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ORDIN DE PLATA NR.: 1101                                TIP.DOC. 1 :
                                DATA EMITERII:29 decembrie 2021 :
=====:
PLATITI: 8000-00                                LEI: Opt Mii lei 00 bani :
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:
=====:
PLATITOR: (R) 'BIOSISTEM          CONTUL DE PLATI/CODUL IBAN :
MLD" SRL                                MD95ML000000002251429243 :
                                CODUL FISCAL :1010600028048 / :
:
:
=====:
PRESTATORUL PLATITOR                                CODUL BANCII:
BC"Moldindconbank"S.A. fil."Invest" Chisinau        :MOLDMD2X329:
=====:
BENEFICIAR (R) IMSP Spital          CONTUL DE PLATI/CODUL IBAN :
Clinic RepublicanTimofei Mosn MD32ML000000002251502448 :
eaga                                CODUL FISCAL :1003600150783 / :
:
:
=====:
PRESTATORUL BENEFICIAR                                CODUL BANCII:
BC"Moldindconbank"S.A.                                :MOLDMD2X :
=====:
DESTINATIA PLATII: Pentru garantia pentru:          TIPUL TRANSFERULUI :
oferta la procedura de achizitie public:            NORMAL/URGENT :N:
a nr. ocds-b3wdp1-MD-1638198424137 din 3:          :
0.12.2021 :                                         :
:                                         :
:                                         :
:                                         L.S. :
=====:
                                CODUL TRANZACTIEI:001:
DATA PRIMIRII:29/12/2021 : SEMNATURILE :
DATA EXECUTARII: : EMITENTULUI :
:-----:
CONducator:Web Poiata Vitalie
MIIGYwYJKoZIHvcNAQcCoIIGVDCcBlACAQExCzAJBgUrDgMCGGUAMAsGCSqGSIB3:
DQEHAaCCBGwggRoMIIDUKADAgECAhNHAACjbilrgFksQ0G4AAAAAKNuMA0GCSqG:
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YDVQOIEwdNb2xkb3ZhmREwDwYDVQQHEWhDaGlzaW5hdTEWMBQGA1UEChMNQmlv :
:
:
(semnatura electronica)
CONTABIL-SEF:Web Nasedchin Alexandr
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YDVQOIEwdNb2xkb3ZhmREwDwYDVQQHEWhDaGlzaW5hdTEWMBQGA1UEChMNQmlv :
:
:
L.S. (semnatura electronica)
CONducator:
(semnatura manuala)
CONTABIL-SEF:
(semnatura manuala)
SEMnatura PRESTATORUL L.S.
:-----:
MOTIVUL REFUZULUI : L.S.
-----:

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BC "MOLDINDCONBANK" S.A. Filiala "Invest"

Republica Moldova, MD-2068
mun. Chişinău, bd. Moscovei, 14/1
Tel. : (373-22) 43-44-81, 43-46-24
Fax : (373-22) 43-44-22
cod: MOLDM2X329

Data 14. IAN. 2016
Nr. 03/2 - 19/23

Республика Молдова, MD-2068
мун. Кишинэу, бул. Московской, 14/1
Тел. : (373-22) 43-44-81, 43-46-24
Факс : (373-22) 43-44-22
код: MOLDM2X329

Filiala „Invest” BC „Moldindconbank” SA confirmă existența contului curent
in moneda nationala al **“BIOSISTEM MLD” S.R.L. (c/f 1010600028048)**, cu
IBAN MD95ML000000002251429243.

Codul băncii MOLDM2X329.

Director

Nina Turcan

Director financiar



Nina Balmuş

Ex. Diana Brinza
Tel. 43-45-96

REPUBLICA



MOLDOVA

CERTIFICAT DE ÎNREGISTRARE

Societatea cu Răspundere Limitată "BIOSISTEM MLD"
— ESTE ÎNREGISTRATĂ LA CAMERA ÎNREGISTRĂRII DE STAT —

Numărul de identificare de stat - codul fiscal
1010600028048

Data înregistrării

12.08.2010

Data eliberării

12.08.2010

Svirepova Ludmila, registrator

*Funcția, numele, prenumele persoanei
care a eliberat certificatul*

L. Svirepova
semnătura

MD 0101250





I.P. "AGENȚIA SERVICII PUBLICE"

Departamentul înregistrare și licențiere a unităților de drept

EXTRAS

din Registrul de stat al persoanelor juridice

nr. 8506 din 28.04.2021

Denumirea completă: **Societatea cu Răspundere Limitată «BIOSISTEM MLD».**

Denumirea prescurtată: **«BIOSISTEM MLD» S.R.L.**

Forma juridică de organizare: **Societate cu Răspundere Limitată.**

Numărul de identificare de stat și codul fiscal: **1010600028048.**

Data înregistrării de stat: **12.08.2010.**

Sediul: **MD-2001, str. Albișoara, 16/1, ap.(of.) 7, mun. Chișinău, Republica Moldova.**

Obiectul principal de activitate:

- 1 Activitatea farmaceutică;**
- 2 Importul, fabricarea, comercializarea, asistența tehnică și (sau) reparația dispozitivelor medicale și (sau) a opticii;**
- 3 Acordarea asistenței medicale de către instituțiile medico-sanitare private;**
- 4 Comerțul cu ridicata al calculatoarelor, echipamentelor periferice și software-ului;**
- 5 Întreținerea și repararea mașinilor de birou și a tehnicii de calcul;**
- 6 Consultații în domeniul sistemelor de calcul.**

Capitalul social: **5400 lei.**

Administrator: POIATA VITALIE,

Asociați:

- 1. POIATA VITALIE 33,40 %**
- 2. NASEDCHIN ALEXANDR 33,30 %**
- 3. KOJEVNIKOV DMITRII 33,30 %.**

Prezentul extras este eliberat în temeiul art. 34 al Legii nr. 220-XVI din 19 octombrie 2007 privind înregistrarea de stat a persoanelor juridice și a întreprinzătorilor individuali și confirmă datele din Registrul de stat la data de: 28.04.2021.

Specialist coordonator
tel. 022-207-840



Lazari Aliona



EB 0358735

Lista fondatorilor Biosistem-mld SRL

Nr.	Nume, Prenume	IDNP
1.	Vitalie Poiata	0983103892591
2.	Alexandr Nasedchin	2002001070747
3.	Dmitrii Kojevnikov	0972305012362



Benannt durch/Designated by
Zentralstelle der Länder
für Gesundheitsschutz
bei Arzneimitteln und
Medizinprodukten
www.zlg.de
ZLG-BS-244.10.08



Product Service

EC Certificate

Full Quality Assurance System
Directive 93/42/EEC on Medical Devices (MDD), Annex II excluding (4)
(Devices in Class IIa, IIb or III)

No. G1 024169 0046 Rev. 01

Manufacturer:

EUROSETS S.r.l.

Strada Statale 12, 143
41036 Medolla (MO)
ITALY

Product Category(ies):

Blood oxygenating devices for extracorporeal circulation provided with cardiotomy reservoir for blood reduction of leucocytes and lipids and related circuits. Extracorporeal blood circuits with haemoconcentrators. Negative Pressure wound therapy disposable devices. Negative pressure wound therapy vacuum generators. Blood monitoring unit for the main parameters of Extra Corporeal Circulation. Equipment and disposable circuits (e.g. tubing sets, blood gas exchanger, hemofilters, pressure transducers, syringes, bags and accessories) for partial blood CO₂ removal in extracorporeal circulation in patients with respiratory failure with optional circuit for hemofiltration treatment. Centrifugal blood pump equipment and disposable centrifugal blood pump. Extracorporeal life support and E.C.M.O. tubing sets, that may contain the components as listed in the attachment (see ATTACHMENT)

The Certification Body of TÜV SÜD Product Service GmbH declares that the aforementioned manufacturer has implemented a quality assurance system for design, manufacture and final inspection of the respective devices / device categories in accordance with MDD Annex II. This quality assurance system conforms to the requirements of this Directive and is subject to periodical surveillance. For marketing of class III devices an additional Annex II (4) certificate is mandatory. See also notes overleaf.

Report No.:

ITA1281594

Valid from:

2019-11-19

Valid until:

2024-05-26

Date,

2019-11-19

Christoph Dicks
Head of Certification/Notified Body

Facility(ies):

EUROSETS S.r.l.
Strada Statale 12, 143, 41036 Medolla (MO), ITALY

Page 1 of 2

TÜV SÜD Product Service GmbH is Notified Body with identification no. 0123

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

TÜV®

TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD
ZERTIFIKAT ◆ CERTIFICATE ◆ 認證書 ◆ CERTIFICADO ◆ CERTIFICAT

Zertifizierungsvertrag

Grundlage für die Zertifikatserteilung ist die Prüf- und Zertifizierungsordnung von TÜV SÜD Product Service.

Mit Erhalt des Zertifikates erkennt der Zertifikatsinhaber die jeweils gültige Fassung der Prüf- und Zertifizierungsordnung an (www.tuev-sued.de/ps_regulations) und wird somit Partner im Zertifiziersystem von TÜV SÜD Product Service.

Prinzipielle Voraussetzung für die Gültigkeit des Zertifikates:

- Gültigkeit der zitierten normativen Prüfgrundlage(n) ist gegeben und zusätzlich bei Zertifikaten mit Berechtigung zur Verwendung eines Prüfzeichens bzw. bei Zertifikaten für QM-Systeme:
- Voraussetzungen für vorschriftsmäßige Fertigung werden eingehalten.
- Die Fertigungs- bzw. Betriebsstätten werden regelmäßig überwacht.

Certification contract

Certification is based on the TÜV SÜD Product Service Testing and Certification Regulations. On receipt of the certificate the certificate holder agrees to the current version of the Testing and Certification Regulations (www.tuv-sud.com/ps_regulations) and thus becomes partner in the TÜV SÜD Product Service Certification System.

Requirements for the validity of the certificate in principle:

- Validity of the quoted test standard(s) In addition, for certificates with the right to use a certification mark and for QM certificates:
- Conditions for an adequate manufacturing are maintained
- Regular surveillance of the facility is performed

认证合约

认证基于 TÜV SÜD 产品服务《测试及认证准则》。获得证书即表明证书持有者接受当前版本的《测试及认证准则》（见 www.tuv-sud.com/ps_regulations）并成为 TÜV SÜD 产品服务认证系统内的合作伙伴。

维持证书有效性的原则要求：

- 认证所依据标准的有效性
- 此外，对于授权可使用认证标志的证书和质量管理体系证书：
- 保持充分的生产条件
 - 生产场地通过定期的监督

認證契約

認證は TÜV SÜD Product Service の試験認証規約に基づく。認証書保持者は認証書を受領することにより最新の試験認証規約(www.tuv-sud.com/ps_regulations)に同意したものとする。その結果、TÜV SÜD Product Service 認証システムのパートナーとなる。

認證書の有効性に関する原則的な要求事項

- 引用している試験規格が有効である
- さらに認証マークの使用を許諾された認証書や品質マネジメント認証書は：
- 適切な製造の条件を維持している
 - 定期的な工場監査を実施している

Contrato de certificação

A certificação se baseia nos Regulamentos de Testes e Certificação do Grupo TÜV SÜD. Ao receber o certificado, o Fornecedor, titular do certificado concorda com a versão atual dos Regulamentos de Testes e Certificação do Grupo TÜV SÜD (www.tuv-sud.com/ps_regulations) e assim, torna-se parceiro no Sistema de Certificação de Produtos e Serviços TÜV SÜD.

Requisitos para a validade do certificado (em princípio):

- Validade da(s) norma(s) de ensaio(s) referenciada(s).
- Adicionalmente, para os certificados com o direito ao uso da marca de certificação e para certificados de SG:
- Condições de fabricação adequada estão mantidas.
 - Auditoria de monitoração realizada regularmente.



Benannt durch/Designated by
Zentralstelle der Länder
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Product Service

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(Devices in Class IIa, IIb or III)

No. G1 024169 0046 Rev. 01

Supplement 001 2019-11-19 (ITA1281594)

- Venous blood bags,
- Graduated bags,
- Cardiotoxics,
- Extracorporeal Membrane Oxygenator ECMO (adult) integrated of heat exchanger,
- Centrifugal Pump,
- DEHP Free Tubes,
- Tygon Tubes,
- DEHP Free Purge line tubings,
- Straight connectors with or without luer lock connection,
- Y-piece connectors with or without luer lock connection,
- Luer and Luer Lock connectors with caps, Male and Female,
- Stopcocks,
- Adapters,
- Protective caps,
- Closure caps,
- Pierceable stoppers,
- Spikes,
- Blood catchers,
- Clamps,
- Manometer protection device,
- Temperature probes,
- Gas filters,
- Plastic cable ties

TÜV SÜD
ZERTIFIKAT ♦ CERTIFICATE ♦ 認證書 ♦ CERTIFICADO ♦ CERTIFICAT

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認證書の有効性に関する原則的な要求事項

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- さらに認証マークの使用を許諾された認証書や品質マネジメント認証書は：
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CARDIOPULMONARY



DESIGNED
TO OPTIMIZE
GME REDUCTION
IN PEDIATRIC
PATIENTS

TRILY
PEDIATRIC



EUROSETS
EVERY LIFE MATTERS



THE SOLUTION TO OPTIMIZE GME (Gas Micro Emboli) REDUCTION IN PEDIATRIC PATIENTS

Trilly Pediatric Oxygenator thanks to the optimized flow dynamics ensures outstanding performances from 0,5 lpm to 3,5 lpm with only 130 ml of priming.

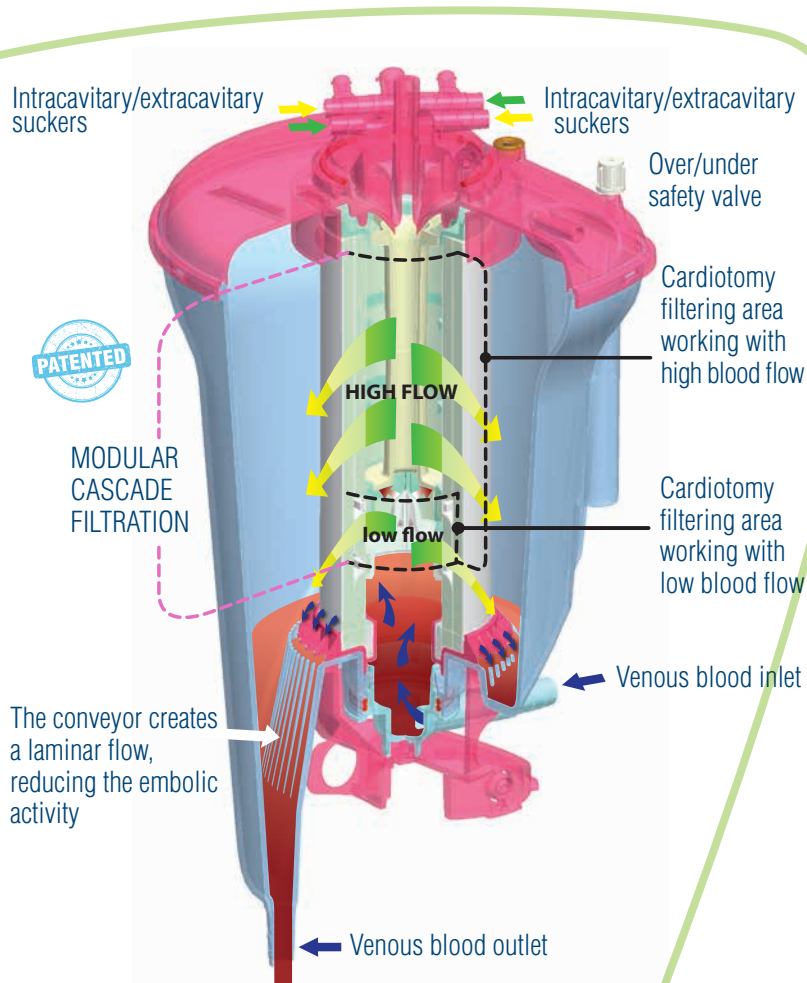
OXYGENATOR MODULE WITH PATENTED CASCADE ARTERIAL FILTER

The patented cascade arterial filter, conceived of 2 filtering layers, 80µm+38µm ensures superior GME reduction¹.

Trilly AF Pediatric is specially designed to optimally combine gas transfer performance² and to achieve low priming volume², low pressure drop and minimize GME generation⁴⁻⁵ thanks to:

- a unique filtration technology conceived to collect blood coming from intracavitary and from extracavitary suckers;
- integrated arterial filter with self venting technology (Fig. A)

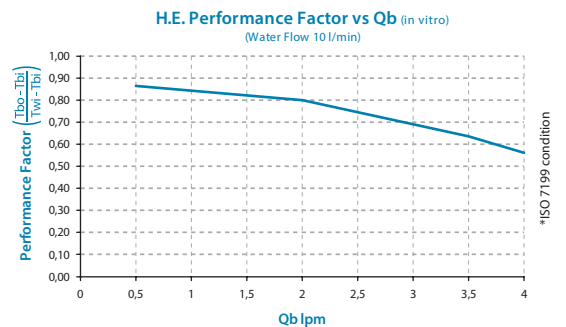
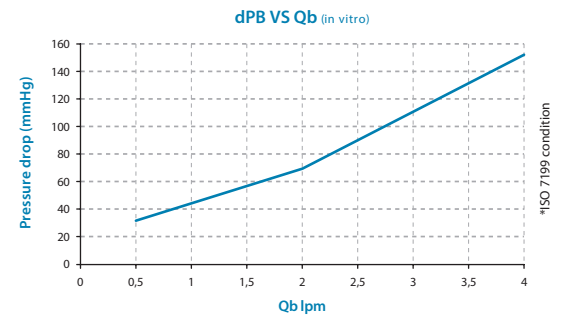
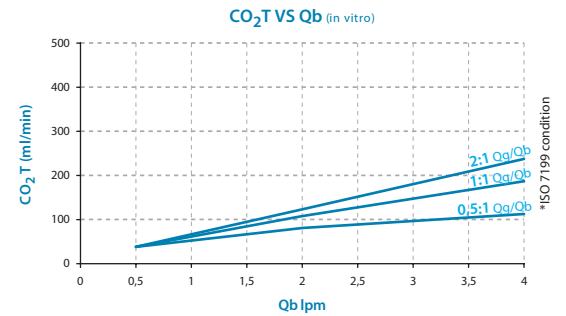
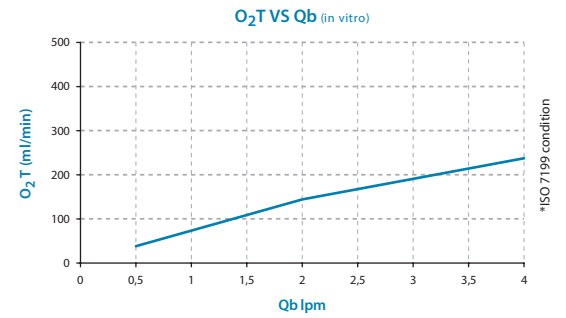
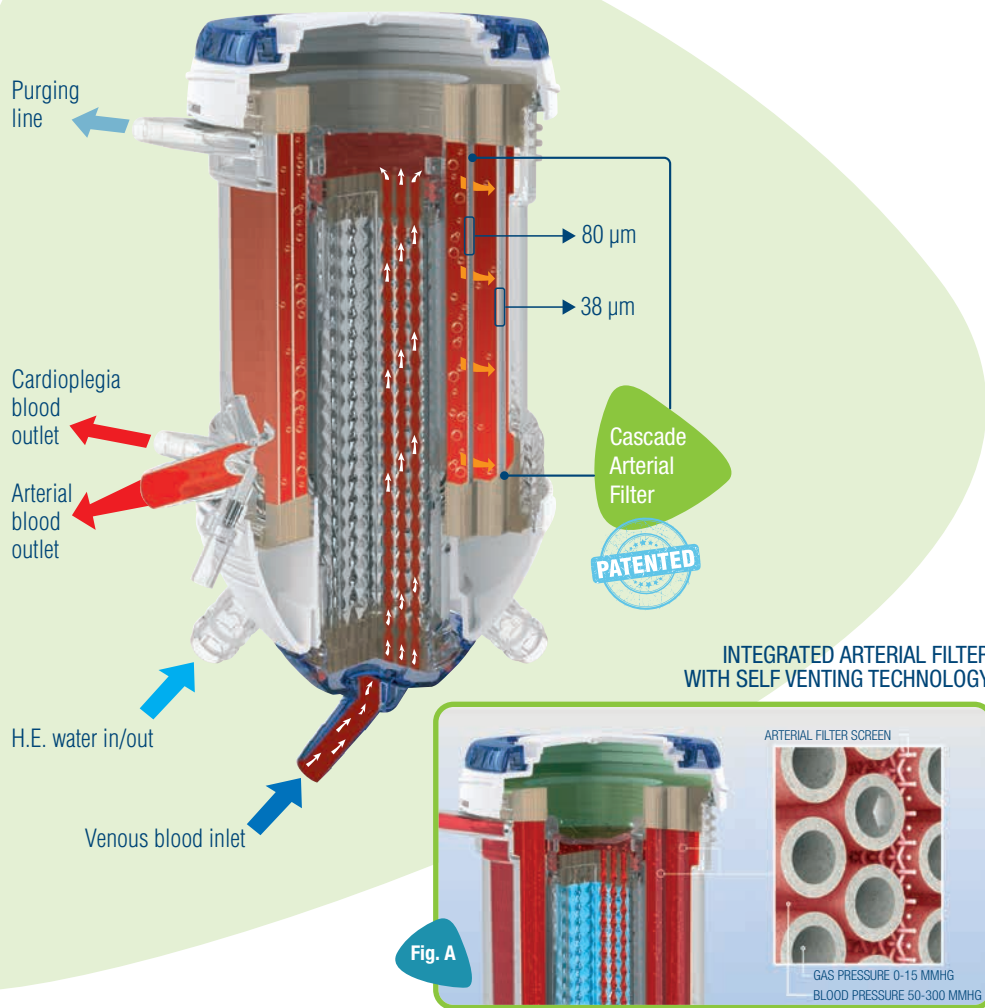
TRILLY AF PEDIATRIC OXYGENATOR ENSURES OPTIMAL ERGONOMIC DESIGN FOR PERFUSION COMFORT.



CARDIOTOMY VENOUS RESERVOIR

TECHNICAL FEATURES

Capacity:	2500 ml
Venous Reservoir Filtering Mesh:	80 µm
Cardiotomy Filtering Mesh:	40 µm
Minimum operating level:	100 ml (@ 3,5 l/min)
	50 ml (@ 2,0 l/min)
	30 ml (@ 0,5 l/min)
Ready for vacuum:	equipped with over/under safety valve
Connectors:	6 x 1/4"
	1 x 3/8"
	2 x Luer Lock
	2 x POS Lock-Luer
Unfiltered	1 x Luer Lock



PEDIATRIC OXYGENATOR MODULE WITH INTEGRATED CASCADE ARTERIAL FILTER

TECHNICAL CHARACTERISTICS

Priming volume:	130 ml
Contact surface area:	1.10 m ²
Blood flow rate:	0.5 - 3.5 l/min
Reference blood flow (ISO 7199 condition)	4 l/min
Cascade Arterial Filter pore size:	80 μm + 38 μm
Heat Exchanger surface area:	0.04 m ²
H.E. Performance Factor:	η = 0.60 (at 3.5 l/min)
Material:	stainless steel
Coating:	PC phosphorylcholine

§ ISO 7199 condition

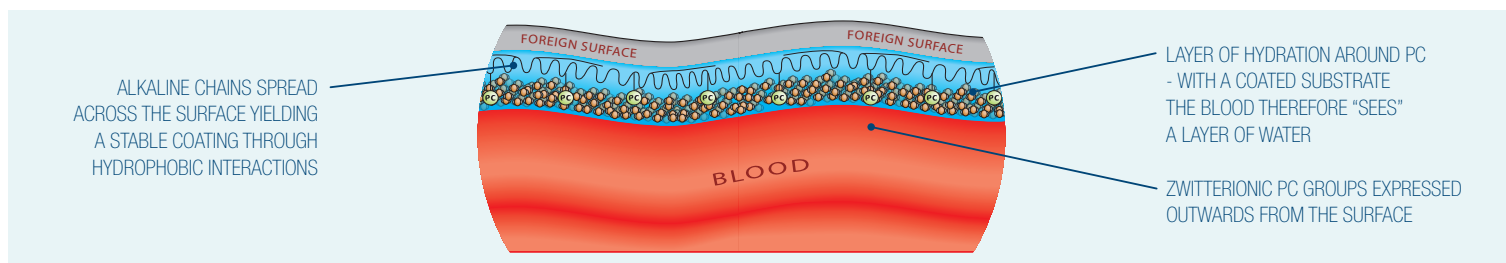
Bovine blood
Hb = 12 ± 1g/dL

SVO₂ = 65 ± 5%
PVCO₂ = 45 ± 5 mmHg

B.E. = 0 ± 5 mEq/L
Temp = 37 ± 1°C

Qb/Qg = 1
FIO₂ = 100%

Phosphorylcholine or PC is the predominant lipid headgroup found within the outer layer of cell membranes. PC has a natural affinity for water and binds water tightly around itself. As a result, the outer layer of the cell membrane does not promote clot formation (thrombosis).



ORDERING GUIDE

CODE	DESCRIPTION	N°/PACK
AG5232	TRILLY PEDIATRIC AF (Cardiotomy reservoir pre-connected with oxygenator module, PC coated)	1
EU2331	Holder for TRILLY PEDIATRIC AF	1

REFERENCES

1. Eurosets lab test on performance data.
2. Eurosets lab test on performance data according to ISO7199 condition.

3. Richmond ME, Charette K, Chen JM, et al. The effect of cardiopulmonary bypass prime volume on the need for blood transfusion after pediatric cardiac surgery. J Thorac Cardiovasc Surg 2013;145:1058-64. 10.1016/j.jtcvs.2012.07.016 [PubMed] [CrossRef] [Google Scholar]
4. Lou S, Ji B, Liu J, Yu K, Long C. Generation, detection and prevention of GME during CPB. Int J Artif Organs. 2011 Nov; 34(11):1039-51
5. G.J. Meyers RRT, CCP. Does turning on the vent increase microemboli transmission post arterial filtre? EBCC 2009 Wien

EUROSETS EUROPE

ITALY

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41036 Medolla (MO)
Italy
Ph: +39 0535 660311
Fax: +39 0535 51248
info@eurosets.com

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Belgium
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info.nl@eurosets.com
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69423 LYON Cedex 03
Ph: +33 962191542
Fax: +33 970066573
info.fr@eurosets.com

GERMANY

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Industriestr. 29
82194 Gröbenzell
Ph: +49 81426671227
Fax: +4981426671229
info.de@eurosets.com

EUROSETS ASIA

CHINA

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No. 119, Suzhou Avenue West,
Suzhou Industrial Park - 215000, Greater China.
苏州工业园区苏州大道西119
号苏悦广场南楼1308-2, 215000,
更大的中国
info.cn@eurosets.com

   eurosets.com

STERILE/EO



CE 0123

Latex free

Prodotto da
Manufactured by
Fabriqué par
Hersteller
Fabricado por

Eurosets s.r.l.
Strada Statale 12, n°143
41036 Medolla (MO) Italy
Tel: +39 0535 660311
Fax: +39 0535 51248
E-mail: info@eurosets.com
eurosets.com



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Zertifizierungsvertrag

Grundlage für die Zertifikatserteilung ist die Prüf- und Zertifizierungsordnung von TÜV SÜD Product Service.

Mit Erhalt des Zertifikates erkennt der Zertifikatsinhaber die jeweils gültige Fassung der Prüf- und Zertifizierungsordnung an (www.tuev-sued.de/ps_regulations) und wird somit Partner im Zertifiziersystem von TÜV SÜD Product Service.

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维持证书有效性的原则要求：

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認證契約

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Product Service

EC Certificate

Full Quality Assurance System
Directive 93/42/EEC on Medical Devices (MDD), Annex II excluding (4)
(Devices in Class IIa, IIb or III)

No. G1 057574 0070 Rev. 00

Facility(ies): Sorin Group Italia S.r.l.
Via Statale 12 Nord, 86, 41037 Mirandola MO, ITALY

Attachment:

Product Families	Classification
DIDECO KIDS ARTERIAL FILTERS: Newborn- infant Arterial filters	IIa
DIDECO MICRO: Newborn- infant, Paediatric and Adult Arterial filters / bubble traps	IIa
VENOUS / CARDIOTOMY RESERVOIRS : Venous Cardiotomy reservoirs	IIa
DIDECO CARDIOPLEGIA SETS: Cardioplegia perfusion sets including also VANGUARD, DIDECO HELIOS and CSC14 Cardioplegia heat exchangers	IIa
CARDIOACCESSORIES/DIDECO CARDIOACCESSORIES: Auxiliary devices for cardiac surgery	IIa
HEMOCONCENTRATORS: Infant, paediatric and Adult Haemoconcentrators (DHF & SH models) and sets (KH & D models)	IIa
INSPIRE: adult and small adult oxygenators	IIa
DIDECO D905 EOS Paediatric and small adult oxygenators	IIa
SYNTHESIS: adult oxygenators including also VBT 8 venous bubble trap	IIa
DIDECO KIDS: new born- infant oxygenators	IIa
DIDECO LILLI PUT 1/LILLI PUT 2: newborn infant oxygenators	IIa
REVOLUTION: centrifugal pumps for extracorporeal circulation	IIa
PERFUSION TUBING SYSTEMS: Perfusion tubing systems for cardiac surgery, ECMO and ECLS, including one or more main components (oxygenator, arterial filter, bubble trap, arterial line, venous line, pump boot tubing, centrifugal pump, hard or soft shell reservoir) feasibly connectable to auxiliary lines (secondary, cardioplegia or haemoconcentration sets, connectors or ancillary disposables).	IIa
DIDECO PERFUSION TUBING SYSTEMS: Perfusion tubing systems for cardiac surgery, ECMO and ECLS, including one or more main components (oxygenator, arterial filter, bubble trap, arterial line, venous line, pump boot tubing, centrifugal pump, hard or soft shell reservoir) feasibly connectable to auxiliary lines (secondary, cardioplegia or haemoconcentration sets, connectors or ancillary disposables,	IIa
DIDECO COLLECTION SYSTEMS: Autotransfusion collection systems, filters and accessories	IIa
BRAT 2: - Blood bags, collection systems / disposable sets for autotransfusion, PPP, PRP, PLT gel including blood bags	IIb

Page 2 of 3

TÜV SÜD Product Service GmbH is Notified Body with identification no. 0123

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

TÜV®

TÜV SÜD
 ZERTIFIKAT ◆ CERTIFICATE ◆ 認證書 ◆ CERTIFIKAT ◆ CERTIFICADO ◆ CERTIFICAT

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No. G1 057574 0070 Rev. 00

- Collection systems / disposable sets without blood bags and accessories for autotransfusion, PPP, PRP, PLT gel	IIa
BOWL: -Blood Bags and wash sets / autotransfusion sets including blood bags - Wash sets / autotransfusion sets without blood bags and accessories for autotransfusion	IIb IIa
ELECTA: - Collection systems / disposable sets for autotransfusion, PPP, PRP, PLT gel including blood bags -Collection systems / disposable sets without blood bags and accessories for autotransfusion, PPP, PRP, PLT gel	IIb IIa
XTRA: -Collection systems / disposable sets for autotransfusion, PPP, PRP, PLT gel including blood bags -Collection systems / disposable sets without blood bags and accessories for autotransfusion, PPP, PRP, PLT gel	IIb IIa
DIDECO DATA MASTER: Blood monitoring disposables connectors	IIa

TÜV SÜD
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ADULT CANNULAE

Product catalog

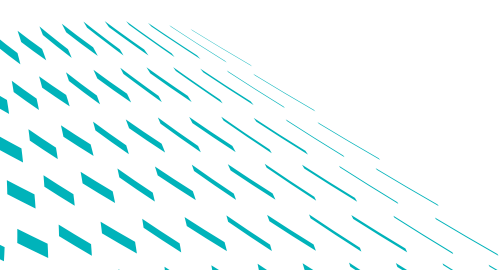


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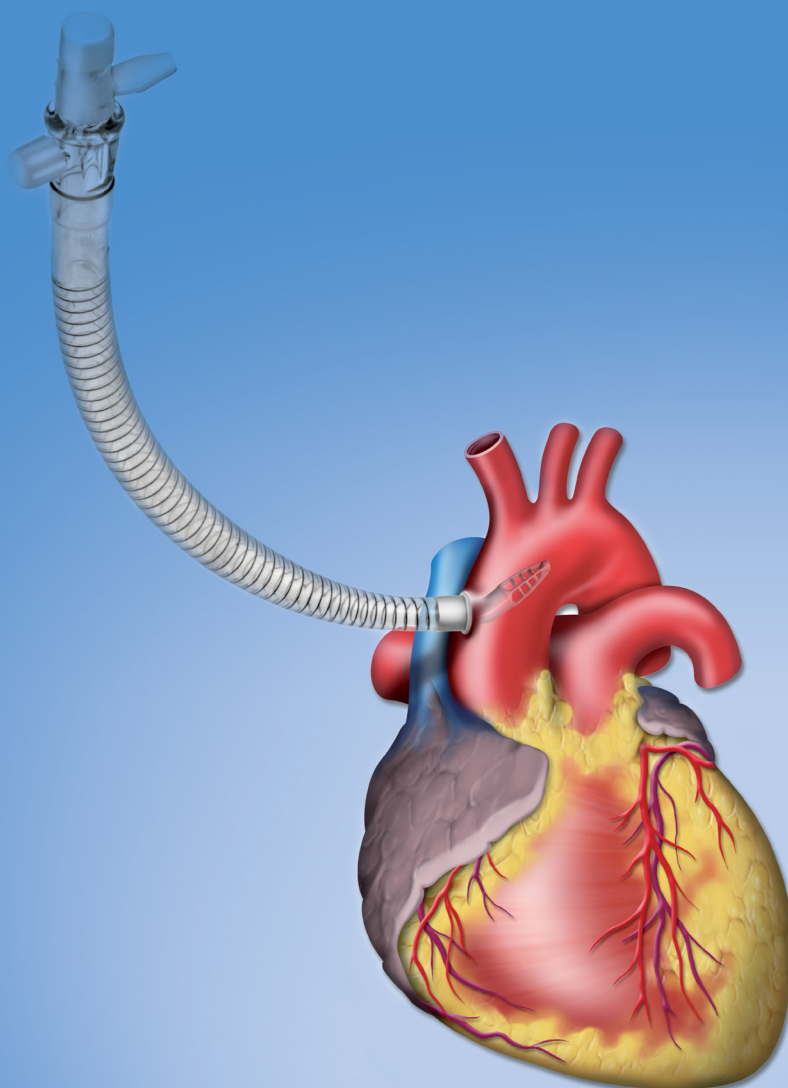
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ARTERIAL CANNULAE

LivaNova Adult Arterial Cannulae are intended for adult arterial direct cannulation and are available in different configurations: with curved, straight or dispersive are designed in clear and transparent PVC which keeps elasticity during hypothermia. An index marker on the distal end of the cannula tip facilitates orientation. The tip is available with suture flange, suture collar, for better cannula fixation. Depending on country registration, an optional phospholipid coating may be available.

Note on ordering: coated products have a "B" before their reference code.

Please, contact your local sales representative.



Connectors

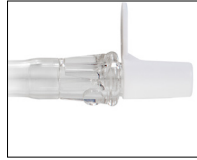
Different connector options are offered: straight connectors with or without luer as well as porous vent plugs.



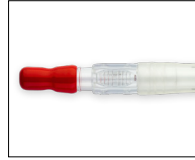
A version



B version



C version



Connector
without luer vent



Porous vent plug

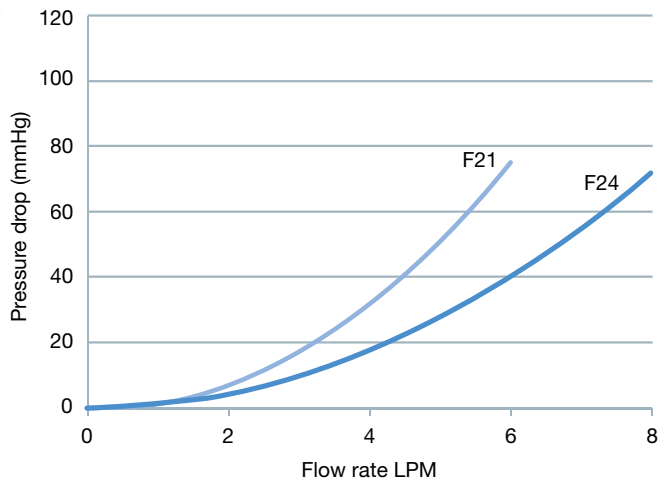


Connector
with luer vent

Optiflow Arterial Cannulae

LivaNova Optiflow Arterial Cannulae are designed with a three-dimensional basket tip for better flow dispersion and improved hemodynamics. This unique feature provides a native-like blood flow and avoids the so-called jet stream, thus reducing the risk of plaque dislodgement (Assmann et al. Artificial Organs 2014; 39(3): 203-211). Available in 21 and 24 Fr with and without wire-reinforced tubings and optional luer lock for venting. Depending on country registration, an optional phospholipid coating may be available to help improve biocompatibility. Note on ordering: coated products have a "B" before their reference code. Please, contact your local sales representative.

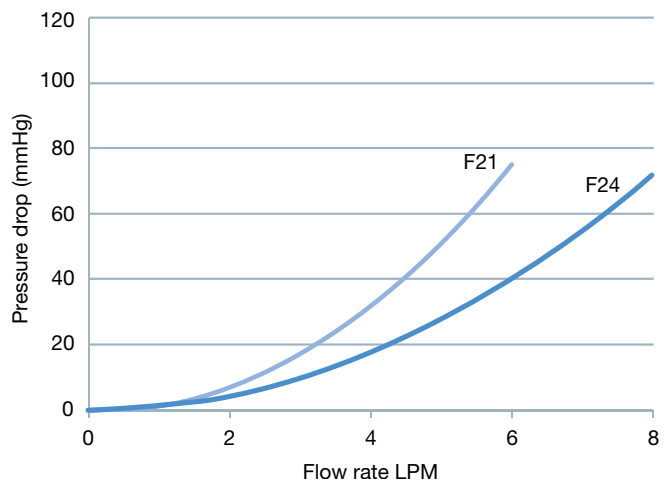
Optiflow Arterial Cannulae Curved Tip, Wire-reinforced Tubing



CANNULA TIP SIZE	CONNECTOR WITHOUT LUER VENT	CONNECTOR WITH LUER VENT DOWN	CONNECTOR WITH LUER VENT UP	CONNECTOR SIZE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
21 Fr/ 7 mm	A282-70C	A282-70B	A282-70A	3/8"	24	10	Depends on Country Registration
24 Fr/ 8 mm	A282-80C	A282-80B	A282-80A	3/8"	25	10	Depends on Country Registration

*Connectors reference pag. 4

Optiflow Arterial Cannulae Curved Tip, Non-reinforced Tubing

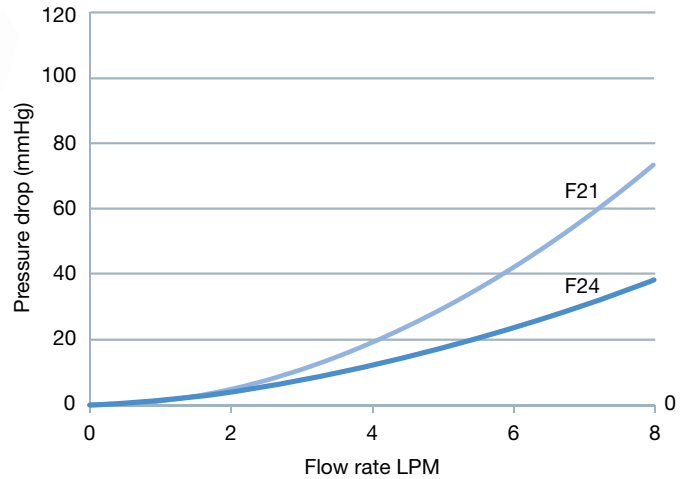


CANNULA TIP SIZE	CONNECTOR WITHOUT LUER VENT	CONNECTOR WITH LUER VENT DOWN	CONNECTOR WITH LUER VENT UP	CONNECTOR SIZE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
21 Fr/ 7 mm	A281-70C	A281-70B	-	3/8"	24	10	Depends on Country Registration
24 Fr/ 8 mm	A281-80C	A281-80B	A281-80A	3/8"	25	10	Depends on Country Registration

*Connectors reference pag. 4

ADULT CANNULAE - ARTERIAL CANNULAE

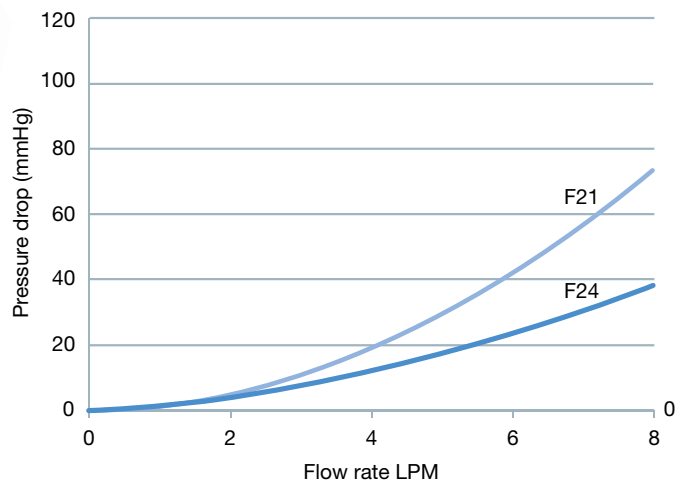
Optiflow Arterial Cannulae Straight Tip, Wire-reinforced Tubing



CANNULA TIP SIZE	CONNECTOR WITHOUT LUER VENT	CONNECTOR WITH LUER VENT DOWN	CONNECTOR SIZE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
21 Fr/ 7 mm	A292-70C	A292-70B	3/8"	24	10	Depends on Country Registration
24 Fr/ 8 mm	A292-80C	A292-80B	3/8"	25	10	Depends on Country Registration

*Connectors reference pag. 4

Optiflow Arterial Cannulae Straight Tip, Non-reinforced Tubing



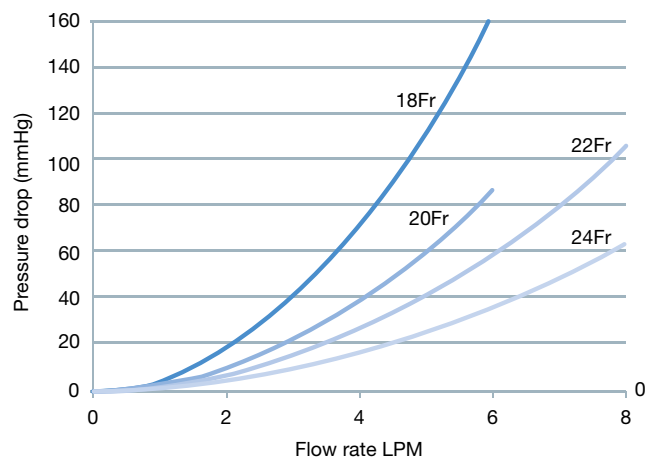
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21 Fr/ 7 mm	A291-70C	A291-70B	3/8"	24	10	Depends on Country Registration
24 Fr/ 8 mm	A291-80C	A291-80B	3/8"	25	10	Depends on Country Registration

*Connectors reference pag. 4

Curved Tip Arterial Cannulae

LivaNova Curved Arterial Cannulae allow for high flow rate and low resistance, as well as easy handling during insertion. They are available with reinforced tubing. Depending on country registration, an optional phospholipid coating may be available. Note on ordering: coated products have a "B" before their reference code. Please, contact your local sales representative.

PureFlex™ Arterial Cannulae Curved Tip with Suture Flange, Wire-reinforced Tubing

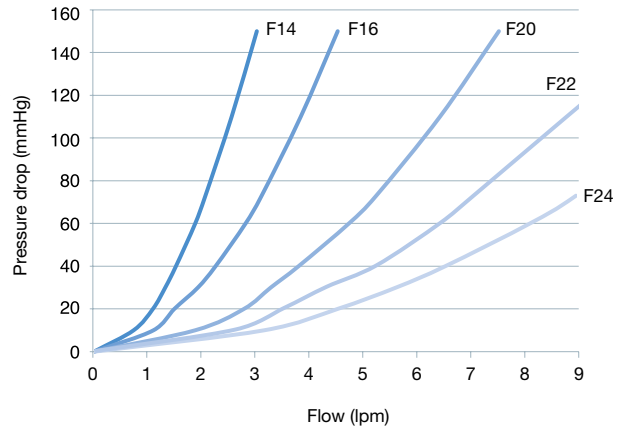
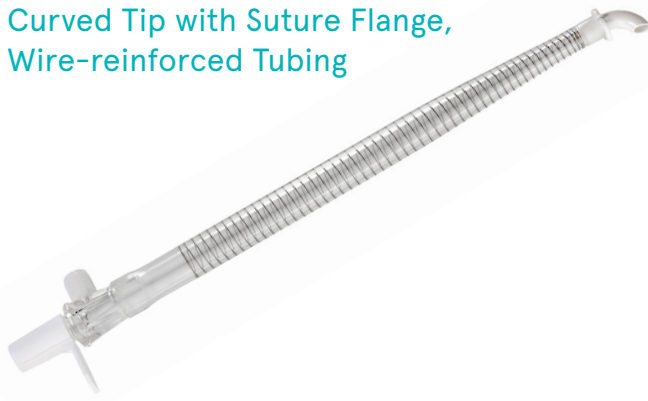


CANNULA TIP SIZE	POROUS VENT PLUG	CONNECTOR WITHOUT LUER VENT	CONNECTOR WITH LUER LOCK	CONNECTOR SIZE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
18 Fr/6.0 mm	RA18-2BP	RA18-2BC	RA18-2BB	3/8"	21.6	10	no
20 Fr/6.5 mm	RA20-2BP	RA20-2BC	RA20-2BB	3/8"	21.6	10	no
22 Fr/ 7.3 mm	RA22-2BP	RA22-2BC	RA22-2BB	3/8"	21.6	10	no
24 Fr/8.0 mm	RA24-2BP	RA24-2BC	RA24-2BB	3/8"	21.6	10	no

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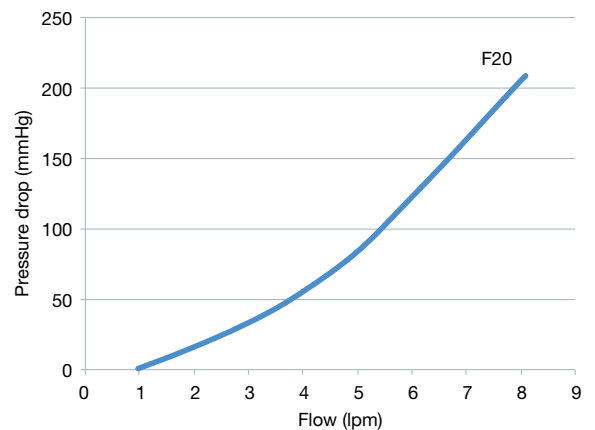
Arterial Cannulae
Curved Tip with Suture Flange,
Wire-reinforced Tubing



CANNULA TIP SIZE	CONNECTOR WITHOUT LUER VENT	CONNECTOR WITH LUER VENT DOWN	CONNECTOR SIZE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
16 Fr/ 5.2 mm	A212-52C	A212-52B	3/8"	23	10	Depends on Country Registration
20 Fr/ 6.5 mm	A212-65C	A212-65B	3/8"	23	10	Depends on Country Registration
22 Fr/ 7.3 mm	A212-73C	A212-73B	3/8"	23	10	Depends on Country Registration
24 Fr/ 8.0 mm	A212-80C	A212-80B	3/8"	24	10	Depends on Country Registration

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Wire-reinforced Tubing

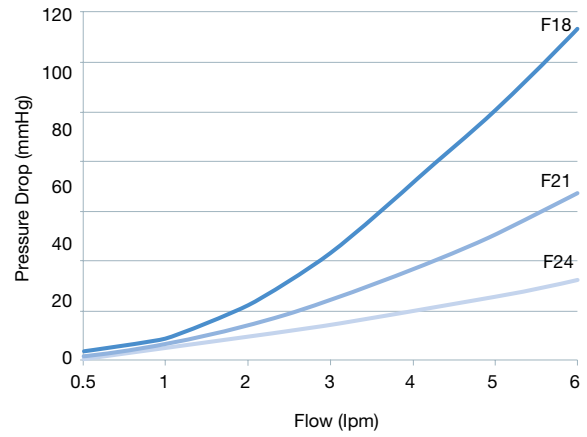
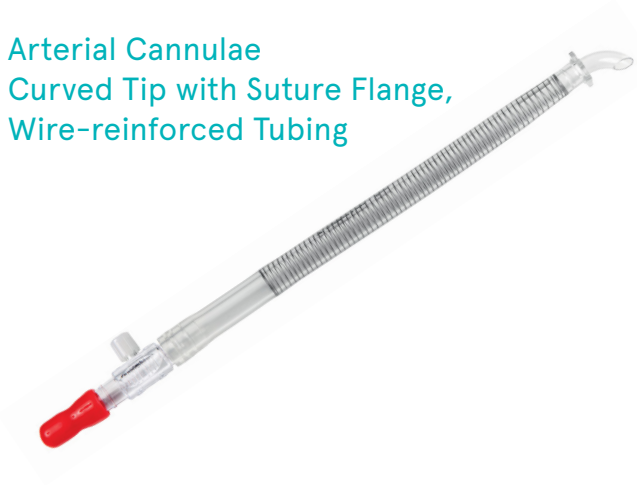


CANNULA TIP SIZE	CONNECTOR WITH LUER VENT	CONNECTOR SIZE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
20 Fr/6.5 mm	A900-23	3/8"	38	10	Depends on Country Registration

*Connectors reference pag. 4

ADULT CANNULAE - ARTERIAL CANNULAE

Arterial Cannulae
Curved Tip with Suture Flange,
Wire-reinforced Tubing

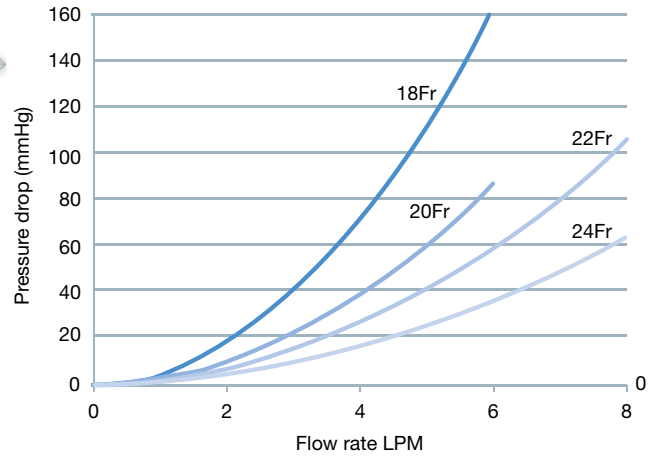


CANNULA TIP SIZE	POROUS VENT PLUG	CONNECTOR WITHOUT LUER VENT	CONNECTOR WITH LUER VENT	CONNECTOR SIZE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
18 Fr/ 6 mm	RA-1116	RA-1126	RA-1136	3/8"	25	10	no
21 Fr/ 7 mm	RA-1117	RA-1127	RA-1137	3/8"	25	10	no
24 Fr/ 8 mm	RA-1118	RA-1128	RA-1138	3/8"	25	10	no

*Connectors reference pag. 4

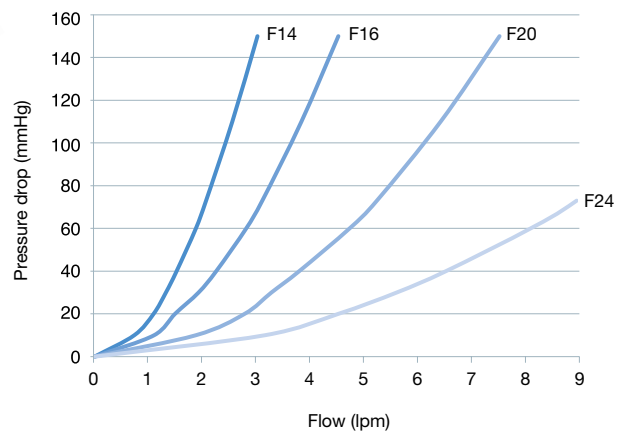
ADULT CANNULAE - ARTERIAL CANNULAE

PureFlex™ Arterial Cannulae Curved Tip with Suture Collar, Wire-reinforced Tubing



CANNULA TIP SIZE	POROUS VENT PLUG	CONNECTOR WITHOUT LUER VENT	CONNECTOR WITH LUER LOCK	CONNECTOR SIZE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
18 Fr/6.0 mm	RA18-1BP	RA18-1BC	RA18-1BB	3/8"	21.6	10	no
20 Fr/6.5 mm	RA20-1BP	RA20-1BC	RA20-1BB	3/8"	21.6	10	no
22 Fr/ 7.3 mm	RA22-1BP	RA22-1BC	RA22-1BB	3/8"	21.6	10	no
24 Fr/8.0 mm	RA24-1BP	RA24-1BC	RA24-1BB	3/8"	21.6	10	no

Arterial Cannulae Curved Tip with Suture Collar, Wire-reinforced Tubing



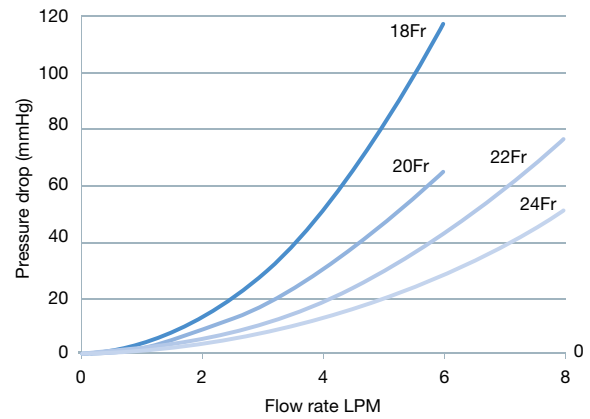
CANNULA TIP SIZE	CONNECTOR WITHOUT LUER VENT	CONNECTOR WITH LUER VENT DOWN	CONNECTOR SIZE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
16 Fr/ 5.2 mm	A222-52C	A222-52B	3/8"	23	10	Depends on Country Registration
20 Fr/ 6.5 mm	A222-65C	A222-65B	3/8"	23	10	Depends on Country Registration
24 Fr/ 8.0 mm	A222-80C	A222-80B	3/8"	24	10	Depends on Country Registration

*Connectors reference pag. 4

Straight Tip Arterial Cannulae

LivaNova Straight Arterial Cannulae allow for high flow rate and low resistance, as well as easy handling during insertion. They are available with wire-reinforced tubing. Depending on country registration, an optional phospholipid coating may be available to help improve biocompatibility. Note on ordering: coated products have a "B" before their reference code. Please, contact your local sales representative.

PureFlex™ Arterial Cannulae Straight Tip with Suture Collar, Wire-reinforced Tubing

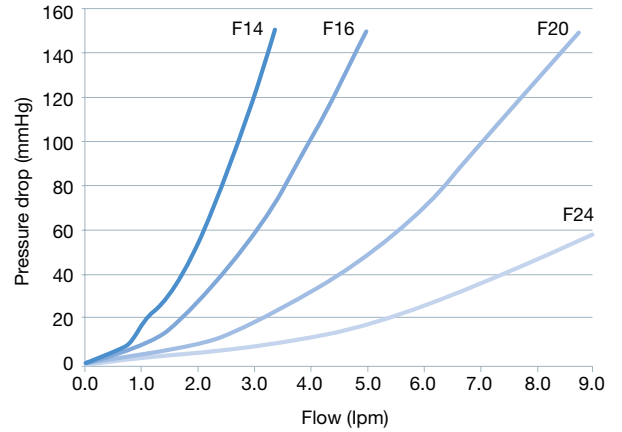


CANNULA TIP SIZE	POROUS VENT PLUG	CONNECTOR WITH LUER VENT	CONNECTOR WITH LUER LOCK	CONNECTOR SIZE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
18 Fr/6.0 mm	RA18-1SP	RA18-1SC	RA18-1SB	3/8"	21.6	10	no
20 Fr/6.5 mm	RA20-1SP	RA20-1SC	RA20-1SB	3/8"	21.6	10	no
22 Fr/ 7.3 mm	RA22-1SP	RA22-1SC	RA22-1SB	3/8"	21.6	10	no
24 Fr/8.0 mm	RA24-1SP	RA24-1SC	RA24-1SB	3/8"	21.6	10	no

*Connectors reference pag. 4

ADULT CANNULAE - ARTERIAL CANNULAE

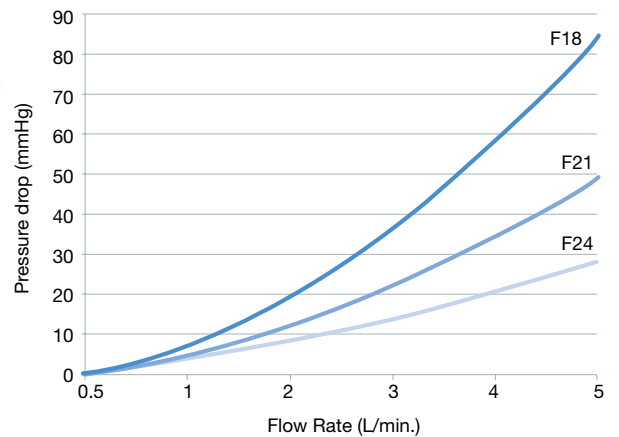
Arterial Cannulae Straight Tip with Suture Collar, Wire-reinforced Tubing



CANNULA TIP SIZE	CONNECTOR WITHOUT LUER VENT	CONNECTOR WITH LUER VENT DOWN	CONNECTOR WITH LUER VENT UP	CONNECTOR SIZE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
16 Fr/ 5.2 mm	A232-52C	A232-52B	-	3/8"	23	10	Depends on Country Registration
20 Fr/ 6.5 mm	A232-65C	A232-65B	-	3/8"	23	10	Depends on Country Registration
24 Fr/ 8.0 mm	A232-80C	A232-80B	-	3/8"	24	10	Depends on Country Registration

*Connectors reference pag. 4

Arterial Cannulae, Straight Tip with Suture Collar Wire-Reinforced Tubing

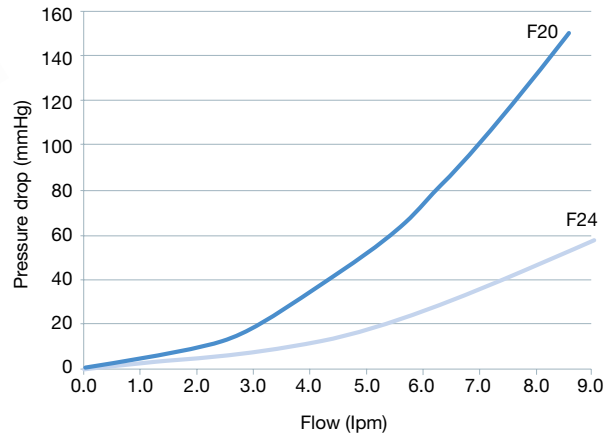
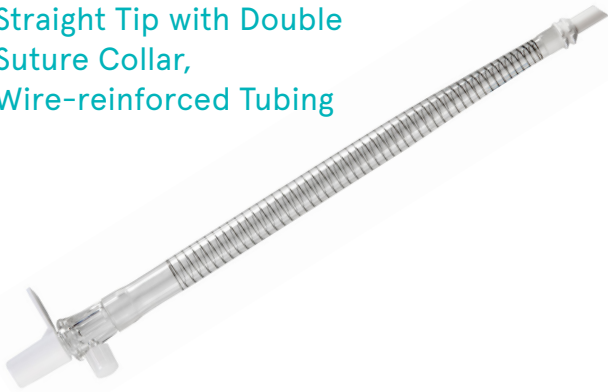


CANNULA TIP SIZE	POROUS VENT PLUG	CONNECTOR WITHOUT LUER VENT	CONNECTOR WITH LUER VENT	CONNECTOR SIZE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
18 Fr/ 6.0 mm	RA-2116	RA-2126	RA-2136	3/8"	25	10	no
21 Fr/ 7.0 mm	RA-2117	RA-2127	RA-2137	3/8"	25	10	no
24 Fr/ 8.0 mm	RA-2118	RA-2128	RA-2138	3/8"	25	10	no

*Connectors reference pag. 4

ADULT CANNULAE - ARTERIAL CANNULAE

Arterial Cannulae
Straight Tip with Double
Suture Collar,
Wire-reinforced Tubing



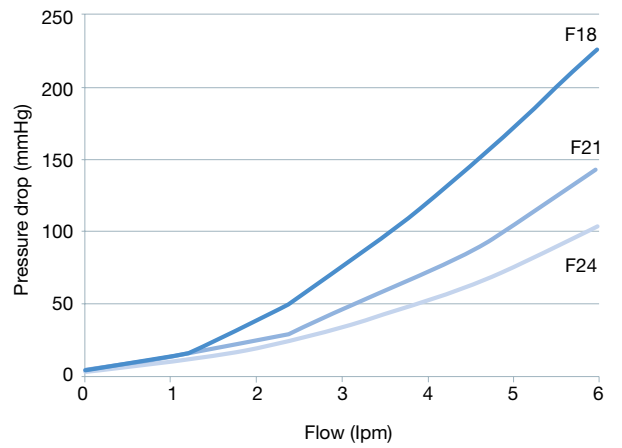
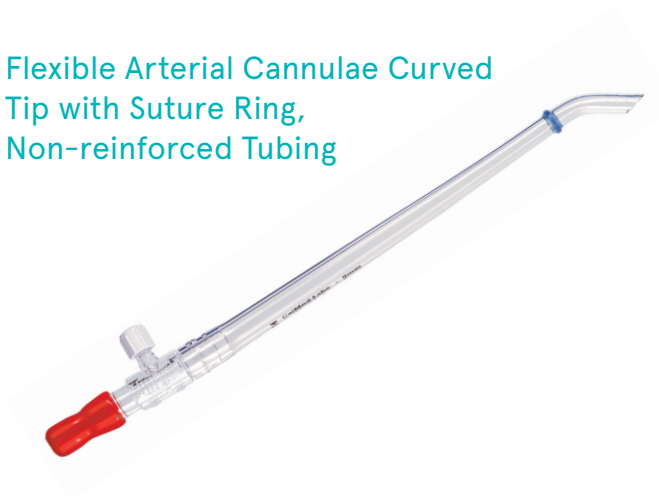
CANNULA TIP SIZE	CONNECTOR WITHOUT LUER VENT	CONNECTOR WITH LUER VENT DOWN	CONNECTOR WITH LUER VENT UP	CONNECTOR SIZE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
20 Fr/ 6.5 mm	A262-65C	A262-65B	-	3/8"	24	10	Depends on Country Registration
24 Fr/ 8.0 mm	A262-80C	A262-80B	-	3/8"	24	10	Depends on Country Registration

*Connectors reference pag. 4

Flexible Arterial Cannulae

LivaNova Flexible Tip Arterial Cannulae allow for high flow rate and low resistance, as well as easy handling during insertion. They are available without wire reinforced tubing. Please, contact your local sales representative.

Flexible Arterial Cannulae Curved Tip with Suture Ring, Non-reinforced Tubing

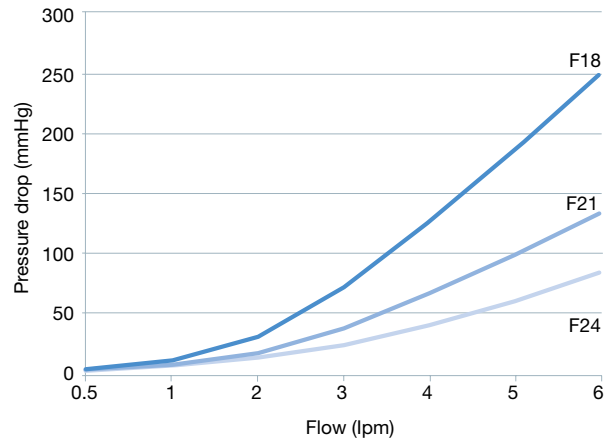


CANNULA TIP SIZE	POROUS VENT PLUG	CONNECTOR WITHOUT LUER VENT	CONNECTOR WITH LUER VENT	CONNECTOR SIZE/ ACCEPTANCE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
18 Fr/ 6mm	NA-5516	NA-5526	NA-5536	3/8"	25	10	no
21 Fr/ 7 mm	NA-5517	NA-5527	NA-5537	3/8"	25	10	no
24 Fr/ 8 mm	NA-5518	NA-5528	NA-5538	3/8"	25	10	no

*Connectors reference pag. 4

ADULT CANNULAE - ARTERIAL CANNULAE

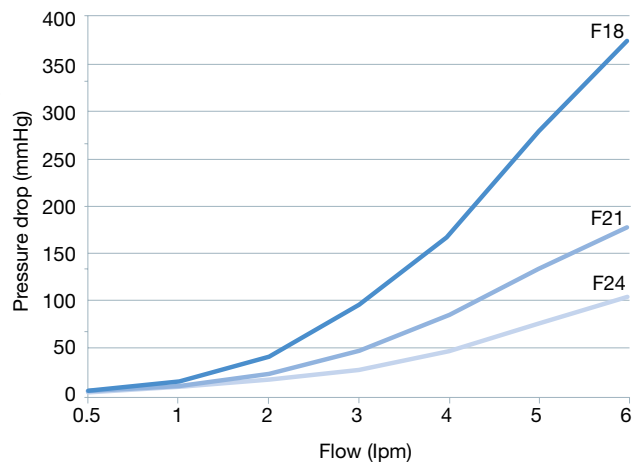
Flexible Arterial Cannulae Straight Tip with Suture Ring, Non-reinforced Tubing



CANNULA TIP SIZE	POROUS VENT PLUG	CONNECTOR WITHOUT LUER VENT	CONNECTOR WITH LUER VENT	CONNECTOR SIZE/ ACCEPTANCE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
18 Fr/ 6mm	NA-4516	NA-4526	NA-4536	3/8"	25	10	no
21 Fr/ 7 mm	NA-4517	NA-4527	NA-4537	3/8"	25	10	no
24 Fr/ 8 mm	NA-4518	NA-4528	NA-4538	3/8"	25	10	no

*Connectors reference pag. 4

Flexible Arterial Cannulae Straight Tip with Moveable Suture Ring, Non-reinforced Tubing



CANNULA TIP SIZE	POROUS VENT PLUG	CONNECTOR WITHOUT LUER VENT	CONNECTOR WITH LUER VENT	CONNECTOR SIZE/ ACCEPTANCE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
18 Fr/ 6mm	NA-3416	NA-3426	NA-3436	3/8"	25	10	no
21 Fr/ 7 mm	NA-3417	NA-3427	NA-3437	3/8"	25	10	no
24 Fr/ 8 mm	NA-3418	NA-3428	NA-3438	3/8"	25	10	no

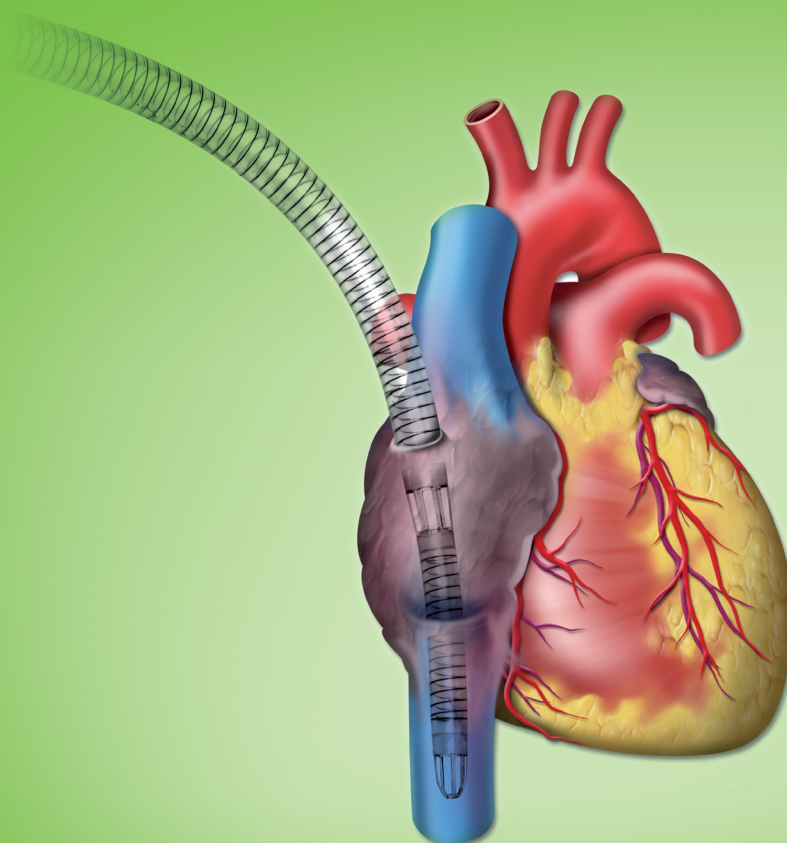
*Connectors reference pag. 4

VENOUS RETURN CANNULAE

LivaNova Adult Venous Return Cannulae are intended for adult venous direct cannulation and are available with different tip configurations: triple stage, dual stage, single stage, swirled grooved tips. All cannulae are available with or without pre-attached connector. Depending on country registration, an optional phospholipid coating may be available.

Note on ordering: coated products have a "B" before their reference code.

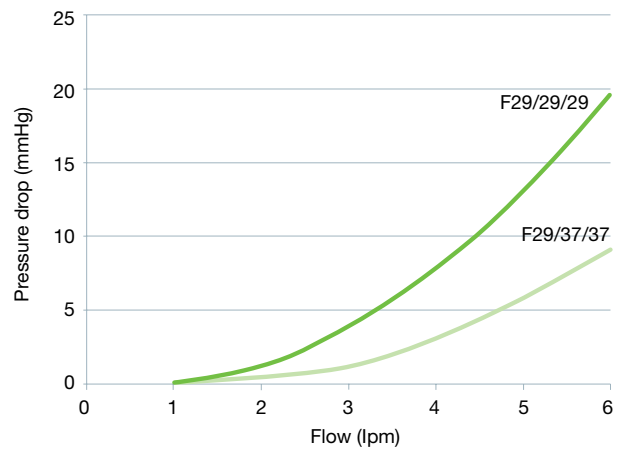
Please, contact your local sales representative.



Triple Stage Venous Return Cannulae

LivaNova Triple Stage Venous Return Cannulae, with wire-reinforced tubing and with or without connector, feature a third point of drainage for optimal flow performance. The innovative distal tip is softer, yet it adds rigidity to prevent collapse during vacuum assistance procedure.

Triple Stage
Venous Return,
Wire-reinforced Tubing

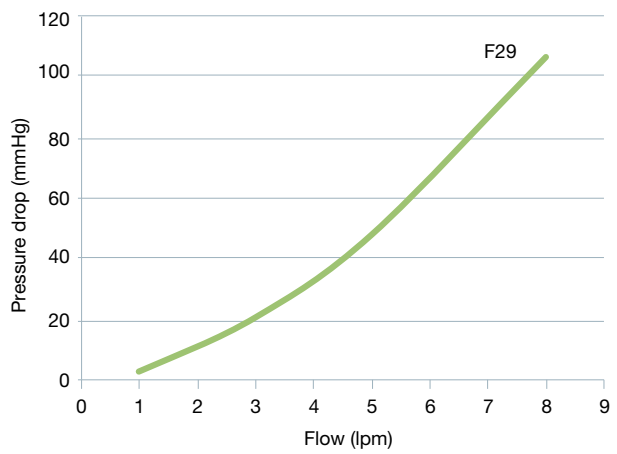


CANNULA SIZE	WITHOUT CONNECTOR	WITH CONNECTOR	CONNECTOR SIZE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
29/29/29 Fr	RTS-11029	RTS-11129	3/8"	40 cm	10	no
29/37/37 Fr	RTS-13029	RTS-13129	1/2"	40 cm	10	no

Optiflow Venous Return Cannulae

LivaNova Optiflow Venous Return Cannula is intended for atrial caval cannulation, with gravity or vacuum-assisted venous drainage. A one-piece swirled and grooved tip with multiple holes improves drainage regardless of heart position. Depending on country registration, an optional phospholipid coating may be available. Note on ordering: coated products have a "B" before their reference code. Please, contact your local sales representative.

Optiflow Venous Return Cannulae

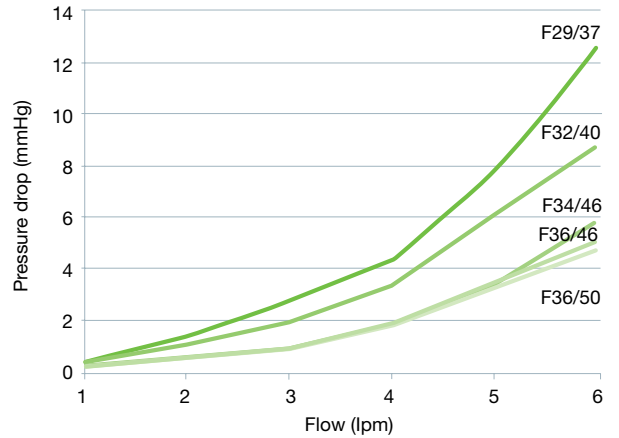


CANNULA SIZE	WITHOUT CONNECTOR	CONNECTION SIZE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
29 Fr	V182-29	3/8"	39	10	Depends on Country Registration

Dual Stage Venous Return Cannulae

LivaNova Dual Stage Venous Return Cannulae are designed for venous drainage of the right atrium and vena cava with a single cannula. They are available with wire-reinforced tubing one piece construction with lighthouse tip or with a flexible basket drainage point. Depending on country registration, an optional phospholipid coating may be available. Note on ordering: coated products have a "B" before their reference code. Please, contact your local sales representative.

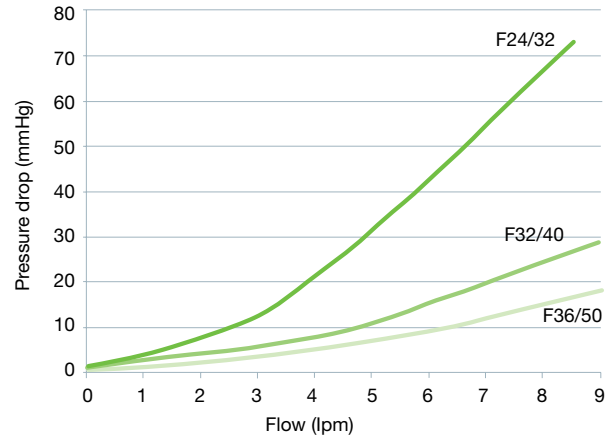
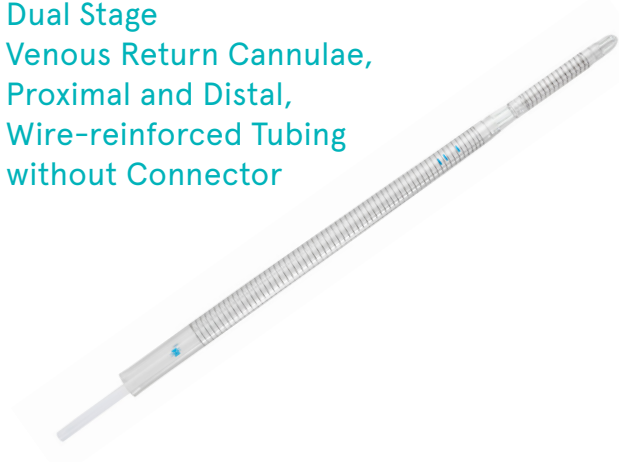
Dual Stage Venous Return Cannulae, Wire-reinforced Tubing



CANNULA SIZE	WITH CONNECTOR	WITHOUT CONNECTOR	CONNECTOR SIZE/ ACCEPTANCE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
29/37 Fr	RDS-61137	RDS-61037	1/2"	40	10	no
32/40 Fr	RDS-61140	RDS-61040	1/2"	40	10	no
34/46 Fr	RDS-61134	RDS-61034	1/2"	40	10	no
36/46 Fr	RDS-61146	RDS-61046	1/2"	40	10	no
36/50 Fr	RDS-61150	RDS-61050	1/2"	40	10	no

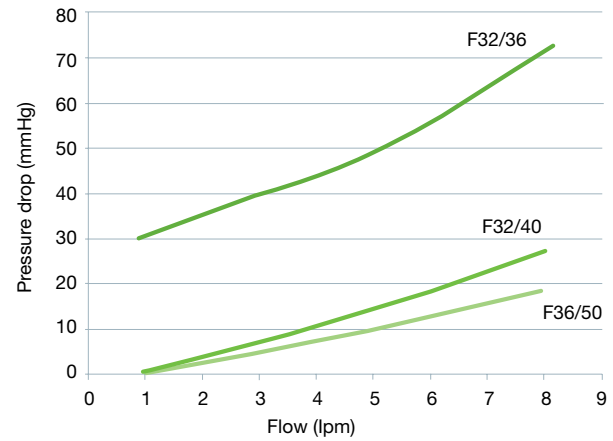
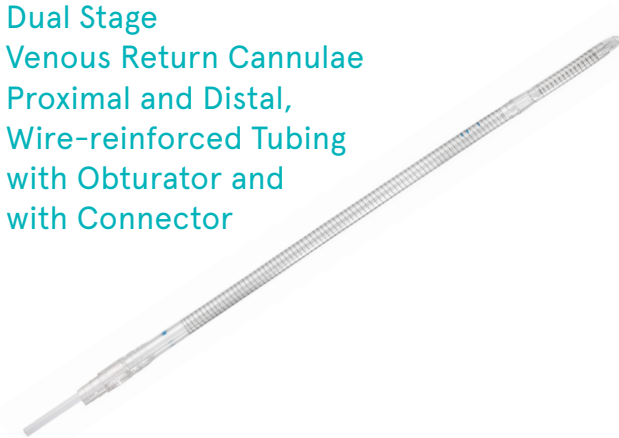
ADULT CANNULAE - VENOUS RETURN CANNULAE

Dual Stage
Venous Return Cannulae,
Proximal and Distal,
Wire-reinforced Tubing
without Connector



CANNULA SIZE	CATALOG N°	CONNECTOR ACCEPTANCE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
24/32 Fr	V112-32	3/8"	44	10	Depends on Country Registration
32/40 Fr	V112-40	1/2"	41	10	Depends on Country Registration
36/50 Fr	V112-50	1/2"	41	10	Depends on Country Registration

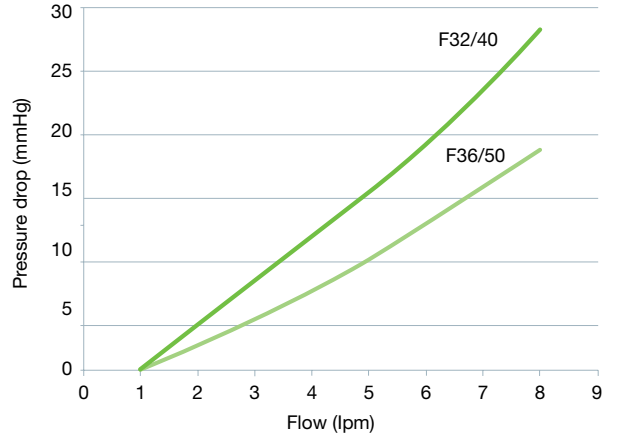
Dual Stage
Venous Return Cannulae
Proximal and Distal,
Wire-reinforced Tubing
with Obturator and
with Connector



CANNULA SIZE	CATALOG N°	CONNECTOR SIZE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
32/36 Fr	V900-284	1/2"	47	10	Depends on Country Registration
32/40 Fr	V900-99	1/2"	41	10	Depends on Country Registration
36/50 Fr	V900-134	1/2"	41	10	Depends on Country Registration

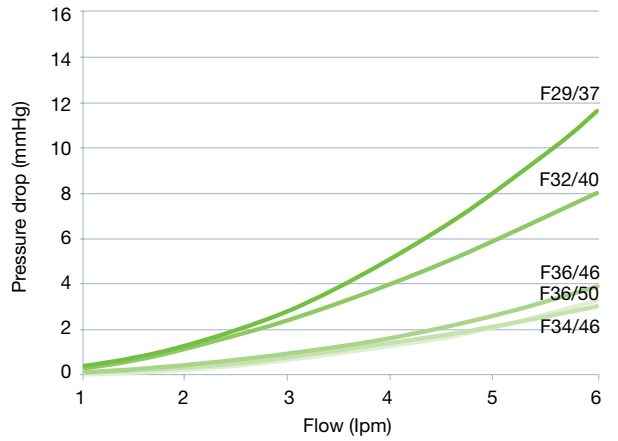
ADULT CANNULAE - VENOUS RETURN CANNULAE

Dual Stage
Venous Return Cannulae
Proximal and Distal,
Wire-reinforced Tubing
without Obturator and
with Connector



CANNULA SIZE	WITH CONNECTOR	WITH CONNECTOR AND LUER VENT	CONNECTOR SIZE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
32/40 Fr	V900-49	V900-19	1/2"	41	10	Depends on Country Registration
36/50 Fr	V900-11	-	1/2"	41	10	Depends on Country Registration

Low Profile, Dual Stage
Venous Return Cannulae,
Wire-reinforced Tubing

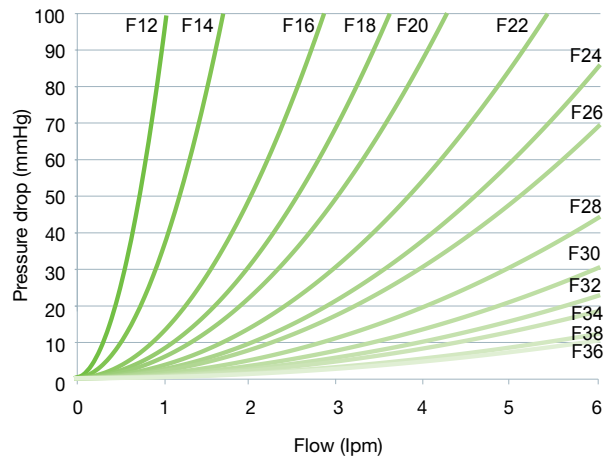
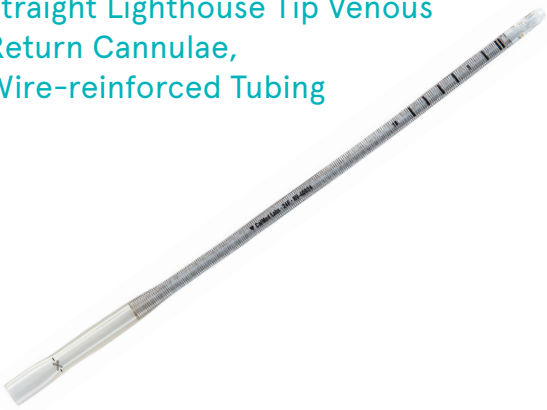


CANNULA SIZE	WITH CONNECTOR	WITHOUT CONNECTOR	CONNECTOR SIZE/ ACCEPTANCE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
29/37 Fr	LRD-61137	LRD-61037	1/2"	40	10	no
32/40 Fr	LRD-61140	LRD-61040	1/2"	40	10	no
34/46 Fr	LRD-61134	LRD-61034	1/2"	40	10	no
36/46 Fr	LRD-61146	LRD-61046	1/2"	40	10	no
36/50 Fr	LRD-61150	LRD-61050	1/2"	40	10	no

Single Stage Venous Return Cannulae

LivaNova Single Stage Venous Return Cannulae are provided with straight and right angled tip, with reinforced tubing. The wire-reinforced tubing mitigates the risk of kinking due to twisting during the procedure. Depending on country registration, an optional phospholipid coating may be available. Note on ordering: coated products have a "B" before their reference code. Please, contact your local sales representative.

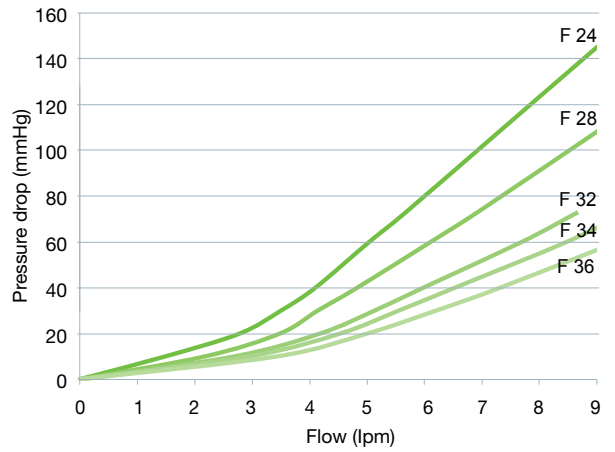
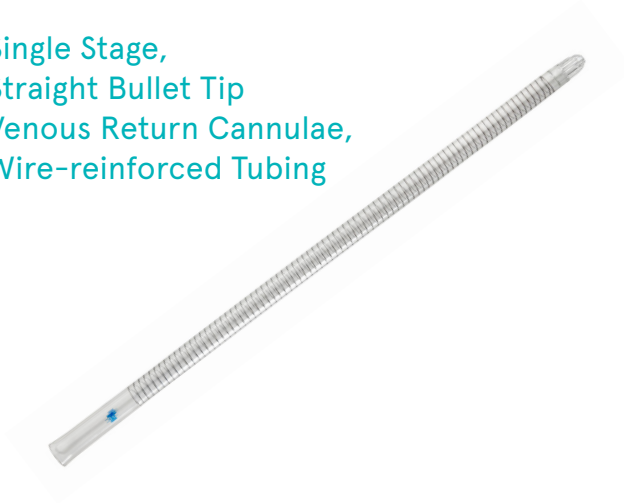
Single Stage,
Straight Lighthouse Tip Venous
Return Cannulae,
Wire-reinforced Tubing



CANNULA SIZE	CATALOG N°	CONNECTOR ACCEPTANCE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
12 Fr	RV-40012	1/4"	30.5	10	no
14 Fr	RV-40014	1/4"	30.5	10	no
16 Fr	RV-40016	1/4"	30.5	10	no
18 Fr	RV-40018	1/4"-3/8"	35.5	10	no
20 Fr	RV-40020	1/4"-3/8"	35.5	10	no
22 Fr	RV-40022	1/4"-3/8"	35.5	10	no
24 Fr	RV-40024	1/4"-3/8"	35.5	10	no
26 Fr	RV-40026	3/8"	40.6	10	no
28 Fr	RV-40028	3/8"	40.6	10	no
30 Fr	RV-40030	3/8"	40.6	10	no
32 Fr	RV-40032	3/8"	40.6	10	no
34 Fr	RV-40034	3/8"	40.6	10	no
36 Fr	RV-40036	1/2"	40.6	10	no
36 Fr	RV-40536	3/8"	40.6	10	no
38 Fr	RV-40038	3/8"	40.6	10	no

ADULT CANNULAE - VENOUS RETURN CANNULAE

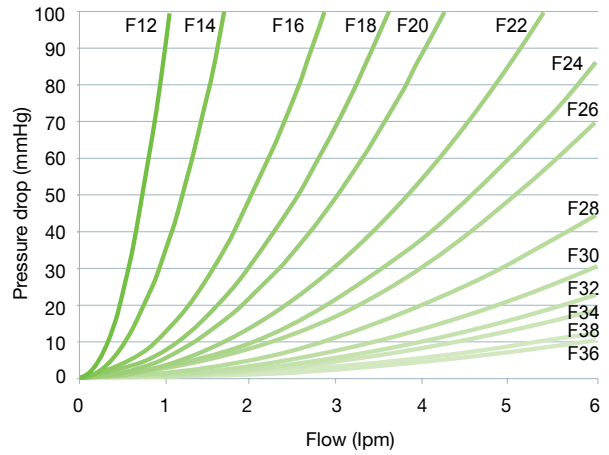
Single Stage,
Straight Bullet Tip
Venous Return Cannulae,
Wire-reinforced Tubing



CANNULA SIZE	CATALOG N°	CATALOG N° WITH SUTURE RING	CONNECTOR ACCEPTANCE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
24 Fr	V122-24	-	3/8"	38	10	Depends on Country Registration
28 Fr	V122-28	V900-12	3/8"	38	10	Depends on Country Registration
32 Fr	V122-32	V900-62	3/8"	38	10	Depends on Country Registration
34 Fr	V122-34	-	3/8"	39	10	Depends on Country Registration
36 Fr	V122-36	-	3/8"	39	10	Depends on Country Registration

ADULT CANNULAE - VENOUS RETURN CANNULAE

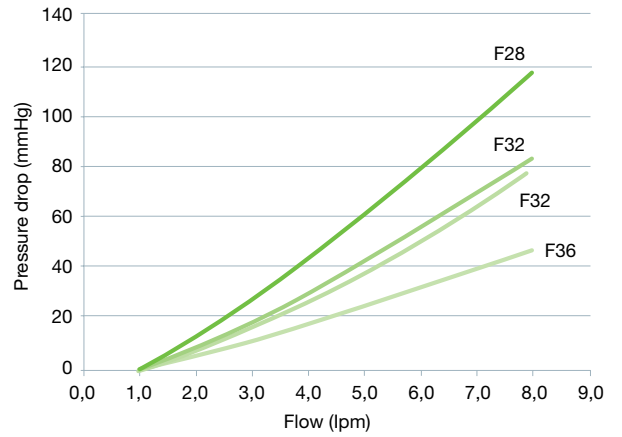
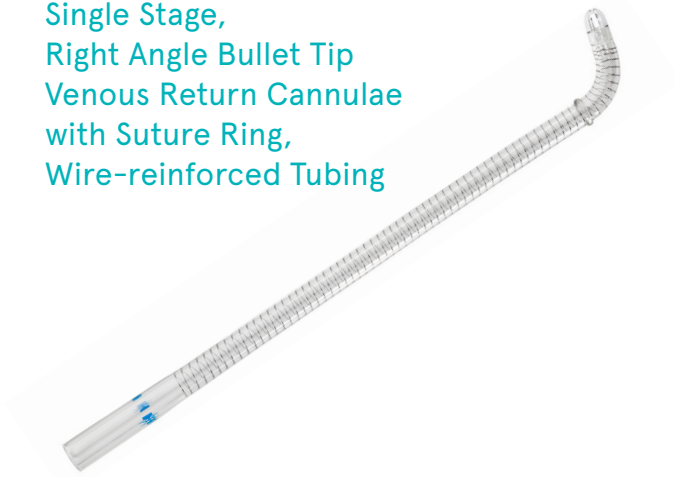
Single Stage, Right Angle
Lighthouse Tip
Venous Return Cannulae,
Wire-reinforced Tubing



CANNULA SIZE	CATALOG N°	CONNECTOR ACCEPTANCE	TIP LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
12 Fr	RV-41012	1/4"	2.5	10	no
14 Fr	RV-41014	1/4"	2.5	10	no
16 Fr	RV-41016	1/4"	2.5	10	no
18 Fr	RV-41018	1/4"-3/8"	3	10	no
20 Fr	RV-41020	1/4"-3/8"	3.5	10	no
22 Fr	RV-41022	1/4"-3/8"	3.5	10	no
24 Fr	RV-41024	1/4"-3/8"	4	10	no
26 Fr	RV-41026	3/8"	4	10	no
28 Fr	RV-41028	3/8"	4	10	no
30 Fr	RV-41030	3/8"	5.5	10	no
32 Fr	RV-41032	3/8"	5.5	10	no
34 Fr	RV-41034	3/8"	5.5	10	no
36 Fr	RV-41036	1/2"	6	10	no
38 Fr	RV-41038	3/8"	6	10	no

ADULT CANNULAE - VENOUS RETURN CANNULAE

Single Stage,
Right Angle Bullet Tip
Venous Return Cannulae
with Suture Ring,
Wire-reinforced Tubing



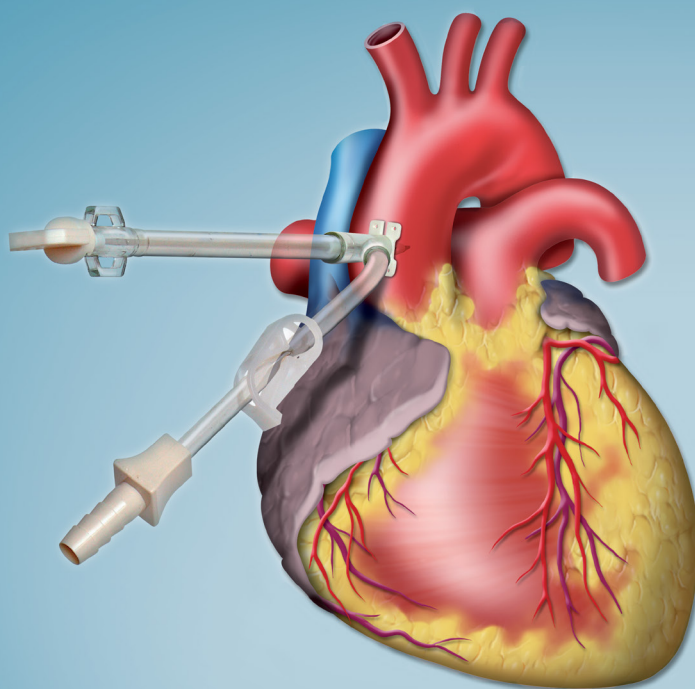
CANNULA SIZE	CATALOG N°	CONNECTOR ACCEPTANCE	ANGLED TIP LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
28 Fr	V900-01	3/8"	1.15	10	Depends on Country Registration
32 Fr	V900-02	3/8"	1.4	10	Depends on Country Registration
32 Fr	V152-32	3/8"	8.5	10	Depends on Country Registration
36 Fr	V152-36	3/8"	8.6	10	Depends on Country Registration

CARDIOPLEGIA PRODUCTS

LivaNova Adult Cardioplegia Cannulae are intended for cardioplegia delivery and myocardial protection during extra corporeal circulation in adult patients and are available in a wide range of configurations suitable for both antegrade and retrograde techniques. Depending on country registration, an optional phospholipid coating may be available.

Note on ordering: coated products have a "B" before their reference code.

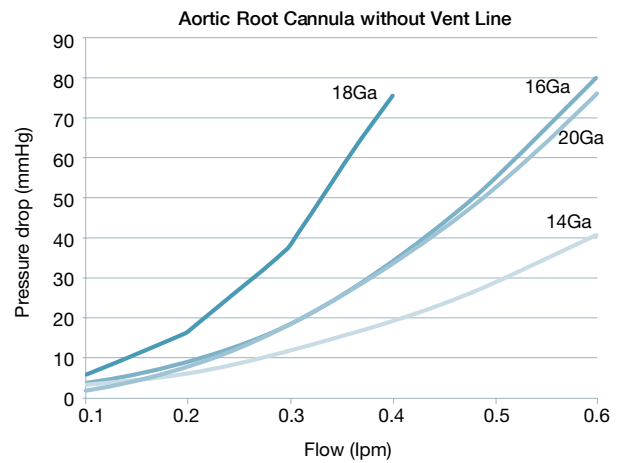
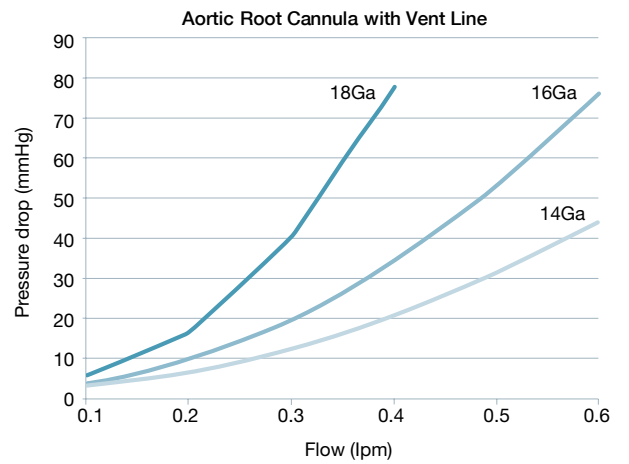
Please, contact your local sales representative.



Antegrade Cardioplegia Aortic Root Cannulae

LivaNova Antegrade Cardioplegia Aortic Root Cannulae are intended for rapid and secure cardioplegia perfusion of the coronary arteries. Depending on country registration, an optional phospholipid coating may be available. Note on ordering: coated products have a "B" before their reference code. Please, contact your local sales representative.

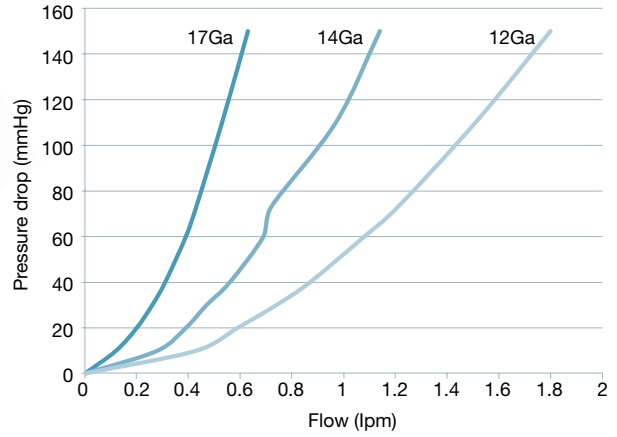
Aortic Root Cannulae with & without Vent Line



CANNULA TIP SIZE	INSERTION NEEDLE	WITHOUT VENT LINE	WITH VENT LINE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
12 Ga (9 Fr)	14 Ga - Green	AR-11012	AR-11112	15	10	no
14 Ga (7 Fr)	16 Ga - White	AR-11014	AR-11114	15	10	no
16 Ga (5 Fr)	18 Ga - Pink	AR-11016	AR-11116	15	10	no
18 Ga (4 Fr)	20 Ga - Gold	AR-11018	-	12.5	10	no

ADULT CANNULAE - CARDIOPLEGIA PRODUCTS

Aortic Root Cannulae



CANNULA TIP OUTER DIAMETER	INSERTION NEEDLE	WITHOUT VENT LINE	WITH VENT LINE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
3.1 mm	17 Ga	R501-15	R502-15	13	10	Depends on Country Registration
3.7 mm	14 Ga	R501-20	R502-20	13	10	Depends on Country Registration
4.0 mm	12 Ga	R501-26	R502-26	13	10	Depends on Country Registration

Aortic Root Cannulae with Vent Line, with Overpressure Safety Valve



CANNULA TIP OUTER DIAMETER	INSERTION NEEDLE	WITH VENT LINE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
3.1 mm	17 Ga	R900-05	13	10	Depends on Country Registration
3.7 mm	14 Ga	R900-06	13	10	Depends on Country Registration
4.0 mm	12 Ga	R900-07	13	10	Depends on Country Registration

Vessel Cannulae

LivaNova Vessel Cannulae are intended for antegrade selective vein graft. They are made of a soft PVC tube, with a soft and flexible distal tip, designed to perfuse vessels from 3.0 to 3.6 mm in diameter. They are available in blunt tip configuration, with or without an integral one-way-check silicone valve.

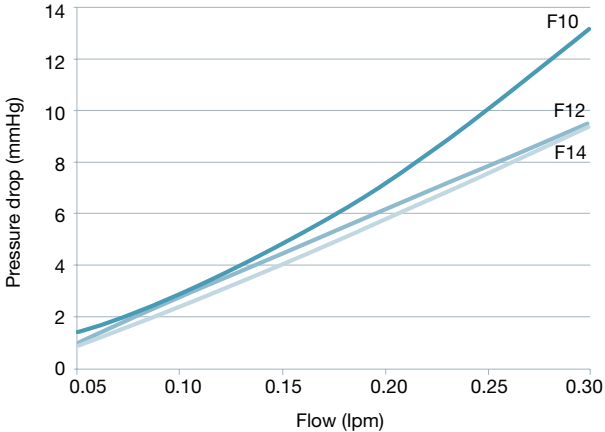


	WITHOUT WINGS WITHOUT VALVE	WITH WINGS WITHOUT VALVE	WITHOUT WINGS WITH VALVE	WITH WINGS WITH VALVE	QTY PER BOX	AVAILABLE COATED
Catalog N°	VC-11000	VC-11100	VC-11010	VC-11110	30	no
Effective Length (cm)	4.0	4.0	6.0	6.0	-	-

Antegrade Cardioplegia Coronary Ostia Cannulae

LivaNova Antegrade Cardioplegia Coronary Ostia Perfusion Cannulae are intended for cardioplegia delivery into the coronary ostia. Depending on country registration, an optional phospholipid coating may be available. Note on ordering: coated products have a "B" before their reference code. Please, contact your local sales representative.

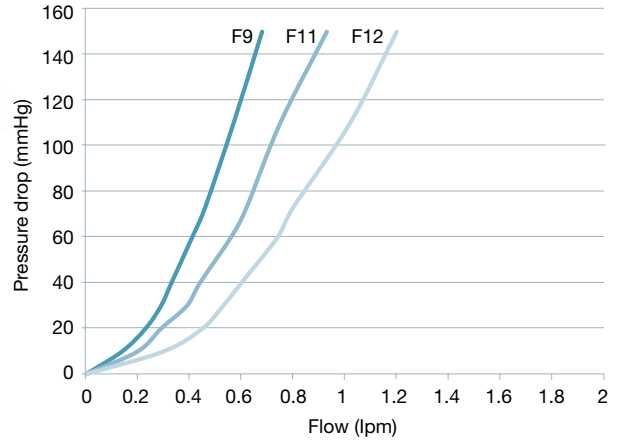
Coronary Ostia Perfusion Cannulae with Basket Tip, Stainless Steel Shaft and Female Luer Lock Connector



CANNULA TIP SIZE	45° TIP	90° TIP	CONNECTION SIZE	QTY PER BOX	AVAILABLE COATED
10 Fr	CP-11010	CP-12010	female luer lock	10	no
12 Fr	CP-11012	CP-12012	female luer lock	10	no
14 Fr	CP-11014	CP-12014	female luer lock	10	no

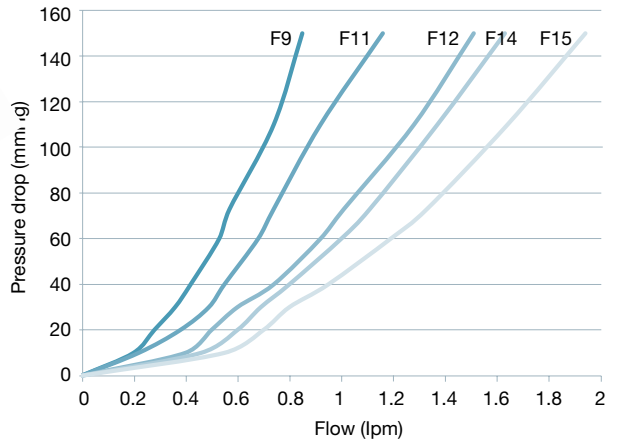
ADULT CANNULAE - CARDIOPLEGIA PRODUCTS

Coronary Ostia Perfusion Cannulae with Conical Tip, Stainless Steel Shaft and 1/4" Tubing Connector



CANNULA TIP SIZE	45° TIP	90° TIP	CONNECTION SIZE	QTY PER BOX	AVAILABLE COATED
9 Fr	P608-30	P606-30	1/4" tubing connector	10	Depends on Country Registration
11 Fr	P608-35	P606-35	1/4" tubing connector	10	Depends on Country Registration
12 Fr	P608-40	P606-40	1/4" tubing connector	10	Depends on Country Registration

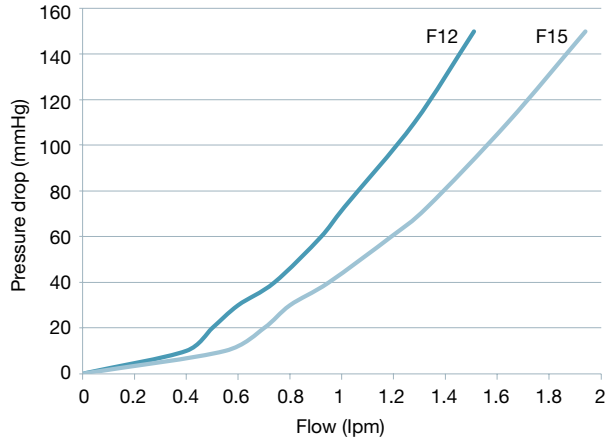
Coronary Ostia Perfusion Cannulae with Conical Tip, Stainless Steel Shaft and Female Luer Lock Connector



CANNULA TIP SIZE	45° TIP	90° TIP	CONNECTION SIZE	QTY PER BOX	AVAILABLE COATED
9 Fr	P618-30	P616-30	female luer lock	10	Depends on Country Registration
11 Fr	P618-35	P616-35	female luer lock	10	Depends on Country Registration
12 Fr	P618-40	P616-40	female luer lock	10	Depends on Country Registration
14 Fr	P618-45	P616-45	female luer lock	10	Depends on Country Registration
15 Fr	P618-50	P616-50	female luer lock	10	Depends on Country Registration

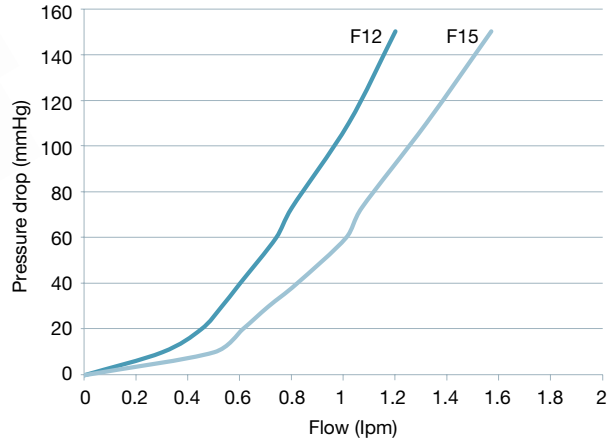
ADULT CANNULAE - CARDIOPLEGIA PRODUCTS

Coronary Ostia Perfusion Cannulae with 3D Tip, Stainless Steel Shaft and 1/4" Tubing Connector



CANNULA TIP SIZE	45° TIP	90° TIP	CONNECTION SIZE	QTY PER BOX	AVAILABLE COATED
12 Fr	P604-40	P602-40	1/4" tubing connector	10	Depends on Country Registration
15 Fr	P604-50	P602-50	1/4" tubing connector	10	Depends on Country Registration

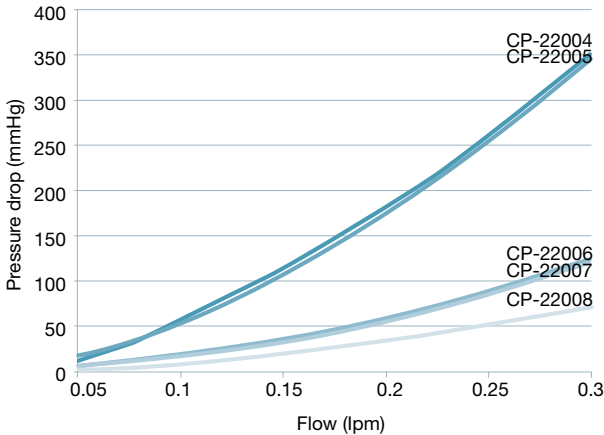
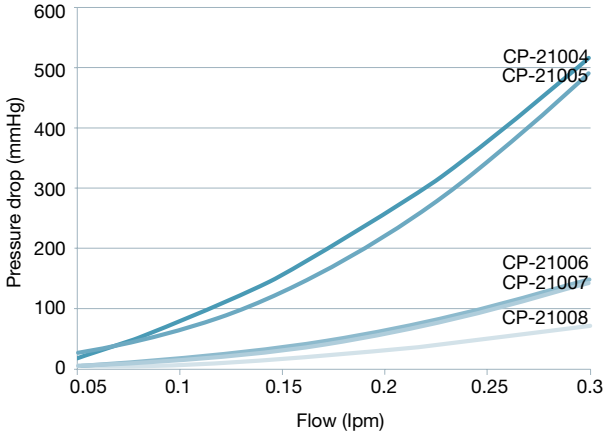
Coronary Ostia Perfusion Cannulae with 3D Tip, Stainless Steel Shaft and Female Luer Lock Connector



CANNULA TIP SIZE	45° TIP	90° TIP	CONNECTION SIZE	QTY PER BOX	AVAILABLE COATED
12 Fr	P614-40	P612-40	female luer lock	10	Depends on Country Registration
15 Fr	P614-50	P612-50	female luer lock	10	Depends on Country Registration

ADULT CANNULAE - CARDIOPLEGIA PRODUCTS

Coronary Ostia Perfusion Cannulae with Balloon Tip, Plastic Tubing and Female Luer Lock Connector

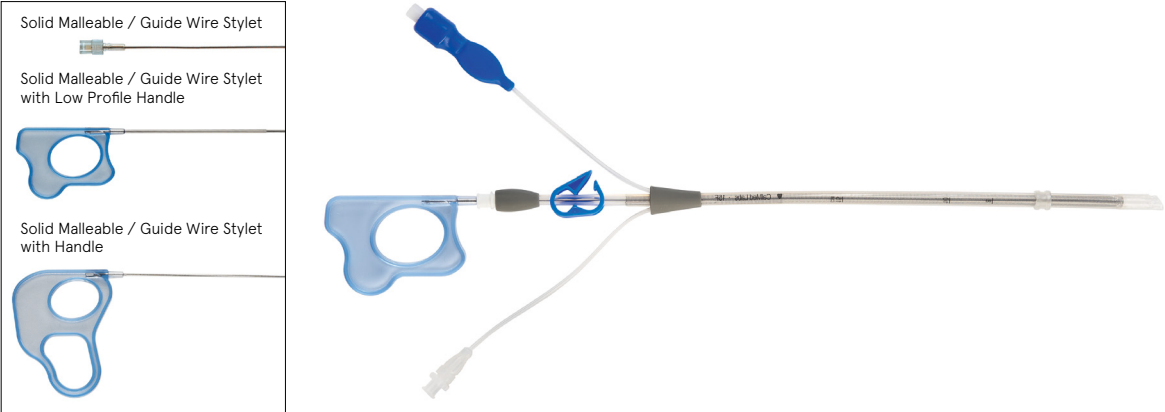


BALLOON SIZE	DISTAL CANNULAE TIP SIZE	STRAIGHT TIP	RIGHT ANGLE TIP	QTY PER BOX	AVAILABLE COATED
4.0 mm	2.1 mm	CP-21004	CP-22004	10	no
5.0 mm	2.1 mm	CP-21005	CP-22005	10	no
6.0 mm	3.0 mm	CP-21006	CP-22006	10	no
7.0 mm	3.0 mm	CP-21007	CP-22007	10	no
8.0 mm	3.5 mm	CP-21008	CP-22008	10	no

Retrograde Cardioplegia Cannulae

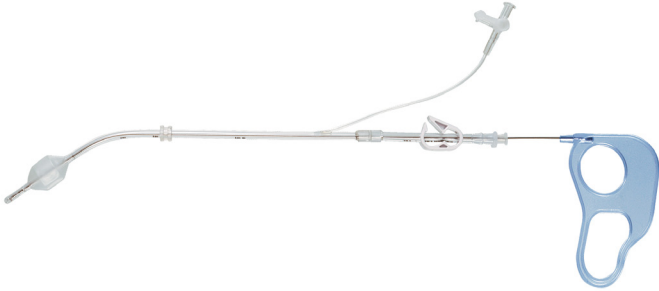
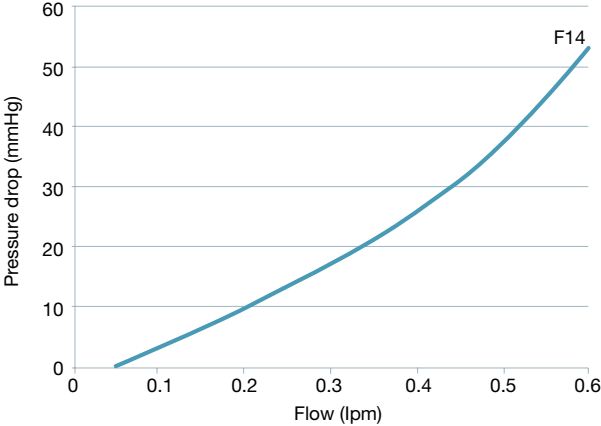
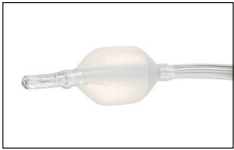
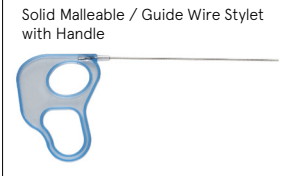
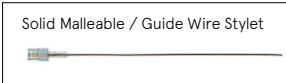
LivaNova Cardioplegia Retrograde Cannulae are intended for cardioplegia delivery into the coronary sinus. They are available with either a self- or manually-inflating balloon.

CIRCINUS™ Retrograde Cardioplegia Cannulae with Manually-Inflating Silicone Balloon



CANNULA TIP SIZE	WITHOUT STYLET	GUIDEWIRE STYLET W/O HANDLE	SOLID MALLEABLE STYLET W/O HANDLE	GUIDEWIRE STYLET W/ LOW PROFILE HANDLE	SOLID MALLEABLE STYLET W/ LOW PROFILE HANDLE	SOLID MALLEABLE STYLET W/ HANDLE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
15 Fr	-	RCM-14115	RCM-14215	RCM-14915	RCM-14815	RCM-14315	32	10	no

Retrograde Cardioplegia Cannulae with Self-Inflating PVC Balloon

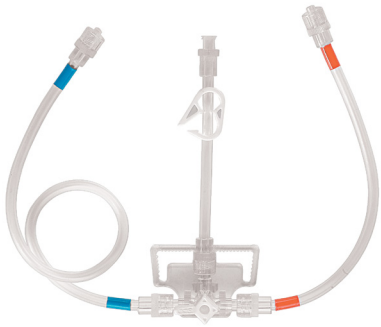


CANNULA TIP SIZE	BALLOON DIAMETER	WITHOUT STYLET	SOLID MALLEABLE STYLET	SOLID MALLEABLE STYLET WITH HANDLE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
14 Fr	14 mm	RCS-11114	RCS-11214	RCS-11314	30.5	5	no
14 Fr	18 mm	RCS-12114	RCS-12214	RCS-12314	30.5	5	no
14 Fr	20 mm	RCS-13114	RCS-13214	RCS-13314	30.5	5	no

Antegrade/Retrograde Cardioplegia Perfusion Adapters

LivaNova Antegrade/Retrograde Perfusion Adapters are intended for selective delivery of either antegrade or retrograde cardioplegia in conjunction with LivaNova Antegrade and Retrograde Cardioplegia Cannulae. They are available with or without pressure monitoring line.

Antegrade/Retrograde Cardioplegia Perfusion Adapter

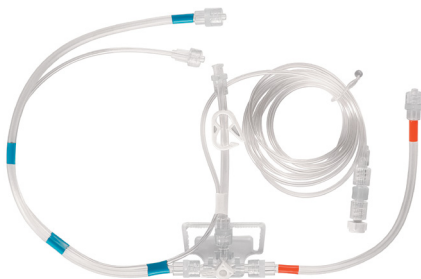


ANTEGRADE/RETROGRADE CARDIOPLEGIA PERFUSION ADAPTER

CATALOG NO.	DESCRIPTION	LENGTH
CA-80010	Antegrade/Retrograde Cardioplegia Perfusion Adapter with color coded tubing and with stopcock base plate with self adhesive tape	22 in / 56 cm

Each adapter is individually packaged in a peel pack with 10 sterile adapters per box.

Antegrade/Retrograde Cardioplegia Perfusion Adapter with Pressure Monitoring Line




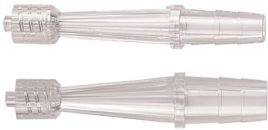



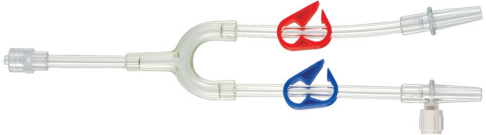
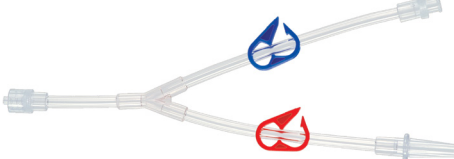
ANTEGRADE/RETROGRADE CARDIOPLEGIA PERFUSION ADAPTER WITH PRESSURE MONITORING LINE

CATALOG NO.	DESCRIPTION	LENGTH
CA-81010	Antegrade/Retrograde Cardioplegia Perfusion Adapter with 84 inches (213 cm) pressure monitoring line, color coded tubing, and stopcock base plate with self adhesive tape	22 in / 56 cm

Each adapter is individually packaged in a peel pack with 10 sterile adapters per box.

Cardioplegia Adapters

LivaNova Cardioplegia Adapters are designed for use in conjunction with LivaNova Antegrade Cardioplegia Aortic Root and Vessel Cannulae for delivery of cardioplegia solution and for heart venting.

RETROGRADE CARDIOPLEGIA CANNULAE, SELF-INFLATING TEXTURED POLYURETHANE BALLOON CANNULA LENGTH 12 IN / 32 CM			
	DESCRIPTION	CATALOG NO.	LENGTH
	Straight Adapter	CA-10010	5.5 in / 14 cm
	Perfusion Adapter - 1/4 in Perfusion Adapter - 3/8 in	CA-10030 CA-10040	3.75 in / 7 cm 3.75 in / 7 cm
	Perfusion/Venting Adapter - 1/4 in with large bore 3-way stopcock	CA-11030	4 in / 10 cm
	Perfusion "Y" Adapter	CA-20010	14 in / 35 cm
	Perfusion "Y" Adapter with color coded clamps, with soft tubing	CA-20070	14 in / 35 cm
	Recirculation "Y" Adapter	CA-20020	8.5 in / 21 cm
	Venting "Y" Adapter	CA-20030	8 in / 20 cm

ADULT CANNULAE - CARDIOPLEGIA PRODUCTS



Multiple Perfusion Adapter,
Triplicate
Multiple Perfusion Adapter,
Triplicate with Vessel Cannulae,
Cat. No. VC-12000

CA-30010

15 in / 38.1 cm

CA-31010

16.5 in / 42 cm



Multiple Perfusion Adapter
Multiple Perfusion Adapter with
Vessel Cannulae Cat. No. VC-
12000
Multiple Perfusion Adapter with
Vessel Cannulae Cat. No. VC-
12010

CA-40010

15 in / 38.1 cm

CA-40030

16.5 in / 42 cm

CA-40040

17 in / 43 cm



Multiple Perfusion Adapter with
Vent Line
Multiple Perfusion Adapter with
Vent Line and
Vessel Cannulae Cat. No.
VC-12000

CA-40020

15 in / 38.1 cm

CA-41020

16.5 in / 42 cm

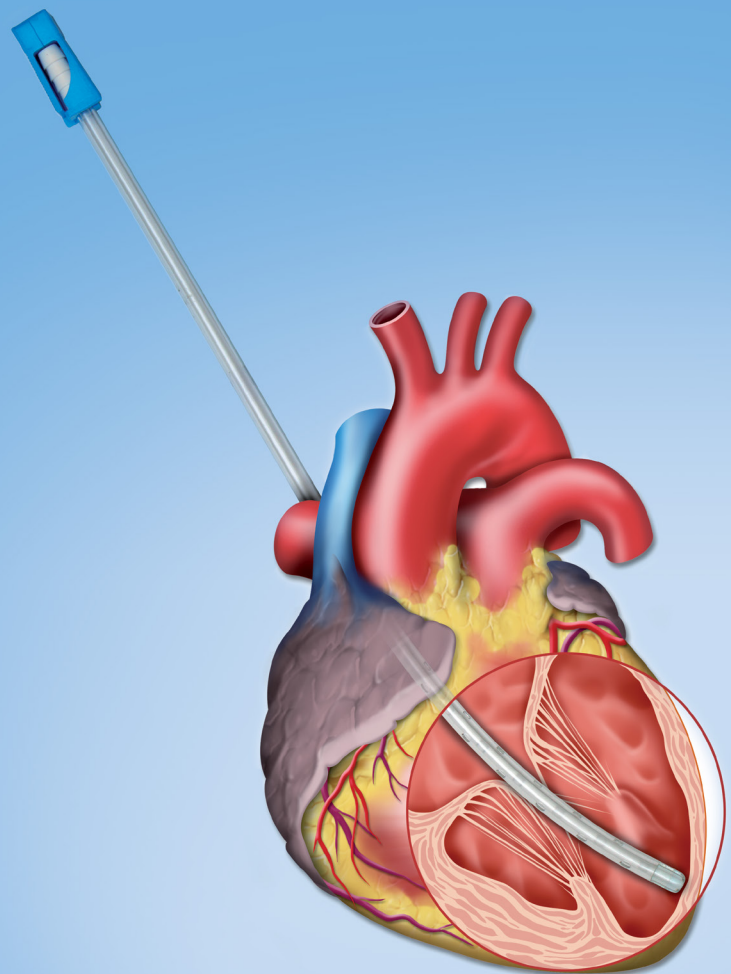
Each adapter is individually packaged in a peel pack with 10 sterile adapters per box, except for CA-10030, CA-10040 and CA-11030 which are 20 per box.

VENTS

To decompress the left side of the heart during on-pump cardiac surgery procedures in adult patients, LivaNova Adult Vents are available in a variety of configurations either in PVC or Silicone.

LivaNova PVC Vents are available in straight, pre-bent or malleable tubing. Depending on the model, some vents are available with a removable guidewire or a malleable stylet with a two-position latching mechanism.

LivaNova Silicone Vents are made of biocompatible, soft silicone tubing. Depending on country registration, an optional phospholipid coating may be available. Note on ordering: coated products have a "B" before their reference code. Please, contact your local sales representative.



ADULT CANNULAE - VENTS

Ventricular Vent Catheters, Silicone Bullet Tip, with Guidewire Stylet



CANNULA SIZE	CATALOG N°	TIP PERFORATION (CM)	CONNECTION SIZE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
16 Fr	VT-57316	7	1/4"	38.1	10	no
20 Fr	VT-57320	7	1/4"	38.1	10	no

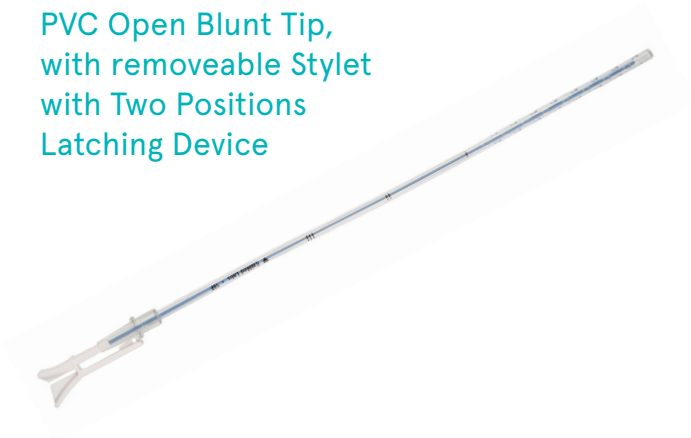
Ventricular Vent Catheters, Malleable Open Blunt Tip, with Internal Stylet



CANNULA SIZE	CATALOG N°	TIP PERFORATION (CM)	CONNECTION SIZE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
18 Fr	VT-46118	3.2	1/4"	38.1	10	no

ADULT CANNULAE - VENTS

Ventricular Vent Catheters,
PVC Open Blunt Tip,
with removeable Stylet
with Two Positions
Latching Device



CANNULA SIZE	CATALOG N°	TIP PERFORATION (CM)	CONNECTION SIZE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
12 Fr	VT-31212	2.5	1/4"	27.3	10	no
18 Fr	VT-53218	5.5	1/4"	35.5	10	no
18 Fr	VT-63218	10.8	1/4"	35.5	10	no

Ventricular Vent Catheters,
PVC Open Blunt Tip,
without Stylet



CANNULA SIZE	CATALOG N°	TIP PERFORATION (CM)	CONNECTION SIZE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
16 Fr	VT-92116	2.5	1/4"	43.2	10	no

ADULT CANNULAE - VENTS

Ventricular Vent Catheters, PVC Straight,
Bullet Tip, with Guidewire Stylet.
Right Angle, Bullet Tip, without Stylet



CANNULA SIZE	STRAIGHT WITH GUIDEWIRE STYLET	RIGHT ANGLE WITHOUT STYLET	RIGHT ANGLE LENGTH	TIP PERFORATION (CM)	CONNECTION SIZE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
10 Fr	VT-84410	VT-84510	3.8	2	1/4"	32	10	no
13 Fr	VT-84413	VT-84513	5.1	3.8	1/4"	32	10	no

Ventricular Vent Catheters,
PVC Bullet Tip, without Stylet



CANNULA SIZE	CATALOG N°	TIP PERFORATION (CM)	CONNECTION SIZE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
16 Fr	VT-83116	5.5	1/4"	38.1	10	no

ADULT CANNULAE - VENTS

Ventricular Vent Catheters, PVC Bullet Tip, without Stylet with venting luer lock



CANNULA SIZE	CATALOG N°	TIP PERFORATION (CM)	CONNECTION SIZE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
16 Fr	VT-89616	5.5	1/4"	38.1	10	no
18 Fr	VT-89618	7.0	1/4"	38.1	10	no
20 Fr	VT-89620	7.0	1/4"	38.1	10	no

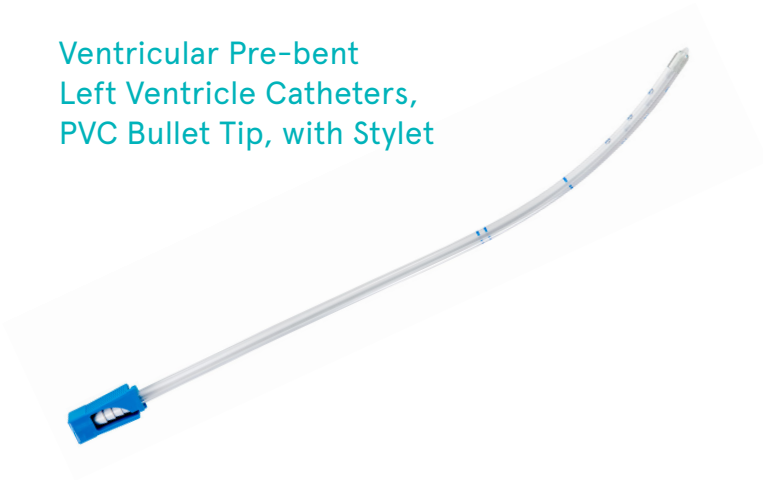
Ventricular Vent Catheters, PVC Bullet Tip, with Guidewire Stylet



CANNULA SIZE	CATALOG N°	TIP PERFORATION (CM)	CONNECTION SIZE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
16 Fr	VT-89416	5.5	1/4"	38.1	10	no
18 Fr	VT-89418	7.0	1/4"	38.1	10	no
20 Fr	VT-89420	7.0	1/4"	38.1	10	no

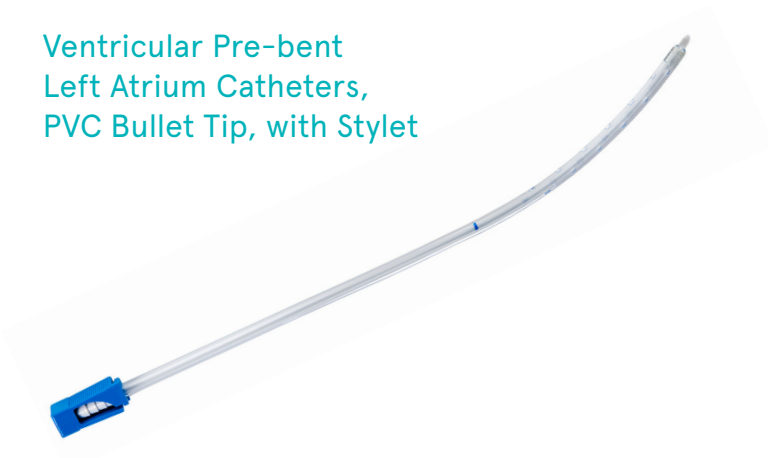
ADULT CANNULAE - VENTS

Ventricular Pre-bent
Left Ventricle Catheters,
PVC Bullet Tip, with Stylet



CANNULA SIZE	MODEL TUBING HARNESS 75 SH	MODEL TUBING HARNESS 87 SH	TIP PERFORATION (CM)	CONNECTION SIZE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
19 Fr	W410-62	W900-171	7.5	1/4"	30	10	Depends on Country Registration

Ventricular Pre-bent
Left Atrium Catheters,
PVC Bullet Tip, with Stylet



CANNULA SIZE	CATALOG N°	TIP PERFORATION (CM)	CONNECTION SIZE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
19 Fr	W420-62	11.5	1/4"	30	10	Depends on Country Registration

ADULT CANNULAE - VENTS

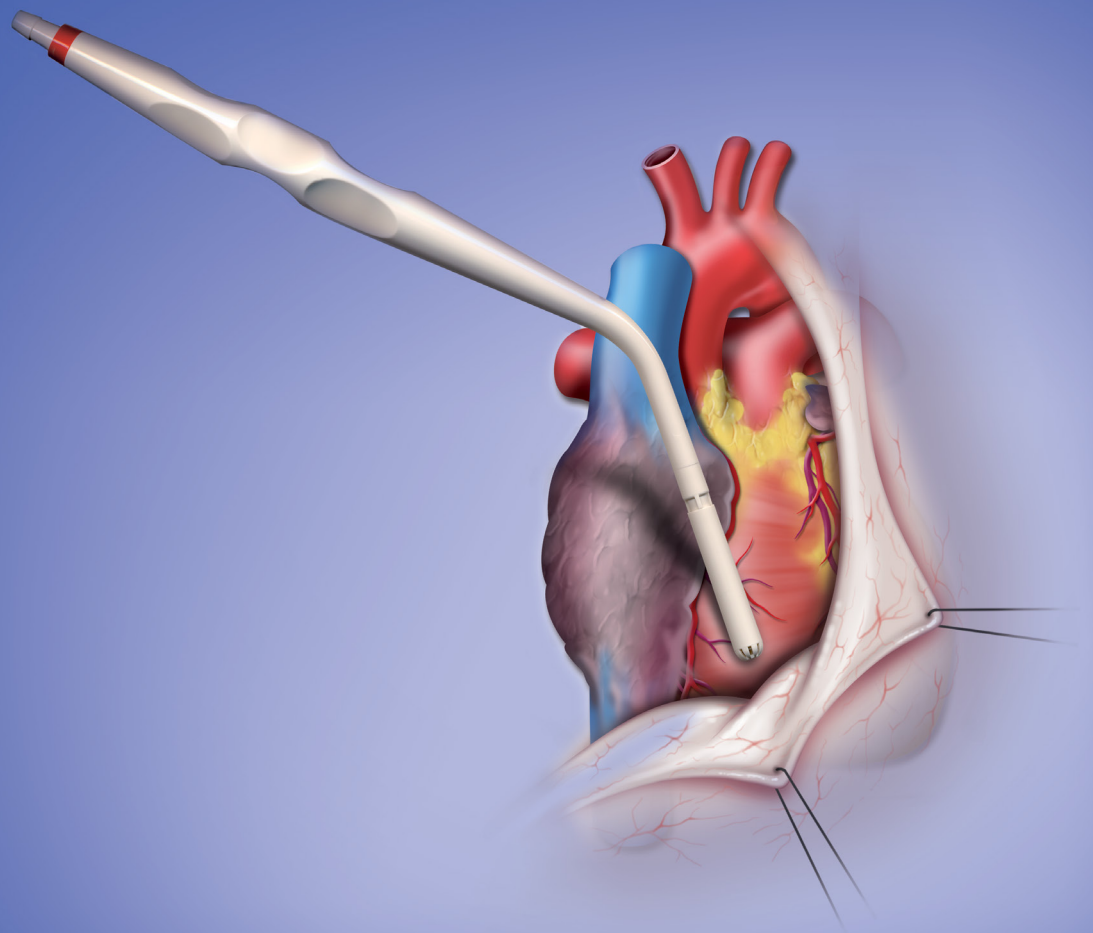
Aortic Root Aspirating Needle



MODEL	CATALOG N°	NEEDLE LENGTH (MM)	EFFECTIVE LENGTH (CM)	NEEDLE SIZE	QTY PER BOX	AVAILABLE COATED
Small	AX-30311	7	4.3	18 Ga	20	no
Standard	AX-30321	14	5.0	16 Ga	20	no

SUCTION PRODUCTS

LivaNova Adult Suction Products ensure better visualization of the surgical field and includes suction wands with rigid, flexible and low profile tips as well as a variety of intra-cardiac sumps, suckers and thoracic catheters.



Suction Wands

LivaNova Rigid- and Flex-Tip Suction Wands are intended to remove excess fluid from the surgical field. They are made of metal suction tubes with plastic handles.

The Low Profile Suction Wand has a malleable low-profile metal suction tube with a plastic handle, pre-attached tubing and clamp, and terminates with a slip-on 1/4" connector. Depending on country registration, an optional phospholipid coating may be available. Note on ordering: coated products have a "B" before their reference code. Please, contact your local sales representative.

Rigid Fluted Tip Suction Wand with Metal Shaft and Plastic Handle



CANNULA TIP SIZE	CATALOG N°	SLIP CONNECTOR	QTY PER BOX	AVAILABLE COATED
12.8 Fr	SU-10101	1/4"	10	no
21.7 Fr	SU-12202	1/4"	10	no

ADULT CANNULAE - SUCTION PRODUCTS

Rigid Fluted Tip Suction Wand with Plastic Handle



CANNULA TIP SIZE	CATALOG N°	BARBED CONNECTOR	QTY PER BOX	AVAILABLE COATED
21 Fr	S351-70	1/4"	10	Depends on Country Registration
21 Fr	S900-17 (2 pieces of S351-70 per package)	1/4"	10	Depends on Country Registration

Rigid Tip with No Block System Suction Wand with Plastic Handle



CANNULA TIP SIZE	CATALOG N°	BARBED CONNECTOR	QTY PER BOX	AVAILABLE COATED
24 Fr	S352-80	1/4"	10	Depends on Country Registration

ADULT CANNULAE - SUCTION PRODUCTS

Flex Tip Suction Wand with Metal Shaft and Plastic Handle



CANNULA TIP SIZE	CATALOG N°	SLIP CONNECTOR	QTY PER BOX	AVAILABLE COATED
Small	SU-14101	1/4"	10	no
Standard	SU-18202	1/4"	10	no

Low Profile Suction Wand



MODEL	CATALOG N°	SLIP CONNECTOR	QTY PER BOX	AVAILABLE COATED
Frazier Tip	SU-26702	1/4"	10	no
Soft Tip	SU-22702	1/4"	10	no

Sumps

LivaNova Suckers and Sumps are intended to remove excess fluid from the surgical field. They are available with flexible or malleable tubing.

ATRA Sump offers a unique, a-traumatic, weighted tip, designed with safety in mind.

Flexible and Malleable Sucker with Fluted Tip



CANNULA TIP SIZE	FLEXIBLE TUBING	MALLEABLE TUBING	CONNECTION SIZE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
20 Fr	SU-12402	SU-12502	1/4"	37	10	no

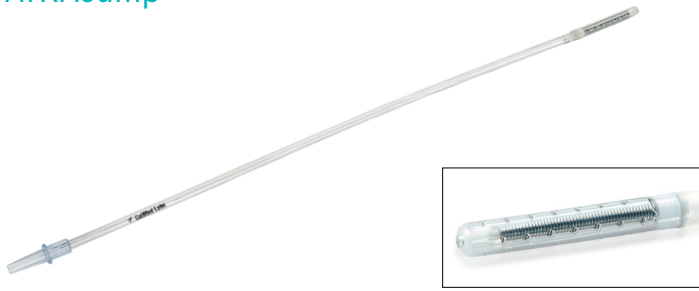
Flexible and Malleable Sump with Wire-wound Tip



MODEL	CATALOG N°	CONNECTION SIZE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
Flexible Tubing	SU-20601	1/8"	37	10	no
Flexible Tubing	SU-20602	1/4"	38	10	no
Malleable Tubing	SU-20802	1/4"	37	10	no

ADULT CANNULAE - SUCTION PRODUCTS

ATRASump™



MODEL	CATALOG N°	CONNECTION SIZE	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
Flexible Tubing	SU-29602	1/4"	38	10	no

ADULT CANNULAE - THORACIC CATHETERS

Thoracic Catheters, Straight



THORACIC CATHETERS, STRAIGHT
CATHETER LENGTH 20.4 IN / 52 CM

CATHETER SIZE	CATALOG NO.	DESCRIPTION	CONNECTOR ACCEPTANCE	DRAINAGE HOLES	LENGTH OF PERFORATION
12 Fr	TC-10112	Thoracic Catheter, Straight	3/16 in	4	2.0 in / 5.0 cm
16 Fr	TC-10116	Thoracic Catheter, Straight	1/4 in	4	2.5 in / 6.0 cm
20 Fr	TC-10120	Thoracic Catheter, Straight	1/4 in	5	3.0 in / 7.5 cm
24 Fr	TC-10124	Thoracic Catheter, Straight	1/4 in	5	3.0 in / 7.5 cm
28 Fr	TC-10128	Thoracic Catheter, Straight	3/8 in	6	4.5 in / 11.0 cm
32 Fr	TC-10132	Thoracic Catheter, Straight	3/8 in	6	4.7 in / 12.0 cm
36 Fr	TC-10136	Thoracic Catheter, Straight	3/8 in	6	5.0 in / 12.5 cm
40 Fr	TC-10140	Thoracic Catheter, Straight	1/2 in	6	5.0 in / 12.5 cm

Each catheter is individually packaged in a peel pack with 10 sterile catheters per box.

ADULT CANNULAE - THORACIC CATHETERS

Thoracic Catheters, Right Angle



THORACIC CATHETERS, RIGHT ANGLE
CATHETER LENGTH 20.4 IN / 52 CM

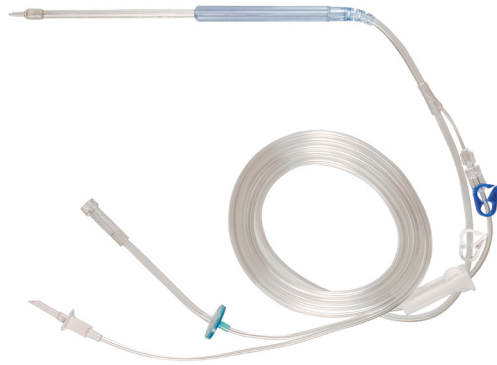
CATHETER SIZE	CATALOG NO.	DESCRIPTION	CONNECTOR ACCEPTANCE	DRAINAGE HOLES	LENGTH OF PERFORATION	RIGHT ANGLE LENGTH
12 Fr	TC-11112	Thoracic Catheter, Right Angle	3/16 in	4	2.0 in / 5.0 cm	3.4 in / 8.6 cm
16 Fr	TC-11116	Thoracic Catheter, Right Angle	1/4 in	4	2.5 in / 6.0 cm	3.7 in / 9.4 cm
20 Fr	TC-11120	Thoracic Catheter, Right Angle	1/4 in	5	3.0 in / 7.5 cm	4.0 in / 10 cm
24 Fr	TC-11124	Thoracic Catheter, Right Angle	1/4 in	5	3.0 in / 7.5 cm	4.0 in / 10 cm
28 Fr	TC-11128	Thoracic Catheter, Right Angle	3/8 in	6	4.5 in / 11.0 cm	6.0 in / 15.2 cm
32 Fr	TC-11132	Thoracic Catheter, Right Angle	3/8 in	6	4.7 in / 12.0 cm	6.3 in / 16 cm
36 Fr	TC-11136	Thoracic Catheter, Right Angle	3/8 in	6	5.0 in / 12.5 cm	6.5 in / 16.5 cm
40 Fr	TC-11140	Thoracic Catheter, Right Angle	1/2 in	6	5.0 in / 12.5 cm	6.5 in / 16.5 cm

Each Catheter is individually packaged in a peel pack with 10 sterile catheters per box.

Blower/Mister

LivaNova Blower/Mister, with a plastic malleable wand, is available with easy-grip plastic handle. The malleable plastic wand provides flexibility to position the Blower/Mister in the surgical field. The pre-assembled administration set facilitates rapid and effortless set-up.

Blower Mister



BLOWER/MISTER WITH HANDLE
CONNECTING TUBING LENGTH 120 IN / 300 CM

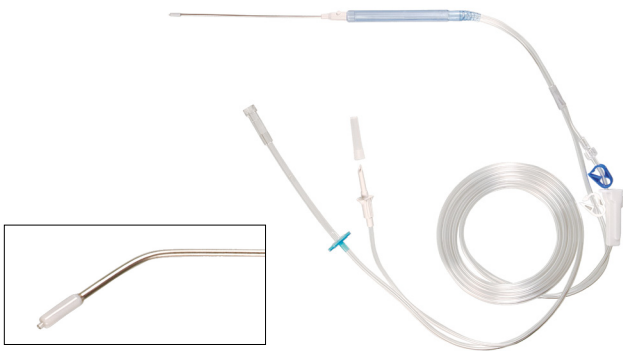
MODEL	CATALOG NO.	MALLEABLE SHAFT LENGTH
With Handle	MT-11210	5.5 in / 14 cm

Each Mister is individually packaged in a double peel pack with 5 sterile Blowers/Misters per box.

Blower/Mister II

LivaNova Blower/Mister II is available with an easy-grip plastic handle, and a malleable metal wand, which provide greater flexibility to position the Blower/Mister II in the surgical field. The pre-assembled administration set facilitates rapid and effortless set-up.

Blower/Mister II



BLOW/MISTER II
CONNECTING TUBING LENGTH 120 IN / 300 CM

CATALOG NO.

MALLEABLE SHAFT LENGTH

MT-22210

6 in / 15.2 cm

Each Mister is individually packaged in a double peel pack with 5 sterile blowers/misters per box.

ACCESSORIES

LivaNova Accessories include porous vent plugs, vented connector caps, rapid prime sets, tubing organizers, vasco loops, tourniquets and pressure monitor lines.

Porous Vent Plugs



POROUS VENT PLUGS

CATALOG NO.	SIZE
AX-10100	1/4 in
AX-10120	3/8 in

Each vent plug is individually packaged in a peel pack with 20 sterile vent plugs per box.

Vented Connector Cap



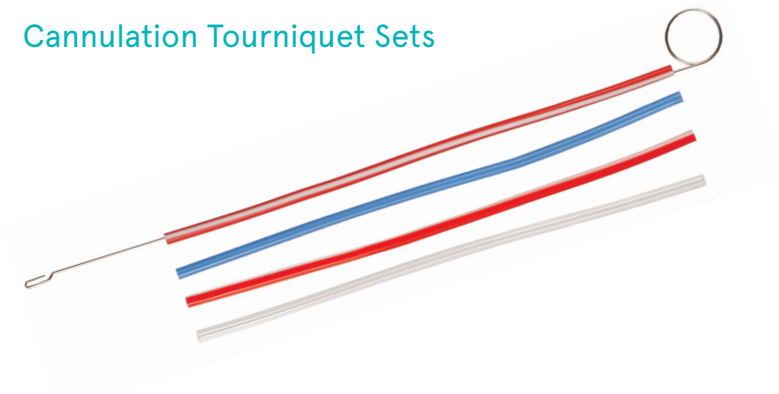
VENTED CONNECTOR CAP

CATALOG NO.	CONNECTOR ACCEPTANCE
AX-20510	3/8 in

Each cap is individually packaged in a peel pack with 20 sterile vent caps per box.

ADULT CANNULAE - ACCESSORIES

Cannulation Tourniquet Sets



CANNULATION TOURNIQUET SETS ALL TUBES WITH X-RAY DETECTABLE STRIPE

CATALOG NO.	DESCRIPTION	TUBE LENGTHS
TS-10130	One snare, six tubes: Two blue, one red and three clear tubes	5 in / 12.5 cm
TS-10262	Two snares, eight tubes: One red, two blue and five clear	5 in / 12.5 cm
TS-10010	One snare, two tubes: One red, one blue	7 in / 17.5 cm
TS-10066	One snare, three tubes: Three clear	7 in / 17.5 cm
TS-10020	One snare, five tubes: One blue, one red and three clear	7 in / 17.5 cm
TS-10061	Two snares, eight tubes: Two blue, two red and four clear	7 in / 17.5 cm
TS-10050	Two snares, eight tubes: Two blue, four red and two clear	7 in / 17.5 cm
TS-10040	One snare, five tubes: Five red	7 in / 17.5 cm

Each set is individually packaged in a peel pack with 20 sterile sets per box.

Vasco Loops



VASCO LOOPS

CATALOG NO.	DESCRIPTION	LENGTH	NEEDLE SIZE
SL-21118	Vasco loop with blunt needle	13.5 in / 34.5 cm	18 Ga

Each set contains 2 vasco loops, packaged in a peel pack with 30 sterile sets per box.

ADULT CANNULAE - ACCESSORIES

Pressure Monitoring Lines



MALE/MALE	MALE/FEMALE	LENGTH
AB1521	AB1520	30 cm
AB1519	AB1504	185 cm
AB1518	AB1517	215 cm

Each monitoring line is provided with vented connector caps and individually packaged in a peel pack with 20 sterile monitoring lines per box.

Rapid Prime Sets



CATALOG N°	DESCRIPTION	TOTAL LENGTH
AB1534	Rapid Prime Set with rotating male luer adapter	40 cm
AB1533	Rapid Prime Set without rotating male luer adapter	35 cm

Tubing Organizer



CATALOG NO.	DESCRIPTION	AVAILABLE TUBING SLOTS
C21120	Perfusion Tubing Organizer	For 10 Tubes: 1 ea 3/16, 6 ea 1/4, 2 ea 3/8, 1 ea 1/2

Each organizer is individually packaged.

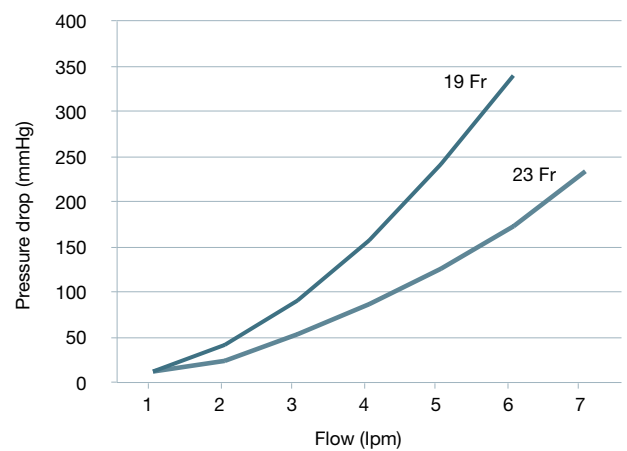
MINIMALLY INVASIVE CARDIAC SURGERY CANNULAE

LivaNova Adult Minimally Invasive Cardiac Surgery Cannulae are specifically designed to meet diverse minimally invasive and femoral approaches in adult patients where ease of insertion, better surgical view and good hemodynamics are paramount for improving patient outcomes.

Easy Flow Arterial Cannulae

LivaNova Easy Flow Arterial Cannulae are designed for safe and reproducible direct aortic cannulation, with a malleable stylet able to help cannula introduction through lateral thoracotomy. The configuration of the dispersion tip reduces shear stress on the aortic wall and risks of aortic plaque dislodgment. Available in the femoral configuration with a dedicated kit for Seldinger insertion.

Easy Flow Arterial Cannula

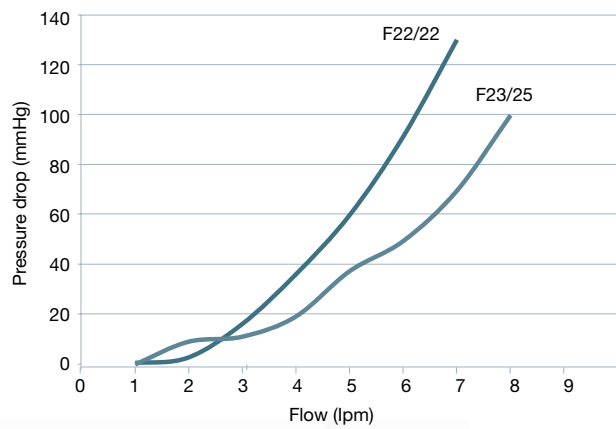


REFERENCE NUMBER	OUTER DIAMETER (FR)	OUTER DIAMETER (MM)	EFFECTIVE LENGTH (CM)	TIP	CONNECTION SIZE	QTY PER BOX	AVAILABLE COATED
103-200	19 Fr	6.3	40.75	Dispersion Flow	3/8" barbed connector	5	no
103-300	23 Fr	7.7	40.75	Dispersion Flow	3/8" barbed connector	5	no

RAP Femoral Venous Cannulae

LivaNova RAP Femoral Venous Cannulae are designed for improved venous drainage, with a dual stage tip which drains from superior and inferior vena cava. Available in two sizes 22/22 Fr and 23/25 Fr with full-flow drainage capability. A high-quality soft introducer features a smooth transition of the cannula to improve insertion and reduce vascular damage.

RAP FV Femoral Venous Cannulae

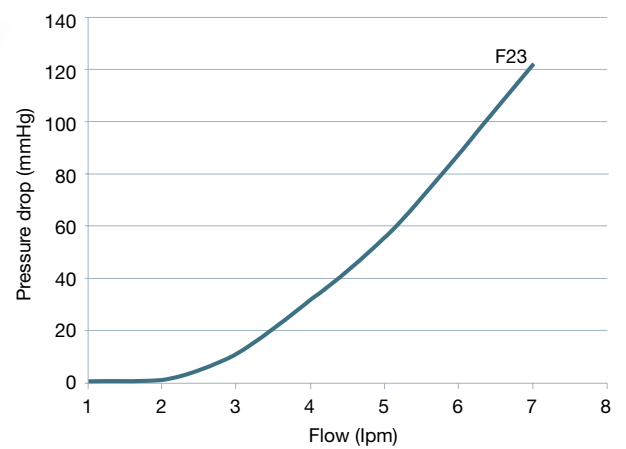


CATALOG N°	OUTER DIAMETER (FR)	OUTER DIAMETER (MM)	EFFECTIVE LENGTH (CM)	CONNECTION SIZE	QTY PER BOX	AVAILABLE COATED
200-100	22 Fr. Distal / 22 Fr. Proximal	7.3 / 7.3	68.7	3/8" and 1/2"	5	no
200-150	23 Fr. Distal / 25 Fr. Proximal	7.7 / 8.3	72.5	3/8" and 1/2"	5	no

FlexFlow Venous Cannulae

LivaNova FlexFlow Venous Cannulae is a minimally invasive venous cannula with integrated obturator and malleable stylet designed for direct right atrium cannulation. The 6 cm holed area and the thin wire-reinforced tubing wall design provide high flow rates when using vacuum assisted venous drainage.

FlexFlow Venous Cannula

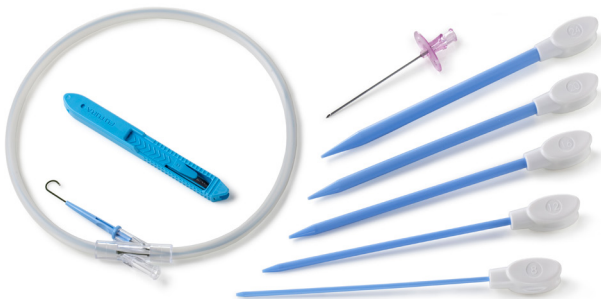


CATALOG N°	OUTER DIAMETER (FR)	OUTER DIAMETER (MM)	EFFECTIVE LENGTH (CM)	SIDE HOLES	CONNECTION SIZE	QTY PER BOX	AVAILABLE COATED
200-200	23 Fr	7.7	41	yes	3/8"	5	no

Vascular Dilator Kit

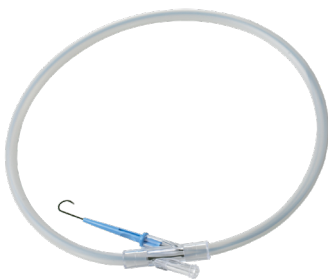
LivaNova Vascular Dilator Kit, for percutaneous cannulation technique, includes an 18 Gauge needle, a 0.035 x 180 cm guidewire, a blade scalpel and 8,12,16,20 and 24 Fr dilators.

Vascular Dilator Kit



CATALOG N°	DILATOR'S DIAMETER (FR)	SCALPEL	GUIDEWIRE	NEEDLE	QTY PER BOX
200-120	8, 12, 16, 20, 24 Fr	yes	0.035" x 180 cm	18 Ga	1

Stand-Alone Guidewire



CATALOG N°	DIAMETER (IN)	EFFECTIVE LENGTH (CM)	QTY PER BOX
IQ35F180J6F	0.035	180.0	10

Percutaneous Cannulae Insertion Kit (Seldinger Technique)



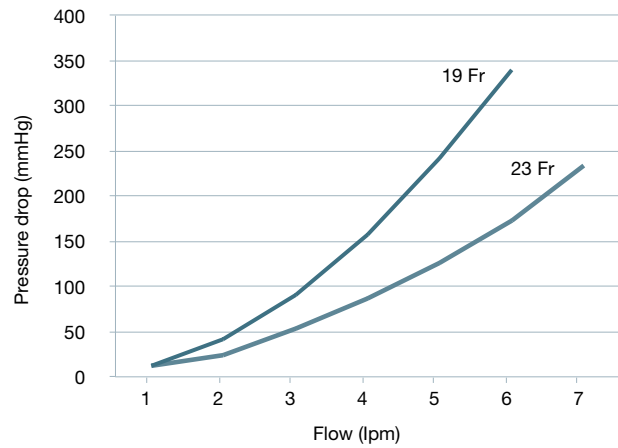
LivaNova Percutaneous Cannulae Insertion Kit, for percutaneous cannulation technique, includes an 18 Gauge needle, a 0.035"guide-wire, a blade scalpel, a syringe and 8,12,14, 18 and 20 Fr dilators.

CATALOG N°	DESCRIPTION	DILATORS
HD9370201	Kit Seldinger arterial 70 cm guidewire	8, 12, 14, 18, 20 Fr
HD9370202	Kit Seldinger venous 150cm guidewire	8, 12, 14, 18, 20 Fr

Easy Flow DUO Femoral Arterial Cannulae

LivaNova Easy Flow DUO Femoral Arterial Cannulae feature a dispersion tip for gentle flow in the femoral artery. The obturator allows bloodless insertion in the arterial vessel. Available in the femoral configuration with a dedicated kit for Seldinger insertion. Validated also for venous drainage support.

Easy Flow DUO Arterial Femoral Cannula



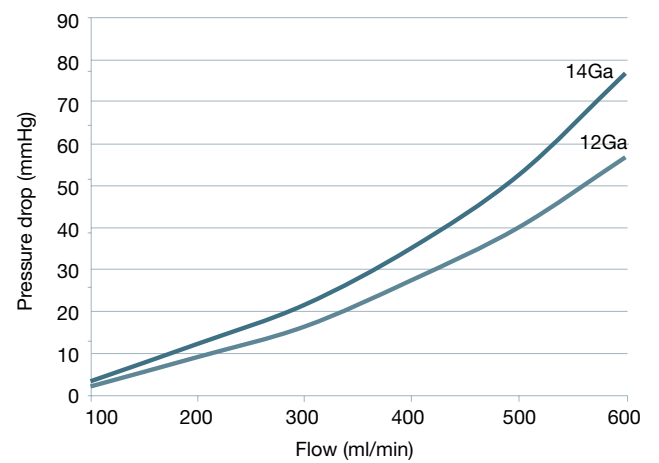
REFERENCE NUMBER	OUTER DIAMETER (FR)	OUTER DIAMETER (MM)	EFFECTIVE LENGTH (CM)	TIP	CONNECTION SIZE	SELDINGER KIT	QTY PER BOX	AVAILABLE COATED
103-210	19 Fr	6.3	40.75	Dispersion Flow	3/8"	yes	5	no
103-310	23 Fr	7.7	40.75	Dispersion Flow	3/8"	yes	5	no

- Kit includes:
- 18 gauge needle
 - Blade scalpel
 - 0.035 x 100 cm guidewire
 - Dilators: 12 Fr. and 20 Fr.

Aortic Root Long Needle

LivaNova Aortic Root Long Needle is specifically designed for minimally invasive cardiac surgery in lateral thoracotomy, especially mitral valve procedures. It's longer than a conventional aortic root (35 cm) which allows it to be positioned in lateral thoracotomy.

Aortic Root Long Needle



CANNULA TIP OUTER DIAMETER	INSERTION NEEDLE	CATALOG N°	EFFECTIVE LENGTH (CM)	QTY PER BOX	AVAILABLE COATED
12 Ga (9 Fr)	14 Ga - Green	AR-17012	35	10	no
14 Ga (7 Fr)	16 Ga - White	AR-17014	35	10	no

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www.livanova.com



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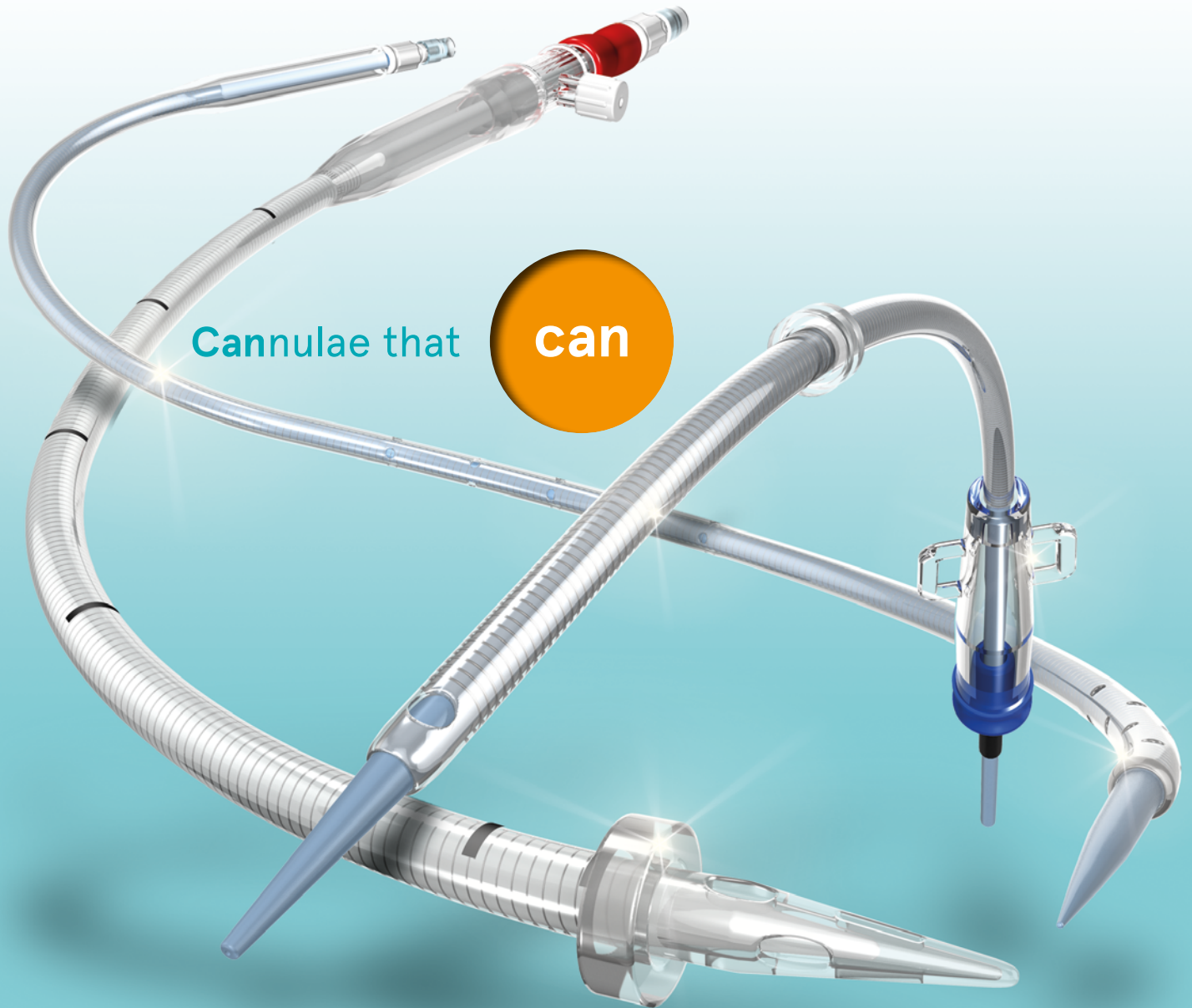
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09295-145 F



MICS & FEMORAL CANNULAE



Cannulae that

can

High performance cannulae for direct and femoral cannulation, either in conventional or minimally invasive cardiac surgery



1. Pfeiffer et al. *Interactive Cardiovascular and Thoracic Surgery* 2015; 20:863-5

MICS and Femoral Cannulae

High performance cannulae specifically developed to meet diverse minimally invasive and femoral approaches where ease of insertion, clear surgical view and good hemodynamics are paramount for improving patient outcomes.

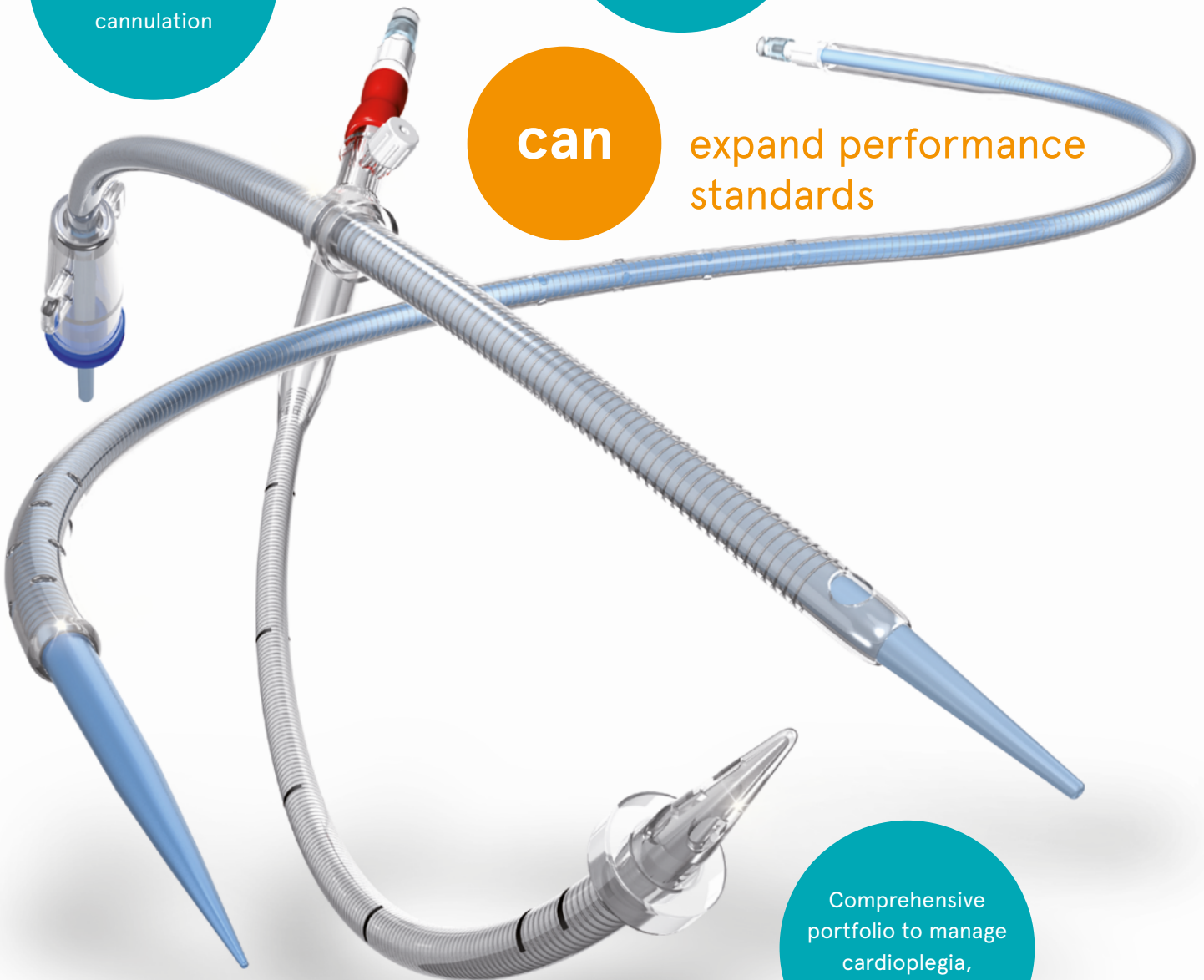
Easy and bloodless,
direct or
femoral, arterial
cannulation

High venous
drainage through
both direct and
femoral access

can

expand performance
standards

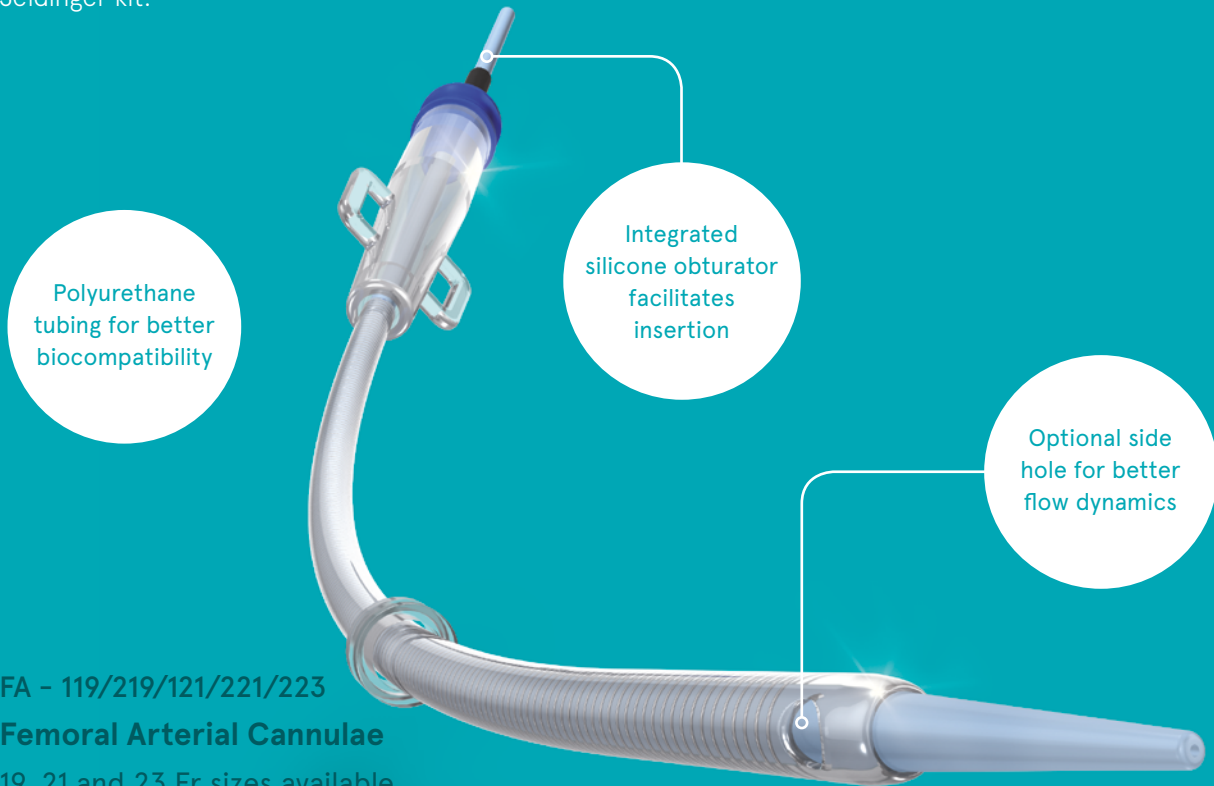
Comprehensive
portfolio to manage
cardioplegia,
venting and suction



Femoral Arterial Cannulae

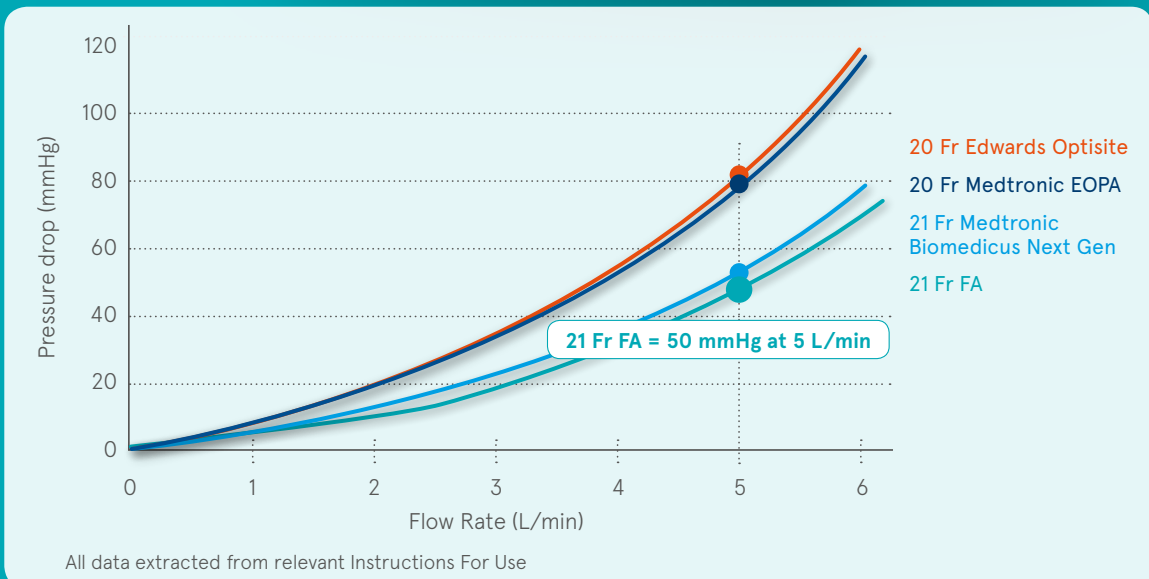
The Femoral Arterial Cannulae feature a closely wound, thin walled, flat wire-reinforced polyurethane tubing with movable suture ring for secure fixation and optional side holes for lateral dispersion.

Tube wall thickness has been reduced to a minimum to obtain the highest flow with the smallest anatomical footprint. These cannulae can be inserted either surgically or percutaneously, with the use of the dedicated Seldinger kit.



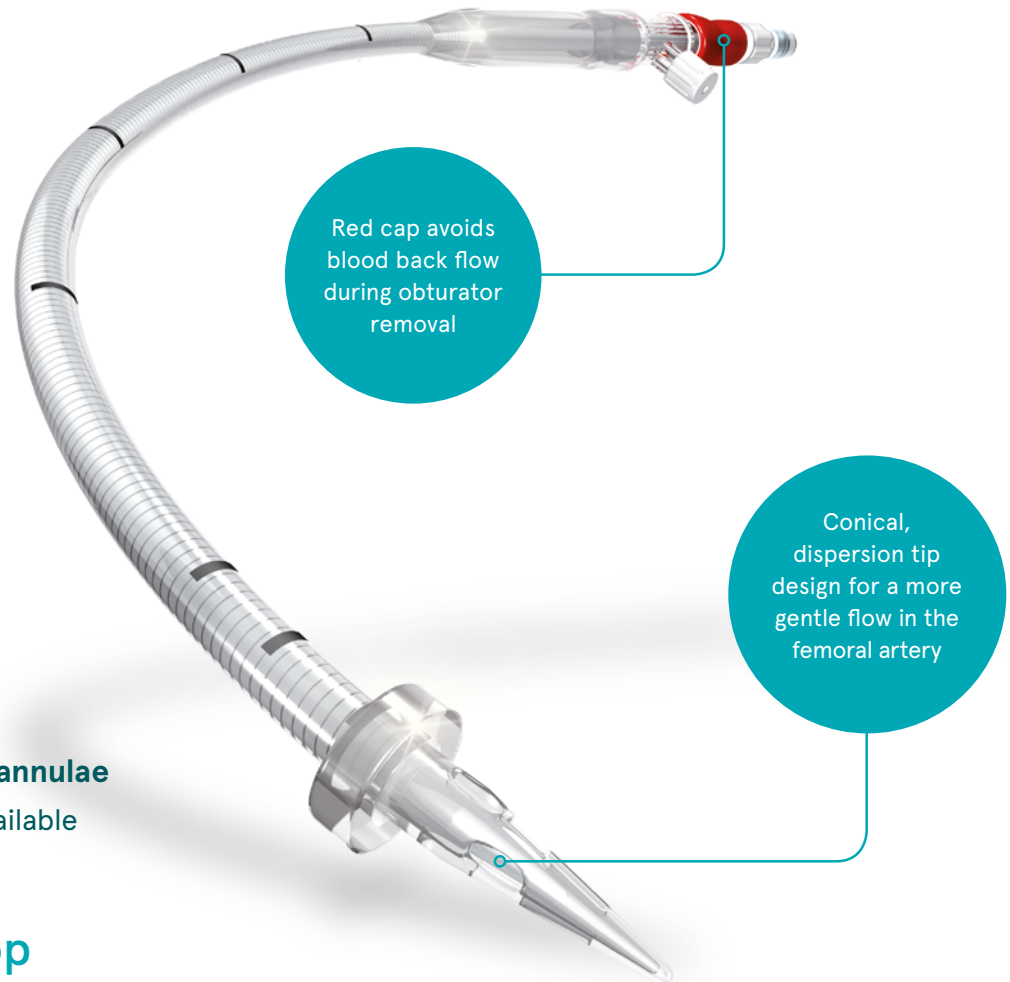
FA - 119/219/121/221/223
Femoral Arterial Cannulae
19, 21 and 23 Fr sizes available

Pressure Drop



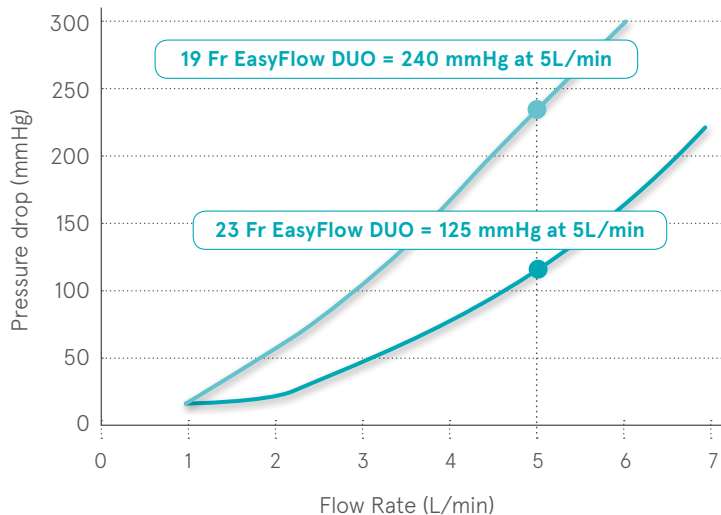
EasyFlow DUO Cannulae

The EasyFlow DUO is a femoral arterial cannula featuring a dispersion tip for a more gentle flow in the femoral artery. The obturator allows bloodless insertion in the arterial vessel. EasyFlow DUO is provided with a dedicated Seldinger kit for percutaneous cannula insertion.



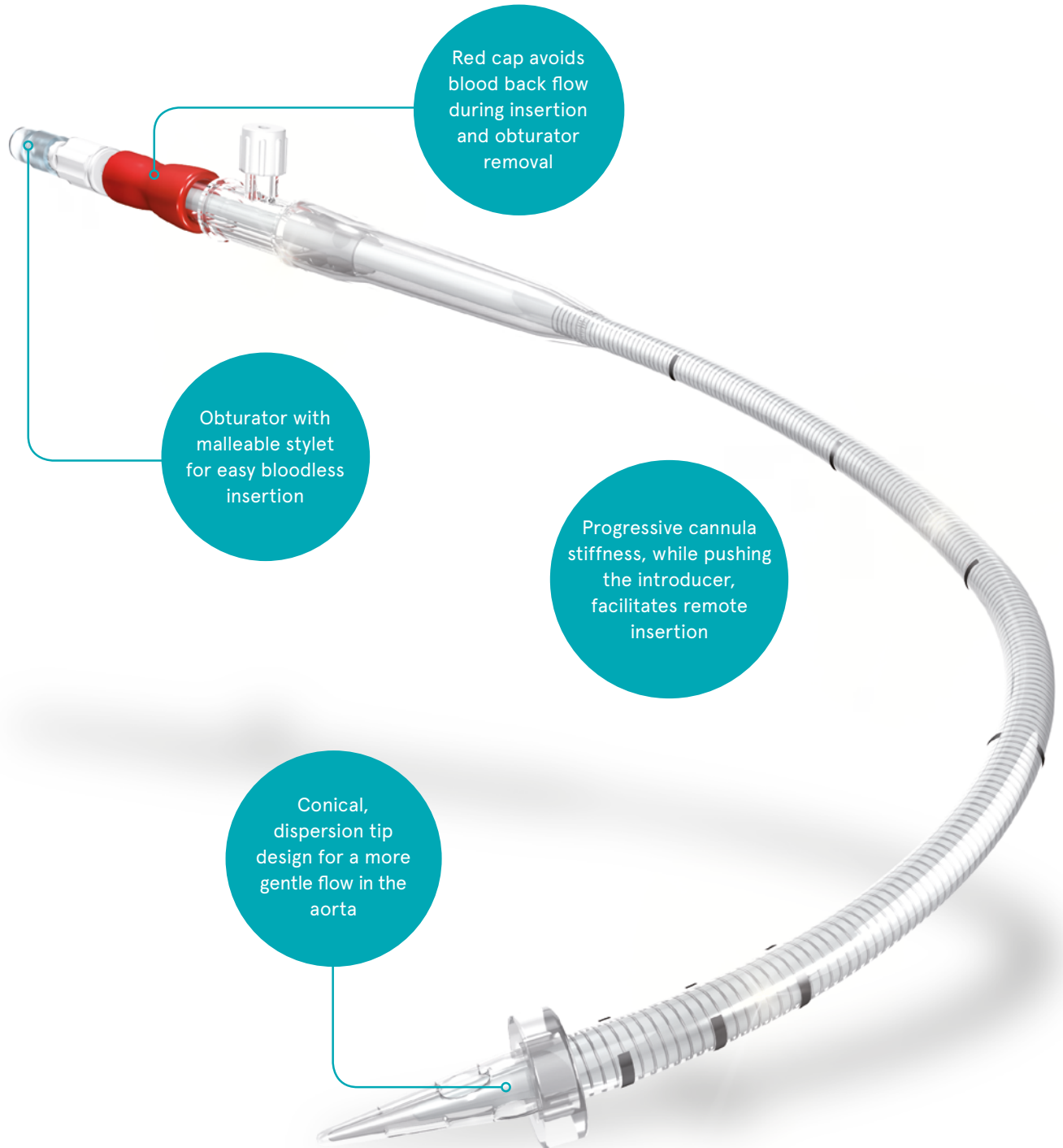
103-210/103-310
EasyFlow DUO
Femoral Arterial Cannulae
 19 and 23 Fr sizes available

Pressure Drop



EasyFlow Cannulae

The EasyFlow Cannula is designed for safe, reproducible direct aortic cannulation and features a multiple outlet port tip for diffused flow dynamics and a malleable stylet to aid introduction via lateral thoracotomy.



103-200/103-300

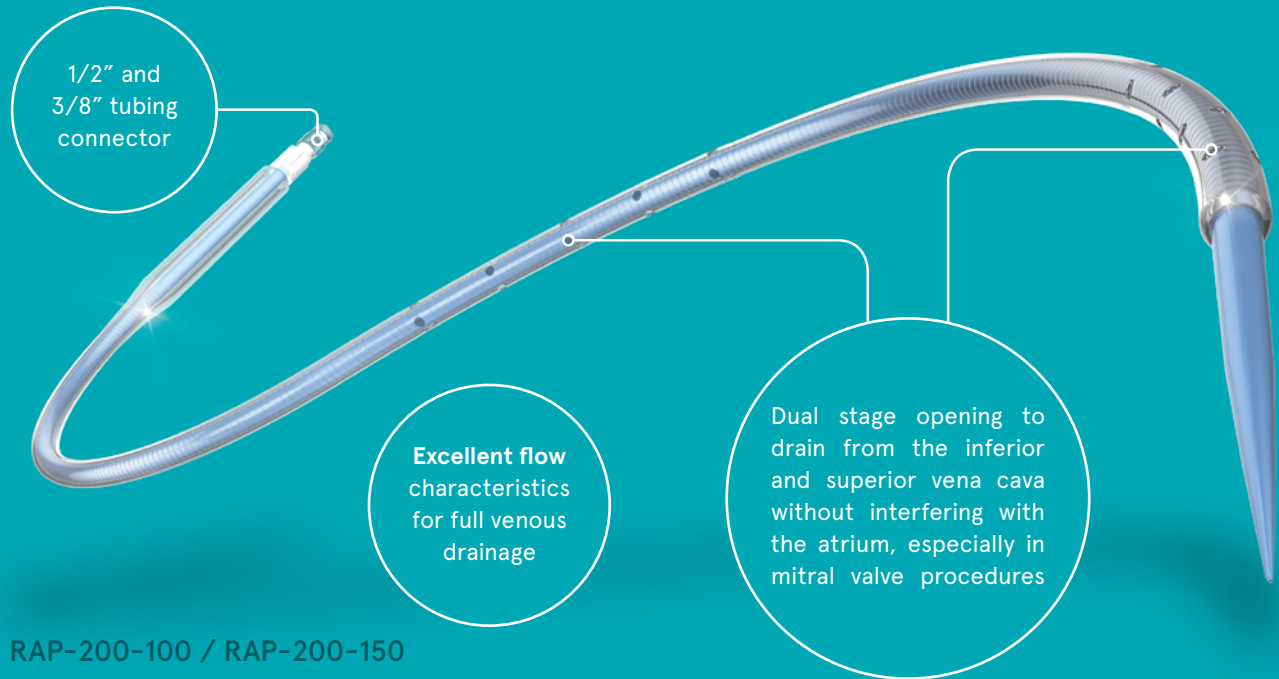
**EasyFlow
Arterial Cannulae**

19 and 23 Fr sizes available to cover all patients

RAP Cannulae

Dual stage venous femoral cannulae, designed to drain from superior and inferior vena cava, available in sizes 22/22 Fr and 23/25 Fr, with full flow drainage capability. A high quality soft introducer features a smooth transition to the cannula to improve insertion and reduce vascular damage.

Available for percutaneous insertion via Seldinger technique.

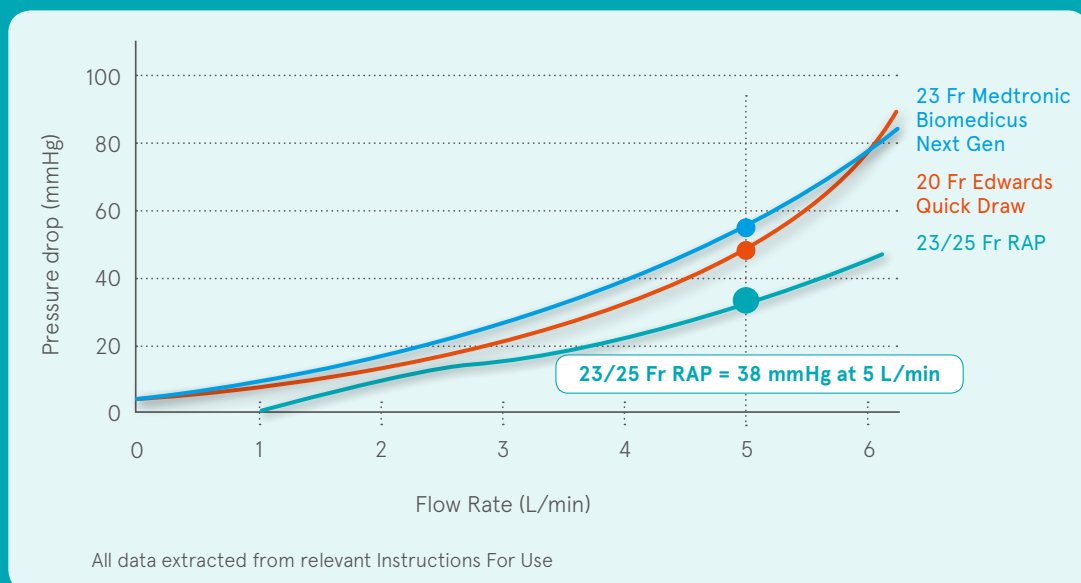


RAP-200-100 / RAP-200-150

Femoral Venous Cannulae

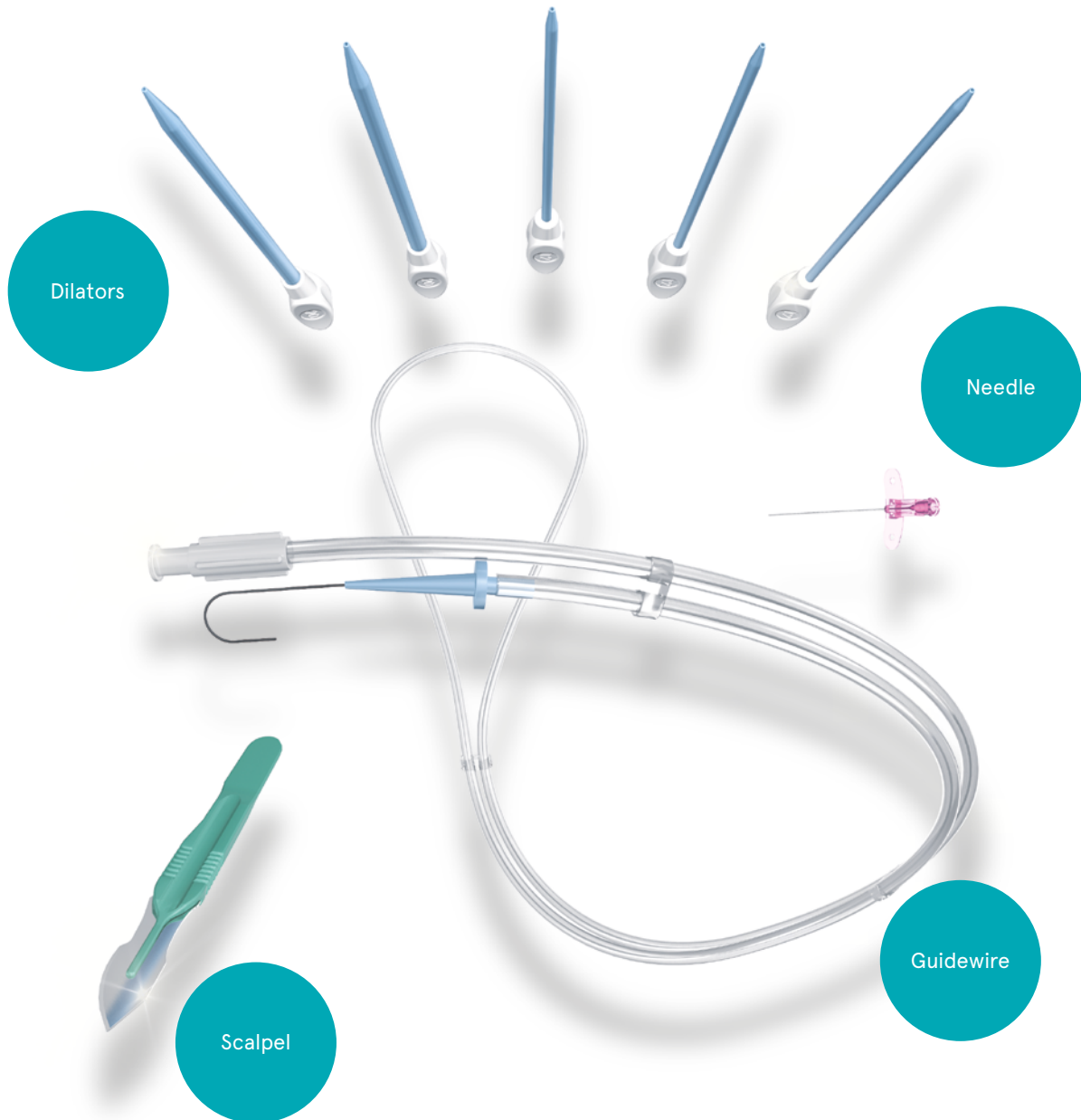
22/22 and 23/25 Fr sizes available

Pressure Drop



Vascular Dilator Kit

The dedicated Vascular Dilator Kit includes an 18 Gauge needle, a 0.035 x 180 cm guidewire, a blade scalpel as well as 8, 12, 16, 20 and 24 Fr dilators.



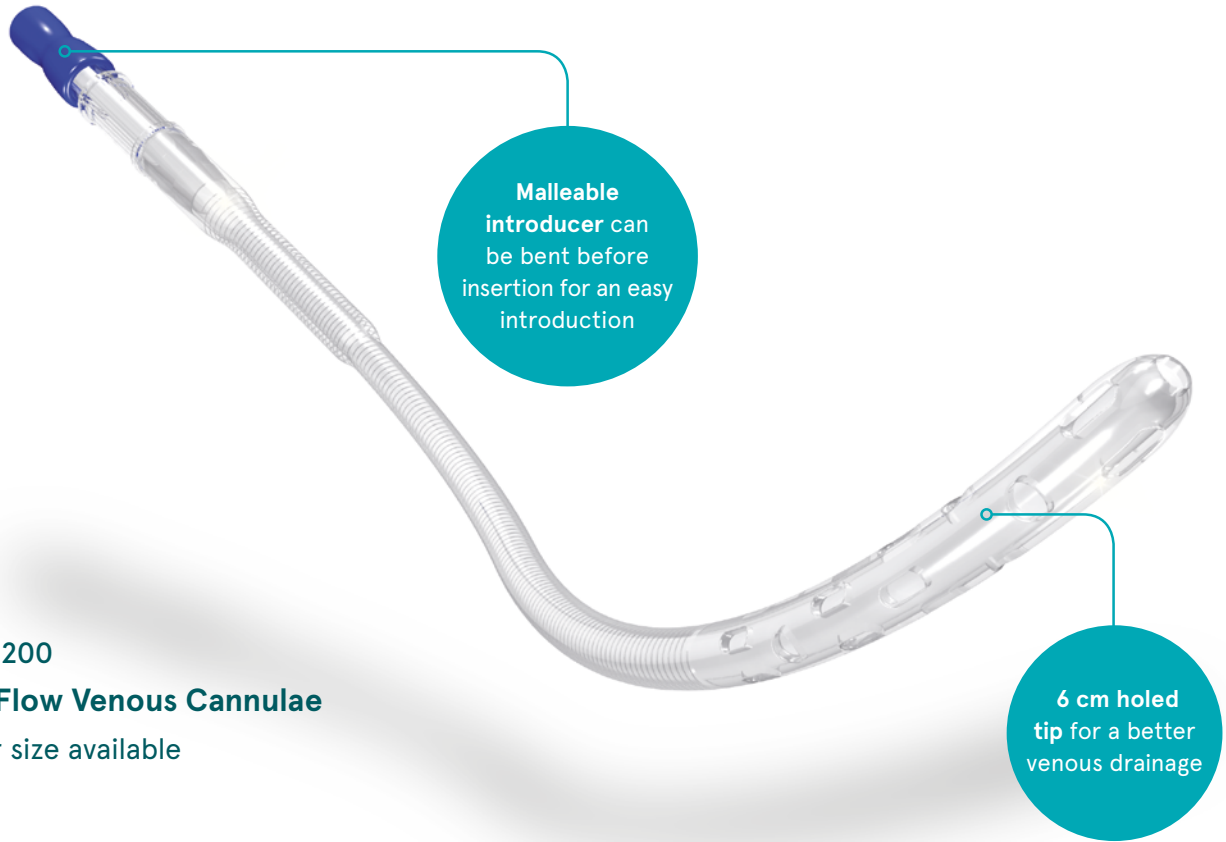
200-120

Vascular Dilator Kit

Includes 8, 12, 16, 20 and 24 Fr dilators

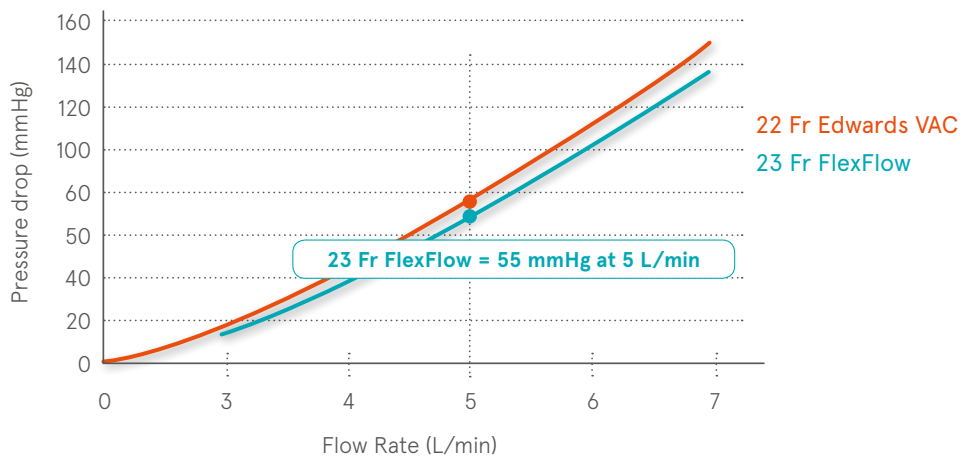
FlexFlow Venous Cannula

FlexFlow is a minimally invasive venous cannula with integrated obturator and malleable stylet designed for direct atrial cannulation. The 6 cm holed area and thin wire-reinforced tubing wall design provide high flow rates when using vacuum assisted venous drainage.



200-200
FlexFlow Venous Cannulae
23 Fr size available

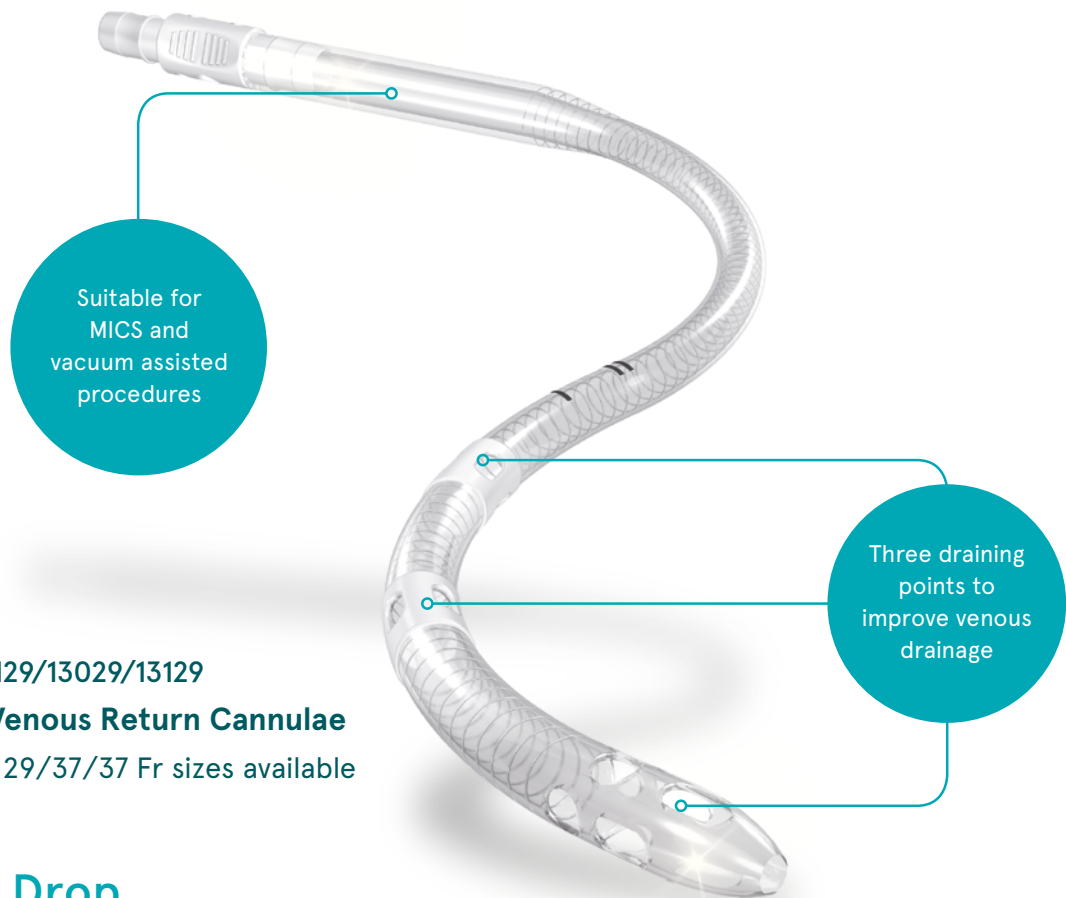
Pressure Drop



All data extracted from relevant Instructions For Use

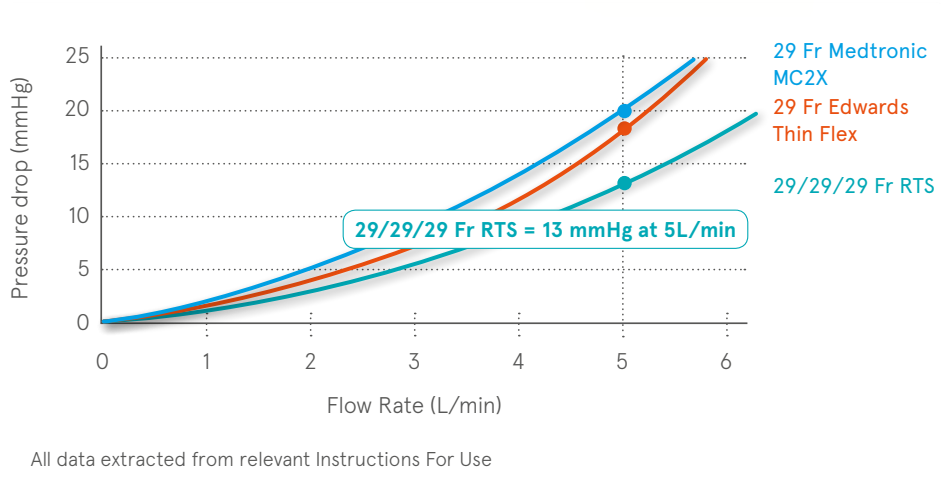
Triple Stage Venous Cannulae

The Triple Stage Venous Cannulae feature an open lighthouse tip for atraumatic insertion and three points of drainage for improved hemodynamics. The small, compact design guarantees optimal surgical view particularly in minimally invasive procedures.



RTS - 11029/11129/13029/13129
Triple Stage Venous Return Cannulae
 29/29/29 and 29/37/37 Fr sizes available

Pressure Drop

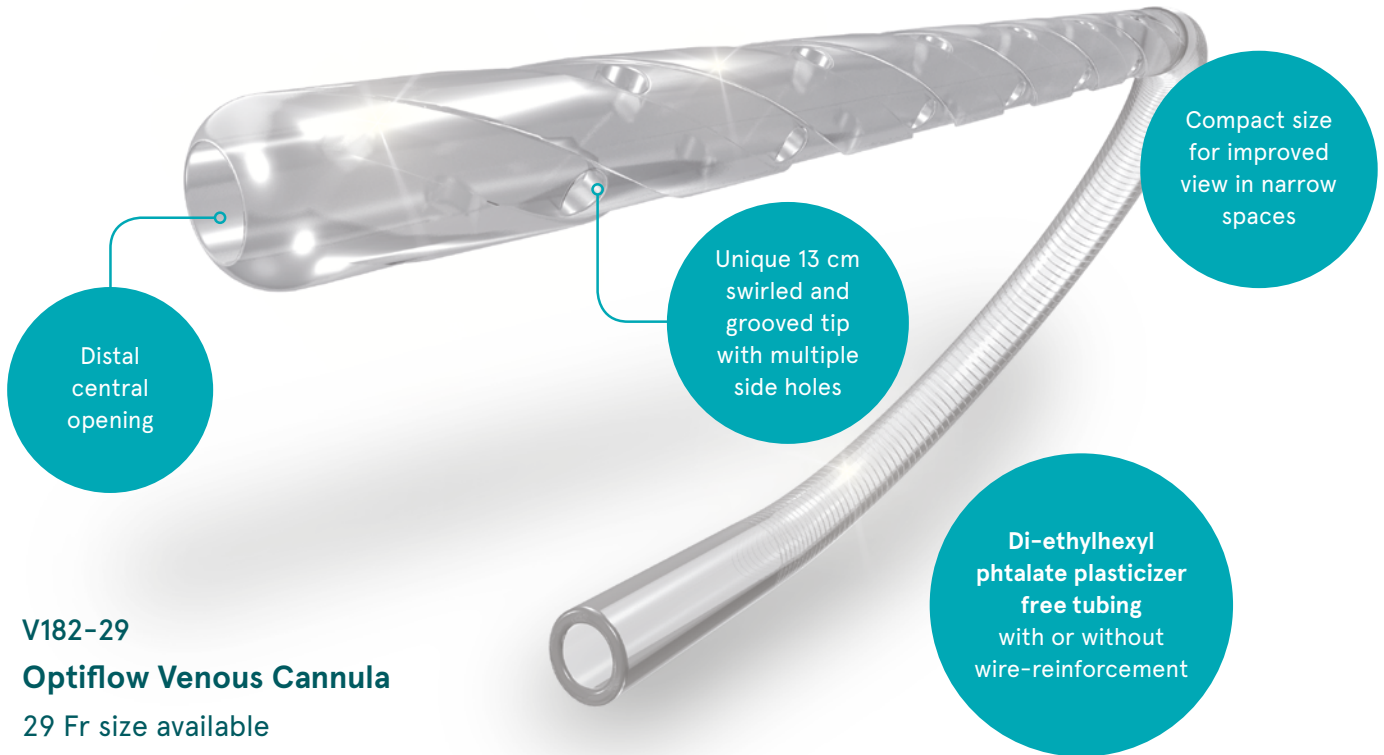


Optiflow Venous Cannula

The Optiflow Venous cannula features a special swirled tip design with multiple side holes that facilitate active and physiological venous drainage regardless of the position of the heart.

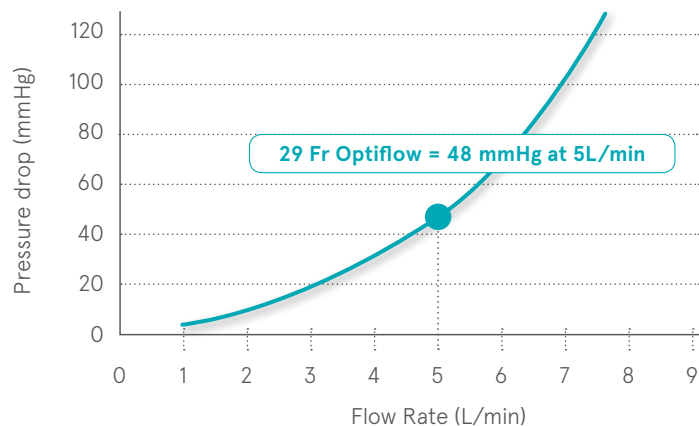
This cannula is more compact than a standard cannula which makes it easier to insert and remove while improving the surgical view, especially in minimally invasive procedures.

The special tip can help reduce patient complications often associated with femoral venous cannulation, such as deep wounds and high bleeding.¹



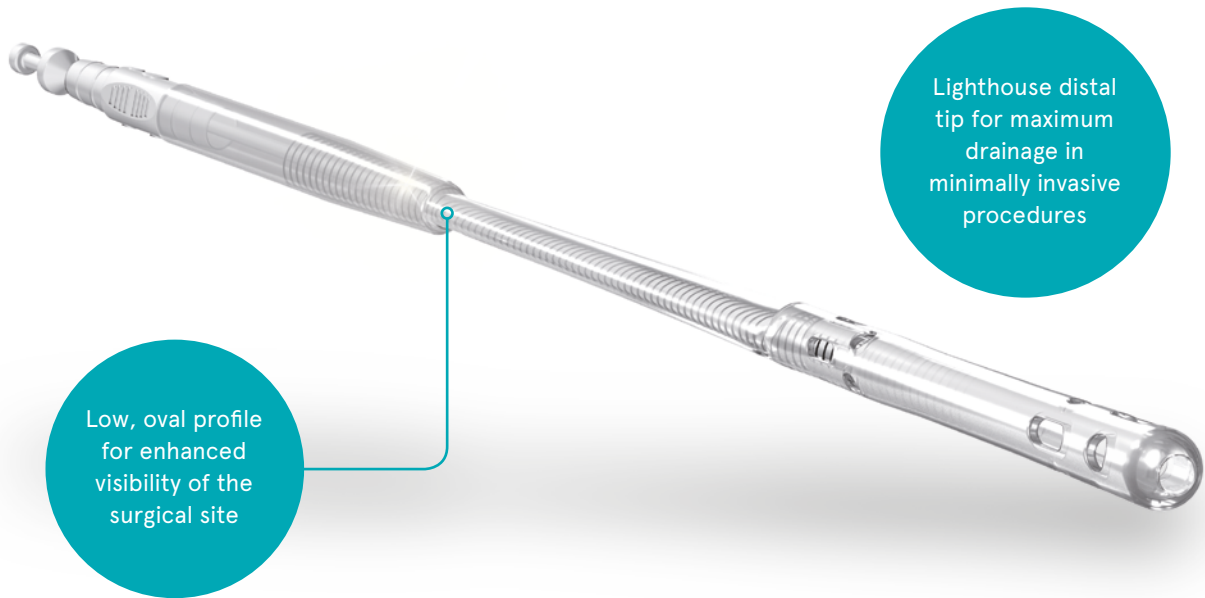
V182-29
Optiflow Venous Cannula
 29 Fr size available

Pressure Drop



Low Profile Venous Cannulae

The Low Profile Venous Cannula is a one-piece constructed, wire reinforced dual-stage venous return cannula with a lighthouse distal tip for maximum drainage in minimally invasive procedures. It has a low, oval profile which allows better visibility of the surgical site and can be easily flexed with very gentle force for easy manipulation.

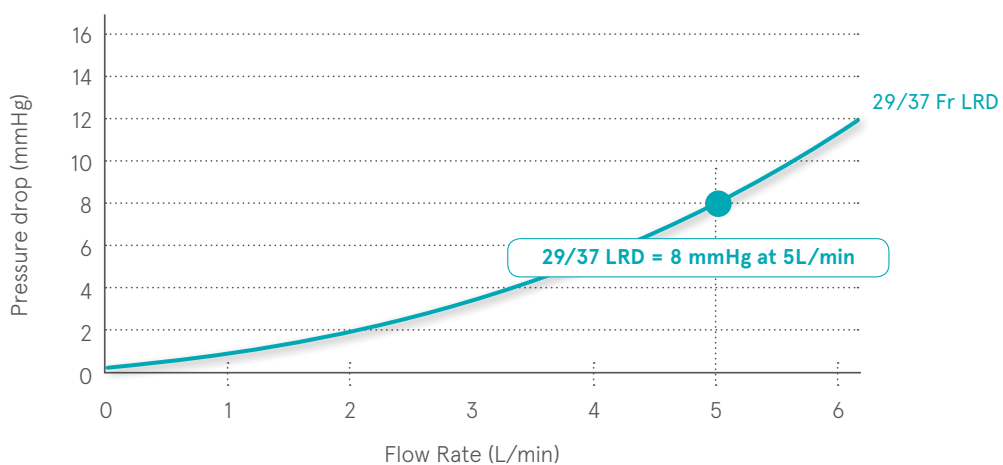


LRD Family

Low Profile Venous Cannulae

29, 32, 34, 36 Fr sizes available

Pressure Drop



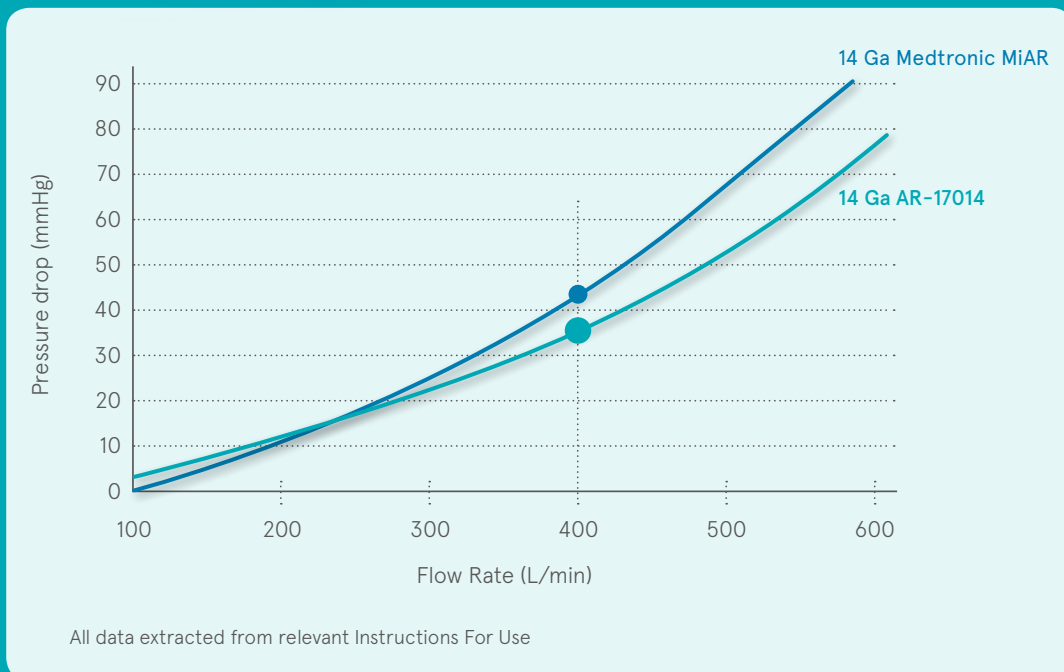
Aortic Root Long Needle

The Aortic Root Long Needle has been specifically designed for minimally invasive cardiac surgery in lateral thoracotomy, especially mitral valve procedures. It is longer than a conventional aortic root (35 cm) which allows it to be positioned in lateral thoracotomy.



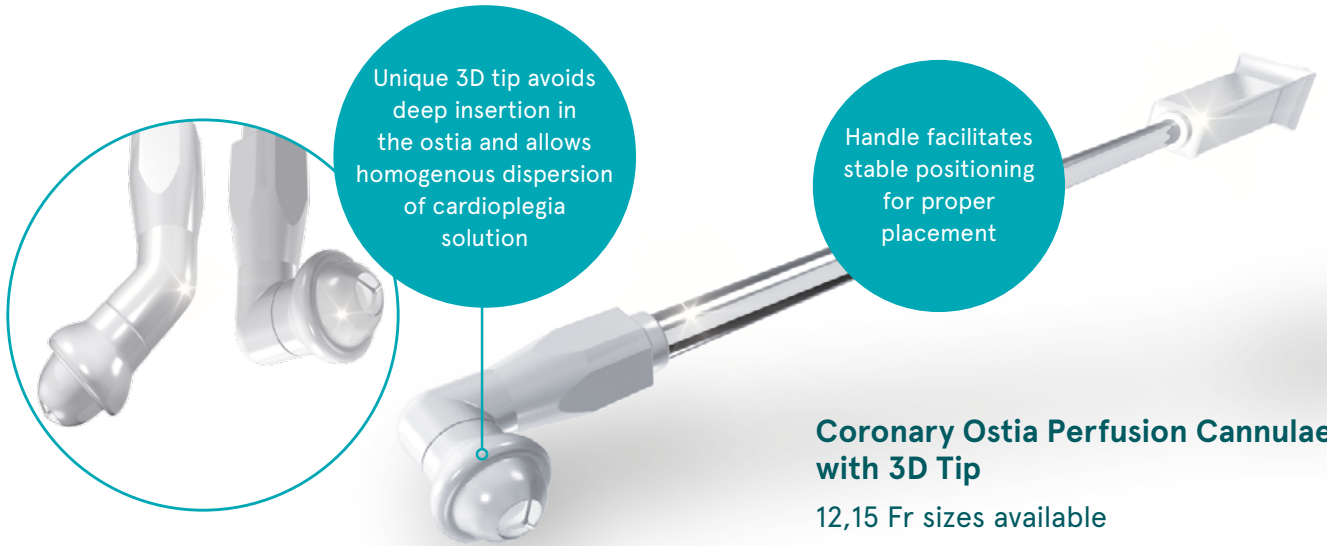
AR-17012 / AR-17014
Aortic Root Long Needle
12, 14 Ga sizes available

Pressure Drop

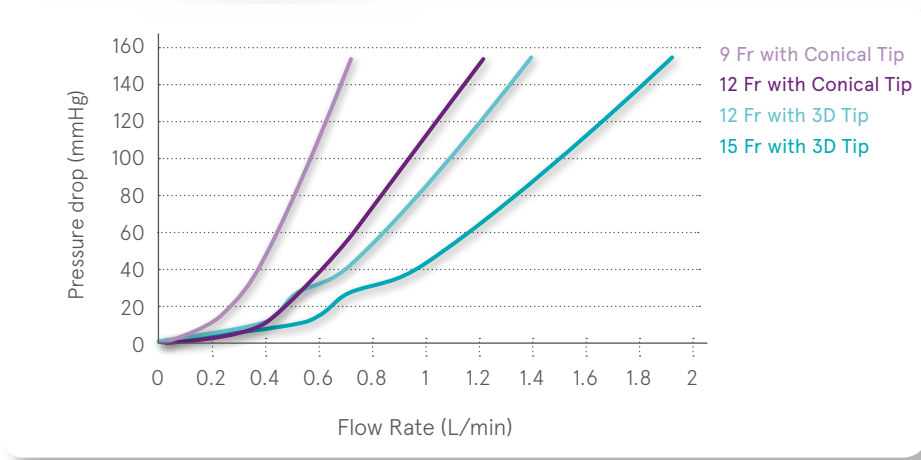


Coronary Ostia Perfusion Cannulae with 3D Tip

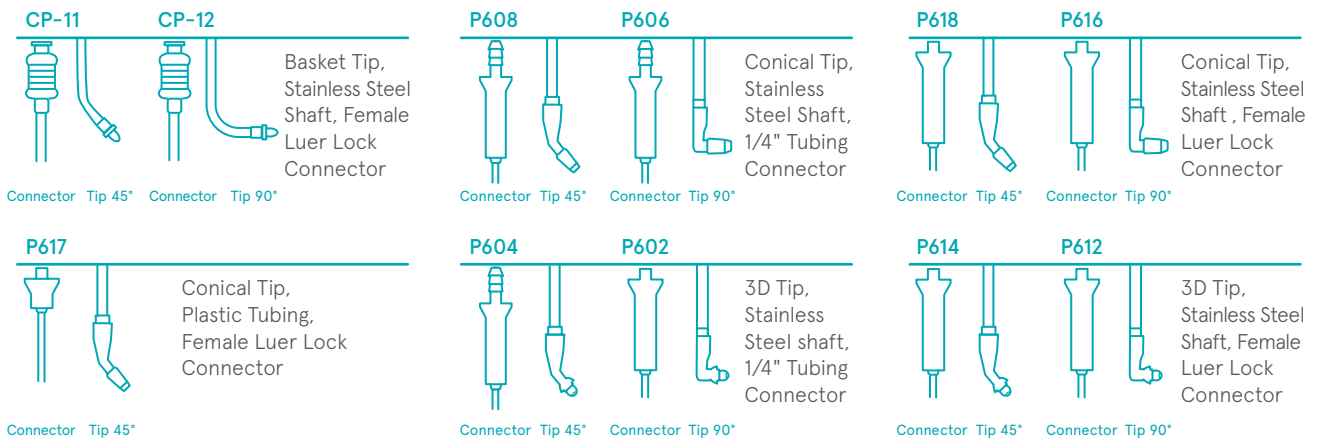
Coronary Ostia Perfusion Cannulae with 3D tip and stainless steel shaft. The unique 3D tip is angled at 45° or 90° to easily reach the right and left ostia and ensures homogeneous perfusion of the cardioplegia solution in the coronary path. Also available with female luer connector and with conical or basket tips.



Pressure Drop



Available Configurations

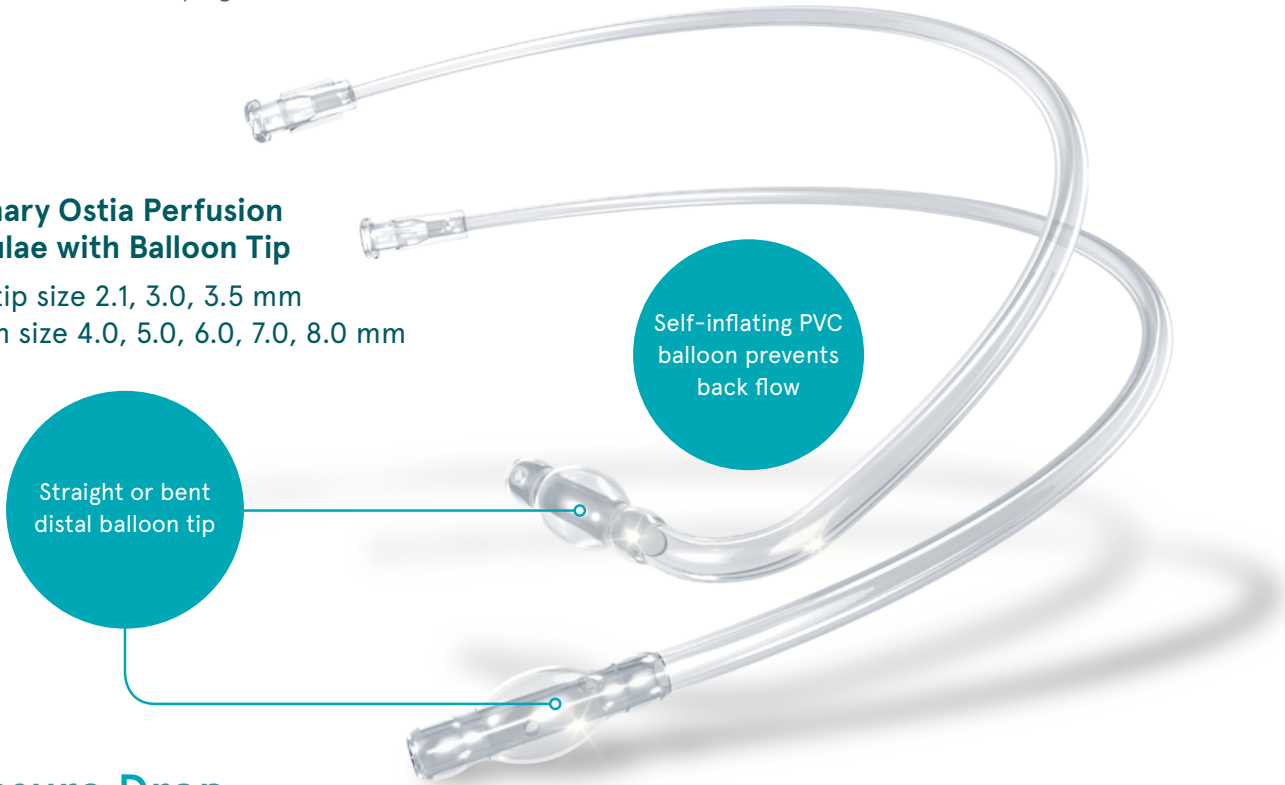


Coronary Ostia Perfusion Cannulae with Balloon Tip

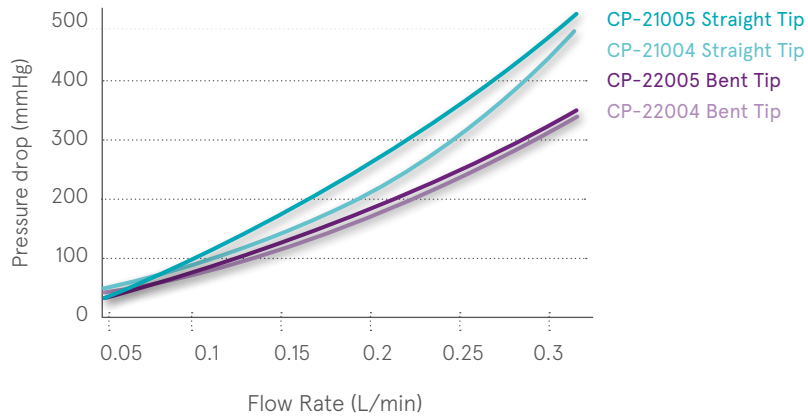
Coronary Ostia Perfusion Cannulae with balloon tip, plastic tubing and female lure lock connector. The flexible, plastic tubing terminates with a self-inflating PVC balloon designed to occlude the coronary ostia and prevents any back flow of cardioplegia solution.

Coronary Ostia Perfusion Cannulae with Balloon Tip

Distal tip size 2.1, 3.0, 3.5 mm
Balloon size 4.0, 5.0, 6.0, 7.0, 8.0 mm

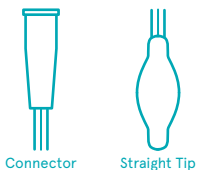


Pressure Drop



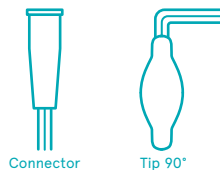
Available Configurations

CP-21



Straight Tip Plastic Tubing and Female Luer Lock Connector

CP-22



Bent Tip Plastic Tubing and Female Luer Lock Connector

Retrograde Cardioplegia Cannulae

Retrograde Cardioplegia Cannulae are available with either a self-inflating PVC balloon, or a manual-inflating silicone balloon. Balloons are bonded with a unique method that provides a smooth transition to the body of the cannula. Both cannulae are available with either a guidewire or solid malleable stylet and a choice between a standard or low-profile handle.

RCS Family

Retrograde Cardioplegia Cannulae with Self-Inflating PVC Balloon

14 Fr size available

Self-inflating PVC balloon

Ergonomic, low profile handle

Guidewire or solid malleable stylet

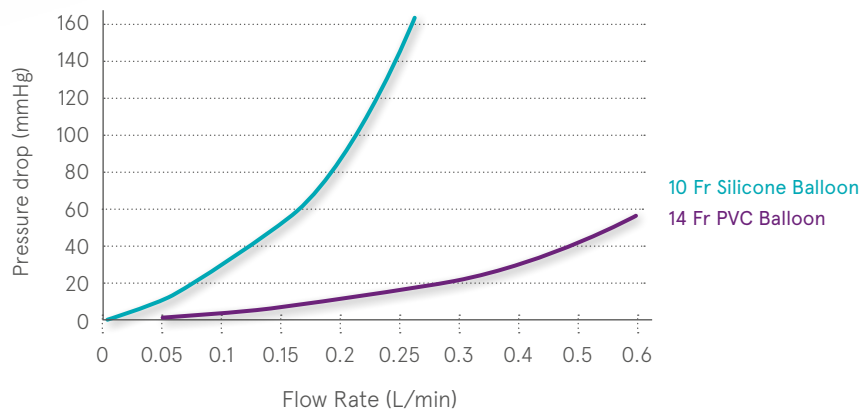
Manual-inflating silicone balloon

RCM Family

Retrograde Cardioplegia Cannulae with Manual-Inflating Silicone Balloon

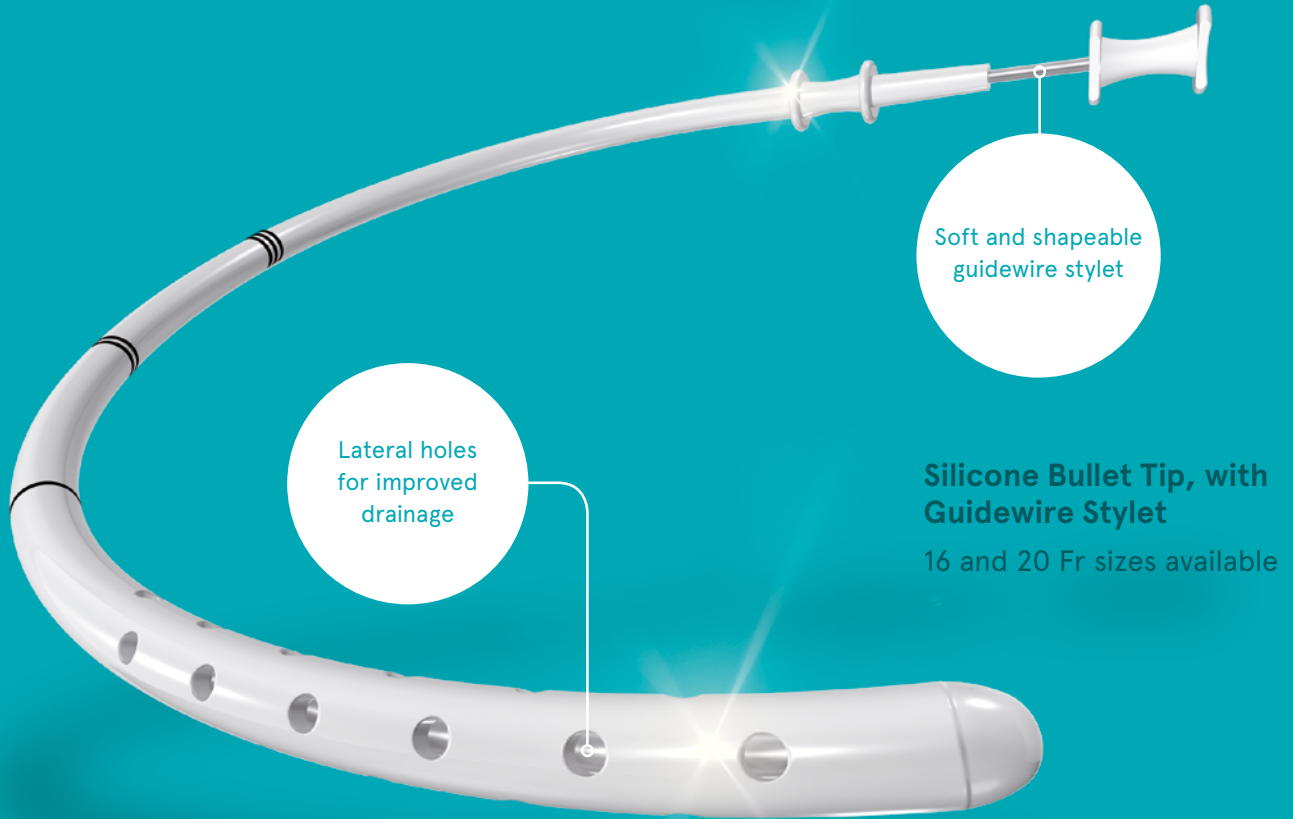
15 Fr size available

Pressure Drop

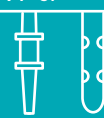
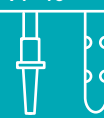

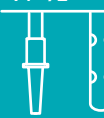


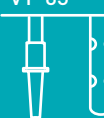
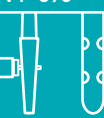





Vents

Vents for direct or indirect venting of the left ventricle are available in either PVC or silicone in a variety of configurations, including straight or malleable tubings with removable guidewire or malleable stylet with a two-position latching mechanism.

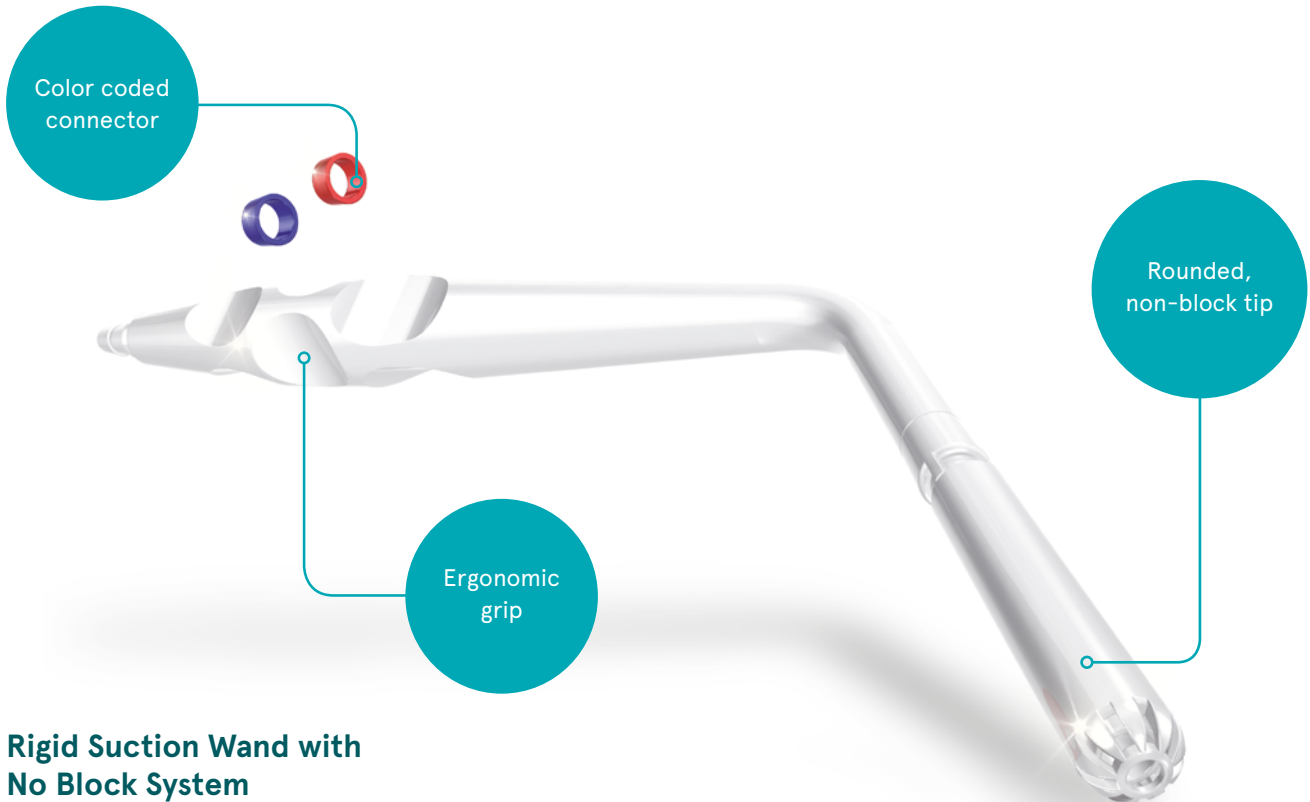


Available Configurations

<p>VT-57</p>  <p>Silicone Bullet Tip, with removable Stylet</p> <p>Connector Tip</p>	<p>VT-46</p>  <p>Malleable PVC, Open Blunt Tip, with Stylet</p> <p>Connector Tip</p>	<p>VT-31/VT-53/VT-63</p>  <p>PVC Open Blunt Tip, with removable Stylet, with Two Position Latching Device</p> <p>Connector Tip</p>	<p>VT-92</p>  <p>PVC Open Blunt Tip, without Stylet</p> <p>Connector Tip</p>
<p>VT-844</p>  <p>PVC Straight, Bullet Tip, with Guidewire Stylet</p> <p>Connector Tip</p>	<p>VT-845</p>  <p>PVC Right Angle, Bullet Tip, without Stylet, with Venting Luer Connector</p> <p>Connector Tip 90°</p>	<p>VT-83</p>  <p>PVC Bullet Tip, without Stylet</p> <p>Connector Tip</p>	
<p>VT-896</p>  <p>PVC Bullet Tip, without Stylet with Venting Luer Lock</p> <p>Connector Tip</p>	<p>VT-894</p>  <p>PVC Bullet Tip, with Guidewire Stylet</p> <p>Connector Tip</p>	<p>W410</p>  <p>Pre-bent Left Ventricle Catheters, PVC Bullet Tip, with Stylet</p> <p>Connector Tip</p>	<p>W420</p>  <p>Pre-bent Left Atrium Catheters, PVC Bullet Tip, with Stylet</p> <p>Connector Tip</p>

Suction Wand

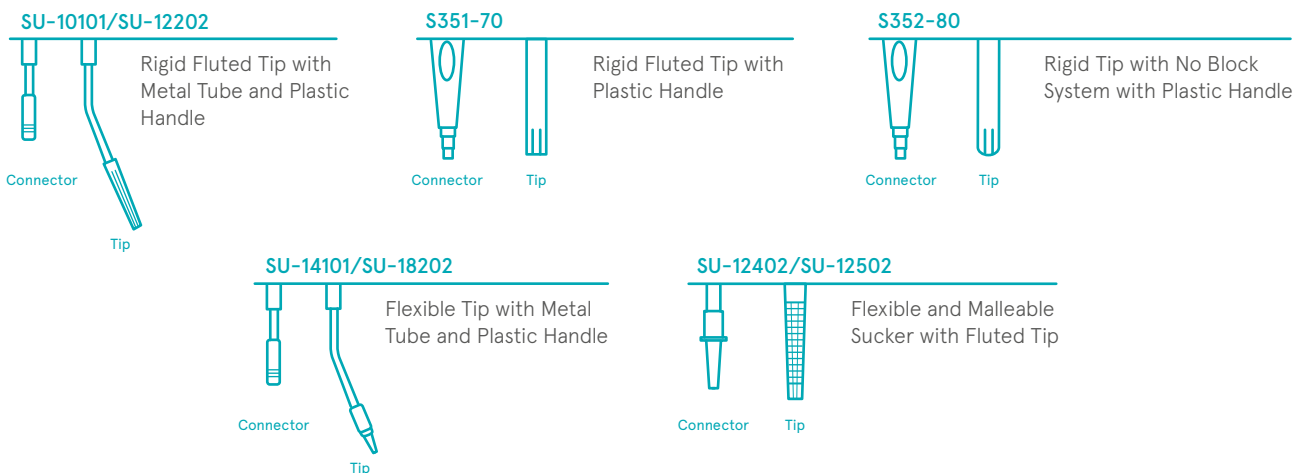
The Suction Wand features a rounded, less traumatic tip and a non-block suction system that prevents damage to the cardiac wall tissue. The rigid, ergonomic grip allows fatigueless handling and may be color coded with colored rings to easily associate pumps. Also available with flexible tubing.



Rigid Suction Wand with No Block System

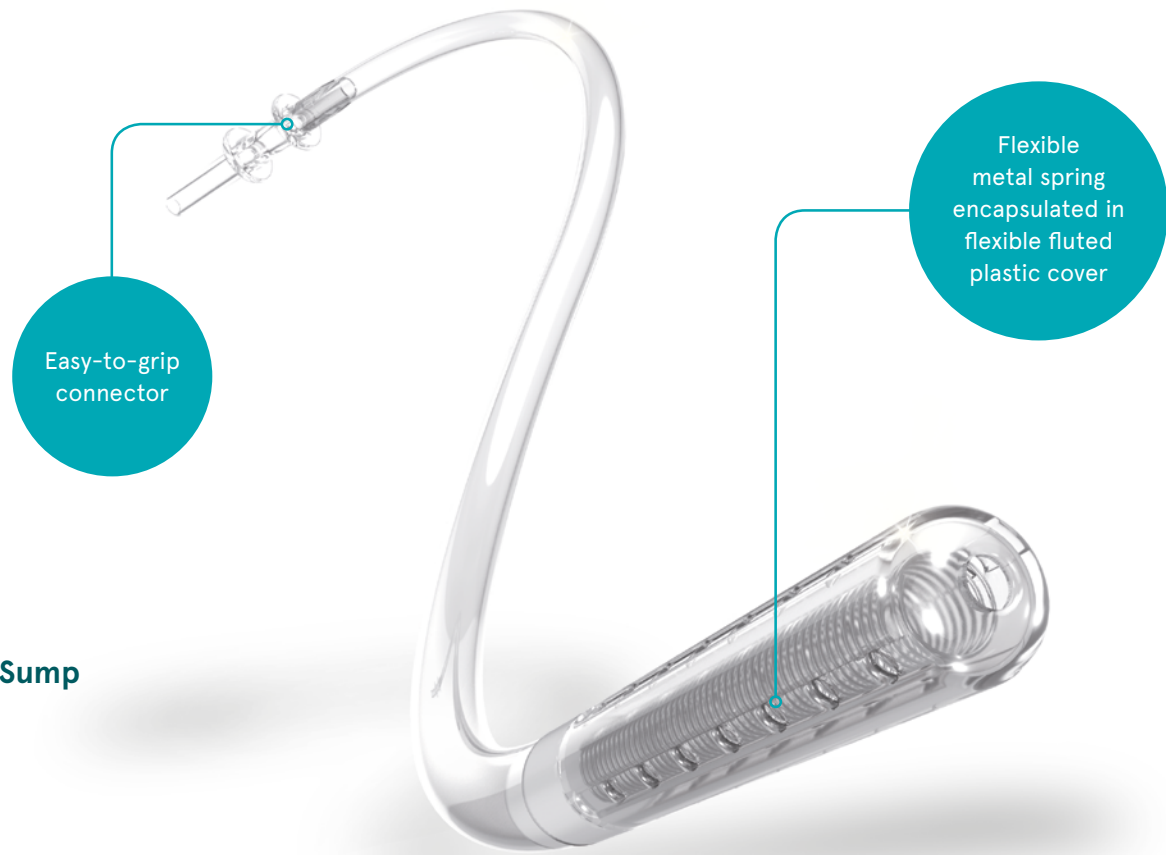
24 Fr size available

Available Configurations



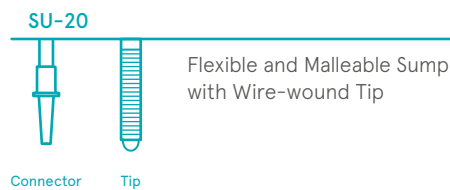
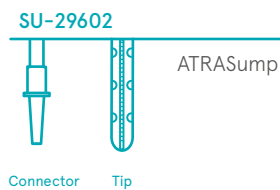
ATRASump

ATRASump is a new generation, flexible tubing sump with a unique, atraumatic weighted-tip specifically designed to provide enhanced patient safety. The special, flexible metal spring tip is encapsulated within a flexible, fluted plastic covering that avoids the risk of tissue entanglement and damage. The flutes provide smooth flow of fluids and the embedded perforations uninterrupted drainage.



ATRASump

Available Configurations



LivaNova

Health innovation that matters

Discover more at cannulae.livanova.com

www.livanova.com



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info.cardiacsurgery@livanova.com

Please always refer to the Instructions For Use (IFU) manual provided with each product for detailed information, warnings, precautions and possible adverse side effects.

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