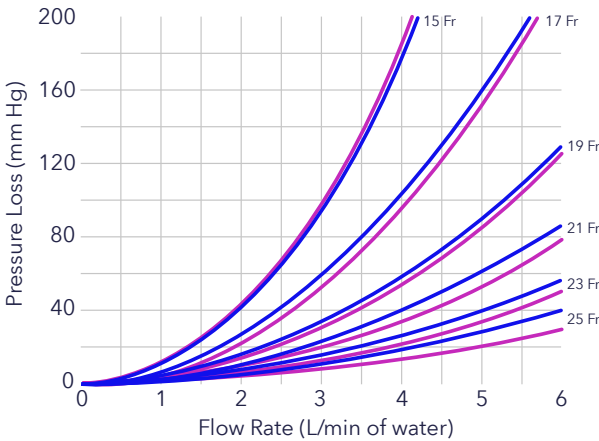
Vented 3/8 in (0.95 cm) connector

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

1 per carton

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

Bio-Medicus NextGen Femoral Arterial/Jugular Venous Cannulae



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



➤ See page 24 for 96552 insertion kit.

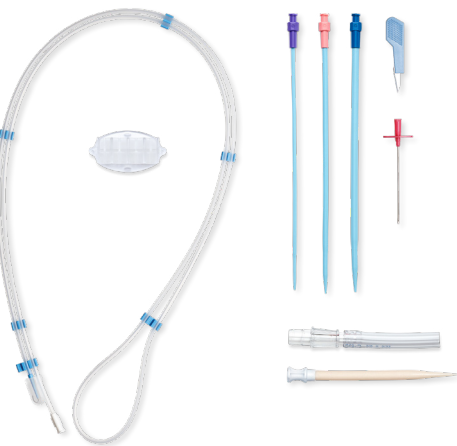
Femoral Cannulae

Bio-Medicus™ NextGen Femoral Multi-Stage Venous Cannulae

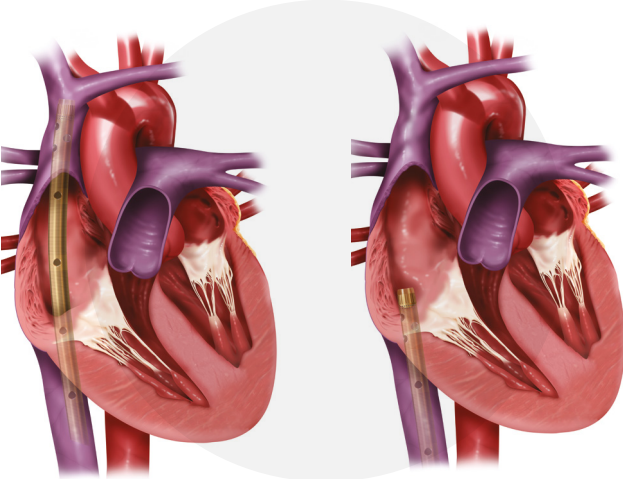


These cannulae feature a flexible, kink-resistant, thin-wall design that promotes maximum flow rates. The tip design offers an elongated tapered introducer, a reinforced non-step tip transition zone, and smooth side holes. All of these enhancements add up to an easier insertion. To accommodate patient sizes, we offer a multi-stage cannula in six sizes. To provide easier positioning and improved drainage, the number of side-hole locations is based on cannula Fr size and cannula length. 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:



Multi-stage femoral venous



Advanced multi-stage design Designed for easy placement across the atrium during MICS procedures. Optimizes drainage of the entire circulation by accessing the IVC, atrium, and SVC.	Traditional IVC/atrial junction position Promotes efficient venous drainage.
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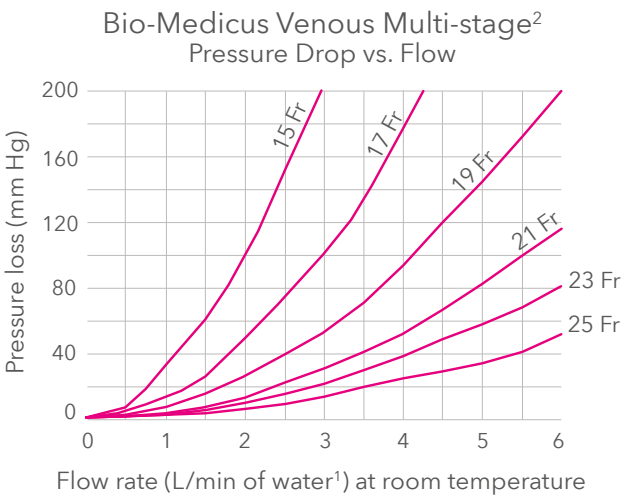
30 in (72.2 cm) overall length

23.6 in (60 cm) tip

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

Cannula	Cannula Kit	French Size
96670-115	96600-115	15 Fr (5.0 mm)
96670-117	96600-117	17 Fr (5.7 mm)
96670-119	96600-119	19 Fr (6.3 mm)
96670-121	96600-121	21 Fr (7.0 mm)
96670-123	96600-123	23 Fr (7.7 mm)
96670-125	96600-125	25 Fr (8.3 mm)

1 per carton
 § 1/2 in (1.27 cm) to 3/8 in (0.95 cm) tubing
 adapter included with venous models 23 Fr and 25 Fr models.



See page 24 for 96551 insertion kit.

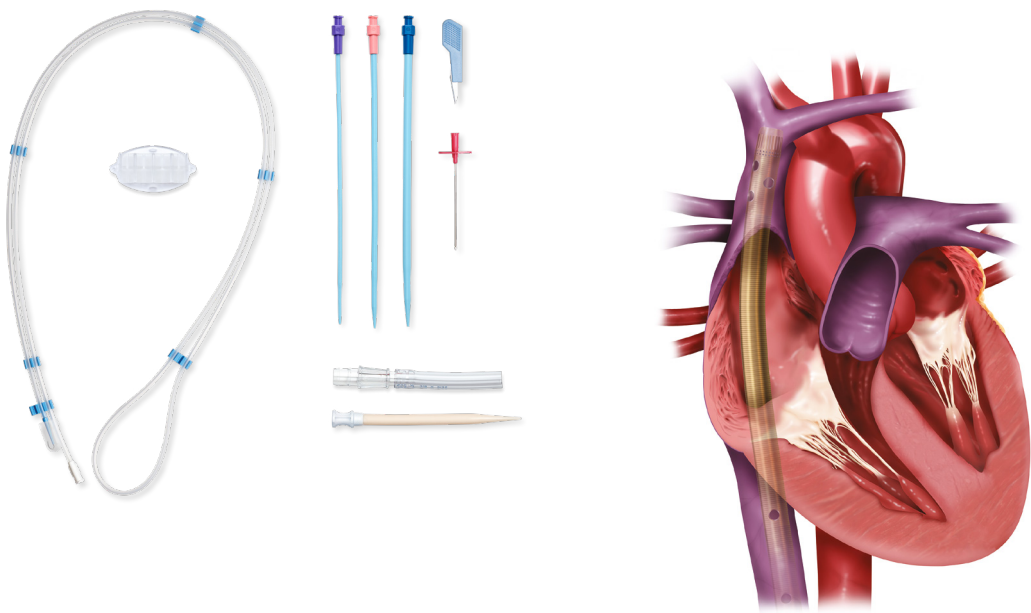
Femoral Cannulae

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.

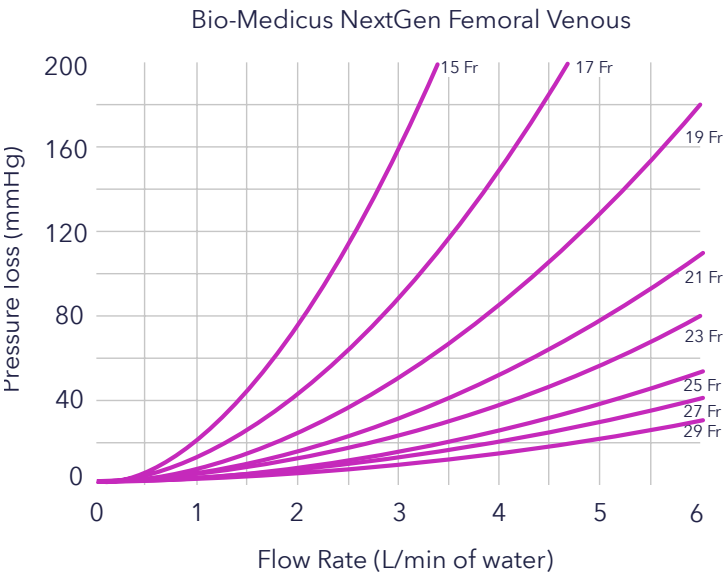
Designed to enable right atrium occlusion and access.

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

Cannula Singles	Cannula Kit	French Size	Overall Length	Tip Length
96670-127†	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 24 for 96551 insertion kit.



Femoral Cannulae

Bio-Medicus™ NextGen Insertion Kits

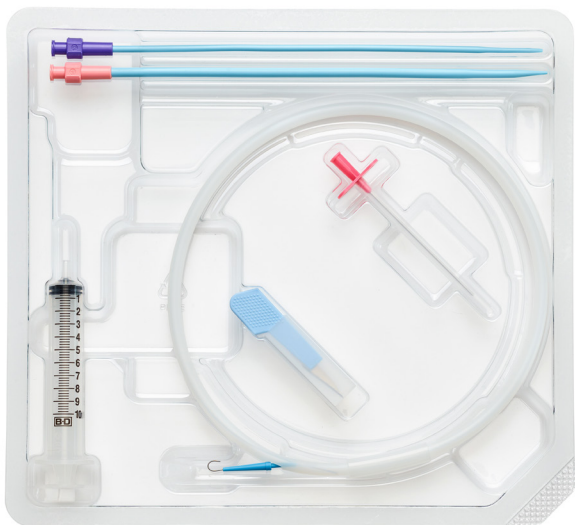


These adult and pediatric insertion kits provide components for peripheral cannulation via Seldinger technique. Designed for percutaneous or direct visualization insertion, these kits provide the following insertion components as listed below.



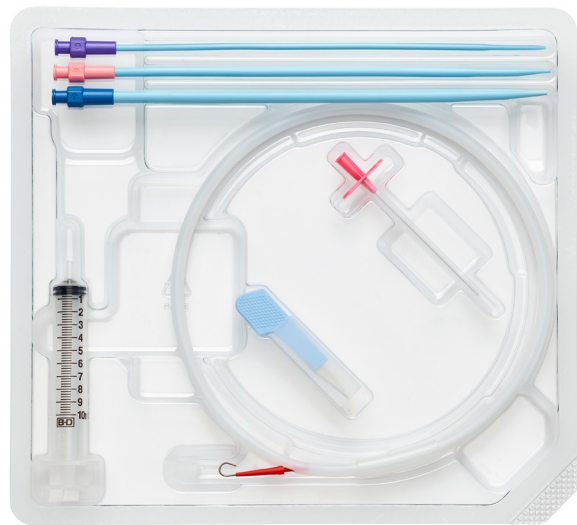
Venous

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

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



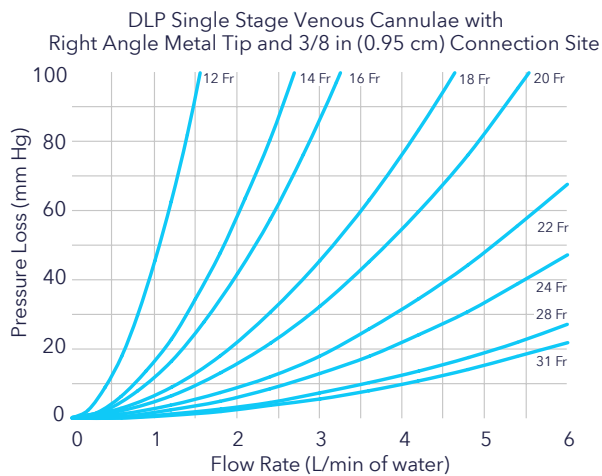
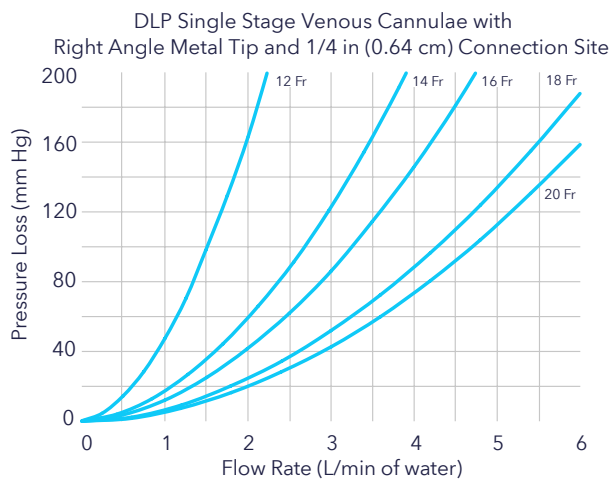
- ▶ DLP™ Single Stage with Right Angle Metal Tip 27
- ▶ DLP™ Single Stage 28
- ▶ DLP™ Single Stage with right angle 29
- ▶ DLP™ Malleable Single Stage 30
- ▶ VC2™ 31
- ▶ MC2™ Two Stage 32
- ▶ MC2X™ Three Stage 33

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.



**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)

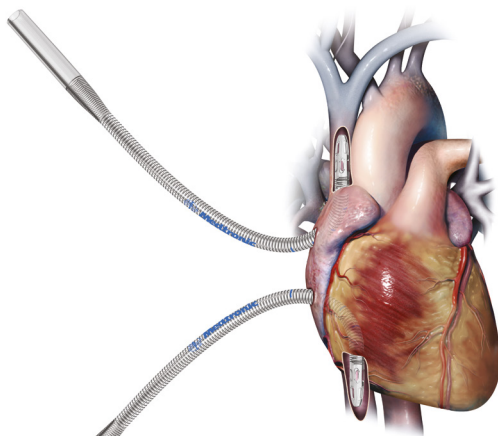
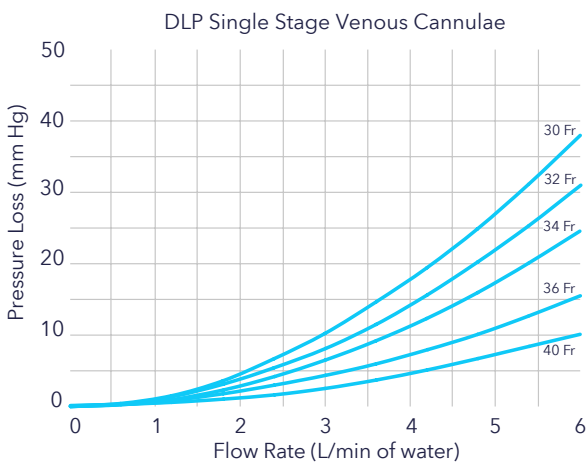
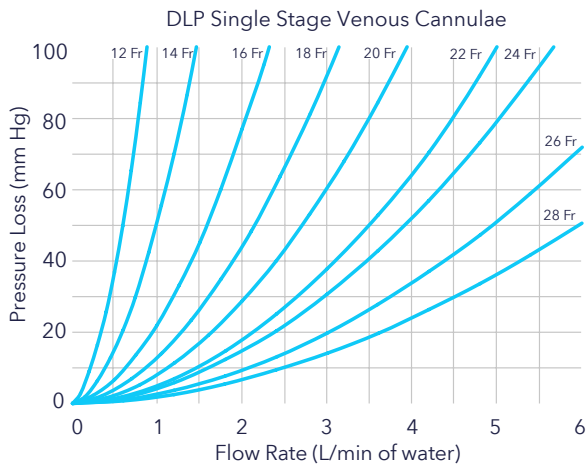
10 per carton

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)

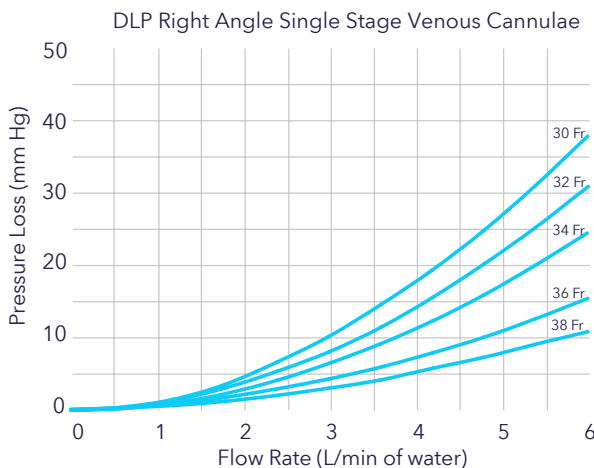
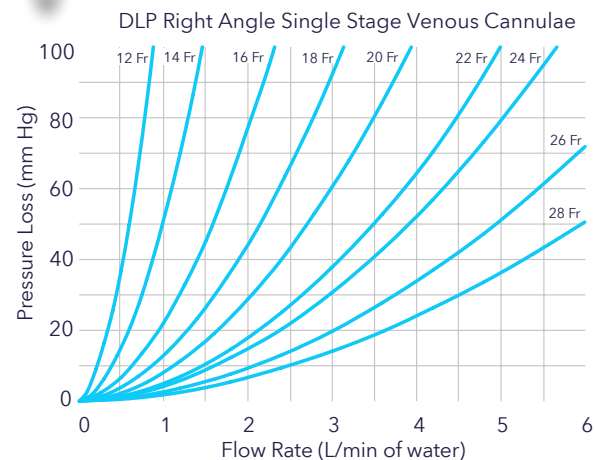
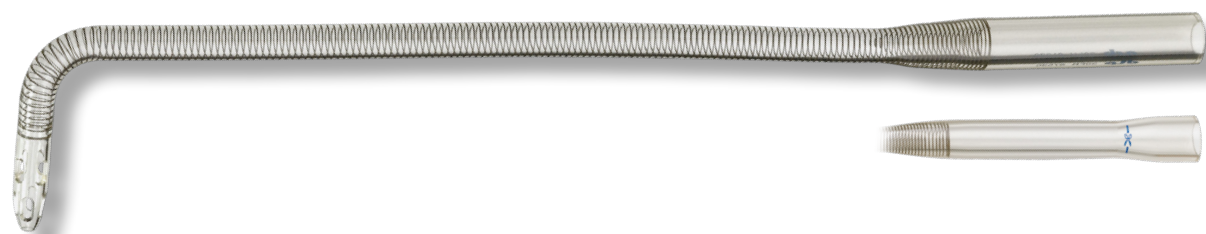
10 per carton

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.



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

Connection site 1/4 in (0.64 cm)

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

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

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

Connection site 3/8 in (0.95 cm)

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

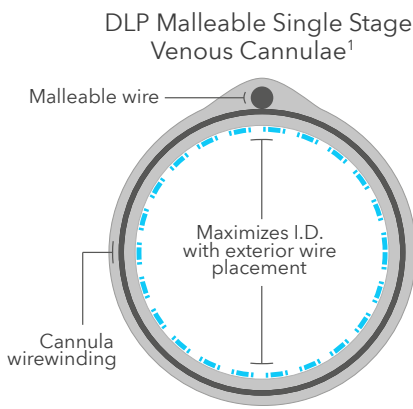
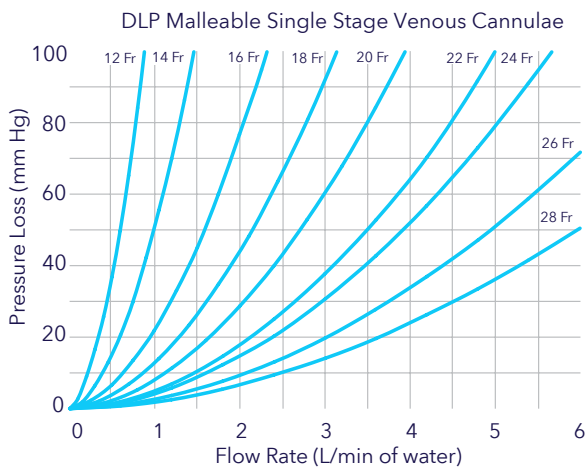
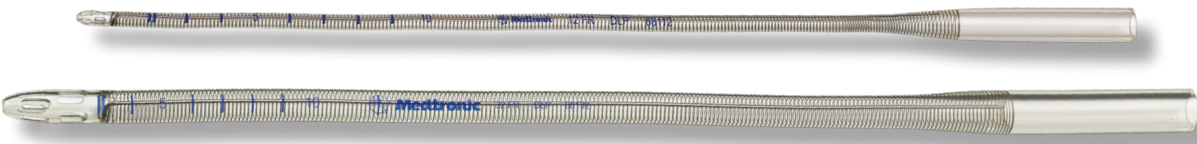
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Venous Cannulae

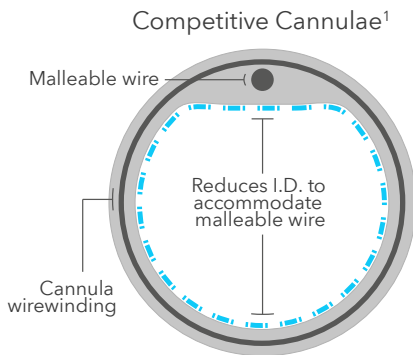
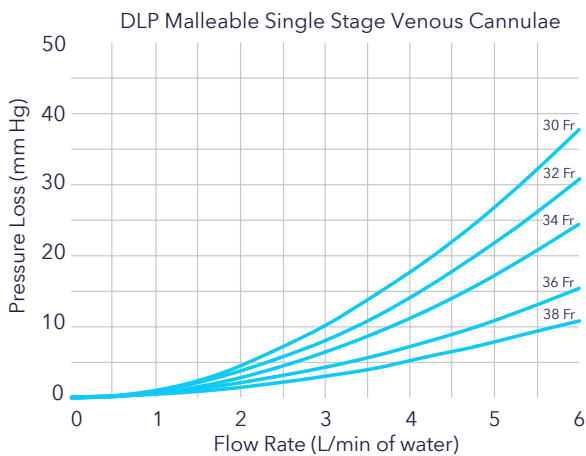
DLP™ Malleable Single Stage Venous Cannulae



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.



Models 68124, 24 Fr, and 68130, 30 Fr



Edwards™ Malleable Single Stage Venous Cannula, Model TFM024L, 24 Fr
¹2013 Medtronic data on file.

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

Connection site 1/4 in (0.64 cm)

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

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

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

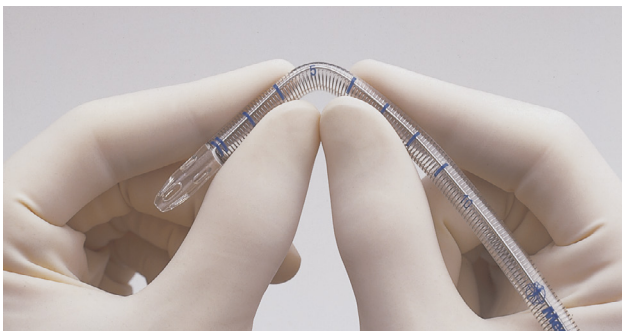
Connection site 3/8 in (0.95 cm)

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

Connection site 1/2 in (1.27 cm)

68136	36 Fr (12.0 mm)
68138	38 Fr (12.7 mm)

10 per carton



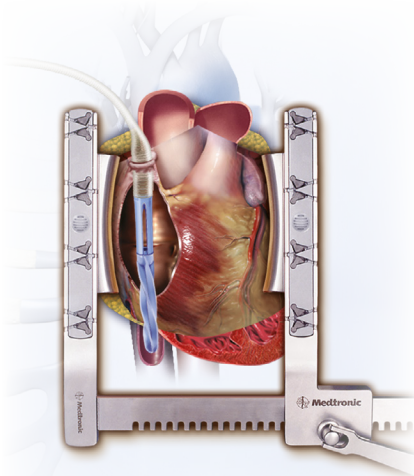
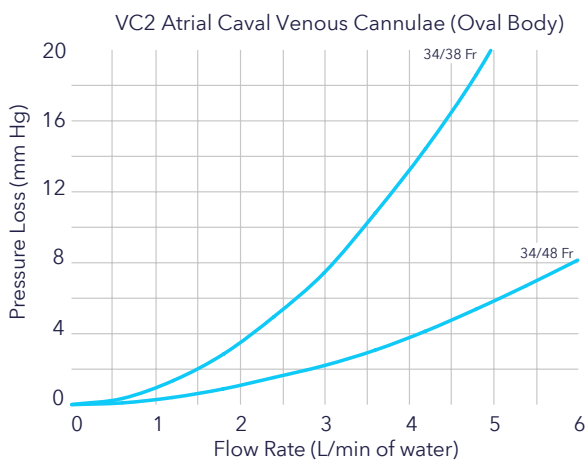
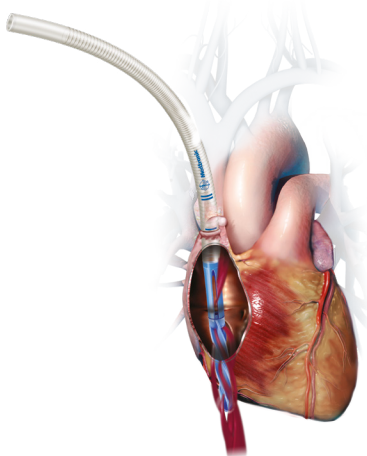
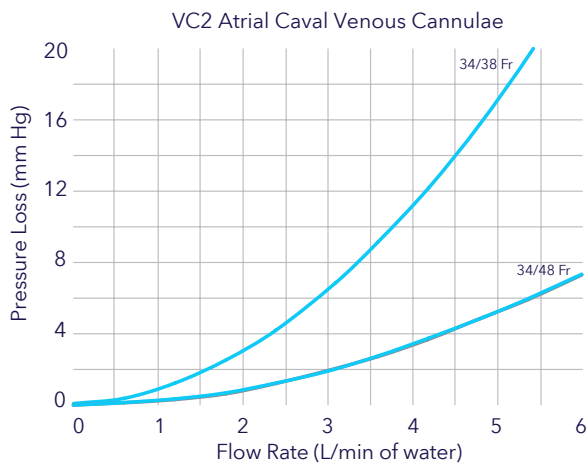
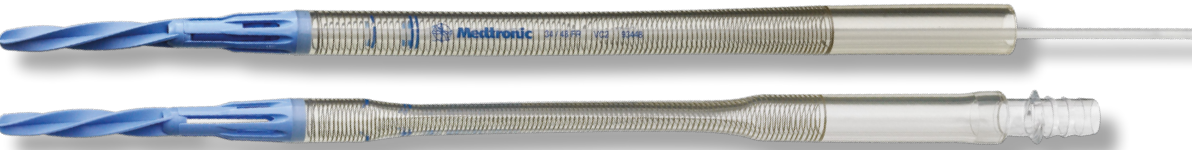
The malleable single stage venous cannulae allow the surgeon to manipulate the cannula shape into virtually any position.

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)

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

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

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

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

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

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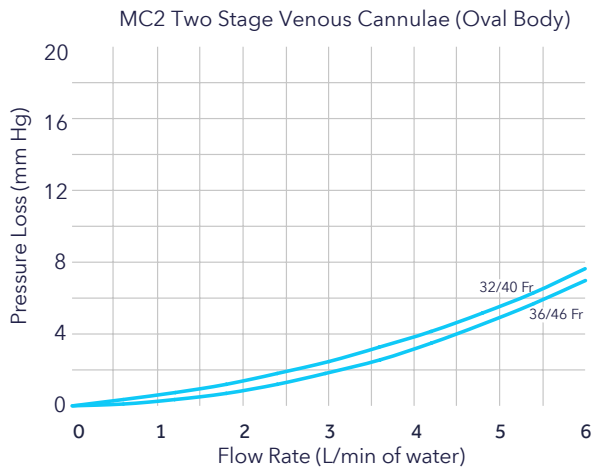
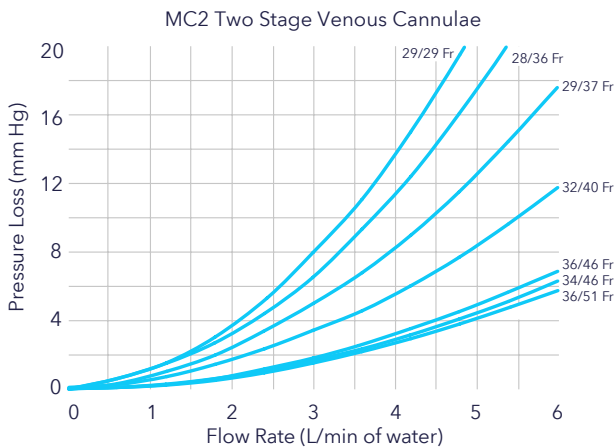
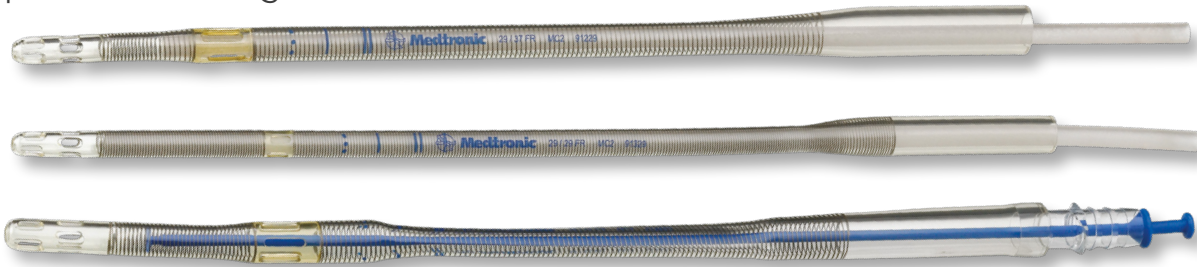
10 per carton

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.



15 in (38.1 cm) overall length

Connection site 3/8 in (0.95 cm)

91228	28/36 Fr (9.3/12.0 mm)
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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)
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Non-vented 1/2 in (1.27 cm) connector

91229C	29/37 Fr (9.7/12.3 mm)
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Thin-wall body Connection site 3/8 in (0.95 cm)

91329	29/29 Fr (9.7/9.7 mm)
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Non-vented 3/8 in (0.95 cm) connector

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

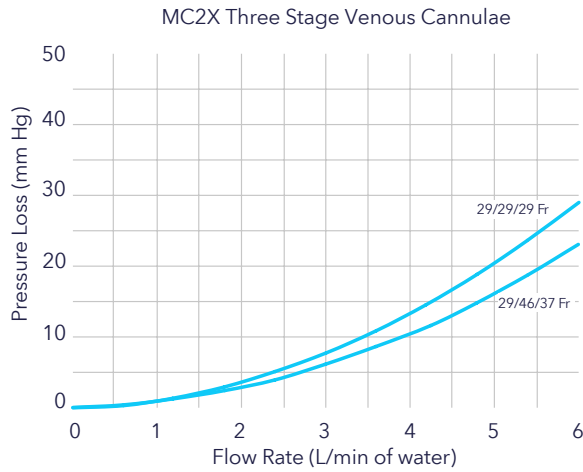
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Venous Cannulae

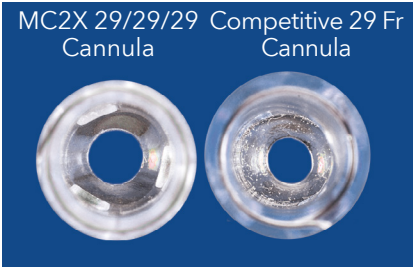
MC2X™ Three Stage Venous Cannulae



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



MC2X has a 31% thinner wall for a larger inner diameter when compared to competitive cannula²

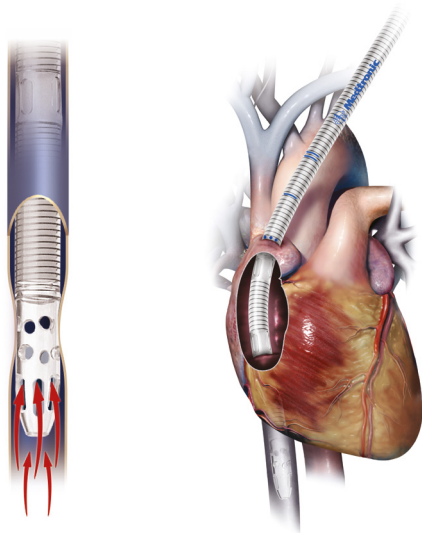


Larger end hole of the MC2X allows for better flow opportunity³
^{2,3} 2013 Medtronic data on file.

15 in (38.1 cm) overall length

Connection site 3/8 in (0.95 cm)

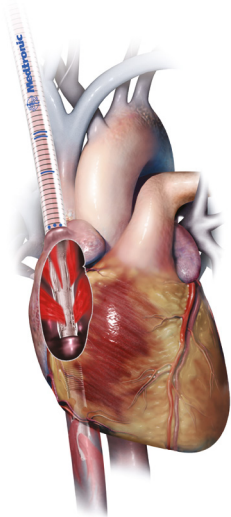
91429	29/29/29 Fr (9.7/9.7/9.7 mm)
Non-vented	
3/8 in (0.95 cm) connector	
91429C	29/29/29 Fr (9.7/9.7/9.7 mm)
10 per carton	



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	



Important Safety Information

The introduction of air into the right heart may result in the immediate total loss of venous drainage to the extracorporeal circulation. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures.

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



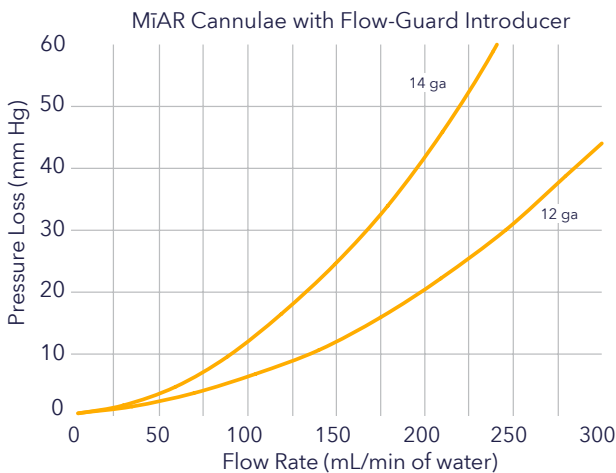
- ▶ MīAR™ Aortic Root with Flow-Guard 36
- ▶ DLP™ Dual Lumen Cardioplegia 37
- ▶ DLP™ Aortic Root 38
- ▶ DLP™ Aortic Root with Vent Line 39
- ▶ DLP™ Cardioplegia Needles 40
- ▶ DLP™ Coronary Ostial Perfusion 41

Antegrade Cannulae

MiAR™ Aortic Root Cannulae with Flow-Guard



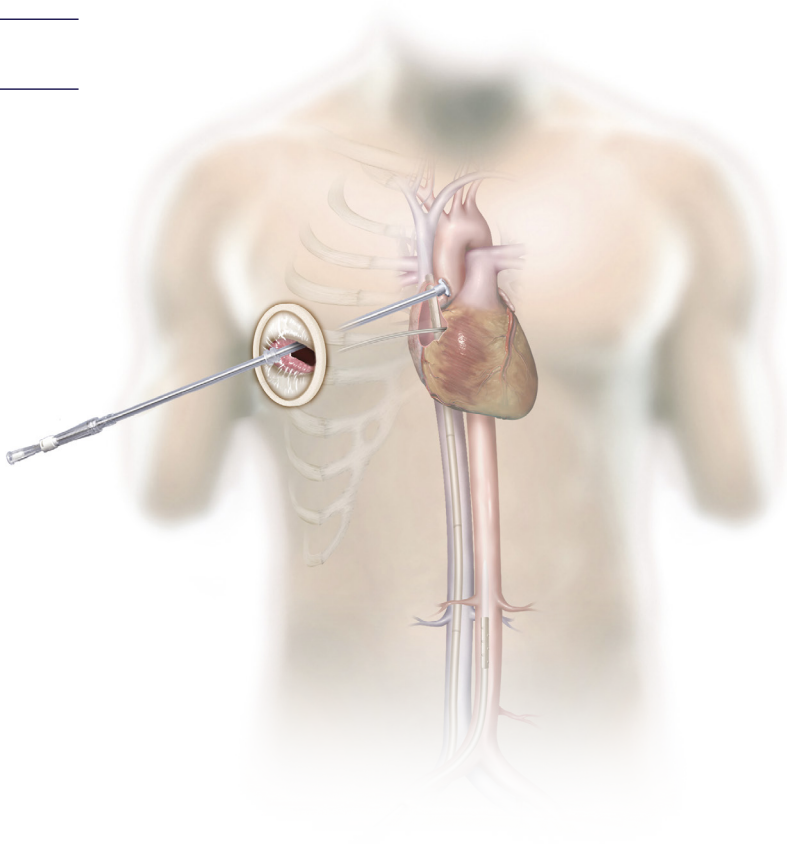
These Minimally Invasive Aortic Root (MiAR) models feature a 12.25 in (31 cm) cannula body to allow access into the chest for small incision techniques. This length also allows positioning of the luer connection to the cardioplegia line out of the surgeon's way, outside the chest incision. Additionally, 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



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.

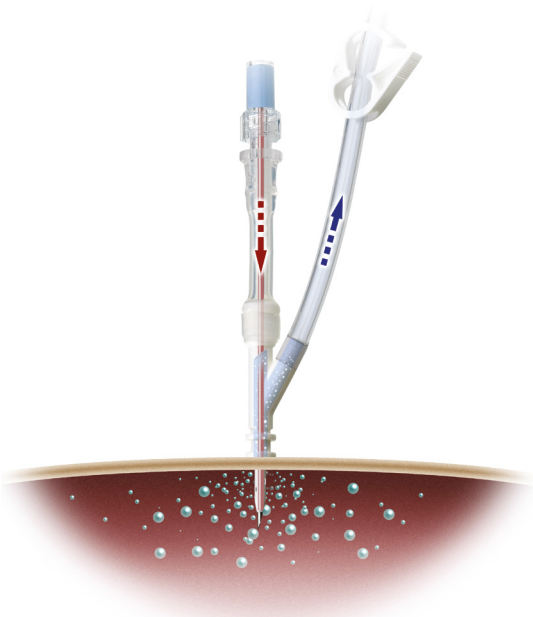
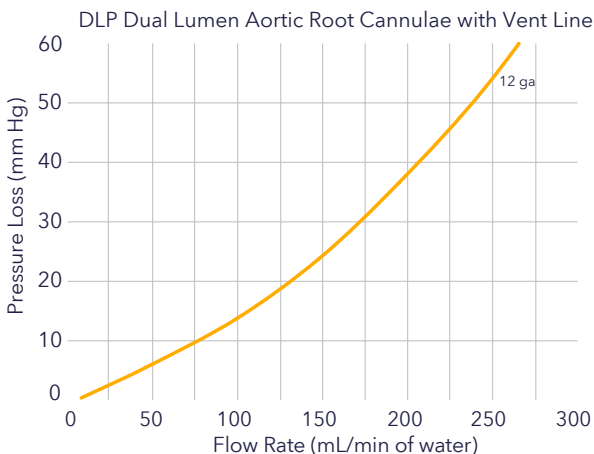
3.25 in (8.3 cm)
overall length

Standard tip

30401

12 ga (9 Fr)

10 per carton



Dual Lumen Aortic Root
Application Detail

Important Safety Information

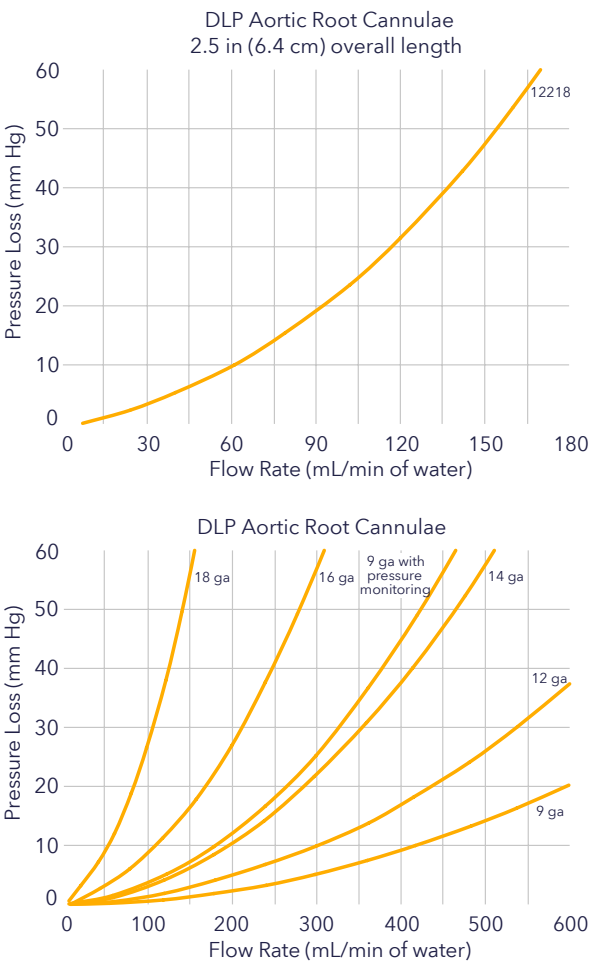
Care should be taken when inserting the needle to prevent perforation of the back wall of the aorta. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. Additional care and caution may be necessary due to the unique adaptations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

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

12218	18 ga (4 Fr) blue one-piece tip and flange
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20 per carton



5.75 in (14.6 cm) overall length

Slotted long tip and
standard introducer

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

20 per carton



5.5 in (14.0 cm) overall length

Flanged standard tip and
standard introducer

10009	9 ga (11 Fr)
10012	12 ga (9 Fr)
10014	14 ga (7 Fr)
10016	16 ga (5 Fr)
10018	18 ga (4 Fr)

Flanged standard tip and
Flow-Guard introducer

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

20 per carton

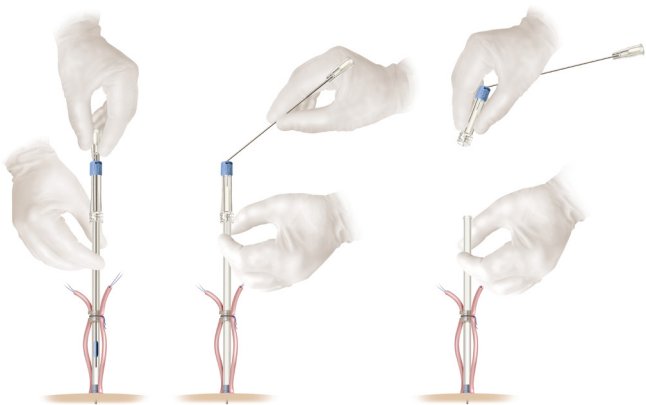


5.25 in (13.3 cm) overall length

Flanged pressure
monitoring tip and
standard introducer

23009	9 ga (11 Fr)
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20 per carton



Flow-Guard Introducer Application Detail

Important Safety Information

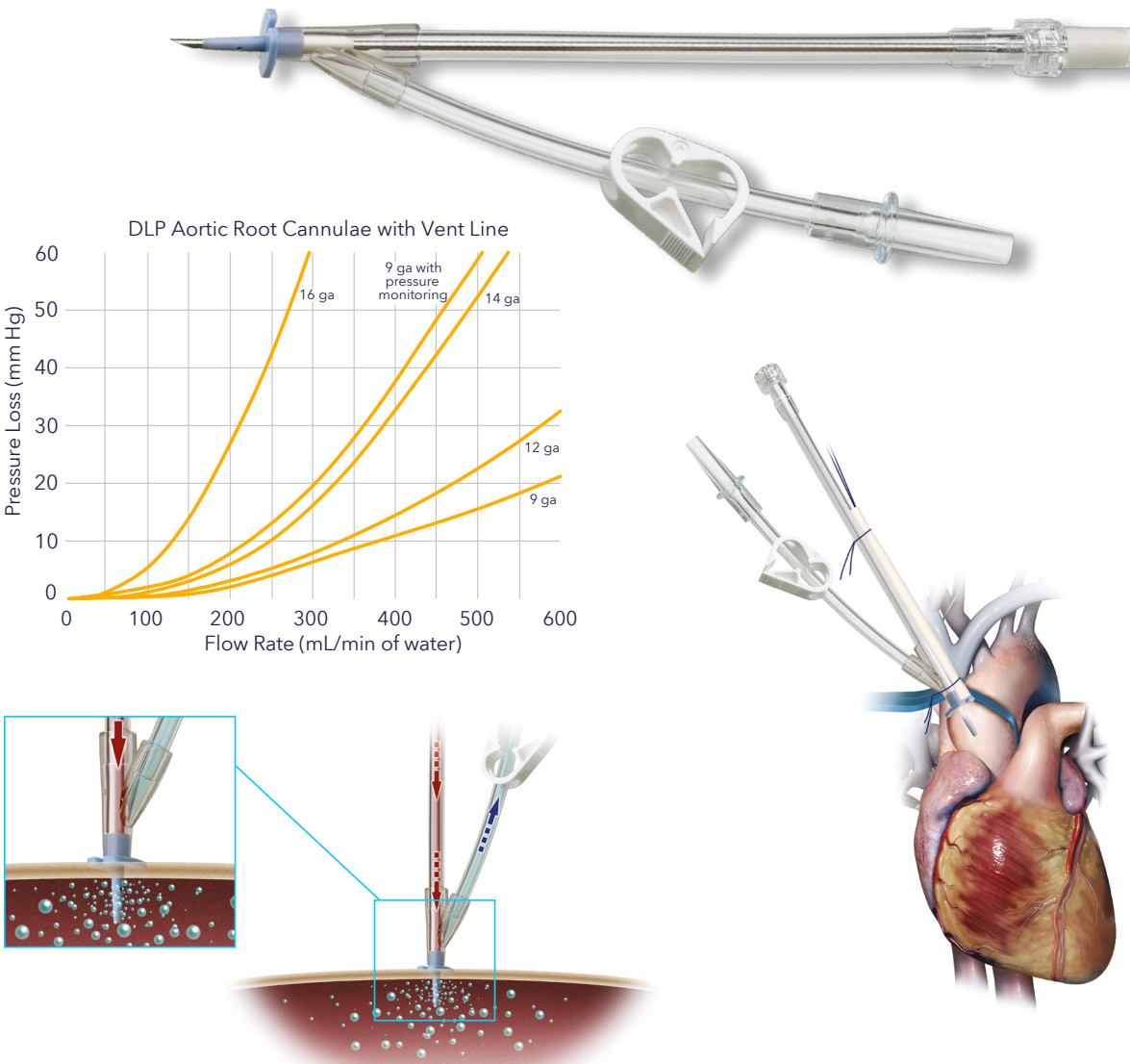
Care should be taken when inserting the needle to prevent perforation of the back wall of the aorta. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. Additional care and caution may be necessary due to the unique adaptations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

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 monitor- ing tip and standard introducer

24009	9 ga (11 Fr)
-------	--------------

20 per carton

Important Safety Information

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

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

Antegrade Cannulae

DLP™ Coronary Ostial Perfusion Cannulae



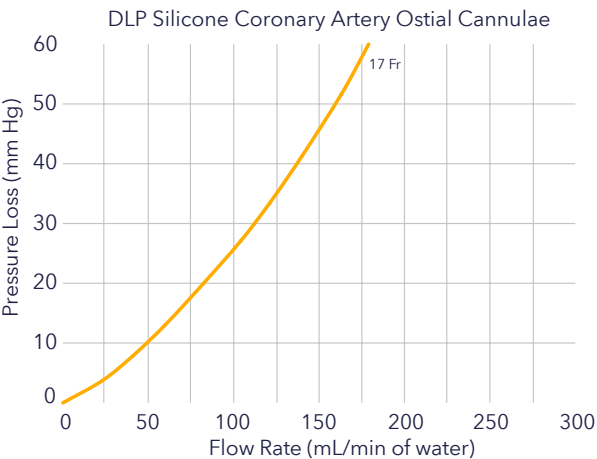
These cannulae feature silicone bodies with soft bulb-shaped tips. All cannulae have a female luer connection site.



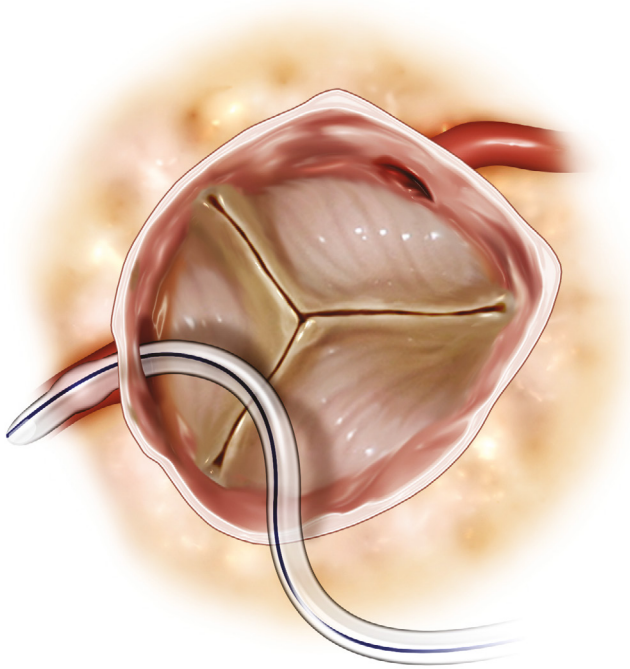
10 in (25.4 cm) overall length

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

10 per carton



Intracoronary cardioplegia

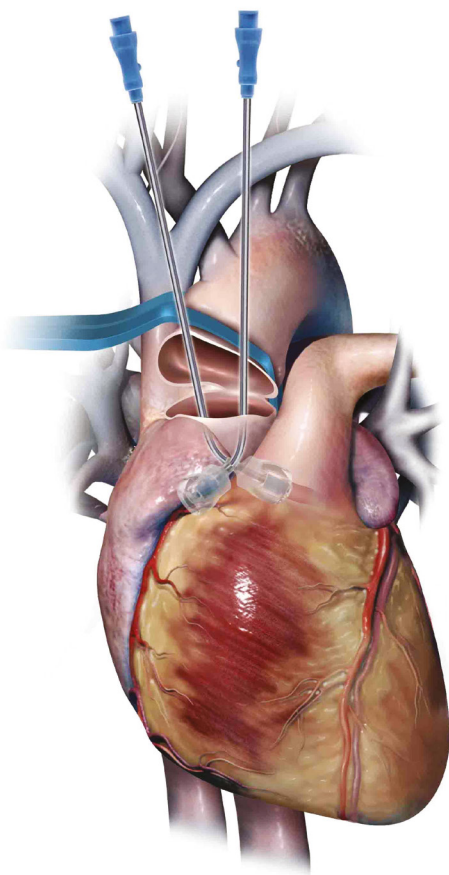
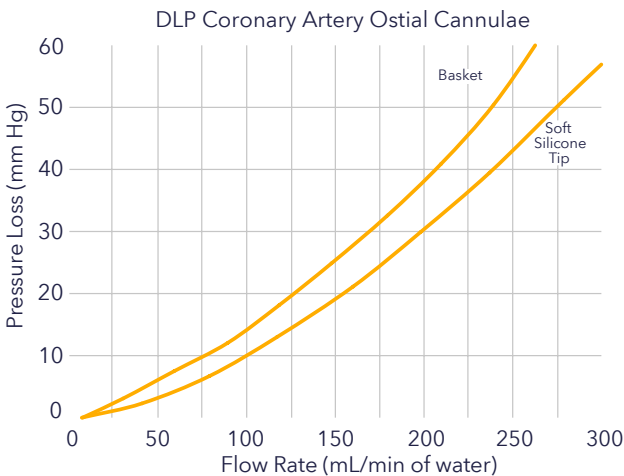


Antegrade Cannulae

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

30010	10 Fr (3.3 mm)
30012	12 Fr (4.0 mm)
30014	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

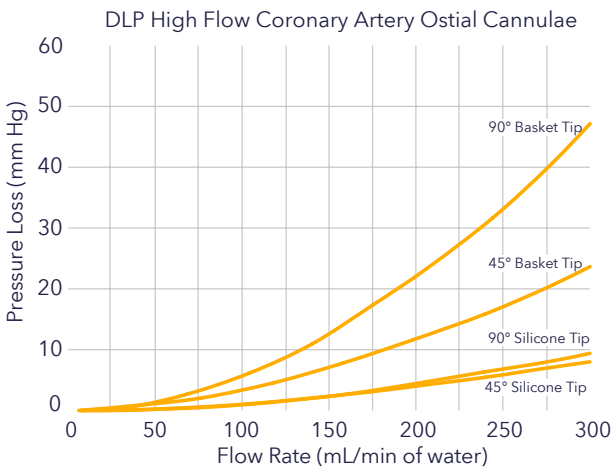
Care should be taken when inserting the needle to prevent perforation of the back wall of the aorta. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. Additional care and caution may be necessary due to the unique adaptations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

Antegrade Cannulae

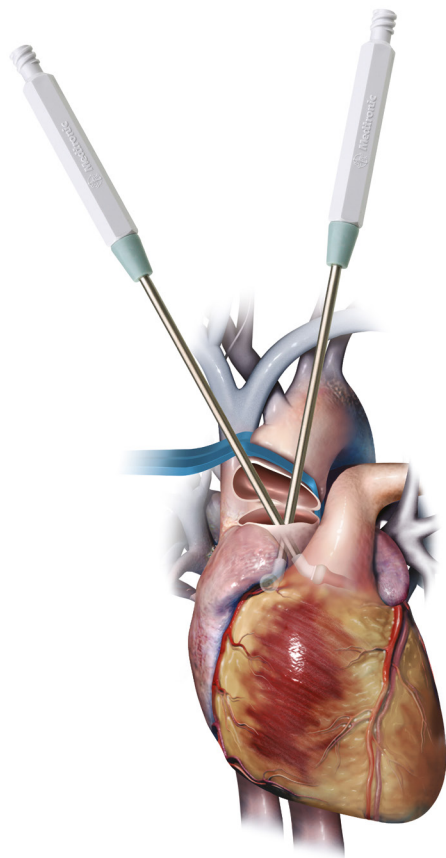
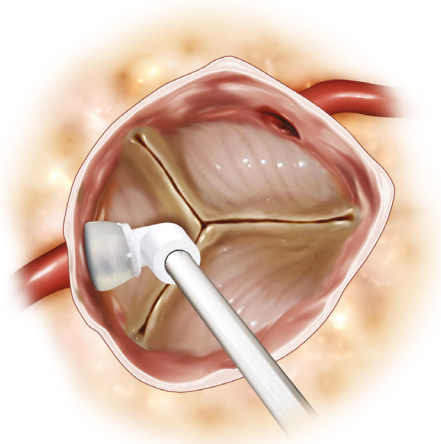
DLP™ Coronary Ostial Perfusion Cannulae



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)
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30112	12 Fr (4.0 mm)
-------	----------------

30114	14 Fr (4.7 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

90° angle soft silicone tip

30155	10 Fr (3.3 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



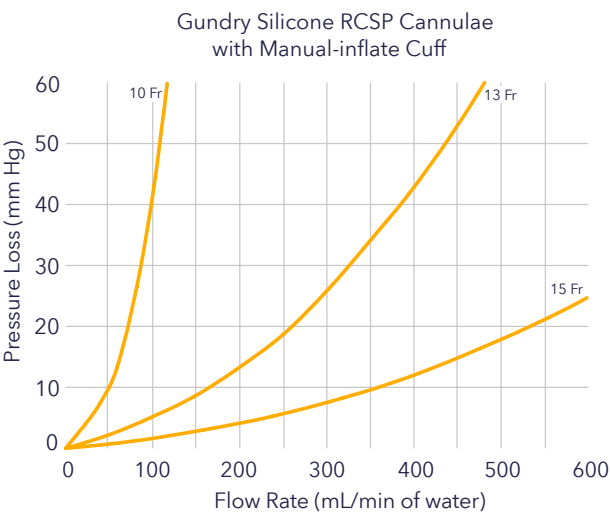
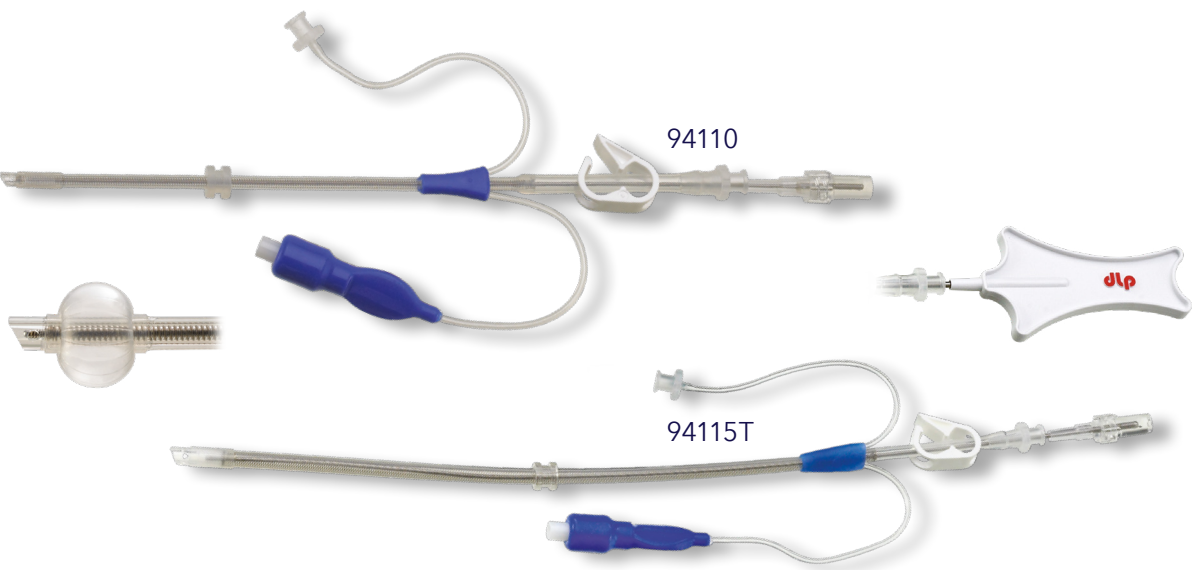
- ▶ Gundry™ Retrograde Coronary Sinus Perfusion
with Manual-Inflate Cuff 46
- ▶ DLP™ Retrograde Coronary Sinus Perfusion
with Manual-Inflate Cuff 47
- ▶ DLP™ Retrograde Coronary Sinus Perfusion
with Auto-Inflate Cuff 49

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	
94110	10 Fr (3.3 mm) guidewire styletw
4 per carton	

12.5 in (31.8 cm) overall length

Smooth cuff and wirewound body	
94115T	15 Fr (5.0 mm) guidewire stylet
10 per carton	

12.5 in (31.8 cm) overall length

Smooth cuff, wirewound body, and integral stopcock	
94113T	13 Fr (4.3 mm) guidewire stylet
10 per carton	
94615	15 Fr (5.0 mm) guidewire stylet
4 per carton	
94715	15 Fr (5.0 mm) guidewire 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 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

94106	6 Fr (2.0 mm) guidewire stylet
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4 per carton

12.5 in (31.8 cm) overall length

Smooth cuff and wirewound body

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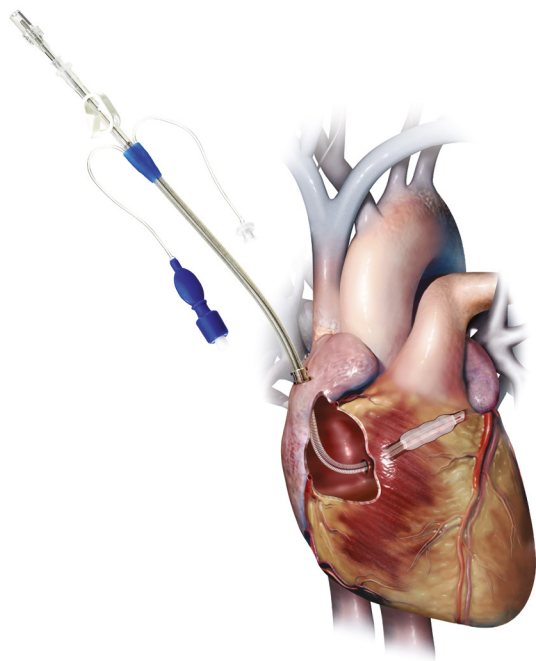
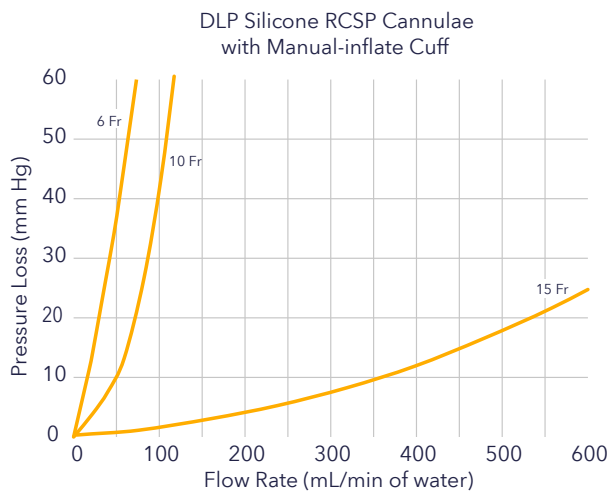
10 per carton

12.5 in (31.8 cm) overall length

Smooth cuff, wirewound body, and integral stopcock

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



Important Safety Information

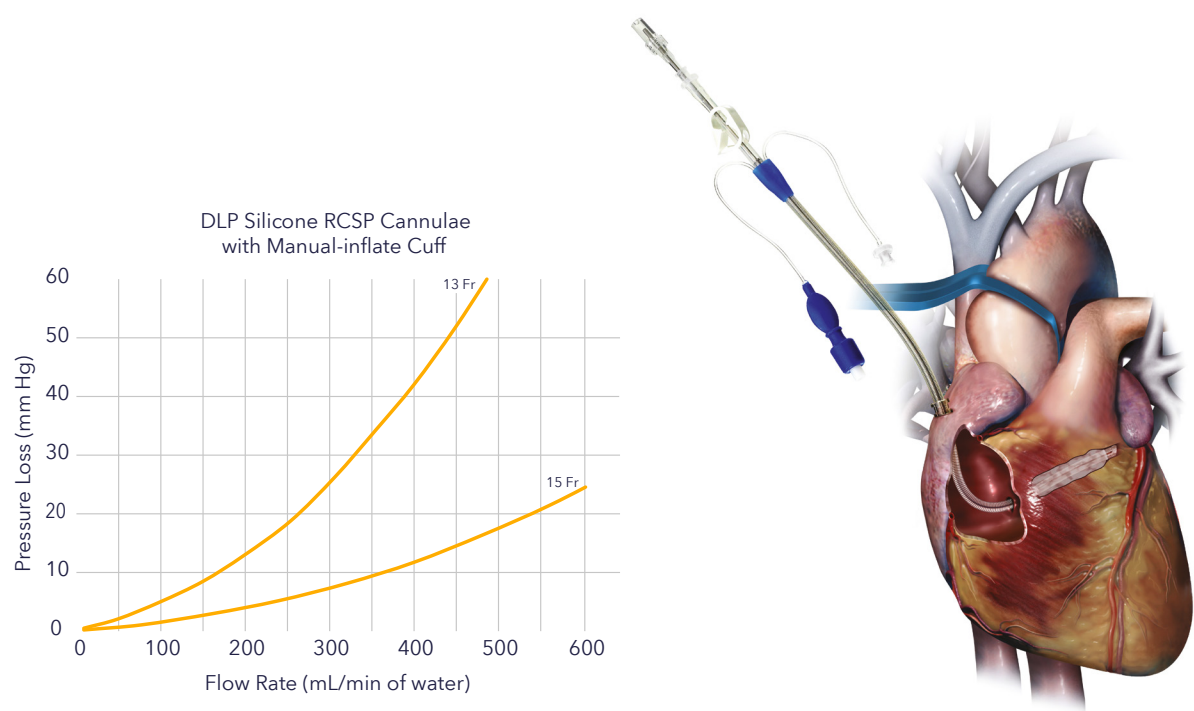
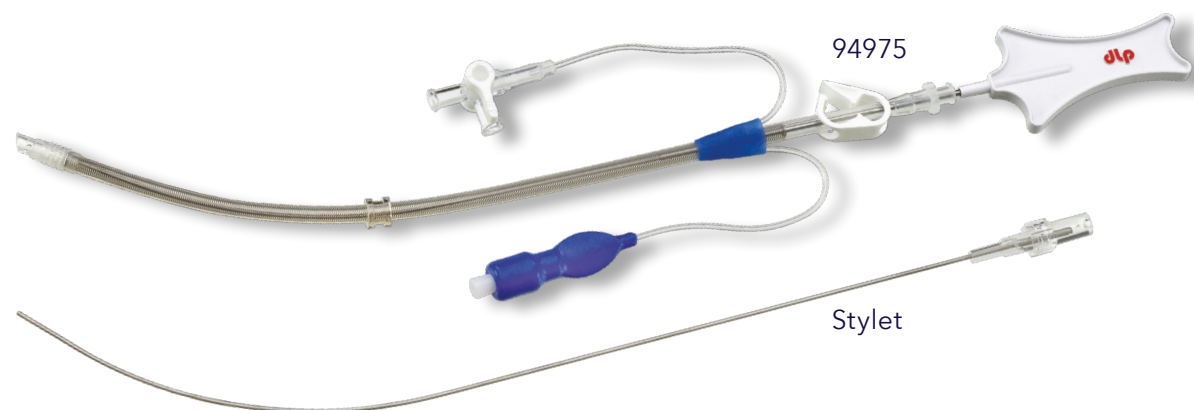
Extreme caution should be exercised while introducing the cannula into the coronary sinus. Do not force the cannula into the coronary sinus as this may cause vessel damage. Do not overinflate the balloon.

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

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

10 per carton



12.5 in (31.8 cm) overall length
Ridged cuff, wirewound body, and integral stopcock

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

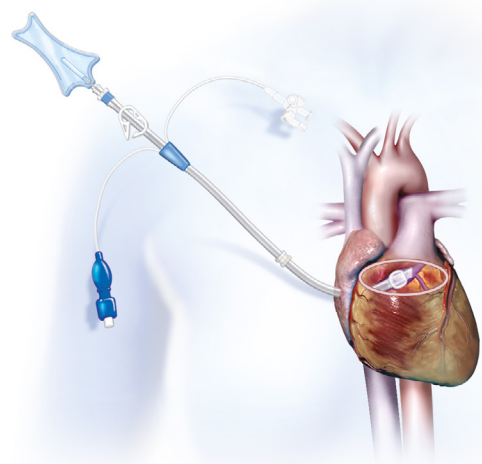
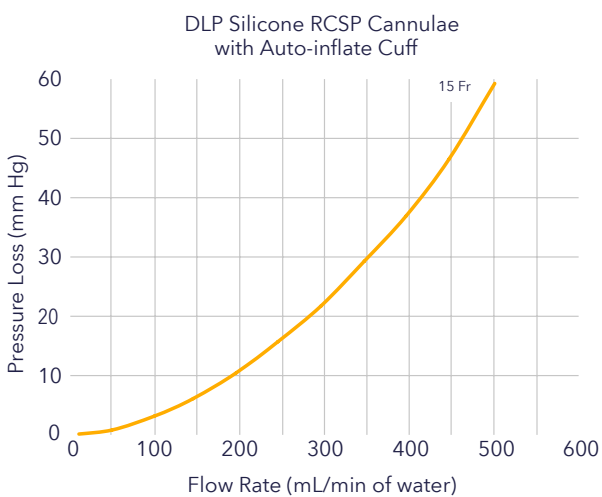
10 per carton

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

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

10 per carton

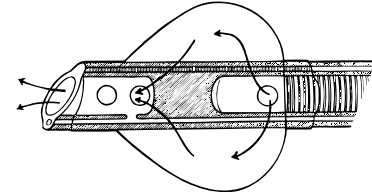


12.5 in (31.8 cm) overall length

Ridged preformed cuff, wirewound body, and integral stopcock

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



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.

Retrograde Cannulae

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



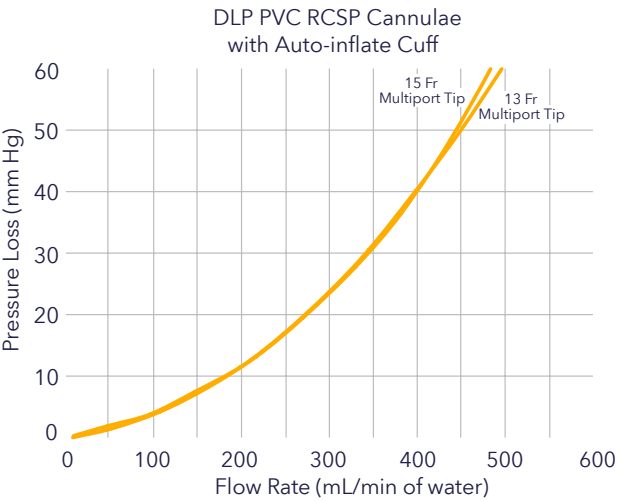
These cannulae feature PVC bodies and polyurethane auto-inflate smooth cuffs with pressure monitoring lines. A variety of stylets are available.



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

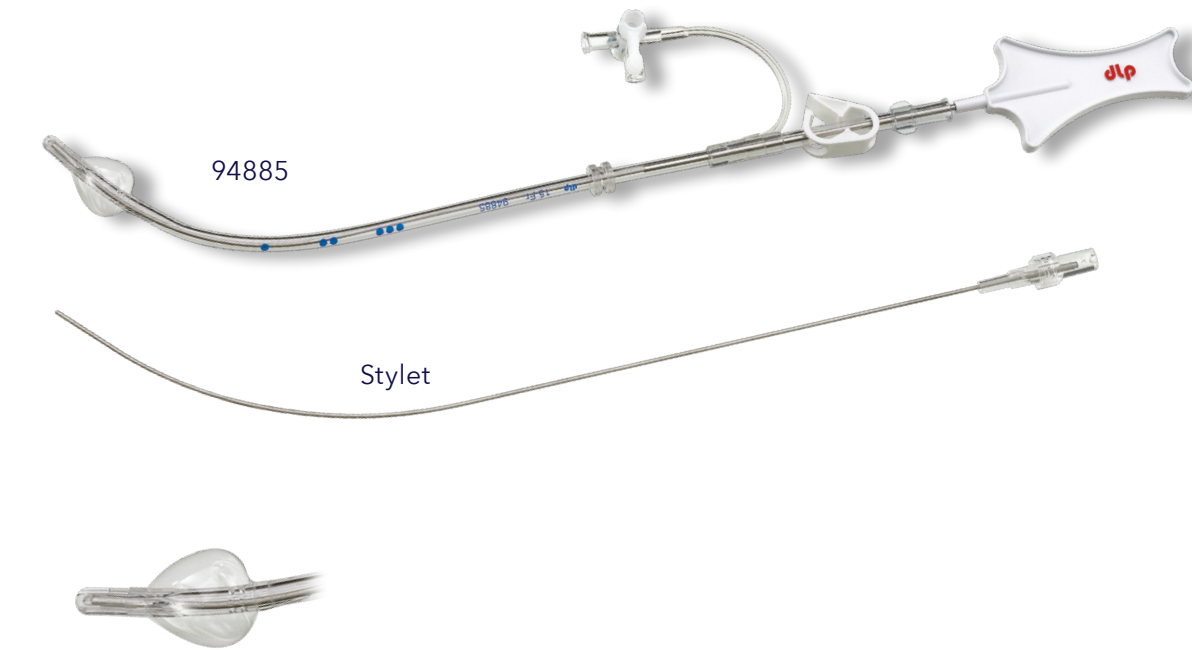


Retrograde Cannulae

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 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



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
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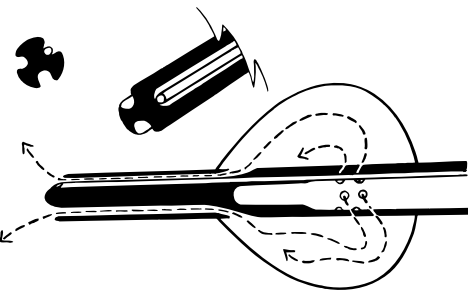
10 per carton



12.5 in (31.8 cm) overall length
Ridged preformed silicone cuff, short fluted bullet-nosed tip, and integral stopcock

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



PVC Auto-inflate Cuff Flow Detail

Cardioplegia circuit

Cardioplegia 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



- ▶ DLP™ Pressure Monitoring Extension Line 54
- ▶ DLP™ Straight 55
- ▶ DLP™ "Y" 55
- ▶ DLP™ "Y" Type Coronary Perfusion 56
- ▶ DLP™ "Y" 57
- ▶ ARISS™ Perfusion Switches 58
- ▶ DLP™ Cardioplegia Management Set 59
- ▶ DLP™ Antegrade/Retrograde Stopcock 59
- ▶ DLP™ Multiple Perfusion Sets 60

Cardioplegia Adapters

DLP™ Pressure Monitoring Extension Line Adapters

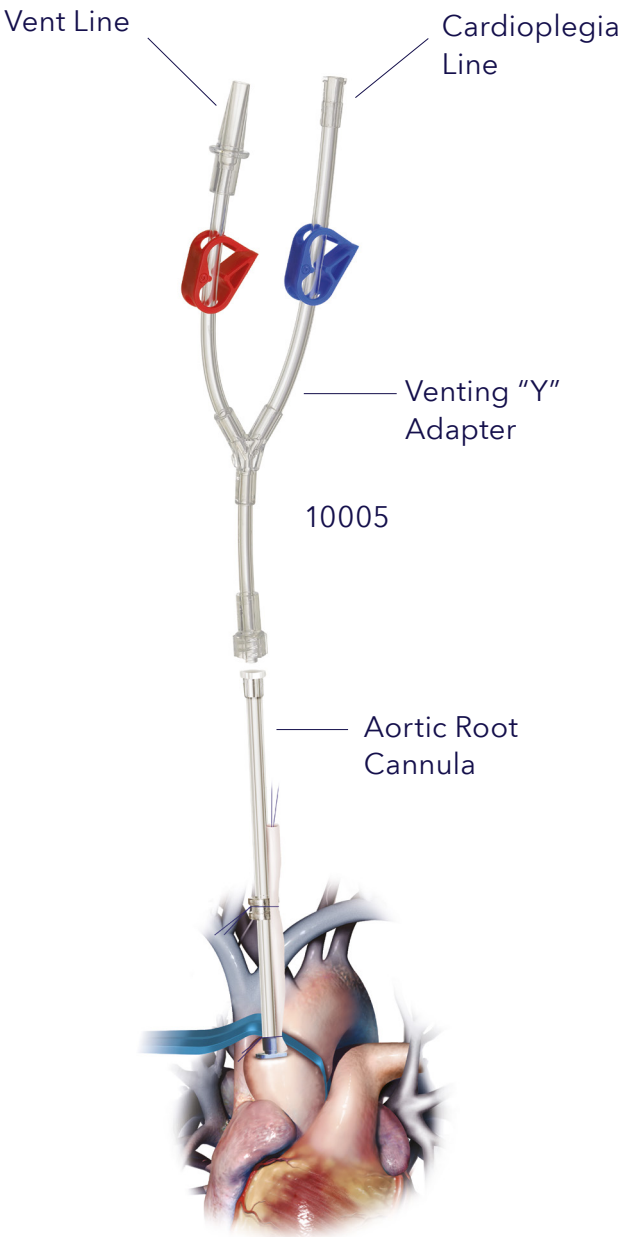


These adapters feature combinations of male and female luers on the ends.

6 ft (1.8 m) overall length

Male and female luers	
25009	male x female luers
25010	male x male luers

20 per carton



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	
10001	with vented 1/4 in connector
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	
10005†	7.5 in (19.1 cm) overall length with 3 in (7.6 cm) inlet leg and color-coded clamps
10534	8.5 in (21.6 cm) overall length with one-way valve in vent line and color-coded clamps
20 per carton	



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

Cardioplegia Adapters

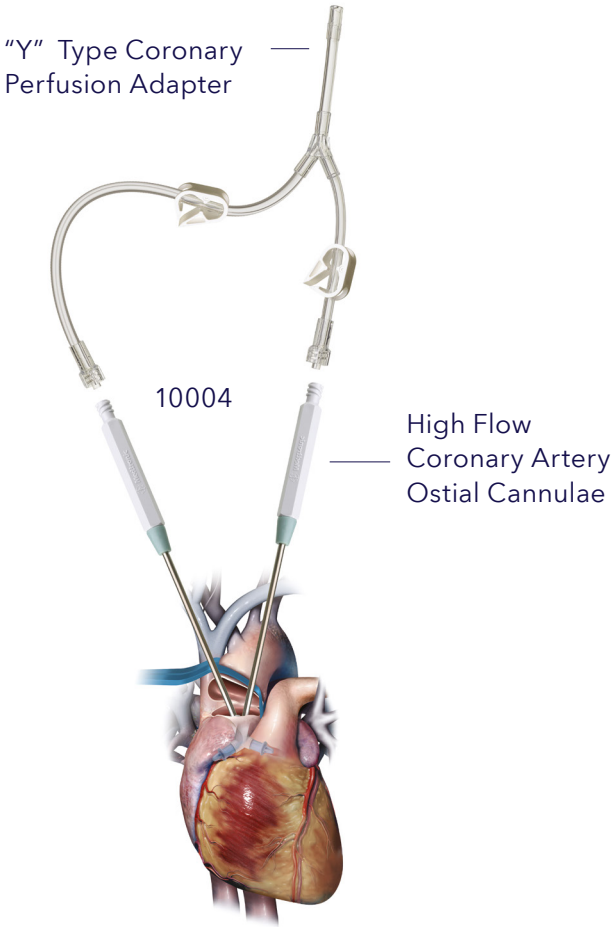
DLP™ "Y" Type Coronary Perfusion Adapters

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



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

20 per carton



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

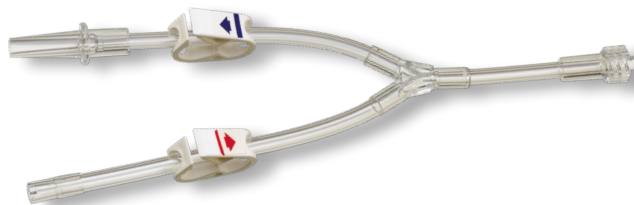
Combination with four legs	
10005BH	color-coded clamps
20 per carton	



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	



Cardioplegia Adapters

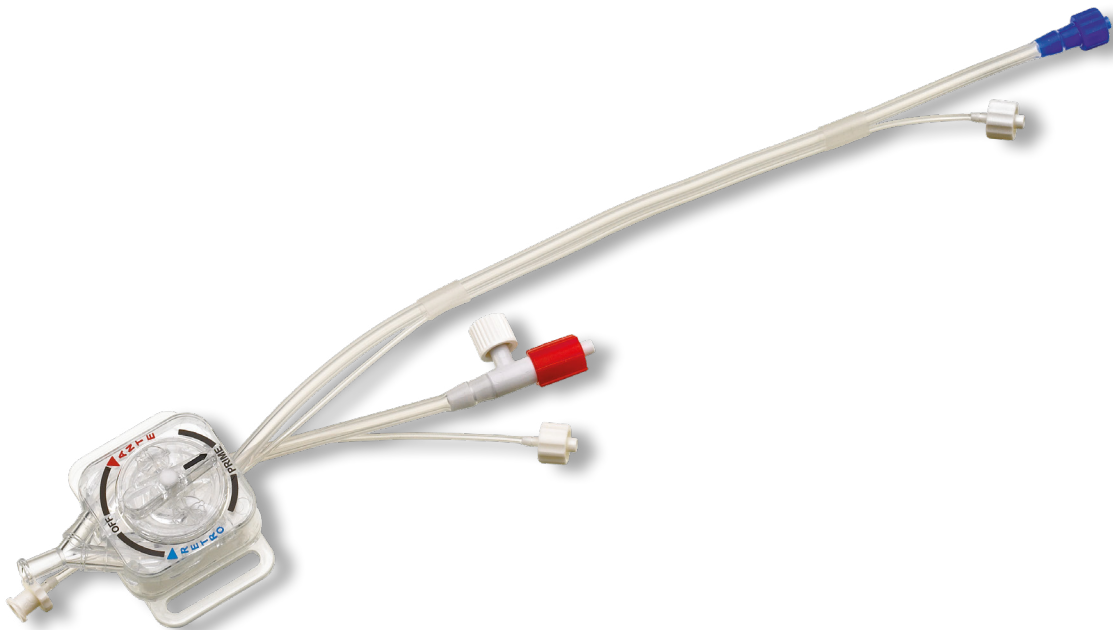
ARISS™ Perfusion Switches



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	

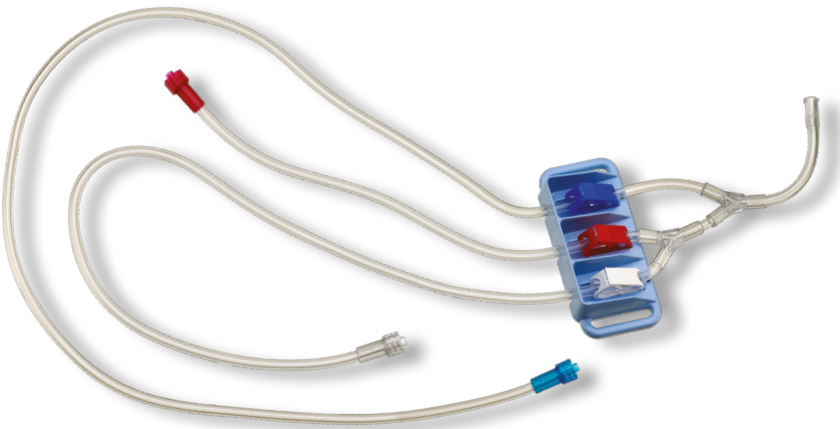


Cardioplegia Adapters

DLP™ Cardioplegia Management Set



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



Female luer on single leg

13003	color-coded clamps
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5 per carton

DLP™ Antegrade/Retrograde Stopcock Adapter

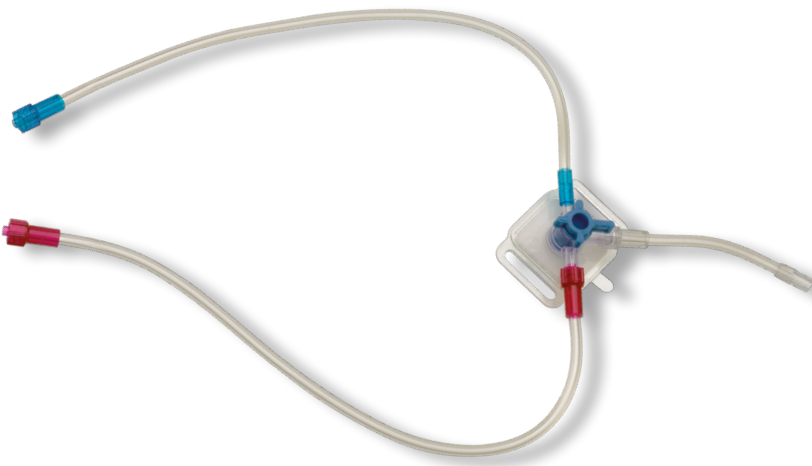
This adapter features a large-bore, three-way stopcock and male luers on the outlet ports.

26.5 in (67.3 cm) overall length

Female luer on single leg

13001

10 per carton



Cardioplegia Adapters

DLP™ Multiple Perfusion Sets



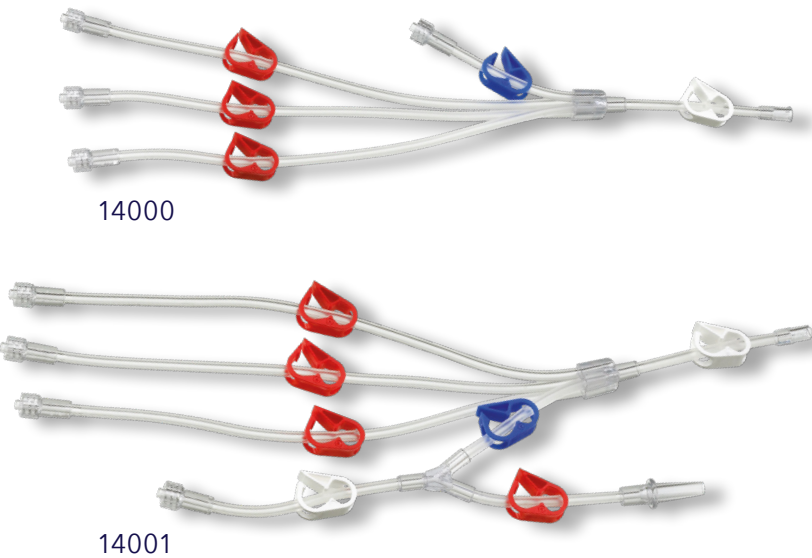
These products allow for simultaneous perfusion of the aortic root and up to three or more vein grafts. They feature inlet ports with male or female luer and clamps attached to an adapter that splits into four or more legs. These legs have color-coded clamps for easy identification and terminate with 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

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

10 per carton



15 in (38.1 cm) overall length

Female luer on single inlet leg with 4 legs

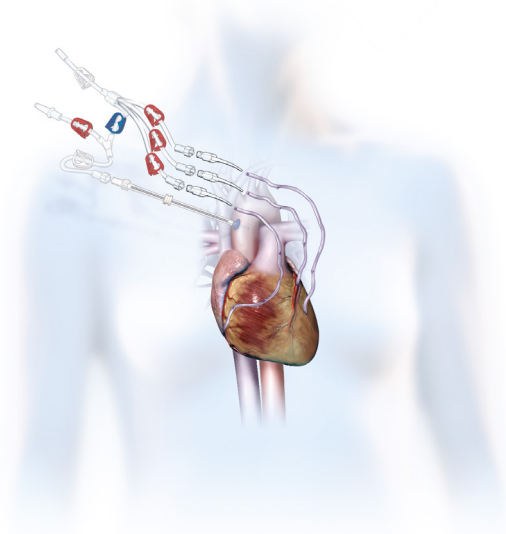
14000	1 - 3 in (7.6 cm) length leg with blue clamp 3 - 10 in (25.4 cm) length legs with red clamps
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10 per carton

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

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

10 per carton



Important Safety Information

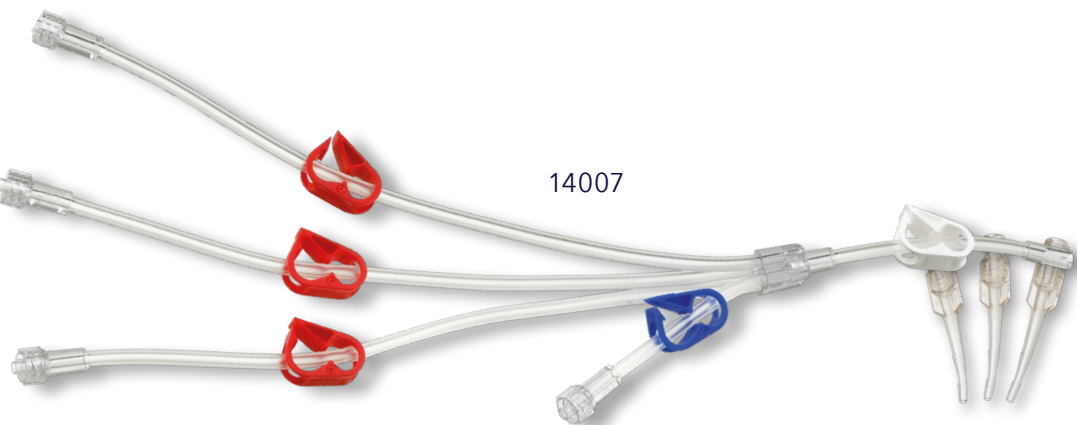
Cardioplegia adapter devices are a combination of products that have their own indications, contraindications, precautions, warnings, and potential adverse events. Refer to those components individually. Cardioplegia adapter devices are not intended for use except as indicated. Use the lowest possible 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.



15 in (38.1 cm) overall length

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

14007	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)

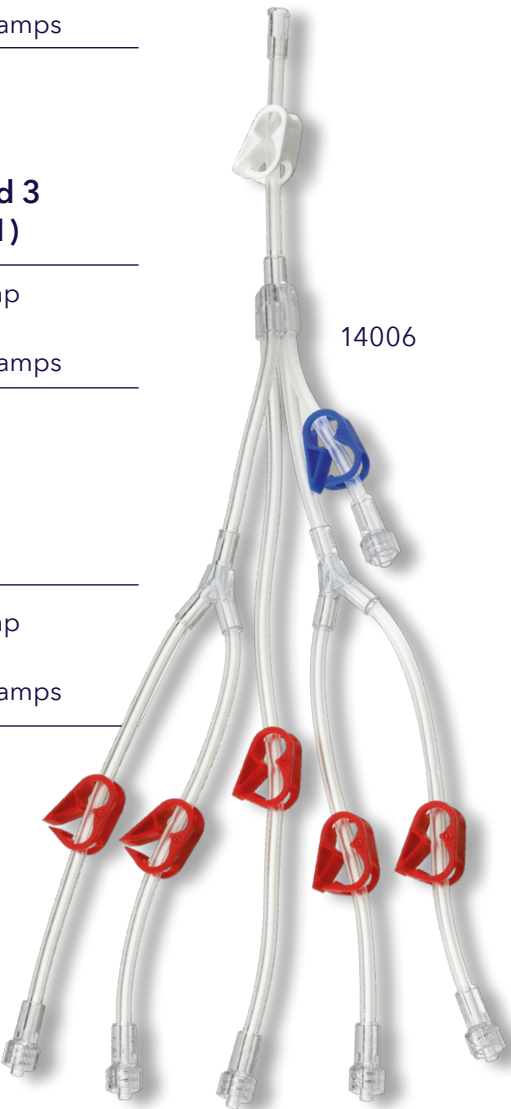
14008	1 - 3 in (7.6 cm) length leg with blue clamp
	3 - 10 in (25.4 cm) length legs with red clamps

10 per carton

Female luer on single inlet leg with 6 legs

14006	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



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



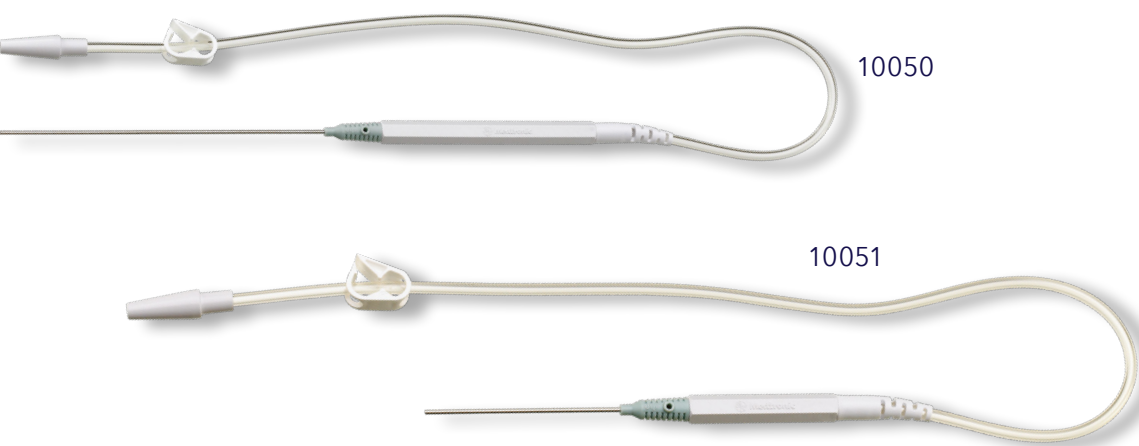
- ▶ DLP™ Cardiac Suction Tubes 64
- ▶ DLP™ Pericardial Sumps 67
- ▶ DLP™ Pericardial/Intracardiac Sumps 67
- ▶ DLP™ Cardiac Sump 68
- ▶ DLP™ Left Heart Vent Catheters 69

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

10051

6 Fr (2.0 mm) shaft

Soft tip

10053

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

10050

6 Fr (2.0 mm) shaft

Soft tip

10052

6 Fr (2.0 mm) shaft with
10 Fr (3.3 mm) tip

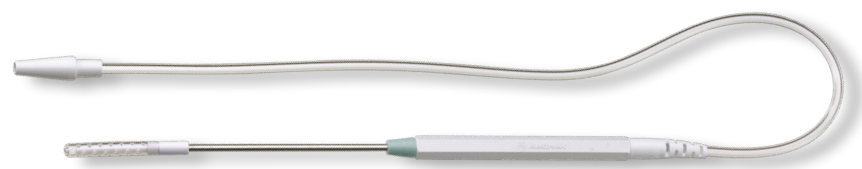
20 per carton

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	
10061	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	
10062	9 Fr (3.0 mm) tip with 11 Fr (3.7 mm) shaft
20 per carton	

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)

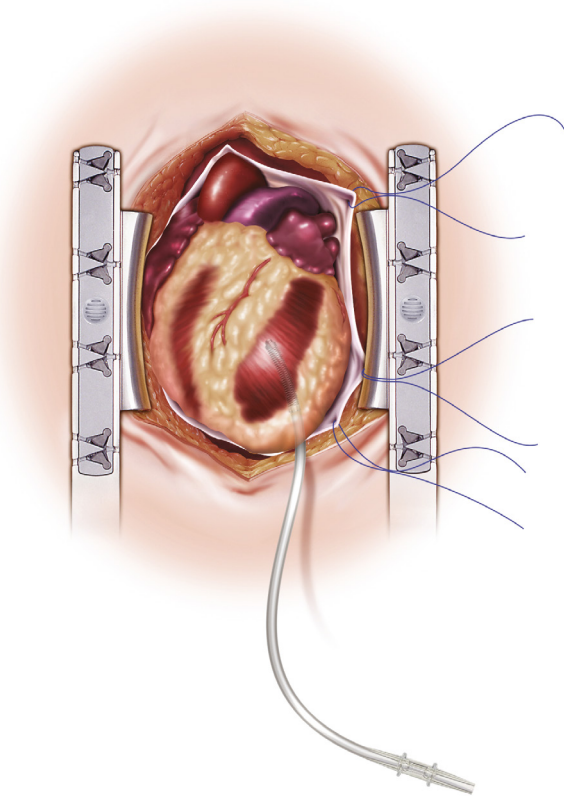
20 per carton

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

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

15 in (38.1 cm) overall length

12012	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	
12008*	10 Fr (3.3 mm) (8 holes in tip)
20 per carton	

Preformed 2 in (5.1 cm) tip and vented connector	
12001	13 Fr (4.3 mm) (14 holes in tip)
20 per carton	

2 in (5.1 cm) tip, vented connector, and malleable introducer	
12101	13 Fr (4.3 mm) (14 holes in tip)
20 per carton	



PVC 15 in (38.1 cm) overall length

Malleable body and vented connector	
12110	10 Fr (3.3 mm) (9 holes in tip)
12113	13 Fr (4.3 mm) (9 holes in tip)
12115	15 Fr (5.0 mm) (20 holes in tip)
20 per carton	



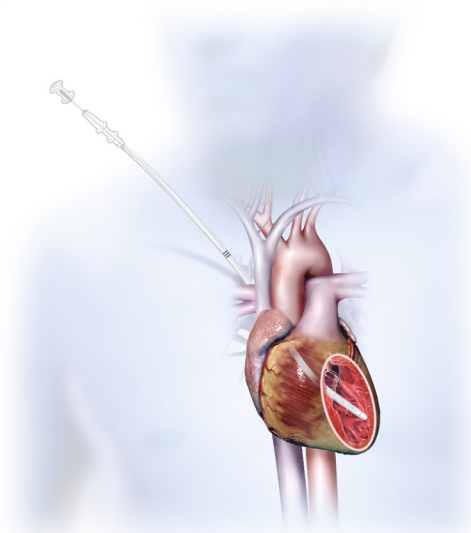
PVC 15 in (38.1 cm) overall length

Malleable body and non-vented connector	
12116	16 Fr (5.3 mm) (11 holes in tip)
12118	18 Fr (6.0 mm) (11 holes in tip)
20 per carton	



Silicone 16 in (40.6 cm) overall length

Non-vented connector and malleable introducer	
12016	16 Fr (5.3 mm) (20 holes in tip)
12002	20 Fr (6.7 mm) (24 holes in tip)
Non-vented connector and preformed introducer	
12220	20 Fr (6.7 mm) (24 holes in tip)
20 per carton	



Products

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Surgical support

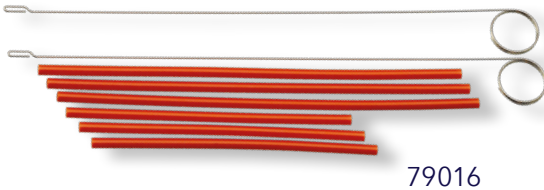
DLP™ Tourniquet Sets



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



Tube length of 5.5 in (14.0 cm)	
79003	12 Fr (1 - red, 2 - blue, 3 - clear, 1 - snare)
79015	12 Fr (1 - red, 2 - blue, 5 - clear, 2 - snares)
40 sets per carton	

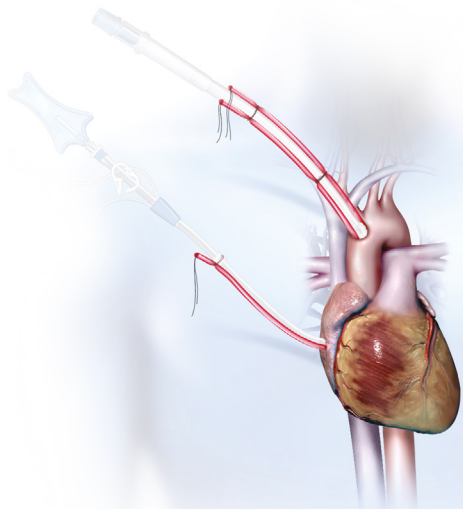


Tube length of 7 in (17.8 cm)

79004	12 Fr (1 - red, 1 - blue, 1 - snare)
79006	12 Fr (1 - red, 1 - blue, 3 - clear, 1 - snare)
40 sets per carton	
79022	12 Fr (6 - small O.D. white radiopaque, 1 - snare)
79023	19 Fr (3 - large O.D. white radiopaque, 1 - snare)
20 sets per carton	
79026	12 Fr (2 - red, 2 - blue, 2 - clear) and 16 Fr (2 - large O.D. clear, 1 - snare)
79027	12 Fr (2 - red, 1 - blue, 1 - snare)
40 sets per carton	



79022



Vena cava sets

Tube length of 7 in (17.8 cm)	
79005	12 Fr (3 - clear, 1 - snare)
79009	12 Fr (4 - clear, 1 - snare)
40 sets per carton	



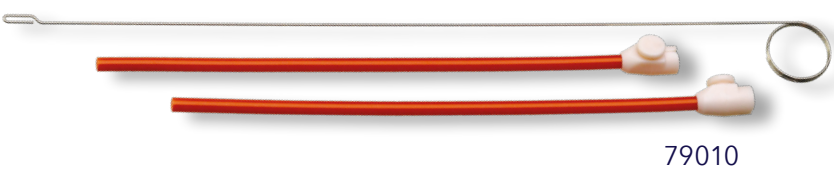
79005

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.

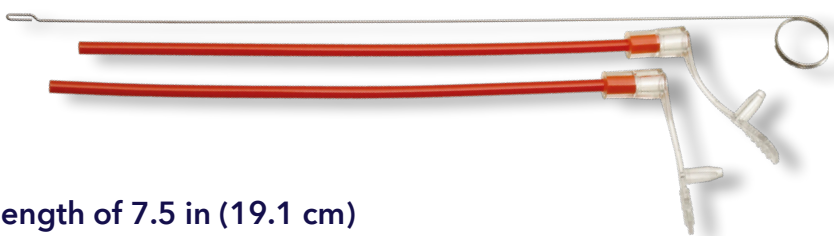


Tube length of 6 in (15.2 cm)	
79010	12 Fr (2 - tubes, 1 - snare)
79011	12 Fr (4 - tubes, 1 - snare)
40 sets per carton	

Tube length of 7.5 in (19.1 cm)	
79012	12 Fr (2 - tubes, 1 - snare)
79013	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)	
79020	22 Fr (2 - tubes, 2 - umbilical tapes, 2 - plastic snares)
20 sets per carton	



Tube length of 7.5 in (19.1 cm)	
79008	12 Fr (2 - tubes, 1 - wire snare)
20 sets per carton	

Surgical support

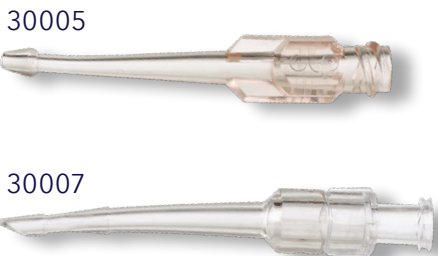
DLP™ Vessel Cannulae



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



2 in (5.1 cm) overall length

Clear body with radiopaque band	
30022	3 mm blunt tip
20 per carton	



2 in (5.1 cm) overall length

Radiopaque body	
30006	3 mm beveled tip
30023	3 mm blunt tip
40 per carton	



2.5 in (6.4 cm) overall length

Clear body with one-way valve	
30000	3 mm beveled tip
30001	3 mm blunt tip
40 per carton	



2.5 in (6.4 cm) overall length

Radiopaque body with one-way valve	
30021	3 mm blunt tip
40 per carton	



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

31001	1 mm tip
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

31002	2 mm tip
31003	3 mm tip
20 per carton	



2.3 in (5.8 cm) overall length

31102	2 mm tip
31103	3 mm tip
31104	4 mm tip
31105	5 mm tip
31106	6 mm tip
20 per carton	

Surgical support

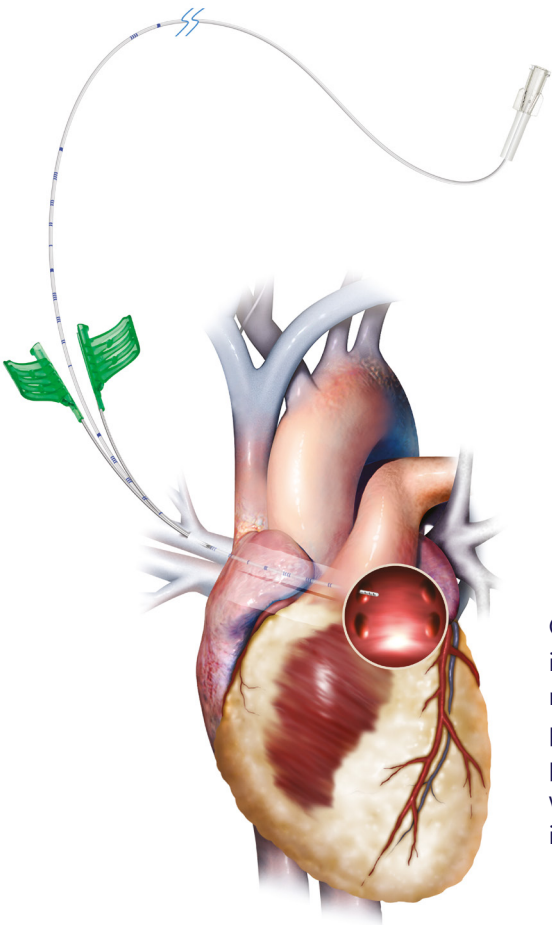
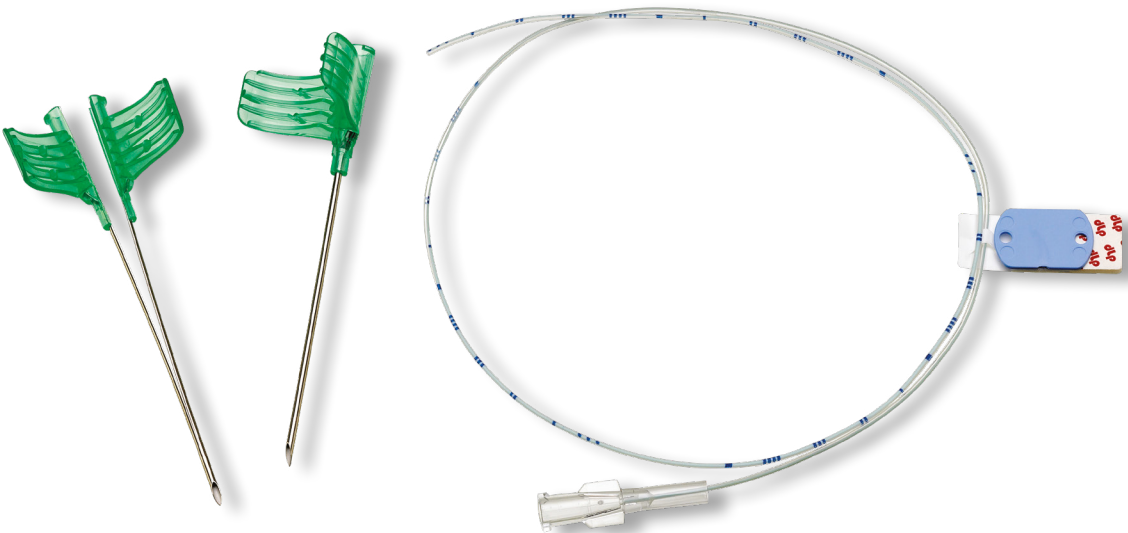
DLP™ Pressure Catheter Placement Set



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

50010	3 Fr (1.0 mm) catheter with 2 - 17 ga peel-away needles
50011	5 Fr (1.7 mm) catheter with 2 - 14 ga peel-away needles
10 per carton	



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

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