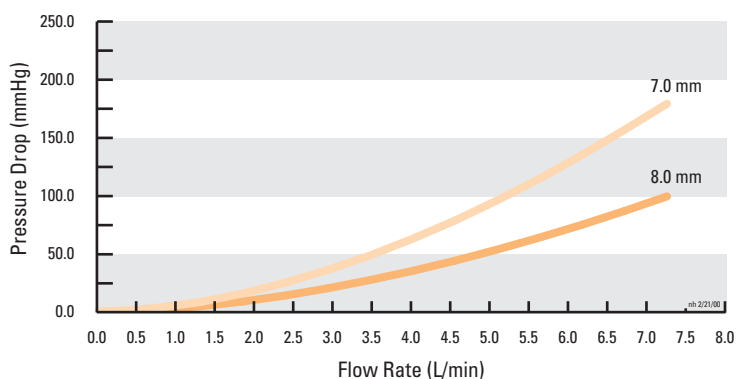




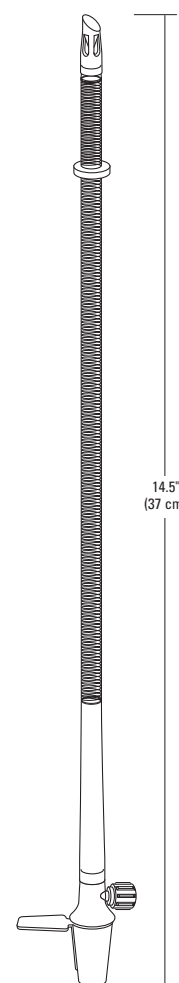
Sarns™ Soft-flow Extended Aortic Cannulae

To gently perfuse the ascending aorta

PRESSURE DROP VS. FLOW RATE SARNSTM™ SOFT-FLOW EXTENDED AORTIC CANNULAE
Terumo in vitro evaluation. Data obtained with water.



Sarns™ Soft-flow Extended Aortic Cannulae



▶ Ordering Information

DESCRIPTION	CATALOG NO.	UNITS/CASE
Straight tip, wire reinforced		
7.0 mm (21 Fr) OD with 3/8" connector, 14.5" (37 cm) long	4948	10
Ⓢ 8.0 mm (24 Fr) OD with 3/8" connector, 14.5" (37 cm) long	4950	10
Straight tip, wire reinforced with luer port		
Ⓢ 7.0 mm (21 Fr) OD with 3/8" connector, 14.5" (37 cm) long	4949	10
7.0 mm (21 Fr) OD with 3/8" connector, 14.5" (37 cm) long, with X Coating™	4949X	10
Ⓢ 8.0 mm (24 Fr) OD with 3/8" connector, 14.5" (37 cm) long	4951	10
8.0 mm (24 Fr) OD with 3/8" connector, 14.5" (37 cm) long, with X Coating™	4951X	10

Sarns™ Soft-flow Aortic Cannulae U.S. patents 5,354,288 · 5,643,266 · 5,685,865

Xcoating™ is Terumo's own biocompatible hydrophilic polymer surface coating

Ⓢ standard item – delivery from stock

✔ Features

Sarns™ Soft-flow Extended Aortic Cannulae

- Reduced exit velocity
- Flexible, thin-walled tube
- Movable suture ring
- Applicable for less invasive procedures
- Available with X Coating™

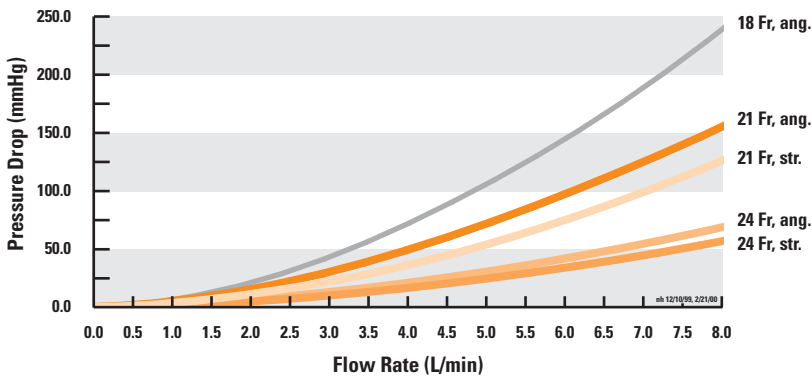


Sarns™ Soft-flow Aortic Cannulae (without Suture Flange)

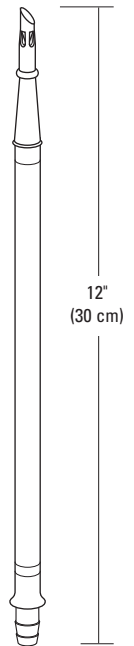
To gently perfuse the ascending aorta

PRESSURE DROP VS. FLOW RATE SARNST™ SOFT-FLOW AORTIC CANNULAE

Terumo in vitro evaluation. Data obtained with water.



Sarns™ Soft-flow Aortic Cannulae



▶ Ordering Information

DESCRIPTION	CATALOG NO.	UNITS/CASE
Straight tip		
7.0 mm (21 Fr) OD with 3/8" connector, 12" (30 cm) long	5846	20
8.0 mm (24 Fr) OD with 3/8" connector, 12" (30 cm) long	5847	20
Straight tip with luer port		
7.0 mm (21 Fr) OD with 3/8" connector, 12" (30 cm) long	5844	20
8.0 mm (24 Fr) OD with 3/8" connector, 12" (30 cm) long	5845	20
Straight tip, wire reinforced		
7.0 mm (21 Fr) OD with 3/8" connector, 14" (35 cm) long	5842	20
8.0 mm (24 Fr) OD with 3/8" connector, 14" (35 cm) long	5843	20
Straight tip, wire reinforced with luer port		
7.0 mm (21 Fr) OD with 3/8" connector, 14" (35 cm) long	5798	20
8.0 mm (24 Fr) OD with 3/8" connector, 14" (35 cm) long	5841	20

✓ Features

Sarns™ Soft-flow Aortic Cannulae

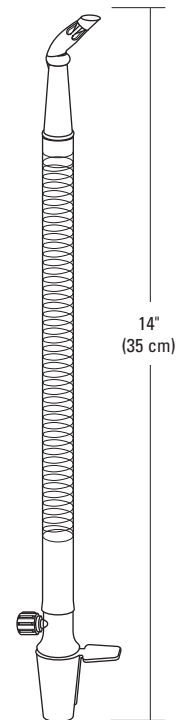
- Reduces jetting effect
- Smooth, tapered, reverse-angle tip
- Closed diffuser tip
- No increased hemolysis
- Available with X Coating™

Xcoating™ is Terumo's own biocompatible hydrophilic polymer surface coating



▶ Ordering Information

DESCRIPTION	CATALOG NO.	UNITS/CASE
Angled tip		
7.0 mm (21 Fr) OD with 3/8" connector, 12" (30 cm) long	5779	20
8.0 mm (24 Fr) OD with 3/8" connector, 12" (30 cm) long	5781	20
Angled tip with luer port		
7.0 mm (21 Fr) OD with 3/8" connector, 12" (30 cm) long	5772	20
Ⓢ 8.0 mm (24 Fr) OD with 3/8" connector, 12" (30 cm) long	5774	20
Angled tip, wire reinforced		
6.0 mm (18 Fr) OD with 3/8" connector, 14" (35 cm) long	7071	20
Ⓢ 7.0 mm (21 Fr) OD with 3/8" connector, 14" (35 cm) long	5767	20
7.0 mm (21 Fr) OD with 3/8" connector, 14" (35 cm) long, with X Coating™	5767X	10
Ⓢ 8.0 mm (24 Fr) OD with 3/8" connector, 14" (35 cm) long	5768	20
8.0 mm (24 Fr) OD with 3/8" connector, 14" (35 cm) long, with X Coating™	5768X	10
Angled tip, wire reinforced with luer port		
6.0 mm (18 Fr) OD with 3/8" connector, 14" (35 cm) long	7072	20
6.0 mm (18 Fr) OD with 3/8" connector, 14" (35 cm) long, with X Coating™	7072X	10
Ⓢ 7.0 mm (21 Fr) OD with 3/8" connector, 14" (35 cm) long	5761	20
7.0 mm (21 Fr) OD with 3/8" connector, 14" (35 cm) long, with X Coating™	5761X	10
Ⓢ 8.0 mm (24 Fr) OD with 3/8" connector, 12" (30 cm) long	5762	20
8.0 mm (24 Fr) OD with 3/8" connector, 12" (30 cm) long, with X Coating™	5762X	10



Xcoating™ is Terumo's own biocompatible hydrophilic polymer surface coating

Ⓢ standard item – delivery from stock

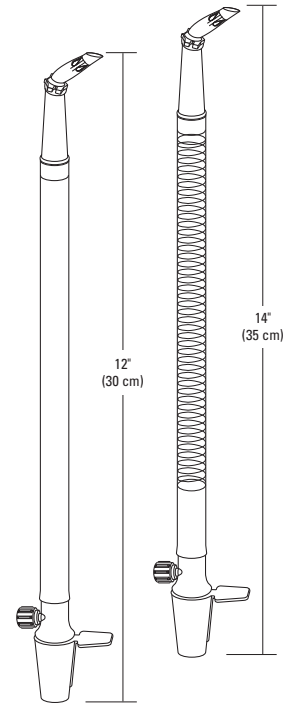


Sarns™ Soft-flow Aortic Cannulae (with Suture Flange)

To gently perfuse the ascending aorta

▶ Ordering Information

DESCRIPTION	CATALOG NO.	UNITS/CASE
Straight tip		
7.0 mm (21 Fr) OD with 3/8" connector, 12" (30 cm) long	6397	20
Straight tip, wire reinforced		
8.0 mm (24 Fr) OD with 3/8" connector, 14" (35 cm) long	6387	20
Straight tip, wire reinforced with luer port		
7.0 mm (21 Fr) OD with 3/8" connector, 14" (35 cm) long	6393	20
8.0 mm (24 Fr) OD with 3/8" connector, 14" (35 cm) long	6385	20
Angled tip		
7.0 mm (21 Fr) OD with 3/8" connector, 12" (30 cm) long	6398	20
8.0 mm (24 Fr) OD with 3/8" connector, 12" (30 cm) long	6390	20
Angled tip with luer port		
7.0 mm (21 Fr) OD with 3/8" connector, 12" (30 cm) long	6399	20
Ⓢ 8.0 mm (24 Fr) OD with 3/8" connector, 12" (30 cm) long	6391	20
Angled tip, wire reinforced		
7.0 mm (21 Fr) OD with 3/8" connector, 14" (35 cm) long	6392	20
8.0 mm (24 Fr) OD with 3/8" connector, 14" (35 cm) long	6384	20
Angled tip, wire reinforced with luer port		
6.0 mm (18 Fr) OD with 3/8" connector, 14" (35 cm) long	7080	20
Ⓢ 7.0 mm (21 Fr) OD with 3/8" connector, 14" (35 cm) long	6394	20
Ⓢ 8.0 mm (24 Fr) OD with 3/8" connector, 14" (35 cm) long	6386	20



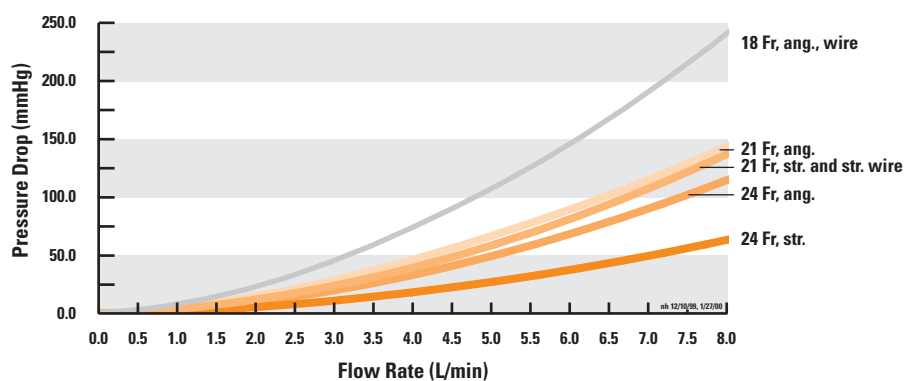
✓ Features

Sarns™ Soft-flow Aortic Cannulae

- Reduces jetting effect
- Smooth, tapered, reverse-angle tip
- Closed diffuser tip
- No increased hemolysis

PRESSURE DROP VS. FLOW RATE SARNST™ SOFT-FLOW AORTIC CANNULAE WITH SUTURE FLANGE

Terumo in vitro evaluation. Data obtained with water.

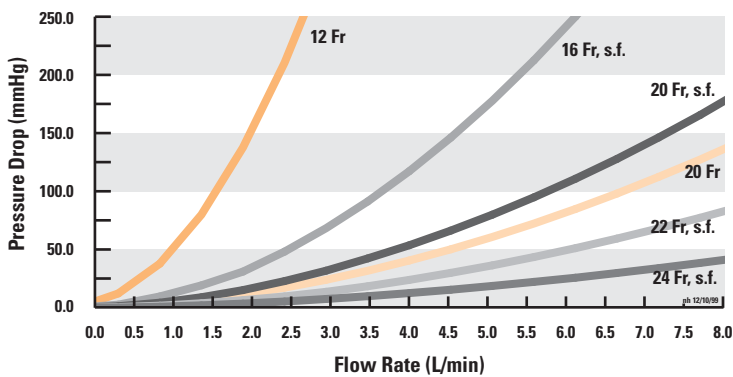




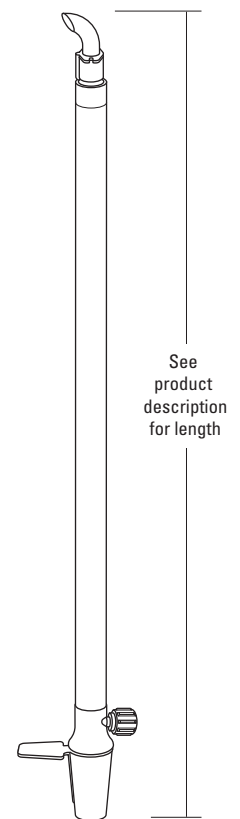
Sarns™ High-flow Aortic Arch Cannulae

To perfuse the ascending aorta

PRESSURE DROP VS. FLOW RATE SARNST™ HIGH-FLOW AORTIC ARCH CANNULAE (s.f. indicates suture flange)
Terumo in vitro evaluation. Data obtained with water.



Sarns™ High-flow Aortic Arch Cannulae



Cannulae and Catheters
Sarns™ High-flow Aortic Arch Cannulae

▶ Ordering Information

DESCRIPTION	CATALOG NO.	UNITS/CASE
With suture flange		
3.8 mm (12 Fr) OD with 1/4" connector, 7.25" (18 cm) long	12305	20
④ 5.2 mm (16 Fr) OD with 3/8" connector, 7.5" (19 cm) long	12315	20
6.5 mm (20 Fr) OD with 3/8" connector, 11" (28 cm) long	12325	20
6.5 mm (20 Fr) OD with 3/8" connector, 11" (28 cm) long, with X Coating™	12325X	10
④ 7.3 mm (22 Fr) OD with 3/8" connector, 11" (28 cm) long	4888	20
8.0 mm (24 Fr) OD with 3/8" connector, 11.25" (29 cm) long	4411	20
With suture flange and luer port		
④ 6.5 mm (20 Fr) OD with 3/8" connector, 11" (28 cm) long	15495	20
7.3 mm (22 Fr) OD with 3/8" connector, 11" (28 cm) long	4889	20
④ 8.0 mm (24 Fr) OD with 3/8" connector, 11.25" (29 cm) long	15235	20

✓ Features

Sarns™ High-flow Aortic Arch Cannulae

- Low pressure drop maintains high flow rates
- Metal tip (facilitates small incision)
- Optional luer port
- Vented cap
- Available with X Coating™

Xcoating™ is Terumo's own biocompatible hydrophilic polymer surface coating

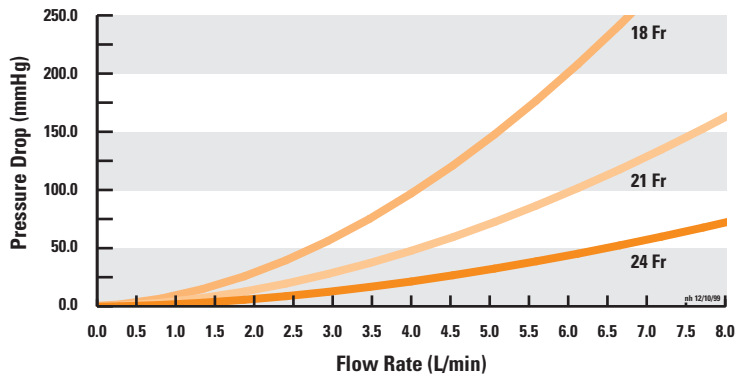
④ standard item – delivery from stock



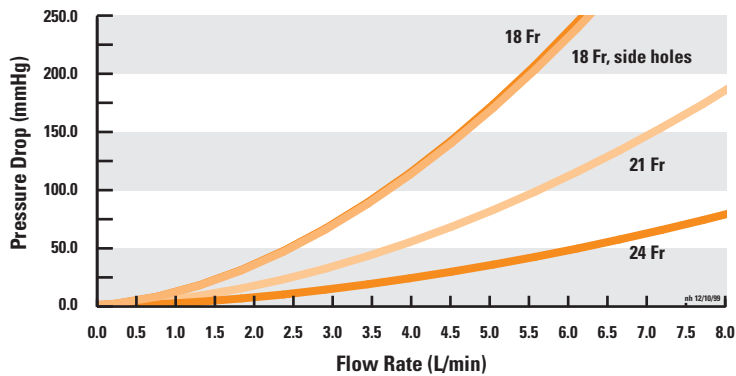
Sarns™ D4 Aortic Arch Cannulae

To perfuse the ascending aorta

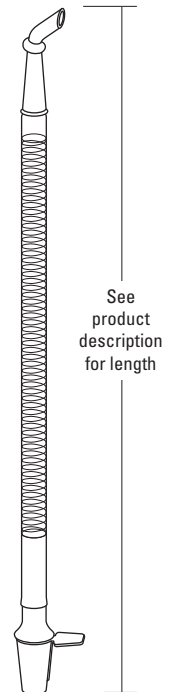
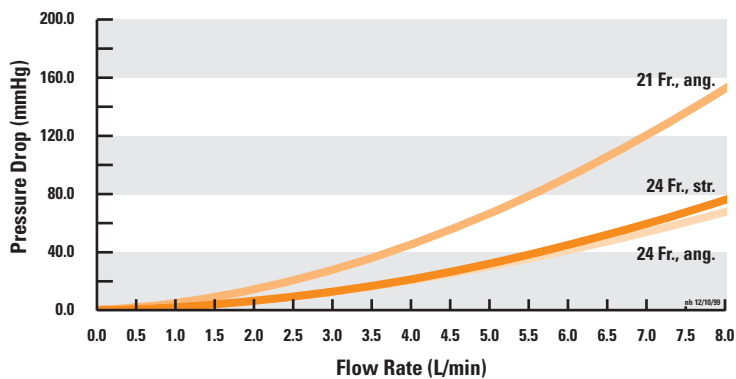
PRESSURE DROP VS. FLOW RATE SARNST™ D4 AORTIC ARCH CANNULAE, 0.6" (15 MM) STRAIGHT TIP
Terumo in vitro evaluation. Data obtained with water.



PRESSURE DROP VS. FLOW RATE SARNST™ D4 AORTIC ARCH CANNULAE, 1.2" (30 MM) ANGLED TIP
Terumo in vitro evaluation. Data obtained with water.



PRESSURE DROP VS. FLOW RATE SARNST™ D4 AORTIC ARCH CANNULAE, 2.0" (50.8 MM) TIP
Terumo in vitro evaluation. Data obtained with water.



Sarns™ D4 Aortic Arch Cannulae



▶ Ordering Information

DESCRIPTION	CATALOG NO.	UNITS/CASE
Straight tip, wire reinforced, 0.6" (15 mm) length tip		
6.0 mm (18 Fr) OD with 3/8" connector, 14" (35 cm) long	9482	20
7.0 mm (21 Fr) OD with 3/8" connector, 14" (35 cm) long	9483	20
Ⓢ 8.0 mm (24 Fr) OD with 3/8" connector, 14" (35 cm) long	9484	20
Straight tip, wire reinforced, 2.0" (50.8 mm) length tip		
8.0 mm (24 Fr) OD with 3/8" connector, 15.5" (39 cm) long	4460	20
Angled tip, wire reinforced, 1.2" (30 mm) length tip		
6.0 mm (18 Fr) OD with 3/8" connector, 14" (35 cm) long	165763	20
7.0 mm (21 Fr) OD with 3/8" connector, 14" (35 cm) long	165764	20
8.0 mm (24 Fr) OD with 3/8" connector, 14" (35 cm) long	165765	20
Angled tip, wire reinforced, 1.2" (30 mm) length tip with luer port		
6.0 mm (18 Fr) OD with 3/8" connector, 14" (35 cm) long	165268	20
7.0 mm (21 Fr) OD with 3/8" connector, 14" (35 cm) long	165266	20
7.0 mm (21 Fr) OD with 90° offset luer, 14" (35 cm) long	144961	20
Ⓢ 8.0 mm (24 Fr) OD with 3/8" connector, 14" (35 cm) long	165264	20
Angled tip, wire reinforced, 1.2" (30 mm) length tip with side holes		
6.0 mm (18 Fr) OD with 3/8" connector, 14" (35 cm) long	4344	20
7.0 mm (21 Fr) OD with 3/8" connector, 14" (35 cm) long	4400	20
Angled tip, wire reinforced, 1.2" (30 mm) length tip with luer port and side holes		
Ⓢ 6.0 mm (18 Fr) OD with 3/8" connector, 14" (35 cm) long	165269	20
7.0 mm (21 Fr) OD with 3/8" connector, 14" (35 cm) long	165267	20
8.0 mm (24 Fr) OD with 3/8" connector, 14" (35 cm) long	165265	20
Angled tip, wire reinforced, 2.0" (50.8 mm) length tip		
7.0 mm (21 Fr) OD with 3/8" connector, 14.5" (37 cm) long	9485	20
Angled tip, wire reinforced, 2.0" (50.8 mm) length tip with side holes		
7.0 mm (21 Fr) OD with 3/8" connector, 14.5" (37 cm) long	9486	20

✓ Features

Sarns™ D4 Aortic Arch Cannulae

- Creates low pressure drop
- Lower resistance
- Maximum inner diameter
- Available with X Coating™

Xcoating™ is Terumo's own biocompatible hydrophilic polymer surface coating

Ⓢ standard item – delivery from stock

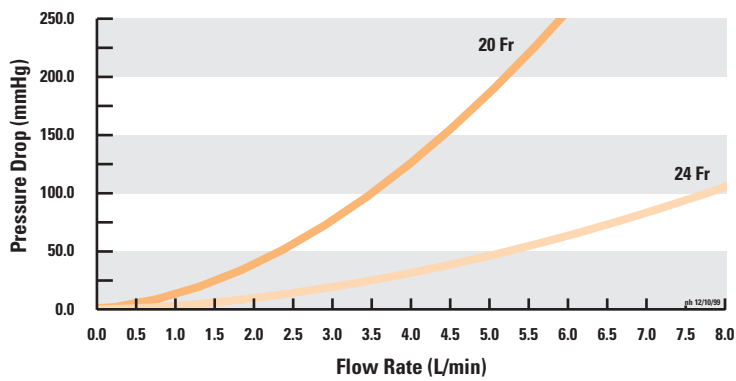


Sarns™ Aortic Arch Cannulae

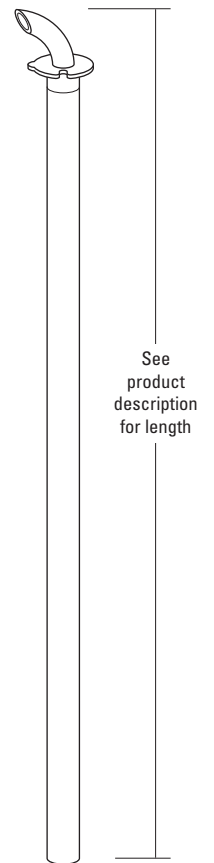
To perfuse the ascending aorta

PRESSURE DROP VS. FLOW RATE SARNST™ AORTIC ARCH CANNULAE

Terumo in vitro evaluation. Data obtained with water.



Sarns™ Aortic Arch Cannulae



▶ Ordering Information

DESCRIPTION	CATALOG NO.	UNITS/CASE
Ⓢ 6.5 mm (20 Fr) OD with 1/4" flare, 16.0" (41 cm) long	6642	20
6.5 mm (20 Fr) OD with 3/8" connector and luer, 14.5" (37 cm) long	4448	20
Ⓢ 8.0 mm (24 Fr) OD with 3/8" flare, 16.0" (41 cm) long	6672	20
Ⓢ 8.0 mm (24 Fr) OD with 3/8" connector, luer and stopcock, 13.5" (34 cm) long	144856	20

✓ Features

Sarns™ Aortic Arch Cannulae

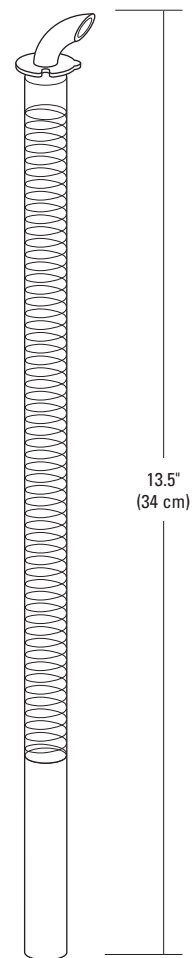
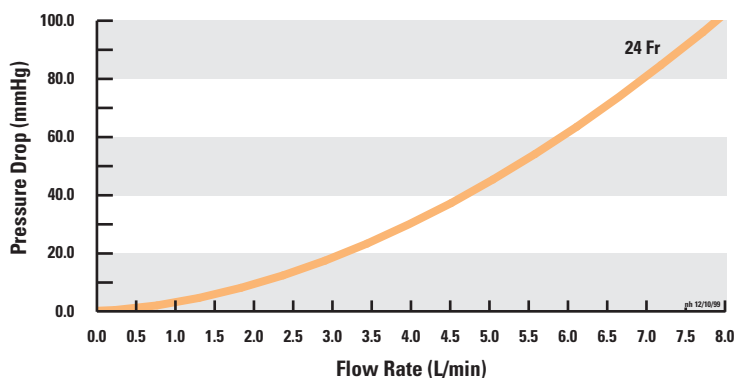
- Proven reliability
- Smooth plastic tip
- Long tube length



Sarns™ Soft-arc Aortic Cannulae

To perfuse the ascending aorta

PRESSURE DROP VS. FLOW RATE SARNST™ SOFT-ARC AORTIC CANNULAE
Terumo in vitro evaluation. Data obtained with water.



▶ Ordering Information

DESCRIPTION	CATALOG NO.	UNITS/CASE
8.0 mm (24 Fr) OD with 3/8" flare, suture ring, 13.5" (34 cm) long	16094	20

✓ Features

Sarns™ Soft-arc Aortic Cannulae

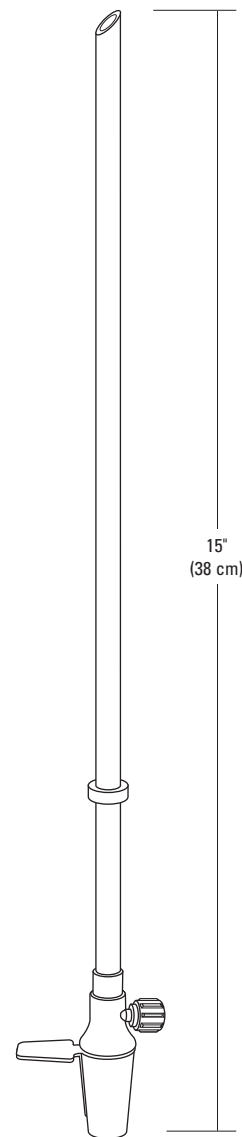
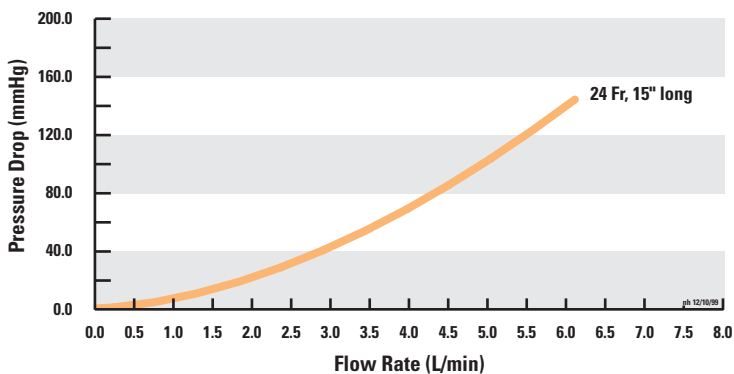
- Smooth plastic tip
- Kink-resistant tubing



Sarns™ Flexible Aortic Arch Cannulae

To perfuse the descending aorta

PRESSURE DROP VS. FLOW RATE SARNST™ FLEXIBLE AORTIC ARCH CANNULAE
Terumo in vitro evaluation. Data obtained with water.



▶ Ordering Information

DESCRIPTION

CATALOG NO.

UNITS/CASE

8.0 mm (24 Fr) OD with luer, 15" (38 cm) long 433520

✓ Features

Sarns™ Flexible Aortic Arch Cannulae

- Smooth, beveled tip
- Movable suture ring