

ORDIN DE PLATA NR.: 66

TIP.DOC. 1

DATA EMITERII: 9 septembrie 2021

PLATITI: 22000-00 LEI: Douazeci si Doua Mii lei 00 ba
ni

PLATITOR: (R) S.C. "OXIVI CONTUL DE PLATI/CODUL IBAN
T-MED" S.R.L. MD44ML000000002251729503
CODUL FISCAL :1007600044280 /

PRESTATORUL PLATITOR CODUL BANCII:
BC"Moldindconbank"S.A. suc."Invest" Chisinau :MOLDMD2X329:

BENEFICIAR (R) MF-TR Chisi CONTUL DE PLATI/CODUL IBAN
nau - bugetul de stat CAPCS MD30TRPCCC518430D01859AA
CODUL FISCAL :1016601000212 /

PRESTATORUL BENEFICIAR CODUL BANCII:
Ministerul Finantelor - Trezoreria de Stat :TREZMD2X

DESTINATIA PLATII:/P102/22000,00 Pentru : TIPUL TRANSFERULUI
garantia pentru oferta la procedura de a: NORMAL/URGENT :N
chizi?ie publica nr. ocDs-b3wdp1-MD-162:
8158934564 din 10.09.2021

: :

: : L.S.

CODUL TRANZACTIEI:101:

DATA PRIMIRII:09/09/2021 : SEMNATURILE

DATA EXECUTARII: : EMITENTULUI

CONducator:Web Kojevnikov Dmitrii

MIIGfAYJKoZIhvcNAQcCoIIIGbTCCBmkCAQExCzAJBgUrDgMCGGUAMAsGCSqGSIb3DQEHAaCCBIUwggSBMIIDaaADAgECAhNHAACEjCA/4xcrKCbfAAAAAISMMA0GCSqGSIb3DQEBCwUAMCIXIDAeBgNVBAMTF0NFULQxLUNBLU1vbGRpbmRjb25iYW5rMB4XDTIwMDMxNjA4NDUwM1oXDTIzMDMxNjA4NTUwM1owgbgxSzAJBgNVBAYTAk1EMRowYDVQIQIEExFSZXB1YmxyY2EgTW9sZG92YTERMA8GA1UEBxMIQ2hpc2luYXUxZjZAV

(semnatura electronica)

CONTABIL-SEF:Web Kojevnikov Dmitrii

MIIGfAYJKoZIhvcNAQcCoIIIGbTCCBmkCAQExCzAJBgUrDgMCGGUAMAsGCSqGSIb3DQEHAaCCBIUwggSBMIIDaaADAgECAhNHAACEjCA/4xcrKCbfAAAAAISMMA0GCSqGSIb3DQEBCwUAMCIXIDAeBgNVBAMTF0NFULQxLUNBLU1vbGRpbmRjb25iYW5rMB4XDTIwMDMxNjA4NDUwM1oXDTIzMDMxNjA4NTUwM1owgbgxSzAJBgNVBAYTAk1EMRowYDVQIQIEExFSZXB1YmxyY2EgTW9sZG92YTERMA8GA1UEBxMIQ2hpc2luYXUxZjZAV

L.S. (semnatura electronica)

CONducator: (semnatura manuala)

CONTABIL-SEF: (semnatura manuala)

SEMnatura PRESTATORUL L.S.

MOTIVUL REFUZULUI : L.S.

REPUBLICA



MOLDOVA

CERTIFICAT DE ÎNREGISTRARE

Societatea Comercială "OXIVIT-MED" S.R.L.
ESTE ÎNREGISTRATĂ LA CAMERA ÎNREGISTRĂRII DE STAT

Numărul de identificare de stat - codul fiscal
1007600044280

Data înregistrării

30.07.2007

Data eliberării

30.07.2007

Bordeianu Tatiana, registrator de stat

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

semnătura

MD 0067985





I.P. "AGENȚIA SERVICII PUBLICE"

Departamentul înregistrare și licențiere a unităților de drept

EXTRAS
din Registrul de stat al persoanelor juridice

nr. 8871 din 05.05.2021

Denumirea completă: **Societatea Comercială «OXIVIT-MED» S.R.L.**

Denumirea prescurtată: **S.C. «OXIVIT-MED» S.R.L.**

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

Numărul de identificare de stat și codul fiscal: **1007600044280.**

Data înregistrării de stat: **30.07.2007.**

Sediul: **MD-2032, bd. Decebal, 82, ap.(of.) 90, mun. Chișinău, Republica Moldova.**

Modul de constituire: **nou creată.**

Obiectul principal de activitate:

- 1 Importul, fabricarea, comercializarea, asistența tehnică și (sau) reparația dispozitivelor medicale și (sau) a opticii;**
- 2 Comerțul cu ridicata al parfumurilor și produselor cosmetice;**
- 3 Comerțul cu amănuntul al produselor cosmetice și de parfumerie, articolelor de toaletă;**
- 4 Intermedieri pentru vânzarea unui asortiment larg de mărfuri;**
- 5 Alte tipuri de comerț cu amănuntul în magazine nespecializate;**
- 6 Alte tipuri de comerț cu ridicata;**
- 7 Închirierea altor mașini și echipamente.**

Capitalul social: **5400 lei.**

Administrator: KOJEVNIKOV DMITRII, IDNP 0972305012362,

Asociați:

1. KOJEVNIKOV DMITRII , IDNP 0972305012362

cota 5400.00 lei, ce constituie 100 %.

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: 05.05.2021.

Specialist coordonator
tel. 022-207-840

Lazari Aliona



EEI 0358094

OXIVIT MED

c/f: 1007600044280; adresa: str. Decebal 82-90, or. Chișinău, Republica Moldova

telefon: + 373 22 808002; fax: + 373 22 808003

web: www.oxivit-med.com; e-mail: info@oxivit-med.com

Lista fondatorilor companiei SRL „Oxivit-Med”

Nr.	Numele, Prenumele	Codul Personal
1	Kojevnikov Dmitrii	0972305012362

CERTIFICAT
privind lipsa sau existența restanțelor față de bugetul public național

Nr.
№ **A2115101**

din
от **07.09.2021**

1. Destinația / Назначение

AGENȚIA ACHIZIȚII PUBLICE

2. Date despre contribuabil / Информация о налогоплательщике

Denumirea Наименование	Codul fiscal / Numărul de identificare Фискальный код / Идентификационный номер
S.C. OXIVIT-MED S.R.L.	1007600044280
Adresa sediului de bază (strada, numărul) Адрес основного месторасположения (улица, номер)	Codul - Denumirea localității Код - Наименование населенного пункта
Decebal bd. nr.82 of.90	0110-SEC.BOTANICA

3. Atestarea lipsei sau existenței restanțelor conform datelor Sistemului Informațional Automatizat /

Подтверждение отсутствия или наличия недоимки согласно данных Информационной автоматизированной системы

La data emiterii prezentului certificat restanța față de bugetul public național constituie/ На дату выдачи данной справки недоимка перед национальным публичным бюджетом составляет:
0,00 lei/лей.

4. Valabil până la / Действителен до 22.09.2021

5. Autentificarea Serviciului Fiscal de Stat / Подтверждение Государственной налоговой службы




Semnătura/Подпись

ANA STOICOV

Numele și prenumele/Фамилия и имя

Este extras din Sistemul Informațional al SFS SIA „Contul curent al contribuabilului”// 07.09.2021 ora 13:17:20
cu aplicarea prevederilor pct. 82-83 Ordin IFPS nr.400 din 14.03.2014 (Monitorul Oficial 72-77/399, 28.03.2014)

NOTA (0,00)

Дата предоставления 31.05.2021 09:44:13

Anexe la SNC
 "Prezentarea situatiilor financiare"
 Aprobate de Ministerul Finantelor
 al Republicii Moldova

SITUAȚIILE FINANCIARE

pentru perioada 01.01.2020 - 31.12.2020

Entitatea: S.C. OXVIT-MED S.R.L.
 Cod CUIIO: 40424951
 Cod IDNO: 1007600044280

Sediuul:
 MD:
 Raionul(municipiul): 103 DOB BOTANICA
 Cod CUATM: 0110_SEC.BOTANICA
 Strada: Decebal bd. nr.82 of.90

Activitatea principală: 04772 Comerț cu amănuntul al articolelor medicale și ortopedice, în magazine specializate
 Forma de proprietate: 15_Proprietatea privată
 Forma organizatorico-juridică: 530_Societăți cu răspundere limitată

Date de contact:
 Telefon: +37322808002
 WEB:
 E-mail: oxvit-medical@gmail.com
 Numele și coordonatele al contabilului-șef: DI (dna) Kojevnikov Dmitrii Tel. 969200398

Numărul mediu al salariaților în perioada de gestiune: 4 persoane.

Persoanele responsabile de semnarea situațiilor financiare* Kojevnikov Dmitrii

Unitatea de măsură: leu

BILANȚUL

la 31.12.2020

Anexa 1

Nr. cpt.	Indicatori	Cod rd.	Sold la	
			Începutul perioadei de gestiune	Sfîrșitul perioadei de gestiune
1	2	3	4	5
	A C T I V			
	ACTIVE IMOBILIZATE			
	I. Imobilizări necorporale			
	1. Imobilizări necorporale în curs de execuție	010		
	2. Imobilizări necorporale în exploatare, total	020	1787	1137
	din care:			
	2.1. concesiuni, licențe și mărci	021	1787	1137
	2.2. drepturi de autor și titluri de protecție	022		
	2.3. programe informatice	023		
	2.4. alte imobilizări necorporale	024		
	3. Fond comercial	030		
	4. Avansuri acordate pentru imobilizări necorporale	040		
	Total imobilizări necorporale (rd.010 + rd.020 + rd.030 + rd.040)	050	1787	1137
	II. Imobilizări corporale			
	1. Imobilizări corporale în curs de execuție	060		
	2. Terenuri	070		
	3. Mijloace fixe, total	080	2234	9980
	din care:			
	3.1. clădiri	081		
	3.2. construcții speciale	082		
	3.3. mașini, utilaje și instalații tehnice	083		9235
	3.4. mijloace de transport	084		

A.	3.5. inventar și mobilier	085		
	3.6. alte mijloace fixe	086	2234	745
	4. Resurse minerale	090		
	5. Active biologice imobilizate	100		
	6. Investiții imobiliare	110		
	7. Avansuri acordate pentru imobilizări corporale	120		
	Total imobilizări corporale (rd.060 + rd.070 + rd.080 + rd.090 + rd.100 + rd.110 + rd.120)	130	2234	9980
	III. Investiții financiare pe termen lung			
	1. Investiții financiare pe termen lung în părți neafiliate	140		
	2. Investiții financiare pe termen lung în părți afiliate, total	150		
	din care:	151		
	2.1. acțiuni și cote de participație deținute în părțile afiliate			
	2.2 Împrumuturi acordate părților afiliate	152		
	2.3 Împrumuturi acordate aferente intereselor de participație	153		
	2.4 alte investiții financiare	154		
	Total investiții financiare pe termen lung (rd.140 + rd.150)	160		
	IV. Creanțe pe termen lung și alte active imobilizate			
	1. Creanțe comerciale pe termen lung	170		
	2. Creanțe ale părților afiliate pe termen lung	180		
	Inclusiv: creanțe aferente intereselor de participație	181		
	3. Alte creanțe pe termen lung	190		
	4. Cheltuieli anticipate pe termen lung	200		
	5. Alte active imobilizate	210		
	Total creanțe pe termen lung și alte active imobilizate (rd.170 + rd.180 + rd.190 + rd.200 + rd.210)	220		
	TOTAL ACTIVE IMOBILIZATE (rd.050 + rd.130 + rd.160 + rd.220)	230	4021	11117
B.	ACTIVE CIRCULANTE			
	I. Stocuri			
	1. Materiale și obiecte de mică valoare și scurtă durată	240	434	617
	2. Active biologice circulante	250		
	3. Producția în curs de execuție	260		
	4. Produse și mărfuri	270	8318982	6895348
	5. Avansuri acordate pentru stocuri	280		
	Total stocuri (rd.240 + rd.250 + rd.260 + rd.270 + rd.280)	290	8319416	6895965
	II. Creanțe curente și alte active circulante			
	1. Creanțe comerciale curente	300	4565544	17423930
	2. Creanțe ale părților afiliate curente	310		
	Inclusiv: creanțe aferente intereselor de participație	311		
	3. Creanțe ale bugetului	320	491901	1593996
	4. Creanțele ale personalului	330		1452
	5. Alte creanțe curente	340		
	6. Cheltuieli anticipate curente	350	8082	6076
	7. Alte active circulante	360	1601496	3786977
	Total creanțe curente și alte active circulante (rd.300 + rd.310 + rd.320 + rd.330 + rd.340 + rd.350 + rd.360)	370	6667023	22812431
	III. Investiții financiare curente			
	1. Investiții financiare curente în părți neafiliate	380		
	2. Investiții financiare curente în părți afiliate, total	390		
	din care:	391		
	2.1. acțiuni și cote de participație deținute în părțile afiliate			
	2.2. Împrumuturi acordate părților afiliate	392		
	2.3. Împrumuturi acordate aferente intereselor de participație	393		

	2.4. alte investiții financiare în părți afiliate	394		
	Total investiții financiare curente (rd.380 + rd.390)	400		
	IV. Numerar și documente bănești	410	13740173	11586107
	TOTAL ACTIVE CIRCULANTE (rd.290 + rd.370 + rd.400 + rd.410)	420	28726612	41294503
	TOTAL ACTIVE (rd.230 + rd.420)	430	28730633	41305620
	P A S I V			
	CAPITAL PROPRIU			
	I. Capital social și neînregistrat			
	1. Capital social	440	5400	5400
C.	2. Capital nevărsat	450	()	()
	3. Capital neînregistrat	460		
	4. Capital retras	470	()	()
	5. Patrimoniul primit de la stat cu drept de proprietate	480		
	Total capital social și neînregistrat (rd.440 + rd.450 + rd.460 + rd.470 + rd.480)	490	5400	5400
	II. Prime de capital	500		
	III. Rezerve			
	1. Capital de rezervă	510		
	2. Rezerve statutare	520		
	3. Alte rezerve	530		
	Total rezerve (rd.510 + rd.520 + rd.530)	540		
	IV. Profit (pierdere)			
	1. Corecții ale rezultatelor anilor precedenți	550	X	
	2. Profit nerepartizat (pierdere neacoperită) al anilor precedenți	560	21481849	14484236
	3. Profit net (pierdere netă) al perioadei de gestiune	570	X	10455338
	4. Profit utilizat al perioadei de gestiune	580	X	()
	Total profit (pierdere) (rd.550 + rd.560 + rd.570 + rd.580)	590	21481849	24939574
	V. Rezerve din reevaluare	600		
	VI. Alte elemente de capital propriu	610		
	TOTAL CAPITAL PROPRIU (rd.490 + rd.500 + rd.540 + rd.590 + rd.600 + rd.610)	620	21487249	24944974
	DATORII PE TERMEN LUNG			
	1. Credite bancare pe termen lung	630		
	2. Împrumuturi pe termen lung	640	76630	76630
	din care:			
	2.1. Împrumuturi din emisiunea de obligațiuni	641		
	Inclusiv: Împrumuturi din emisiunea de obligațiuni convertibile	642		
	2.2. alte Împrumuturi pe termen lung	643	76630	76630
	3. Datorii comerciale pe termen lung	650		
	4. Datorii față de părțile afiliate pe termen lung	660		
	Inclusiv: datorii aferente intereselor de participație	661		
D.	5. Avansuri primite pe termen lung	670		
	6. Venituri anticipate pe termen lung	680		
	7. Alte datorii pe termen lung	690		
	TOTAL DATORII PE TERMEN LUNG (rd.630 + rd.640 + rd.650 + rd.660 + rd.670 + rd.680 + rd.690)	700	76630	76630
	DATORII CURENTE			
	1. Credite bancare pe termen scurt	710		
	2. Împrumuturi pe termen scurt, total	720		

	din care:	721		
	2.1. Împrumuturi din emisiunea de obligațiuni			
	Inclusiv: Împrumuturi din emisiunea de obligațiuni convertibile	722		
	2.2. alte Împrumuturi pe termen scurt	723		
	3. Datorii comerciale curente	730	6729208	15784405
	4. Datorii față de părțile afiliate curente	740		
	Inclusiv: datorii aferente intereselor de participație	741		
	5. Avansuri primite curente	750	336114	349631
	6. Datorii față de personal	760	73257	116957
	7. Datorii privind asigurările sociale și medicale	770		
E.	8. Datorii față de buget	780	300	
	9. Datorii față de proprietari	790		
	10. Venituri anticipate curente	800		
	11. Alte datorii curente	810	27875	33023
	TOTAL DATORII CURENTE (rd.710 + rd.720 + rd.730 + rd.740 + rd.750 + rd.760 + rd.770 + rd.780 + rd.790 + rd.800 + rd.810)	820	7166754	16284016
	PROVIZIOANE			
	1. Provizioane pentru beneficiile angajaților	830		
	2. Provizioane pentru garanții acordate cumpărătorilor/clientșilor	840		
	3. Provizioane pentru impozite	850		
	4. Alte provizioane	860		
F.	TOTAL PROVIZIOANE (rd.830 + rd.840 + rd.850 + rd.860)	870		
	TOTAL PASIVE (rd.620 + rd.700 + rd.820 + rd.870)	880	28730633	41305620

SITUAȚIA DE PROFIT ȘI PIERDERE

de la 01.01.2020, până la 31.12.2020.

Anexa 2

Indicatori	Cod rd.	Perioada de gestiune	
		precedenta	curenta
1	2	3	4
Venituri din vânzări, total	010	56125772	61054881
din care:			
venituri din vânzarea produselor și mărfurilor	011	56125772	61054881
venituri din prestarea serviciilor și executarea lucrărilor	012		
venituri din contracte de construcție	013		
venituri din contracte de leasing	014		
venituri din contracte de microfinanțare	015		
alte venituri din vânzări	016		
Costul vânzărilor, total	020	44624941	50207602
din care:			
valoarea contabilă a produselor și mărfurilor vândute	021	44624941	50207602
costul serviciilor prestate și lucrărilor executate terților	022		
costuri aferente contractelor de construcție	023		
costuri aferente contractelor de leasing	024		
costuri aferente contractelor de microfinanțare	025		
alte costuri aferente vânzărilor	026		
Profit brut (pierdere brută) (rd.010 - rd.020)	030	11500831	10847279
Alte venituri din activitatea operațională	040	1954484	1967064
Cheltuieli de distribuie	050	46711	68333
Cheltuieli administrative	060	668046	995848
Alte cheltuieli din activitatea operațională	070	161844	34858
Rezultatul din activitatea operațională: profit (pierdere) (rd.030 + rd.040 - rd.050 - rd.060 - rd.070)	080	12578714	11715304

Venituri financiare, total	090		1752762
din care:			
venituri din interese de participare	091		
inclusiv: veniturile obținute de la părțile afiliate	092		
venituri din dobânzi	093		
inclusiv: veniturile obținute de la părțile afiliate	094		
venituri din alte investiții financiare pe termen lung	095		
inclusiv: veniturile obținute de la părțile afiliate	096		
venituri aferente ajustărilor de valoare privind investițiile financiare pe termen lung și curente	097		
venituri din ieșirea investițiilor financiare	098		
venituri aferente diferențelor de curs valutar și de sumă	099		1752762
Cheltuieli financiare, total	100	20827	1580853
din care:			
cheltuieli privind dobânzile	101		
inclusiv: cheltuielile aferente părților afiliate	102		
cheltuieli aferente ajustărilor de valoare privind investițiile financiare pe termen lung și curente	103		
cheltuieli aferente ieșirii investițiilor financiare	104		
cheltuieli aferente diferențelor de curs valutar și de sumă	105	20827	1580853
Rezultatul: profit (pierdere) financiar(ă) (rd.090 - rd.100)	110	-20827	171909
Venituri cu active imobilizate și excepționale	120		
Cheltuieli cu active imobilizate și excepționale	130		
Rezultatul din operațiuni cu active imobilizate și excepționale: profit (pierdere) (rd.120 - rd.130)	140		
Rezultatul din alte activități: profit (pierdere) (rd.110 + rd.140)	150	-20827	171909
Profit (pierdere) până la impozitare (rd.080 + rd.150)	160	12557887	11887213
Cheltuieli privind impozitul pe venit	170	1543063	1431875
Profit net (pierdere netă) al perioadei de gestiune (rd.160 - rd.170)	180	11014824	10455338

SITUAȚIA MODIFICĂRILOR CAPITALULUI PROPRIU

de la până la

Anexa 3

Nr. d/o	Indicatori	Cod rd	Sold la începutul perioadei de gestiune	Majorări	Diminuări	Sold la sfârșitul perioadei de gestiune
1	2	3	4	5	6	7
I.	Capital social și neînregistrat					
	1. Capital social	010				
	2. Capital nevărsat	020	()	()	()	()
	3. Capital neînregistrat	030				
	4. Capital retras	040	()	()	()	()
	5. Patrimoniul primit de la stat cu drept de proprietate	050				
	Total capital social și neînregistrat (rd.010 + rd.020 + rd.030 + rd.040 + rd.050)	060				
II.	Prime de capital	070				
III.	Rezerve					
	1. Capital de rezervă	080				
	2. Rezerve statutare	090				
	3. Alte rezerve	100				
	Total rezerve (rd.080 + rd.090 + rd.100)	110				
	Profit (pierdere)					
	1. Corecții ale rezultatelor anilor precedenți	120	X			

IV.	2. Profit nerepartizat (pierdere neacoperită) al anilor precedenți	130				
	3. Profit net (pierdere netă) al perioadei de gestiune	140	X			
	4. Profit utilizat al perioadei de gestiune	150	X	()	()	()
	Total profit (pierdere) (rd.120 + rd.130 + rd.140 + rd.150)	160				
V.	Rezerve din reevaluare	170				
VI.	Alte elemente de capital propriu	180				
	Total capital propriu (rd.060 + rd.070 + rd.110 + rd.160 + rd.170 + rd.180)	190				

SITUAȚIA FLUXURILOR DE NUMERAR

de la până la

Anexa 4

Indicatori	Cod rd	Perioada de gestiune	
		precedentă	curentă
1	2	3	4
Fluxuri de numerar din activitatea operațională			
Încasări din vânzări	010		
Plăți pentru stocuri și servicii procurate	020		
Plăți către angajați și organe de asigurare socială și medicală	030		
Dobânzi plătite	040		
Plata impozitului pe venit	050		
Alte încasări	060		
Alte plăți	070		
Fluxul net de numerar din activitatea operațională (rd.010 - rd.020 - rd.030 - rd.040 - rd.050 + rd.060 - rd.070)	080		
Fluxuri de numerar din activitatea de investiții			
Încasări din vânzarea activelor imobilizate	090		
Plăți aferente intrărilor de active imobilizate	100		
Dobânzi încasate	110		
Dividende încasate	120		
Inclusiv: dividende încasate din străinătate	121		
Alte încasări (plăți)	130		
Fluxul net de numerar din activitatea de investiții (rd.090 - rd.100 + rd.110 + rd.120 ± rd.130)	140		
Fluxuri de numerar din activitatea financiară			
Încasări sub formă de credite și împrumuturi	150		
Plăți aferente rambursării creditelor și împrumuturilor	160		
Dividende plătite	170		
Inclusiv: dividende plătite nerezidenților	171		
Încasări din operațiuni de capital	180		
Alte încasări (plăți)	190		
Fluxul net de numerar din activitatea financiară (rd.150 - rd.160 - rd.170 + rd.180 ± rd.190)	200		
Fluxul net de numerar total (± rd.080 ± rd.140 ± rd.200)	210		
Diferențe de curs valutar favorabile (nefavorabile)	220		
Sold de numerar la începutul perioadei de gestiune	230		
Sold de numerar la sfârșitul perioadei de gestiune (± rd.210 ± rd.220 + rd.230)	240		

Documente atașate - Notă explicativă (fișierul pdf)

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Расписка 2

Респондент

Фискальный код: 1007600044280, наименование: S.C. OXIVIT-MED S.R.L.

Предоставил отчет: RSF1_21

На фискальный период: A/2020

Дата предоставления: 31.05.2021

Временная метка отчёта зарегистрированного в Информационной Системе НБС : 31.05.2021 10:20:49

National Bureau of Statistics (NBS) received the electronic version of the report, sent by you. The data provided is verified by NBS.

Расписка

Респондент

Фискальный код: 1007600044280, наименование: S.C. OXIVIT-MED S.R.L.

Предоставил отчёт: RSF1_21

На фискальный период: A/2020

Дата предоставления: 31.05.2021

Временная метка отчёта зарегистрированного в Системе Электронной Отчётности и
отправленного в Информационную Систему БНС : 31.05.2021 09:44:13

OXIVIT MED

c/f: 1007600044280; adresa: str. Independenței 28-34, or. Chișinău, Republica Moldova
telefon: + 373 22 808002; fax: + 373 22 808003
web: www.oxivit-med.com; e-mail: info@oxivit-med.com

**Către Grupul de lucru pentru evaluarea
licitației publice Nr. ocds-b3wdp1-MD-1628158934564
din 18 aug 2021, 12:08 - 10 sept 2021, 12:08
din cadrul CAPCS**

Declarație

Prin prezenta, SRL „Oxivit-Med”, declara ca:

- Termenul de valabilitate restant (la momentul livrării) va constitui 80% din termenul total al produsului, dar nu mai mic de 12 luni. Pentru loturie 11, 12,13 și 24 termenul de valabilitate min. 3-4 ani din momentul livrării.
- Pentru produsele noi sau necunoscute pentru medici, vor fi prezentate mostre de către potențialii cîștigători în termen de 5 zile de la solicitare
- Va înregistra bunurile contractate la Agentia Medicamentului si a Dispozitivelor Medicale până la momentul livrării acestuia.

_____ Kojevnikov Dmitrii

L.Ș.

Contour 3D™
Annuloplasty Ring

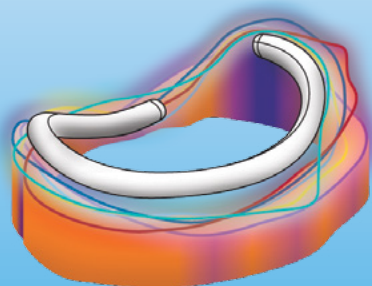
RIGID REMODELING **FOR TRICUSPID REPAIR**

Rings that resemble the natural shape of the annulus provide better leaflet coaptation than planar rings by preserving greater leaflet mobility.^{1,2}

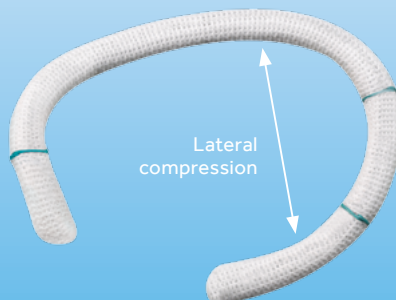
Medtronic

3D REMODELING RING ANATOMICALLY SHAPED

Design is based on CT data from functional human tricuspid valves



Low profile, easy to suture incomplete ring is designed to avoid interference with the heart's conduction system.



Additional septal lateral compression is incorporated into the ring to address annular dilation.

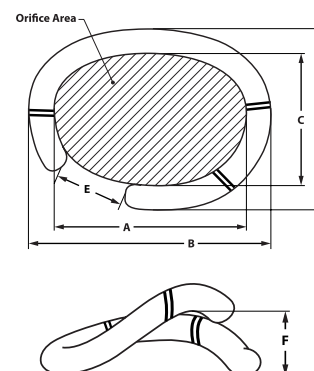
2D
shape



3D
curvature

Contour 3D™ Annuloplasty Ring, Model 690R

Order Number	Ring Size (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Orifice Area (mm ²)
690R26	26	24	32	16	24	10	7	326.1
690R28	28	26	34	18	25	11	7	387.2
690R30	30	28	36	19	27	12	8	449.2
690R32	32	30	38	21	28	13	8	512.4
690R34	34	32	40	22	30	14	9	588.6
690R36	36	34	42	23	31	15	9	665.1



Medtronic

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Toll-free: (800) 328-2518

LifeLine
CardioVascular Technical Support
Tel: (877) 526-7890
Tel: (763) 526-7890
Fax: (763) 526-7888
rs.cstechsupport@medtronic.com

medtronic.com

Contour 3D Annuloplasty Ring | Indications: The Contour 3D ring is indicated for the reconstruction and/or remodeling of pathological tricuspid valves. **Contraindications:** Heavily calcified valves, valvular retraction with severely reduced mobility, active bacterial endocarditis. **Warnings/Precautions/Adverse Events:** Only physicians who have received proper training in valve repair should use this device. Adverse events can include: thromboembolic events, dehiscence, hemolysis, stenosis, residual incompetence, heart block, endocarditis, right ventricular outflow tract obstruction, anticoagulant-related bleeding or hemorrhage. **Caution:** Federal law (USA) restricts this device to sale by or on the order of a physician.

For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. For countries that use eIFUs, consult instructions for use at this website www.medtronic.com/manuals.

References

1. Ratschiller T, et al. Early experiences with a new three-dimensional annuloplasty ring for the treatment of functional tricuspid regurgitation. *Ann Thorac Surg* 2014;98:2019-45.
2. Padala M, et al. Saddle shape of the mitral annulus reduces systolic strains on the P2 segment of the posterior mitral leaflet. *Ann Thorac Surg* 2009; 88:1499-505.

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UC201700586 EN
08/2016



Profile 3D[®]
Rigid Annuloplasty Ring

ADVANCED 3D SHAPED, RIGID REPAIR SOLUTIONS ADVANCED ANATOMICAL MODELING OF MITRAL ANNULAR SHAPES BASED ON MORE SOPHISTICATED ANATOMICAL MODELING

PROFILE 3D® MITRAL ANNULOPLASTY RING

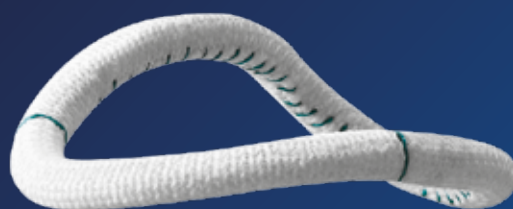
- Rigid annular remodeling
- Unique asymmetrical 3D ring design (nonplanar)
- 25% AHCWR (Annular height-to-commissural width ratio) anterior
- 15% AHCWR posterior
- Ring design based upon significant scientific evidence
- Shape based on human anatomic considerations
- Launched in 2008
- Developed with Drs. J. Gorman, R. Gorman, M. Acker and J. Bavaria at HUP (The Hospitals at the University of Pennsylvania)
- Polyester knit covering titanium/silicone core
- 9 sizes, ranging from 24 to 40



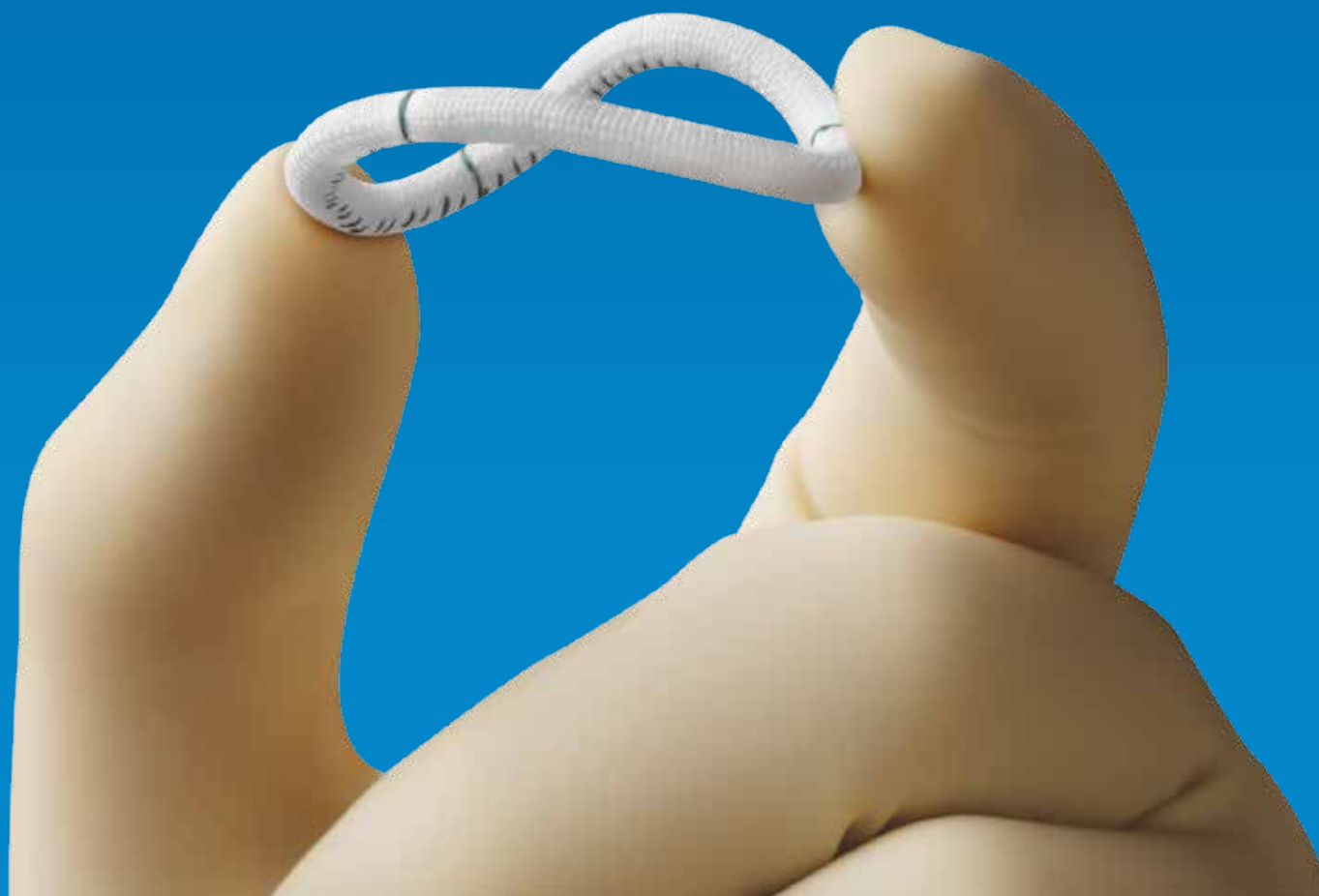
Scientific data on reduced
leaflet stress



Natural saddle shape



Restore annular geometry

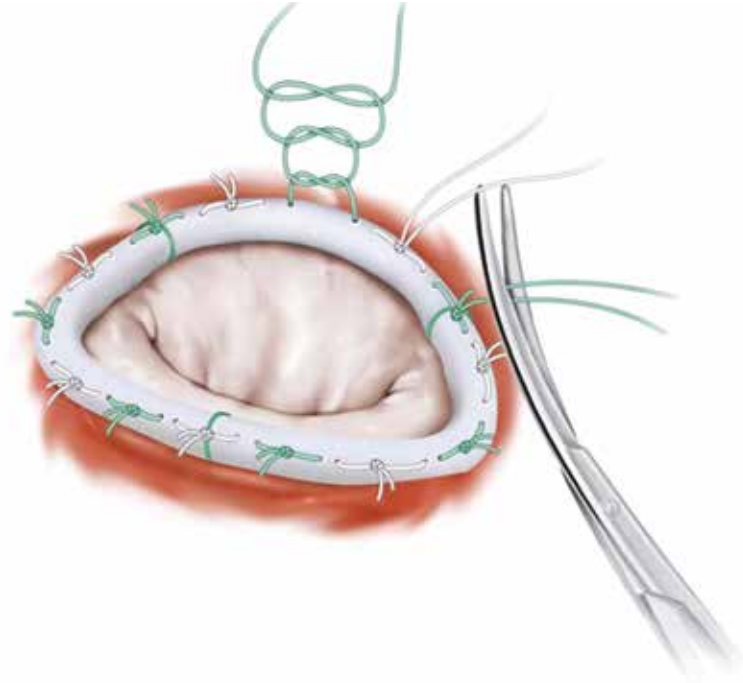


LET'S GO FURTHER, TOGETHER: RESTORING ANNULAR GEOMETRY

We designed the Profile® 3D Rigid Annuloplasty Ring, using a sophisticated computerised anatomical model. The result? A fully rigid remodeling ring with a unique asymmetrical 3D design based on scientific evidence, engineered to maintain the anterior and posterior dimensions of the mitral annulus.

A NATURAL SADDLE SHAPE

The mitral annulus is a dynamic saddle-shaped structure with the maximum height of the saddle in the middle of the annulus's anterior part and another rise along the posterior leaflet.¹

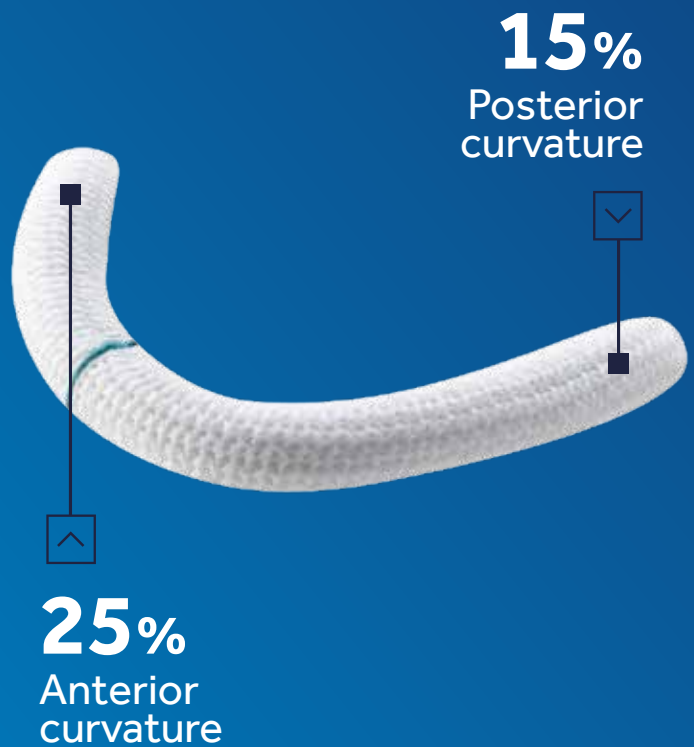


SCIENTIFIC DATA ON REDUCED LEAFLET STRESS

The Profile 3D® ring design provides a 25% anterior curvature and 15% posterior curvature. Studies have found that the asymmetric shape with an annular height to commissural width ration (AHCWR) of 15-25% has the minimal peak leaflet stress.¹

PRECISE AND PREDICTABLE IMPLANT

Its knit fabric and titanium/silicone core enable confident, secure suturing.



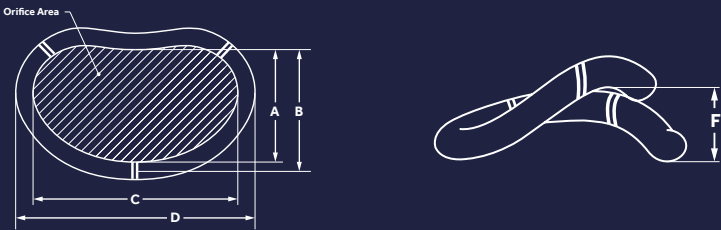
Based on the annular geometry of normal human mitral annuli, its saddle shape may reduce stress and increase mitral valve durability.^{2,3}



PRODUCT SPECIFICATIONS

CONSIDER THE PROFILE 3D® RING FOR YOUR MITRAL VALVE REPAIR NEEDS.

PROFILE 3D® ANNULOPLASTY RING, MODEL 680R



Ring Size (mm)	Order Number	A (mm)	B (mm)	C (mm)	D (mm)	Orifice Area (mm²)
24	680R24	13.4	15.0	24.2	30.5	278
26	680R26	14.5	16.1	26.2	32.5	325
28	680R28	15.6	17.2	28.2	34.5	376
30	680R30	16.7	18.3	30.2	36.5	430
32	680R32	17.8	19.4	32.2	38.5	489
34	680R34	18.9	20.5	34.2	40.5	550
36	680R36	19.8	21.4	36.2	42.5	612
38	680R38	20.9	22.5	38.2	44.5	683
40	680R40	22.0	23.6	40.2	46.5	756

ACCESSORIES



Description	Order Number
Profile 3D® Sizer Set (9 sizers)	7680S
Annuloplasty Handle (216 mm length)	7686
Annuloplasty Handle (373 mm length)	7686XL
Profile 3D® Accessory Tray	T7680

References:

1. Salgo I, Gorman J, Gorman R, et al. Effect of annular shape on leaflet curvature in reducing mitral leaflet stress. Circulation. 2002;106:711-7.
2. Published U.S. Patent Application Nos. 2005-0021135 A1 and 2006-0025856 A1.
3. Fedak P, McCarthy P, Bonow R. Evolving concepts and technologies in mitral valve repair. Circulation. 2008;117:963-74.

Indications: This device is indicated for the reconstruction and/or remodeling of pathological mitral valves. Valvular insufficiency and/or stenosis may be corrected by appropriate repair and annular remodeling. **Contraindications:** Heavily calcified valves, valvular retraction with severely reduced mobility, active bacterial endocarditis.

Warnings/Precautions/Adverse Events: Only physicians who have received proper training in valve repair should use this device. Adverse events can include: thromboembolic events, dehiscence, hemolysis, stenosis, residual incompetence, heart block, endocarditis, systolic anterior motion, left ventricular outflow tract obstruction, anticoagulant-related bleeding or hemorrhage.

For additional information please refer to the Instructions for Use provided with the product or contact your local Medtronic representative.

Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.

Profile 3D is a registered trademark of Medtronic, Inc.

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SURGICAL HEART THERAPIES PRODUCT CATALOG

- Heart Valves
- Surgical Ablation
- Revascularization

INTERNATIONAL

CAUTION: For distribution only in markets where the products have been approved.

Medtronic
Further, Together

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Freestyle™

Aortic Root Bioprosthesis

A stentless valve that is naturally designed to maximize flow, particularly for young patients.

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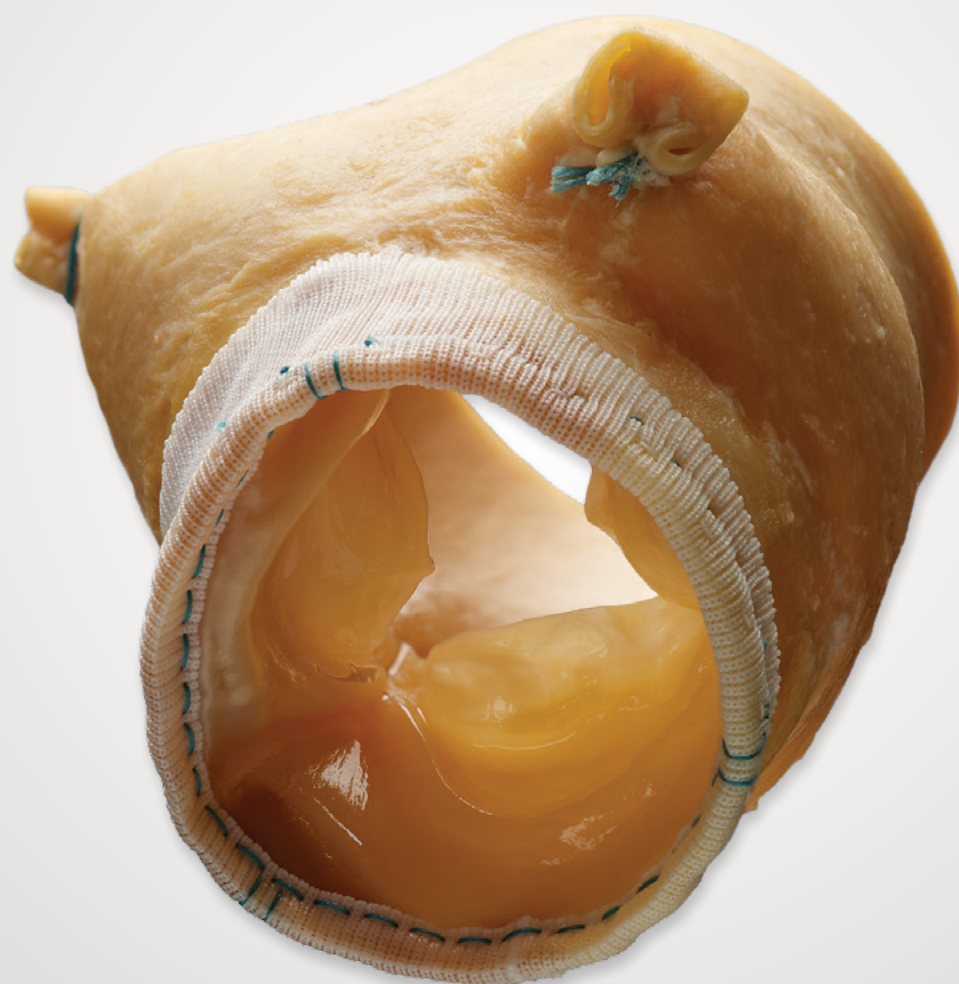
Superior Hemodynamics^{1,2,3}

Intelligently Designed

- Functions like a native valve with low gradients and laminar flow¹
- Absence of stent and sewing ring leaves more room for blood to flow through the valve; improves postoperative coronary flow more than a stented bioprosthesis^{2,3}

Maximum Flow

- Designed to function like a native valve with physiologic hemodynamics
- Excellent mean pressure gradients and EOAs out to 10 years⁴
- Strong clinical outcomes and excellent durability at 15 years⁴



References

1. Westaby S., et al. Valve replacement with a stentless bioprosthesis: Versatility of the porcine aortic root. *J Thorac Cardiovasc Surg* 1998;116:477-84.
2. Bakhtiary F, et al. Stentless bioprostheses improve postoperative coronary flow more than stented prostheses after valve replacement for aortic stenosis. *J Thorac Cardiovasc Surg* 2006;131:883-8.
3. Silberman S, et al. Exercise hemodynamics of aortic prostheses: Comparison between stentless bioprostheses and mechanical valves. *Ann Thorac Surg* 2001;72:1217-21.
4. Freestyle Aortic Root Bioprosthesis 15-year clinical compendium 2012 ©Medtronic.



Freestyle™

Aortic Root Bioprosthesis

A stentless valve that is naturally designed to maximize flow, particularly for young patients.

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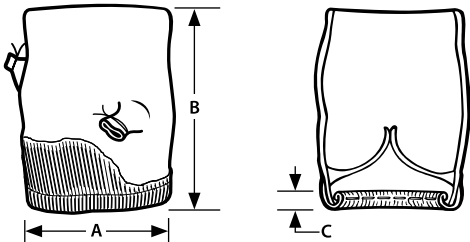
HEART VALVES

SURGICAL ABLATION

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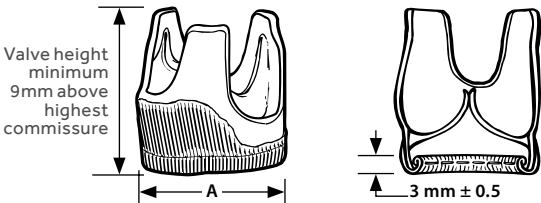
Freestyle Full Root Bioprosthesis

Order Number	Size (mm)	A Outside Diameter	B Profile Height	C Inner Cloth Height
		(± 0.2mm)	(± 2mm)	(±0.5mm)
FR99519	19	19.0	30	3.0
FR99521	21	21.0	32	3.0
FR99523	23	23.0	32	3.0
FR99525	25	25.0	34	3.0
FR99527	27	27.0	34	3.0
FR99529	29	29.0	39±0.3	3.0



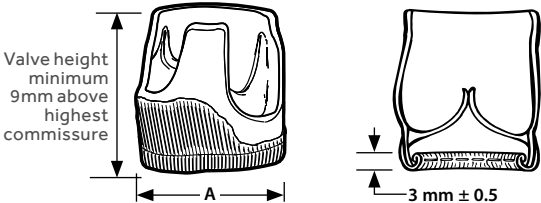
Prestyled Freestyle Complete Subcoronary Bioprosthesis

Order Number	Size (mm)	A Outside Diameter
		(+0.5mm - 0.0mm)
995CS19	19	19.0
995CS21	21	21.0
995CS23	23	23.0
995CS25	25	25.0
995CS27	27	27.0
995CS29	29	29.0



Prestyled Freestyle Modified Subcoronary Bioprosthesis

Order Number	Size (mm)	A Outside Diameter
		(+0.5mm - 0.0mm)
995MS19	19	19.0
995MS21	21	21.0
995MS23	23	23.0
995MS25	25	25.0
995MS27	27	27.0
995MS29	29	29.0



Freestyle Valve Accessories

Order Number	Description
T7625FR	Freestyle Accessory Tray
7639	Handle (234mm length) pliant, without locknut to be used with Freestyle bioprosthesis
7639XL	Handle (368mm length) pliant, without locknut to be used with Freestyle bioprosthesis
7990SET	Freestyle Obturator Set (no handles)

Hancock™ II

Bioprosthetic Valve

The valve that has stood the test of time to make outcomes as predictable as procedures.

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The Standard For Reliability and Consistency

- Proven durability in all patients, especially those ≥60 years of age^{1,2}
- Highly studied surgical valve delivering strong results and consistent outcomes from multiple centers^{1,3}
- More than 97% freedom from SVD after 20 years for patients ≥65 years of age¹
- Radiopaque for future valve-in-valve procedures
- Optimal performance and value



References

1. David T, et al. Hancock II Bioprosthesis for aortic valve replacement: The gold standard of bioprosthetic valves durability. *Ann Thorac Surg* 2010;90: 775-81.
2. Borger M, et al. Twenty year results of the Hancock II bioprosthesis. *Journal of Heart Valve Disease*. January 2006;15:49-56.
3. Valfre C, et al. The fate of Hancock II porcine valve recipients 25 years after implant. *European Journal of Cardio-Thoracic Surgery*. 2010;28:141-6.



Hancock™ II

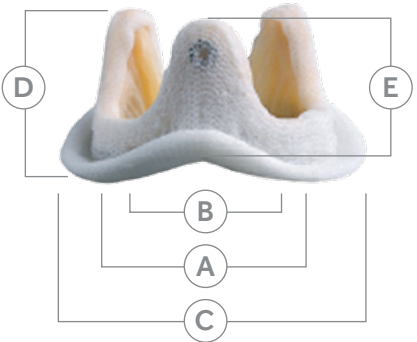
Bioprosthetic Valve

The valve that has stood the test of time to make outcomes as predictable as procedures.

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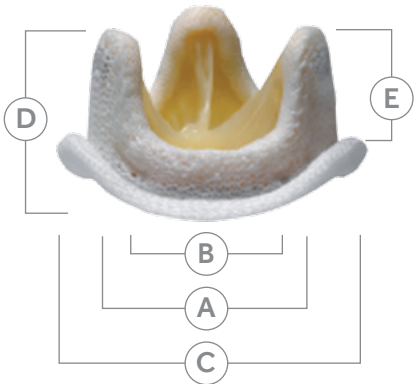
Hancock II Aortic Heart Valve

Order Number	A Valve Size (Stent O.D.†)	B Orifice Diameter (Stent I.D.)	C Suture Ring Diameter	D Valve Height	E Aortic Protrusion
	(±0.5mm)	(±0.5mm)	(±1mm)	(±0.5mm)	(±0.5mm)
T505C221	21	18.5	27.0	15.0	12.0
T505C223	23	20.5	30.0	16.0	13.5
T505C225	25	22.5	33.0	17.5	15.0
T505C227	27	24.0	36.0	18.5	15.5
T505C229	29	26.0	39.0	20.0	16.0



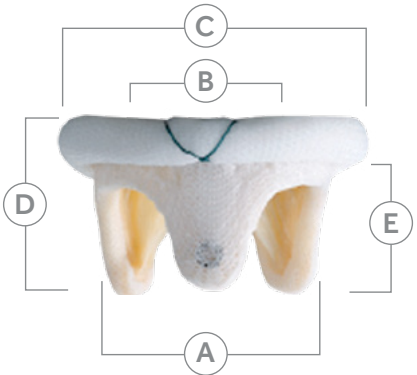
Hancock II Ultra™ Aortic Heart Valve

Order Number	A Valve Size (Stent O.D.†)	B Orifice Diameter (Stent I.D.)	C Suture Ring Diameter	D Valve Height	E Aortic Protrusion
	(±0.5mm)	(±0.5mm)	(±1mm)	(±0.5mm)	(±0.5mm)
T505U221	21	18.5	26.0	15.0	12.0
T505U223	23	20.5	28.0	16.0	13.5
T505U225	25	22.5	30.0	17.5	15.0
T505U227	27	24.0	32.0	18.5	15.5
T505U229	29	26.0	34.0	20.0	16.0



Hancock II Mitral Heart Valve

Order Number	Valve Size (Stent O.D.†) A	Orifice Diameter (Stent I.D.) B	Suture Ring Diameter C	Valve Height D	Ventricular Protrusion E
	(±0.5mm)	(±0.5mm)	(±1mm)	(±0.5mm)	(±0.5mm)
T510C25	25	22.5	33.0	18.0	13.5
T510C27	27	24.0	35.0	19.0	14.0
T510C29	29	26.0	38.0	20.5	15.5
T510C31	31	28.0	41.0	22.0	17.0
T510C33	33	30.0	43.0	23.0	17.5



Hancock II Tissue Valve Accessories

Order Number	Description
T7610HKA	Tray, Accessory, Hancock II, Aortic
T7610HKM	Tray, Accessory, Hancock II, Mitral
T7505UX	Tray, Accessory, Hancock II Ultra, Supra-X Aortic Sizer Set
7505UX	Hancock II Ultra, Supra-X Aortic Sizer Set
7639	Handle (234mm length) pliant, without locknut handle to be used with Hancock II, Hancock II ULTRA prostheses
7639XL	Handle (368mm length) pliant, without locknut handle to be used with Hancock II, Hancock II ULTRA prostheses
7505SET	Hancock II Aortic Obturator Set (no handles, no tray)
7510SET	Hancock II Mitral Obturator Set (no handles, no tray)

† Equivalent to annulus diameter

Mosaic™ Bioprosthesis

A versatile platform designed to easily facilitate aortic or mitral valve replacement in open or minimally invasive procedures.

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Undeniably Durable

- Designed to facilitate aortic and mitral valve replacement in open or minimally invasive procedures
- 80% freedom from explant due to SVD at 16 years in the mitral position¹
- 81% freedom from explant due to SVD at 17 years in the aortic position²



References

1. Medtronic Mosaic Mitral Bioprosthesis 16-year Clinical Compendium. ©2016 Medtronic.
2. Medtronic Mosaic Aortic Bioprosthesis 17-year Clinical Compendium. ©2016 Medtronic.

Mosaic™

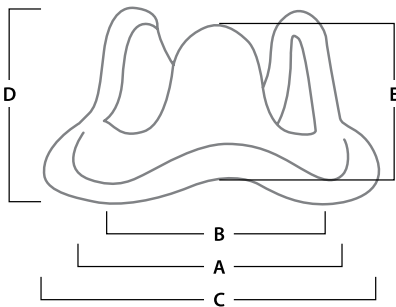
Bioprosthesis

A versatile platform designed to easily facilitate aortic or mitral valve replacement in open or minimally invasive procedures.

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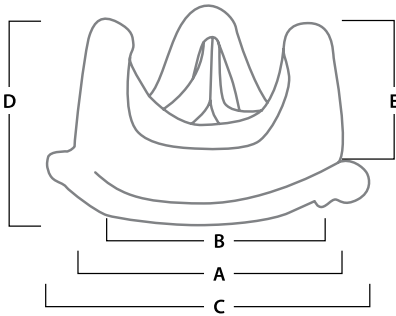
Mosaic Aortic Valve, Model 305

Order Number	A Valve Size (Stent O.D.†)	B Orifice Diameter (Stent I.D.)	C Suture Ring Diameter	D Valve Height	E Aortic Protrusion
	(±0.5mm)	(±0.5mm)	(±1mm)	(±0.5mm)	(±0.5mm)
305C219	19	17.5	25.0	13.5	11.0
305C221	21	18.5	27.0	15.0	12.0
305C223	23	20.5	30.0	16.0	13.5
305C225	25	22.0	33.0	17.5	15.0
305C227	27	24.0	36.0	18.5	15.5
305C229	29	26.0	39.0	20.0	16.0



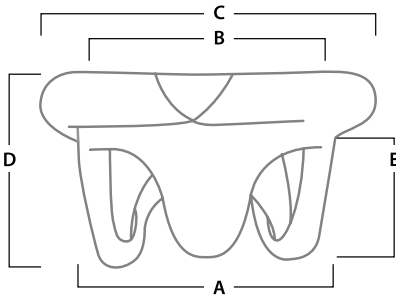
Mosaic Ultra Aortic Valve, Model 305

Order Number	A Valve Size (Stent O.D.†)	B Orifice Diameter (Stent I.D.)	C Suture Ring Diameter	D Valve Height	E Ventricular Protrusion
	(±0.5mm)	(±0.5mm)	(±1mm)	(±0.5mm)	(±0.5mm)
305U219	19	17.5	24.0	13.5	11.0
305U221	21	18.5	26.0	15.0	12.0
305U223	23	20.5	28.0	16.0	13.5
305U225	25	22.5	30.0	17.5	15.0
305U227	27	24.0	32.0	18.5	15.5
305U229	29	26.0	34.0	20.0	16.0



Mosaic Mitral Valve, Model 310

Order Number	A Valve Size (Stent O.D.†)	B Orifice Diameter (Stent I.D.)	C Suture Ring Diameter	D Valve Height	E Ventricular Protrusion
	(±0.5mm)	(±0.5mm)	(±1mm)	(±0.5mm)	(±0.5mm)
310C25	25	22.5	33.0	18.0	13.5
310C27	27	24.0	35.0	19.0	14.0
310C29	29	26.0	38.0	20.5	15.5
310C31	31	28.0	41.0	22.0	17.0
310C33	33	30.0	43.0	23.0	17.5



Mosaic Bioprosthesis Accessories

Order Number	Description
T7308C	Mosaic Aortic Sizers
T7615MSM	Tray, Accessory, Mosaic, Mitral
T7308U	Tray, Accessory, Mosaic Ultra Aortic
7308U	Mosaic Ultra Aortic Sizers
7639	Handle (234mm length) pliant, without locknut to be used with Mosaic or Mosaic Ultra prostheses
7639XL	Handle (368mm length) pliant, without locknut to be used with Mosaic or Mosaic Ultra prostheses
7308C	Mosaic Aortic Sizer Set (no handles, no tray)
7310	Mosaic Mitral Obturator Set (no handles, no tray)

† Equivalent to annulus diameter

Medtronic Open Pivot™ Mechanical Heart Valves

Optimal performance with excellent quality of life benefits.

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Fundamentally Different Design

- Unique axis of suspension results in leaflet movement responsive to physiological demands
- Gentle, passive washing ensures complete washing of the pivot in both open and closed positions

Quiet

- Most patients cannot hear the sound of their valve after implantation¹
- Low levels of hemolysis and thromboembolic events^{2,3}
- Orifice design and unique leaflet movement result in excellent EOAs, even in small sizes^{4,5}

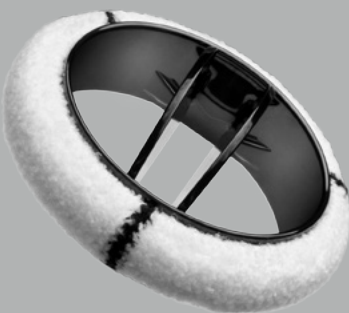


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1. Sezai A, et al. Evaluation of valve sound and its effects on ATS prosthetic valves in patients' quality of life. *Ann Thorac Surg.* 2000;69:507-12.
2. Shiono M, et al. Multi-institutional experience of the ATS open pivot bileaflet valve in Japan. *Ann Thorac Cardiovasc Surg.* 1996;2(1):51-8.
3. Sezai A, et al. Fifteen years of experience with ATS mechanical heart valve prostheses. *J Thorac Cardiovasc Surg.* 2010;139(6):1494-500.
4. ATS Medical Inc. Pre-market Approval Application - Summary of Safety and Effectiveness: 2000. Washington DC: U.S. Food and Drug Administration. 2000:P990046.
5. Feng Z, et al. In vitro hydrodynamic characteristics among three bileaflet valves in the mitral position. *Artif Organs.* 2000;24(5):346-54.



Open Pivot Standard
Intra-annular valve with generous, compliant cuff for exceptional implantability



Open Pivot AP
Supra-annular compact cuff configuration for excellent suturability and conformability



Open Pivot AP360
Supra-annular flanged cuff configuration for maximum flexibility, needle penetration and conformability

Medtronic Open Pivot™ Mechanical Heart Valves

Optimal performance with excellent quality of life benefits.

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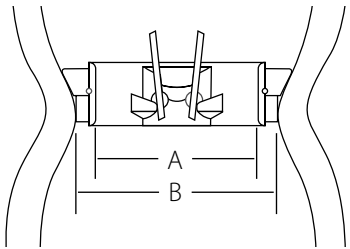
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Open Pivot Standard Heart Valve Aortic

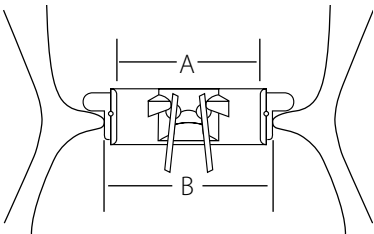
Order Number	Valve Size (mm)	A Orifice Inner Diameter (mm)	B Tissue Annulus (mm)	Geometric Orifice Area (cm ²)
500FA19	19	14.8	19.5	1.55
500FA21	21	16.8	21.5	2.02
500FA23	23	18.8	23.5	2.56
500FA25	25	20.8	25.5	3.17
500FA27	27	22.8	27.5	3.84
500FA29	29	24.8	29.5	4.59
500FA31	31	26.8	31.5	5.35



Standard Aortic

Open Pivot Standard Heart Valve Mitral

Order Number	Valve Size (mm)	A Orifice Inner Diameter (mm)	B Tissue Annulus (mm)	Geometric Orifice Area (cm ²)
500DM19	19	14.8	19.5	1.55
500DM21	21	16.8	21.5	2.02
500DM23	23	18.8	23.5	2.56
500DM25	25	20.8	25.5	3.17
500DM27	27	22.8	27.5	3.84
500DM29	29	24.8	29.5	4.59
500DM31	31	26.8	31.5	5.35
500DM33	33	26.8	33.5	5.35



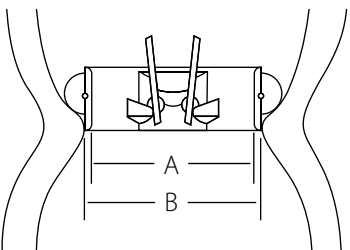
Standard Mitral

Open Pivot Accessories

Order Number	Description
576	OPHV Sizer Set, (Std, AP series, Handle, Tray)
556	OPHV Aortic and Mitral Handle Rotator Set
558	OPHV Leaflet Actuators (Non-sterile bag of 5)
569	OPHV Bendable Handle
577	OPHV Standard Sizer Set (just sizers)
578	OPHV AP Series Sizer Set (just sizers)
579	OPHV Sizer Sterilization Tray (tray only)
580	OPHV Screw-on Mitral Rotator End Set

Open Pivot AP and AP360° Heart Valves Aortic

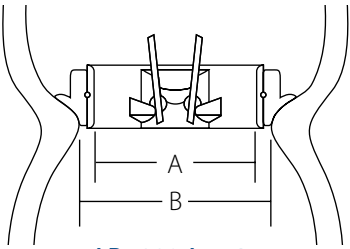
Order Number	Valve Size (mm)	A Orifice Inner Diameter (mm)	B Tissue Annulus (mm)	Geometric Orifice Area (cm ²)
501DA16/505DA16	16	14.8	16.2	1.55
501DA18/505DA18	18	16.8	18.2	2.02
501DA20/505DA20	20	18.8	20.2	2.56
501DA22/505DA22	22	20.8	22.2	3.17
501DA24/505DA24	24	22.8	24.2	3.84
501DA26/505DA26	26	24.8	26.2	4.59
501DA28/505DA28	28	26.8	28.2	5.35



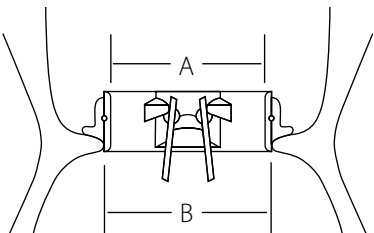
AP Aortic

Open Pivot AP360° Heart Valves Mitral

Order Number	Valve Size (mm)	A Orifice Inner Diameter (mm)	B Tissue Annulus (mm)	Geometric Orifice Area (cm ²)
501DM16	16	14.8	16.2	1.55
501DM18	18	16.8	18.2	2.02
501DM20	20	18.8	20.2	2.56
501DM22	22	20.8	22.2	3.17
501DM24	24	22.8	24.2	3.84
501DM26	26	24.8	26.2	4.59
501DM28	28	26.8	28.2	5.35



AP360° Aortic



AP360° Mitral



Contegra™

Pulmonary Valve Conduit

An integrated valved conduit for reconstruction or replacement of the natural right ventricular outflow tract (RVOT) or replacement of a failed homograft or composite pulmonary conduit.

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Natural

- Derived from a bovine jugular vein
- Flexible for unique tailoring as only natural tissue can offer
- Blood passes easily across a continuous tissue interface and natural sinus

Versatile

- Proximal length allows for infundibular shaping without patching
- Resilient wall retains suture and supports hemostatic suture line
- No additional materials necessary for proximal anastomosis

Convenient

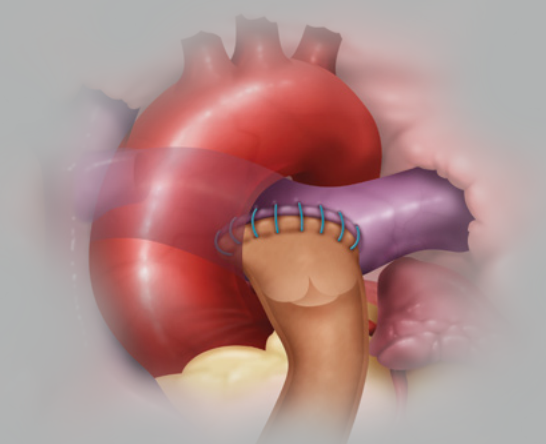
- Available in supported and unsupported models
- Preserved in buffered glutaraldehyde
- Readily available—no thawing or preclotting required



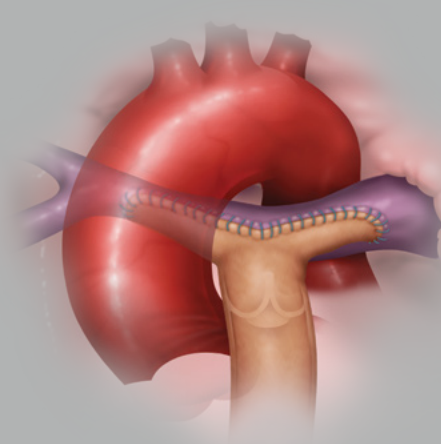
No discontinuity between the lumen and valve



Thin, compliant leaflets open fully and close readily with minimal pressure



Thin, extensible tissue is especially suited for anastomosis



Easily customized to individual needs

Contegra™

Pulmonary Valve Conduit

An integrated valved conduit for reconstruction or replacement of the natural right ventricular outflow tract (RVOT) or replacement of a failed homograft or composite pulmonary conduit.

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Contegra Pulmonary Valve Conduit - Supported

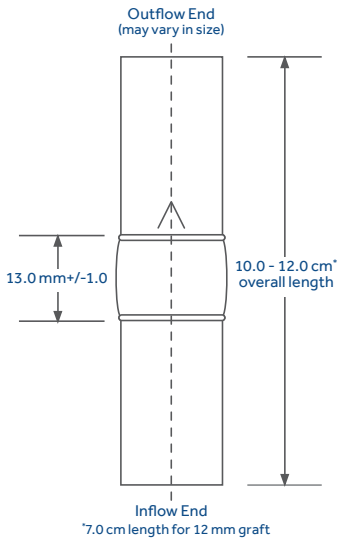
Order Number	Internal Diameter (Inflow End) (mm)
200SH12	12
200SH14	14
200SH16	16
200SH18	18

Model 01-0055 Torque Wrench (optional reusable jar opener)

Storage Temperature

+15 °C
+59 °F

+25 °C
+77 °F



Contegra Pulmonary Valve Conduit - Unsupported

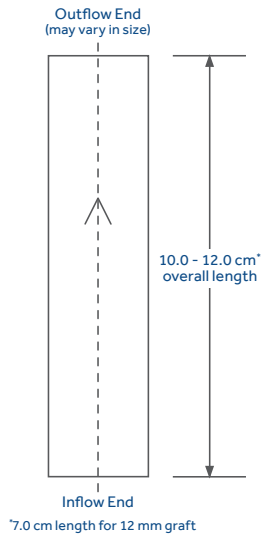
Order Number	Internal Diameter (Inflow End) (mm)
200H12	12
200H14	14
200H16	16
200H18	18

Model 01-0055 Torque Wrench (optional reusable jar opener)

Storage Temperature

+15 °C
+59 °F

+25 °C
+77 °F



Hancock™

Bioprosthetic Valved Conduit

With options for right and left heart applications.

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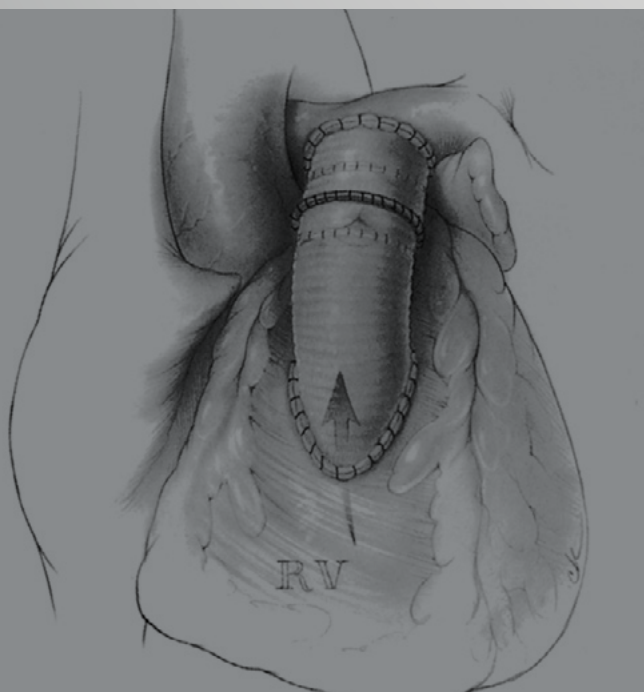
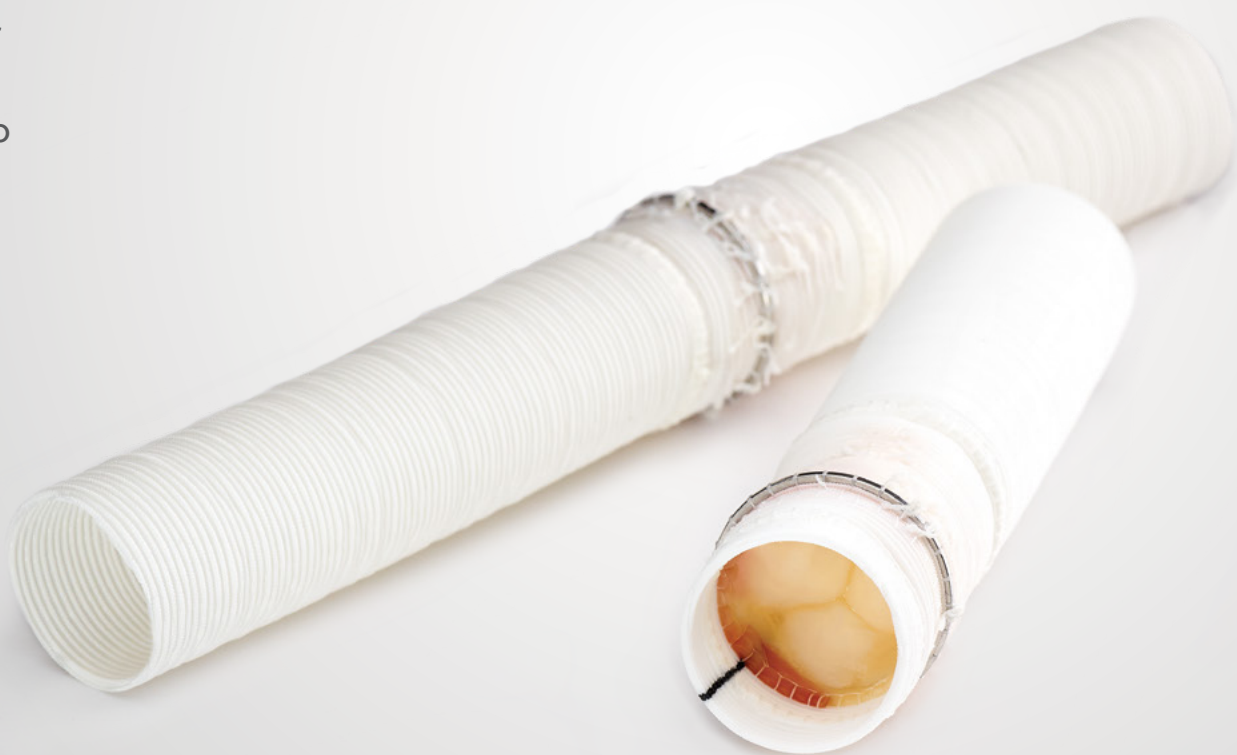
REVASCULARIZATION

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A Proven Alternative

Hancock valved conduits offer proven performance for reconstruction of congenital or acquired cardiac and great vessel malformations or pathologies for right heart applications.

- Porcine aortic valve sutured into a Dacron woven fabric conduit
- Stentless—optimizes the ratio of the conduit outer diameter to the inner diameter
- An external reinforcing ring at the valve annulus supports leaflet coaptation and allows radiographic visualization



HancockTM

Bioprosthetic Valved Conduit

With options for right and left heart applications.

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Model 150 | Hancock Modified Oriface Bioprosthetic Standard-Porosity Valved Conduits

Order Number	Valve Size (mm)
HC15012	12
HC15014	14
HC15016	16
HC15018	18
HC15020	20
HC15022	22
HC15025	25

For right heart applications



Model 105 | Hancock Bioprosthetic Low-Porosity Valved Conduits

Order Number	Valve Size (mm)
HC05012	12
HC05014	14
HC05016	16
HC05018	18
HC05020	20
HC05022	22
HC05025 	26

For right and left heart applications

Intentional Design

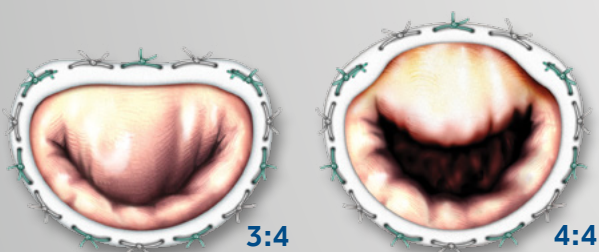
Unique composite design considers both cardiac cycles

- **Cardiac Systole**

The ring remodels the mitral valve orifice to normal 3:4 ratio between the anteroposterior and transverse diameters

- **Cardiac Diastole**

The ring's dynamic characteristics allow physiologic motion and movement to maintain the normal 4:4 ratio between anteroposterior and transverse diameters



Implant Ease

- Low profile design allows for ease of implant
- Unique eyelet design allows for easy anchoring to the trigones



Provides enough stiffness for posterior remodeling, while preserving dynamic annular motion

CG Future™

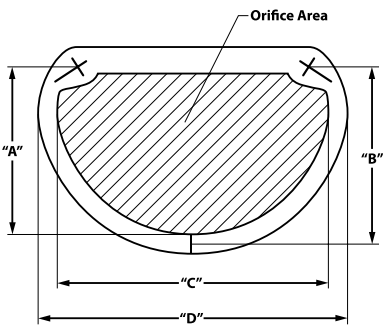
Semi-Rigid Annuloplasty Ring and Band

More physiologically-based mitral solutions.

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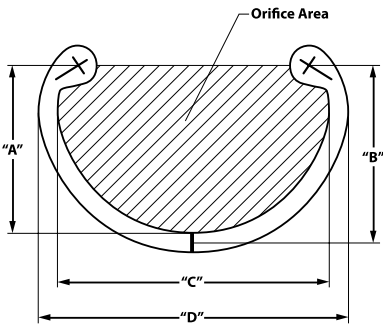
CG Future Annuloplasty Ring, Model 638R

Order Number	Ring Size (mm)	A (mm)	B (mm)	C (mm)	D (mm)	Orifice Area (mm²)
638RL24	24	15.27	16.53	24.0	28.9	269.3
638RL26	26	16.38	17.64	26.0	30.9	314.9
638RL28	28	17.48	18.73	28.0	32.9	364.3
638RL30	30	18.59	19.85	30.0	34.9	417.3
638RL32	32	19.71	20.97	32.0	36.9	474.7
638RL34	34	20.83	22.09	34.0	38.9	536.0
638RL36	36	21.92	23.18	36.0	40.9	600.9
638RL38	38	23.04	24.29	38.0	42.9	669.4



CG Future Annuloplasty Band, Model 638B

Order Number	Band Size (mm)	A (mm)	B (mm)	C (mm)	D (mm)	Orifice Area (mm²)
638BL26	26	16.38	17.64	26.0	30.9	332.0
638BL28	28	17.48	18.73	28.0	32.9	382.8
638BL30	30	18.59	19.85	30.0	34.9	437.4
638BL32	32	19.71	20.97	32.0	36.9	496.3
638BL34	34	20.83	22.09	34.0	38.9	559.2
638BL36	36	21.92	23.18	36.0	40.9	625.1
638BL38	38	23.04	24.29	38.0	42.9	695.7



CG Future Annuloplasty Band Accessories

Order Number	Description
T7630	CG Future Accessory Tray
7615	Annuloplasty Handle (216mm length)
7615XL	Annuloplasty Handle (373mm length)
7638S	CG Future Sizer Set (8 reusable sizers, 24 - 38mm)

Contour 3D™

Tricuspid Annuloplasty Ring

Accommodates anterior motion; provides posterior support.

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HEART VALVES

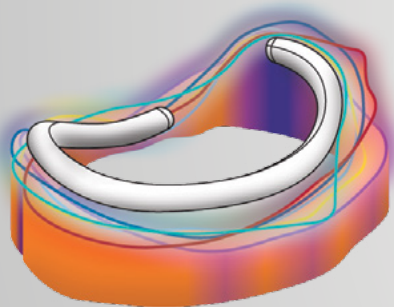
SURGICAL ABLATION

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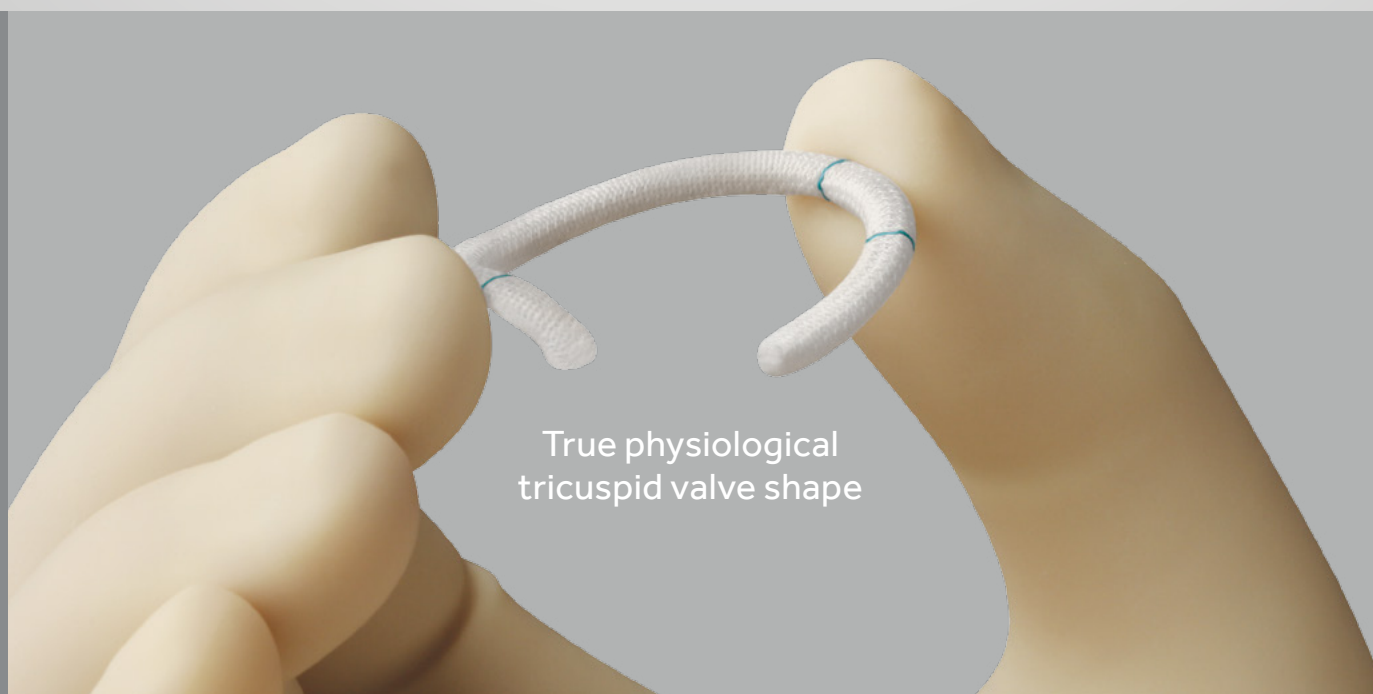
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Restores Anatomic 3D Shape

- Design of the Contour 3D ring is based on CT data from functional human tricuspid valves—offering surgeons a 3D remodeling ring anatomically shaped to the normal tricuspid annulus



- Low profile and smooth penetration
- Low profile height of 3.3mm helps to avoid interference with the heart's conduction system. In addition, unique fabric allows for smooth needle penetration



True physiological
tricuspid valve shape

Contour 3D™

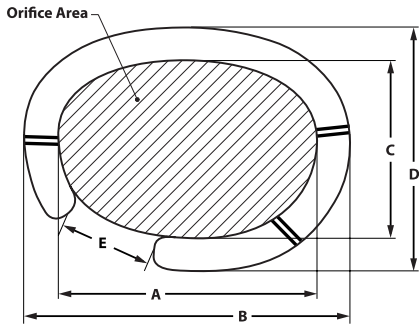
Tricuspid Annuloplasty Ring

Accommodates anterior motion; provides posterior support.

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Contour 3D Annuloplasty Ring, Model 690R

Order Number	Ring Size (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Orifice Area (mm²)
690R26	26	24	32	16	24	10	7	326.1
690R28	28	26	34	18	25	11	7	387.2
690R30	30	28	36	19	27	12	8	449.2
690R32	32	30	38	21	28	13	8	512.4
690R34	34	32	40	22	30	14	9	588.6
690R36	36	34	42	23	31	15	9	665.1



Contour 3D Annuloplasty Ring Accessories

Order Number	Description
T7690	Contour 3D Accessory Tray
7686	Annuloplasty Handle (216mm length)
7686XL	Annuloplasty Handle (373mm length)
7690S	Contour 3D Sizer Set (6 reusable sizers, 26 - 36mm)
7690SD	Contour 3D Sizer Set (6 disposable silicone sizers, 26 - 36mm)

Duran AnCore™

Flexible Annuloplasty Ring and Band

A clinically inspired design by Carlos Duran, MD, PhD,
with technology proven by more than 36 years of clinical experience.

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HEART VALVES
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Duran AnCore Ring

- Flexibility allows preservation of the natural physiologic motion of the annulus resulting in optimal hemodynamics¹
- Adapts to changes in the mitral orifice area during entire cardiac cycle²

Duran AnCore Band

- Optimum choice when only posterior annulus support is required^{3,4}
- Band length extends beyond the trigones to provide secure suturing

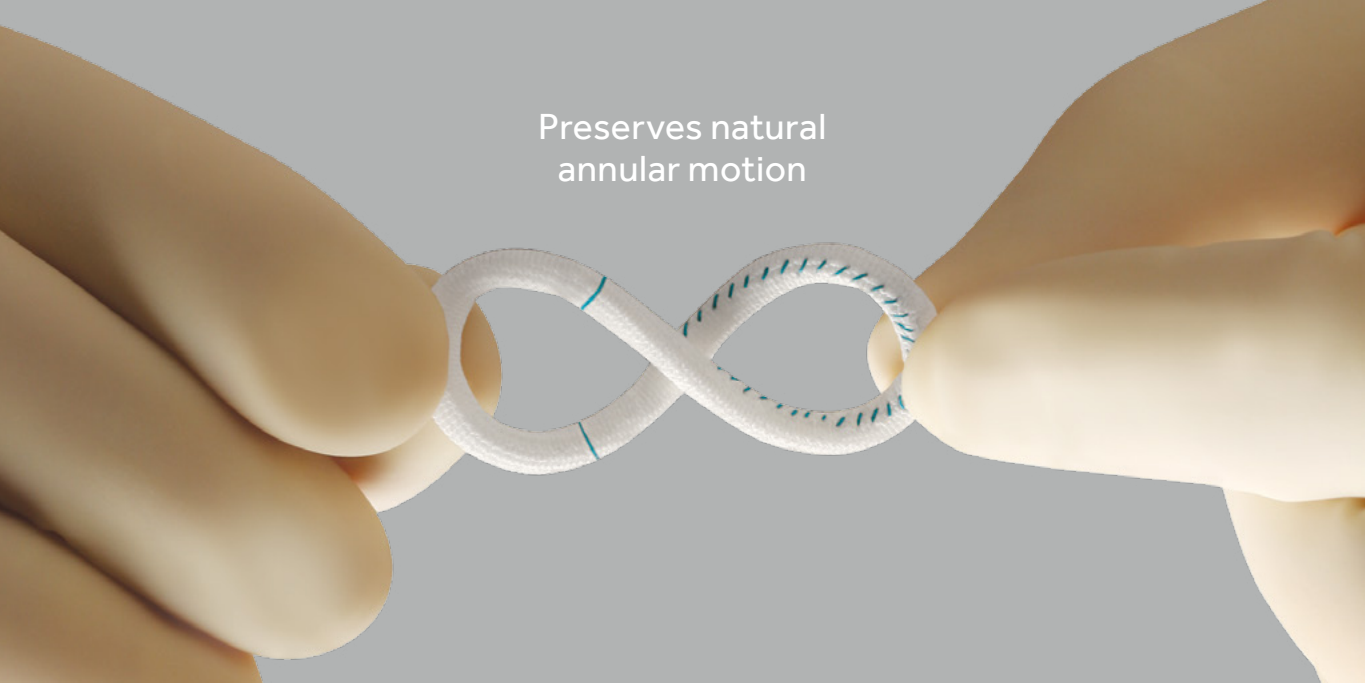
Ease of Implant

- Patented chordal guide facilitates replacement of mitral valve chordae tendineae



References

1. Kunzelman KS, Reimink MS, Cochran RP. Flexible Versus Rigid Ring Annuloplasty for Mitral Valve Annular Dilatation: A Finite Element and Model. *J Heart Valve Dis.* 1998;7:108-116.
2. Yamaura Y, Yoshikawa J, Yoshida K, et al. Three-dimensional Analysis of Configuration and Dynamics in patients with an Annuloplasty Ring by Multiplane Transesophageal Echocardiography: Comparison Between Flexible and Rigid Annuloplasty Rings. *J Heart Valve Dis.* 1995;4:618-22.
3. Duran CMG. Duran Flexible Annuloplasty Repair of the Mitral and Tricuspid Valves: Indications, Patient Selection, and Surgical Techniques using the Duran Flexible Annuloplasty Ring. Medtronic, Inc. 1992.
4. Odell JA, Schaff HV, Orszulak TA. Early Results of a Simplified Method of Mitral Valve Annuloplasty. *Circulation.* 1995;92 (Suppl 2):11-150-4.



Preserves natural
annular motion

Duran AnCore™

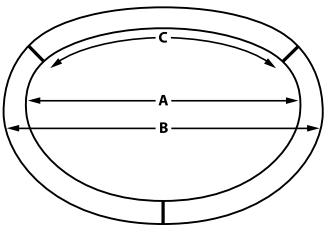
Flexible Annuloplasty Ring and Band

A clinically inspired design by Carlos Duran, MD, PhD,
with technology proven by more than 36 years of clinical experience.

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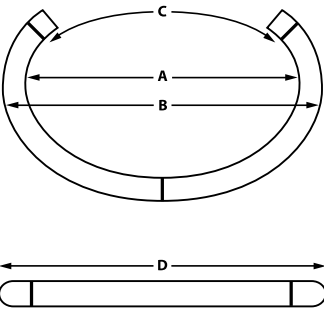
Duran AnCore Annuloplasty Ring, Model 620R

Order Number	Ring Size (mm)	A (mm)	B (mm)	C (mm)
620RG23	23	25.8	31.8	23
620RG25	25	27.8	33.8	25
620RG27	27	29.8	35.8	27
620RG29	29	31.7	37.7	29
620RG31	31	33.8	39.8	31
620RG33	33	35.8	41.8	33
620RG35	35	37.7	43.7	35



Duran AnCore Annuloplasty Band, Model 620B

Order Number	Band Size (mm)	A (mm)	B (mm)	C (mm)	D (mm)
620BG23	23	25.8	31.8	23	59
620BG25	25	27.8	33.8	25	63
620BG27	27	29.8	35.8	27	67
620BG29	29	31.7	37.7	29	73
620BG31	31	33.8	39.8	31	77
620BG33	33	35.8	41.8	33	81
620BG35	35	37.7	43.7	35	85



Duran AnCore Annuloplasty Ring and Band Accessories

Order Number	Description
T7660	Duran AnCore Accessory Tray
7620H/7686	Annuloplasty Handle (216mm length)
7620HXL/7686XL	Annuloplasty Handle (373mm length)
7620S	Duran AnCore Sizer Set

Profile 3D™

Rigid Annuloplasty Ring

Engineered to maintain anterior and posterior dimensions of the mitral annulus.

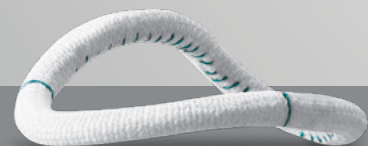
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Restoring Annular Geometry

- Unique asymmetrical 3D design engineered to maintain anterior and posterior dimensions of mitral annulus to restore annular geometry

Saddle Shape

- The saddle shape, based on the annular geometry of normal human mitral annuli, may reduce stress and increase mitral valve durability^{1,2}
- Design provides a consistent 25% anterior curvature and 15% posterior curvature reducing peak leaflet stress³



25%
Anterior
Curvature

15%
Posterior
Curvature

Restores annular geometry

References

1. Published U.S. Patent Application Nos. 2005-0021135 A1 and 2006-0025856 A1.
2. Fedak P, McCarthy P, Bonow R. Evolving concepts and technologies in mitral valve repair. *Circulation*. 2008;117:963-74.
3. Salgo I, Gorman J, Gorman R, et al. Effect of annular shape on leaflet curvature in reducing mitral leaflet stress. *Circulation*. 2002;106:711-7.

Profile 3D™

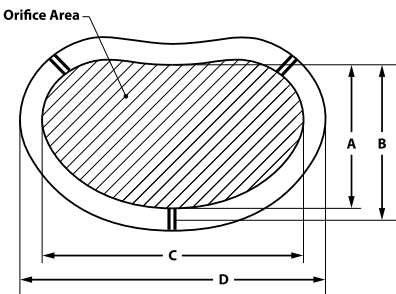
Rigid Annuloplasty Ring

Engineered to maintain anterior and posterior dimensions of the mitral annulus.

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HEART VALVES
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Profile 3D Annuloplasty Ring, Model 680R

Order Number	Ring Size (mm)	A (mm)	B (mm)	C (mm)	D (mm)	Orifice Area (mm²)
680R24	24	13.4	15.0	24.2	30.5	278
680R26	26	14.5	16.1	26.2	32.5	325
680R28	28	15.6	17.2	28.2	34.5	376
680R30	30	16.7	18.3	30.2	36.5	430
680R32	32	17.8	19.4	32.2	38.5	489
680R34	34	18.9	20.5	34.2	40.5	550
680R36	36	19.8	21.4	36.2	42.5	612
680R38	38	20.9	22.5	38.2	44.5	683
680R40	40	22.0	23.6	40.2	46.5	756



Profile 3D Annuloplasty Ring Accessories

Order Number	Description
T7680	Profile 3D Accessory Tray
7686	Annuloplasty Handle (216mm length)
7686XL	Annuloplasty Handle (373mm length)
7680S	Profile 3D Sizer Set (6 reusable sizers, 26-36mm)

Simplici-T™

Flexible Annuloplasty Band

Designed to repair annular dilation while preserving 3D motion during the cardiac cycle.

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Eliminate the Need for Traditional Sizing

- Provides a custom fit for mitral and tricuspid patients through graduated markings that can be used to measure the implanted band length
- Unique, low-profile flexible band is supplied in a length of 100mm

Adapts to Pathology

- Adapts to the unique needs of every patient based on pathology. Band length is determined by the annular size and degree of plication.



Customizable, flexible band for every patient



Simplici-T™

Flexible Annuloplasty Band

Designed to repair annular dilation while preserving 3D motion during the cardiac cycle.

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Simplici-T Annuloplasty Band, Model 670

Order Number		Band Size (mm)	Description
607100		100	Simplici-T Annuloplasty Band



Simulus™

Flexible Annuloplasty Ring and Band

Flexible ring and band enabling easy manipulation in varied approaches and exposures.

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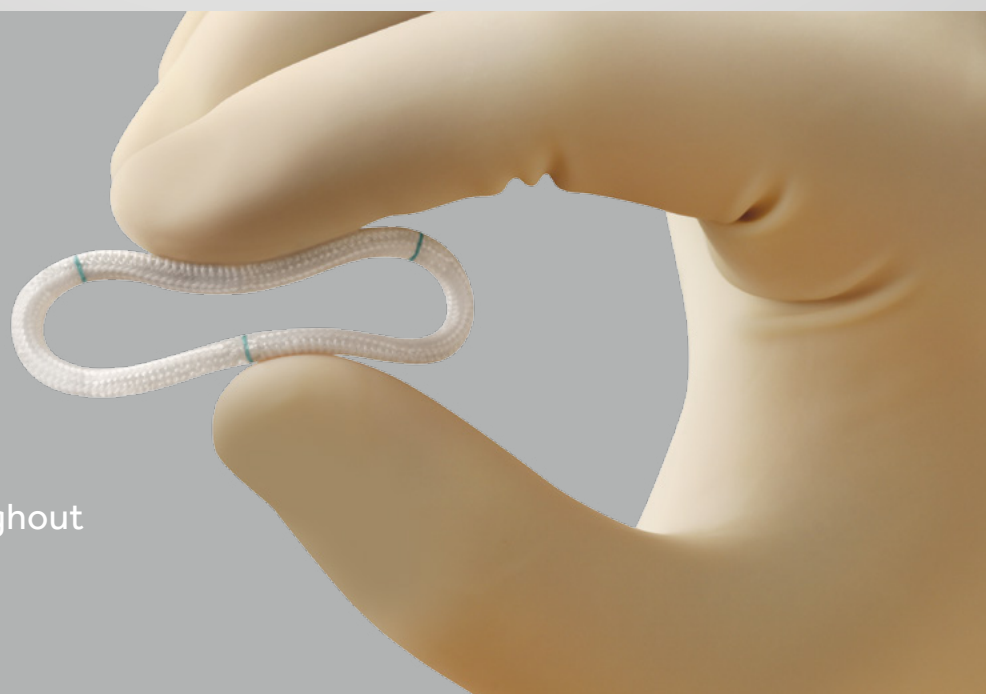
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Unique Braided Polyester

- Discourages bunching or crimping while enabling low resistance, smooth needle penetration
- Accommodates sternotomy, thoracotomy and minimally invasive procedures

Ease of Implant

- Trigone and midline posterior markers assist in precise suture placement and band positioning
- Flexible throughout cardiac cycle with a low profile design



Flexibility throughout cardiac cycle

Simulus™

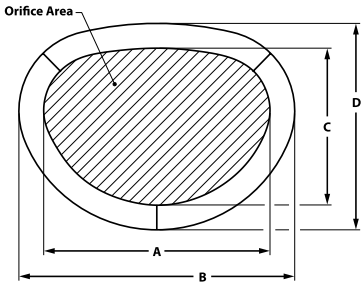
Flexible Annuloplasty Ring and Band

Flexible ring and band enabling easy manipulation in varied approaches and exposures.

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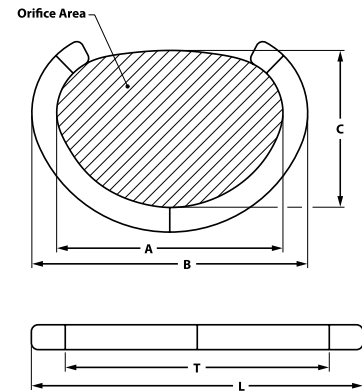
Simulus Flexible Annuloplasty Ring, Model 700FF

Order Number	Ring Size (mm)	A (mm)	B (mm)	C (mm)	D (mm)	Orifice Area (mm²)
700FF23	23	24	30	17.1	23.1	325
700FF25	25	27	33	19.5	25.5	418
700FF27	27	29	35	20.9	26.9	481
700FF29	29	31	37	22.3	28.3	550
700FF31	31	33	39	23.8	29.8	622
700FF33	33	35	41	25.2	31.2	700
700FF35	35	37	43	26.6	32.6	781
700FF37	37	39	45	28.0	34.0	867
700FF39	39	41	47	29.4	35.4	958



Simulus Flexible Annuloplasty Band, Model 700FC

Order Number	Band Size (mm)	A (mm)	B (mm)	C (mm)	L Straight Length (mm)	T Straight Length Between Trigone Markers (mm)	Orifice Area (mm²)
700FC23	23	24	30	17.1	59	53	325
700FC25	25	27	33	19.5	63	57	418
700FC27	27	29	35	20.9	67	61	481
700FC29	29	31	37	22.3	73	65	550
700FC31	31	33	39	23.8	77	69	622
700FC33	33	35	41	25.2	81	73	700
700FC35	35	37	43	26.6	85	77	781
700FC37	37	39	45	28.0	89	81	867
700FC39	39	41	47	29.4	93	85	958



Simulus Flexible Annuloplasty Ring and Band Accessories

Order Number	Description
750	Simulus Flexible Ring/Band Accessory Kit
755	Simulus Flexible Ring/Band Robotic Accessory Kit
752	Annuloplasty Handles (254mm length) (2)

Simulus™

Semi-Rigid Annuloplasty Ring and Band

Distinctive hybrid design enable shaping by dynamic annular motion.

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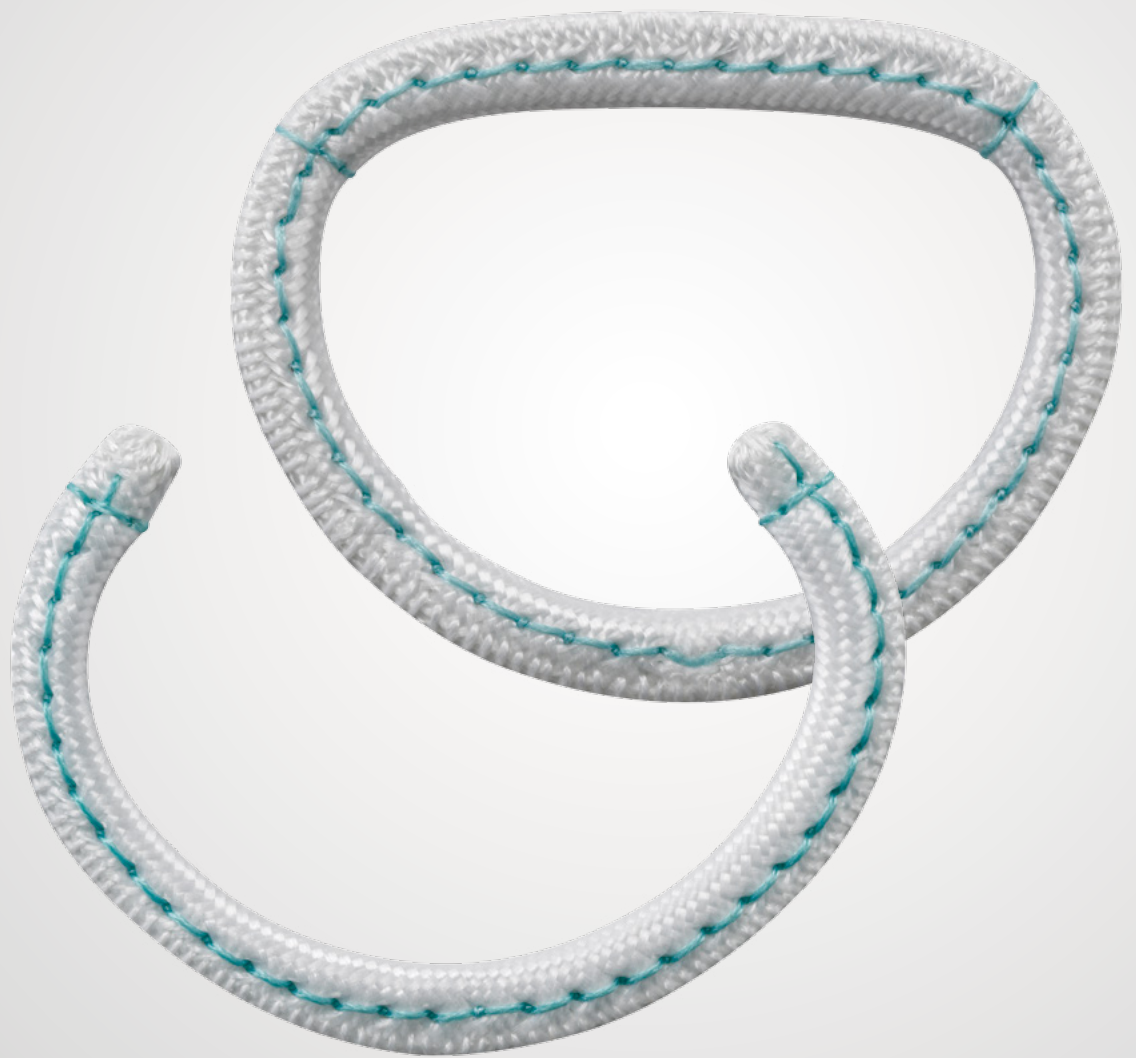
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Saddle and Flat Shape

- Defined suture area, and braided fabric for smooth needle penetration and one cut release
- Takes the shape of the annulus rising as a saddle in systole and flattening to a planar shape in diastole
- Respects annular motion while preserving posterior support

Sew-Easy Implant

- Braided polyester materials enables smooth needle penetration anywhere along ring or band preventing crimping or bunching
- Trigone markers assist in suture placement and positioning
- Flexible tips allow secure attachment at the trigones



Hybrid design to model natural annular dynamics



Simulus™

Semi-Rigid Annuloplasty Ring and Band

Distinctive hybrid design enable shaping by dynamic annular motion.

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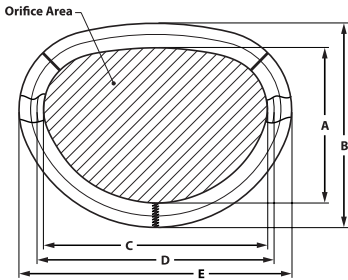
HEART VALVES

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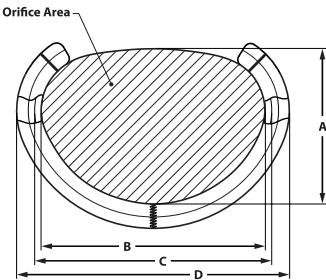
Simulus Semi-Rigid Annuloplasty Ring, Model 800SR

Order Number	Ring Size (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Orifice Area (mm ²)
800SR24	24	15.6	23.4	22.6	24	30.3	281
800SR26	26	17.0	24.4	24.5	26	31.9	329
800SR28	28	18.3	25.6	26.3	28	33.7	381
800SR30	30	19.6	27.3	28.2	30	36.0	436
800SR32	32	20.9	28.3	30.1	32	37.6	497
800SR34	34	22.2	29.6	32.0	34	39.4	561
800SR36	36	23.5	30.9	33.9	36	41.3	630
800SR38	38	24.8	32.2	35.8	38	43.2	702
800SR40	40	26.1	33.5	37.6	40	45.1	779



Simulus Semi-Rigid Annuloplasty Band, Model 800SC

Order Number	Band Size (mm)	A (mm)	B (mm)	C (mm)	D (mm)	Orifice Area (mm ²)
800SC24	24	15.6	22.6	24	30.3	281
800SC26	26	17.0	24.5	26	31.9	329
800SC28	28	18.3	26.3	28	33.7	381
800SC30	30	19.6	28.2	30	36.0	436
800SC32	32	20.9	30.1	32	37.6	497
800SC34	34	22.2	32.0	34	39.4	561
800SC36	36	23.5	33.9	36	41.3	630
800SC38	38	24.8	35.8	38	43.2	702
800SC40	40	26.1	37.6	40	45.1	779



Simulus Semi-Rigid Annuloplasty Ring and Band Accessories

Order Number	Description
850	Simulus Semi-Rigid Ring/Band Accessory Kit
752	Annuloplasty Handles (254mm length) (2)

Tri-Ad™

Adams Tricuspid Annuloplasty Ring

Designed to repair annular dilation while preserving 3D motion during the cardiac cycle.

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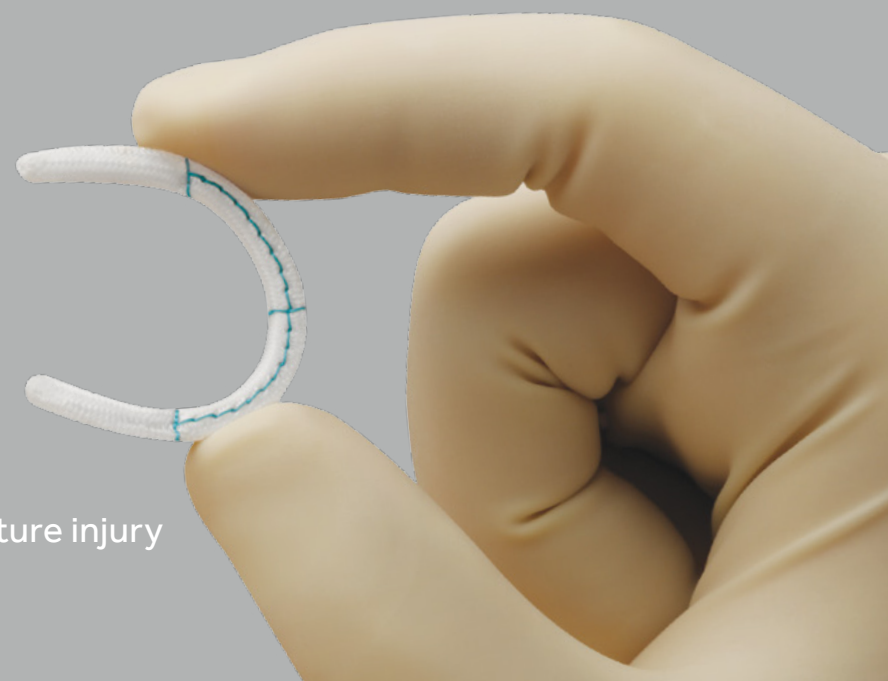
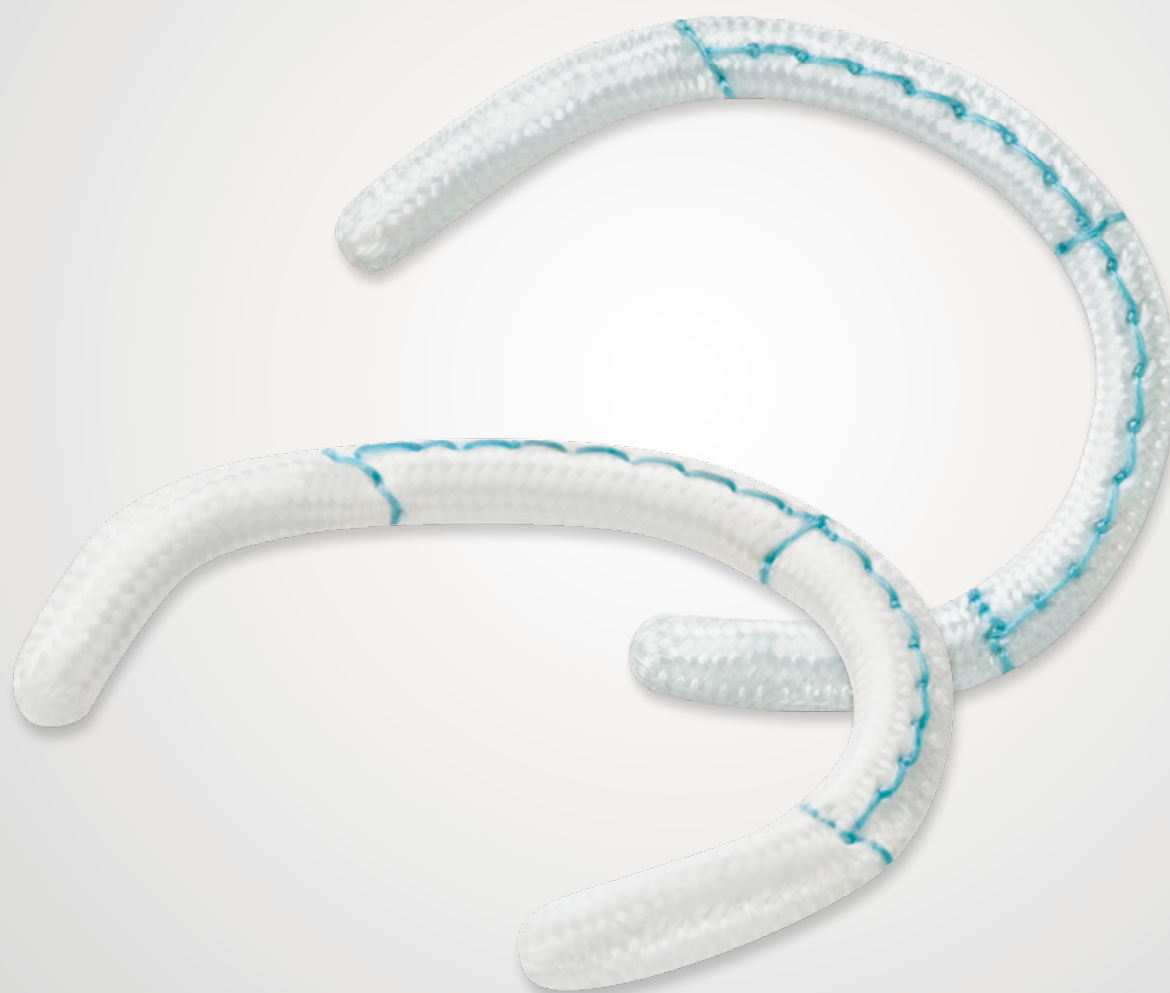
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Smooth Implantation

- Braided sewing ring construction provides smooth needle penetration that prevents bunching; one-cut release
- Large open area minimizes potential suture injury to conduction tissue

Adapts to Tricuspid Anatomy¹

- Repairs annular dilation while preserving 3D motion during cardiac cycle
- Enables adaption to non-planar geometry of the tricuspid valve in systole and diastole
- Semi rigid segment addresses annular dilation along right ventricular free wall



References

1. Milla, F. et al. Rationale and initial experience with the Tri-Ad Adams tricuspid annuloplasty ring. *Journal of Thoracic and Cardiovascular Surgery* 143;4S:S71-3.

Minimizes potential suture injury to conduction tissue

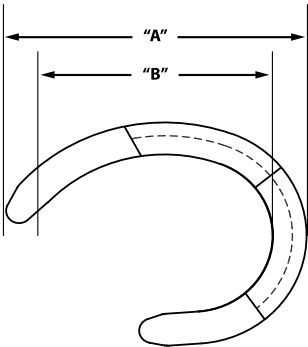
Adams Tricuspid Annuloplasty Ring

Designed to repair annular dilation while preserving 3D motion during the cardiac cycle.

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Tri-Ad Adams Tricuspid Annuloplasty Ring, Model 900SFC

Order Number	Ring Size (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Orifice Area (mm²)
900SFC26	26	17.4	25.8	25.6	33.2	15.5	365
900SFC28	28	19.4	27.6	28.1	24.9	17.1	435
900SFC30	30	20.9	29.1	30.6	37.2	18.5	502
900SFC32	32	22.3	30.7	31.5	38.2	20.0	557
900SFC34	34	24.0	32.3	34.7	41.1	20.9	654
900SFC36	36	25.5	33.8	36.3	42.9	21.9	730



Tri-Ad Adams Tricuspid Annuloplasty Ring Accessories

Order Number	Description
950	Tri-Ad Adams Ring Accessory Kit
951	Tri-Ad Adams Ring Sizer Set (polysulfone & silicone)
752	Annuloplasty Handles (254mm length) (2)

Streamline™

Temporary Pacing Leads

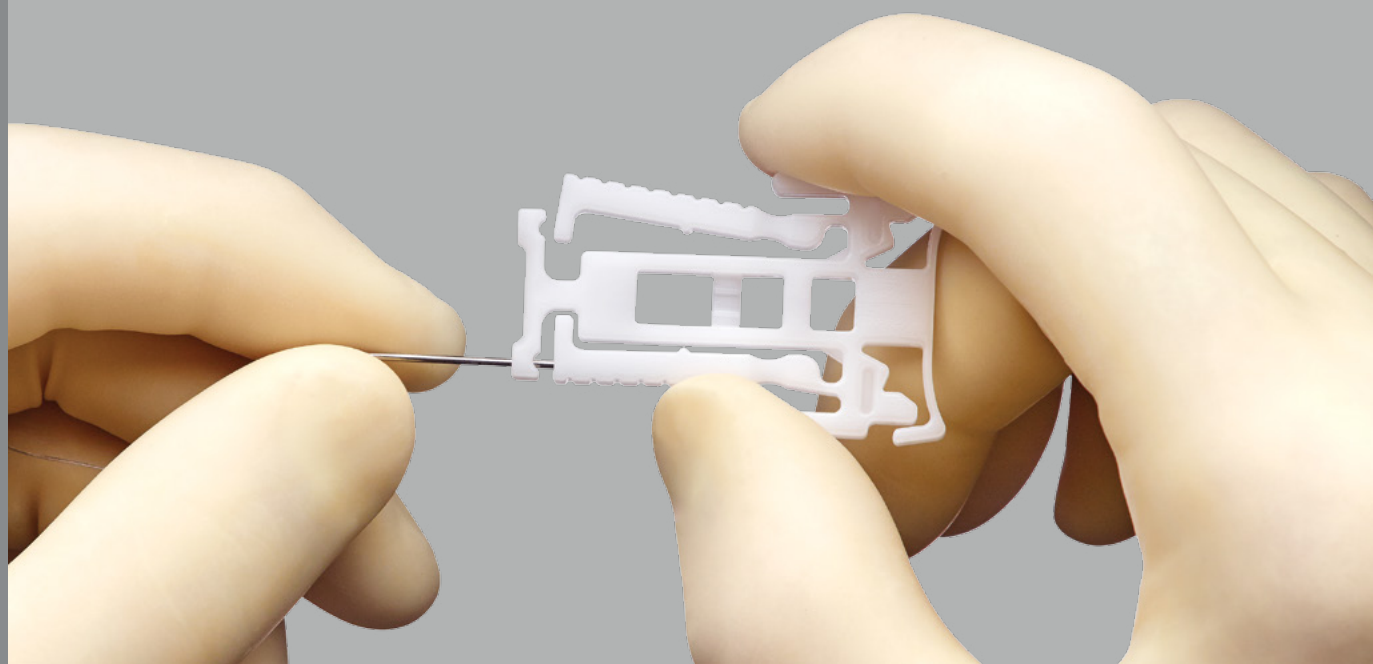
The Streamline family is the gold standard in temporary pacing leads.

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Generations of Innovation

The Streamline family is designed for temporary pacing and sensing during and after cardiac surgery. The Streamline family includes models that offer consistent unipolar atrial and ventricular pacing, pediatric unipolar pacing and bipolar pacing. All Medtronic temporary pacing leads are compatible with Medtronic external pulse generators. Integrating more than 50 years of scientific and technological pacing expertise into our temporary pacing leads, Streamline is the lead you can trust.



Streamline™

Temporary Pacing Leads

The Streamline family is the gold standard in temporary pacing leads.

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Premium 6500 Unipolar Temporary Myocardial Pacing Lead

- Relaxed fixation coil minimizes trauma during pacing lead insertion
- Diameter of the curved myocardial needle has been reduced from 0.66mm to 0.61mm to minimize tissue perforation
- Discrete electrode for consistent sensing and pacing
- Easy-to-use breakaway chest needle has been reduced in diameter from 1.00mm to 0.86mm to minimize perforation
- Silastic fixation disc for atrial placement
- Connector pin sleeves insulate connector pins while not in use

Bipolar Coaxial 6495 Bipolar Temporary Myocardial Pacing Lead

- Features coaxial lead body for excellent electrical performance
- Curved myocardial needle is slimmer – reduced from 0.66mm to 0.61mm to minimize tissue perforation
- Two discrete electrodes are optimally spaced for consistent pacing and sensing
- Proximal electrode is swaged for smoother transition through tissue
- Relaxed fixation coil minimizes tissue trauma while securely positioning electrode
- Connector pin sleeves insulate connector pins while not in use

Pediatric 6491 Unipolar Pediatric Temporary Pacing Lead

- Smaller fixation coil well suited for thinner pediatric tissue
- Curved chest needle for greater leverage through small chest cavity
- Discrete electrode for consistent sensing and pacing
- Connector pin sleeves insulate connector pins while not in use

Atrial 6492 Unipolar Temporary Atrial Pacing Lead

- Smaller fixation coil well suited for thinner atrial tissue
- Discrete electrode for consistent sensing and pacing
- Straight breakaway chest needle diameter reduced from 1.00mm to 0.86mm minimizes trauma during lead insertion
- Connector pin sleeves insulate connector pins while not in use

Convenience 6494 Unipolar Temporary Myocardial Pacing Wire

The Convenience wire is a temporary pacing wire designed for either atrial or ventricular sensing and pacing.

- Conductive wire length extended from 50mm to 70mm
- Curved myocardial needle diameter reduced from 0.55mm to 0.43mm to minimize trauma during heart wire insertion
- Chest needle diameter reduced from 1.00 mm to 0.86 mm to minimize perforation
- Color-coded leads come conveniently packaged, two per sleeve
- Connector pin sleeves insulate connector pins while not in use

Important Safety Information
The possibility of dislodgement, lead fractures, threshold elevation and sensing inconsistency exists. Other potential complications include, but are not limited to, myocardial irritability, septicaemia and myocardial infections, myocardial bleeding and damage, especially during removal of the pacing lead(s).

Streamline Temporary Pacing Leads

Streamline Family	Description	Quantity
PREMIUM 6500	Model 6500 Unipolar Temporary Myocardial Pacing Lead	12
BIPOLAR COAXIAL 6495	Model 6495 Bipolar Temporary Myocardial Pacing Lead	6
PEDIATRIC 6491	Model 6491 Unipolar Pediatric Temporary Pacing Lead	12
ATRIAL 6492	Model 6492 Unipolar Temporary Atrial Pacing Lead	12
CONVENIENCE 6494	Model 6494 Unipolar Temporary Myocardial Pacing Wire	24

Cardioblade™ iRF

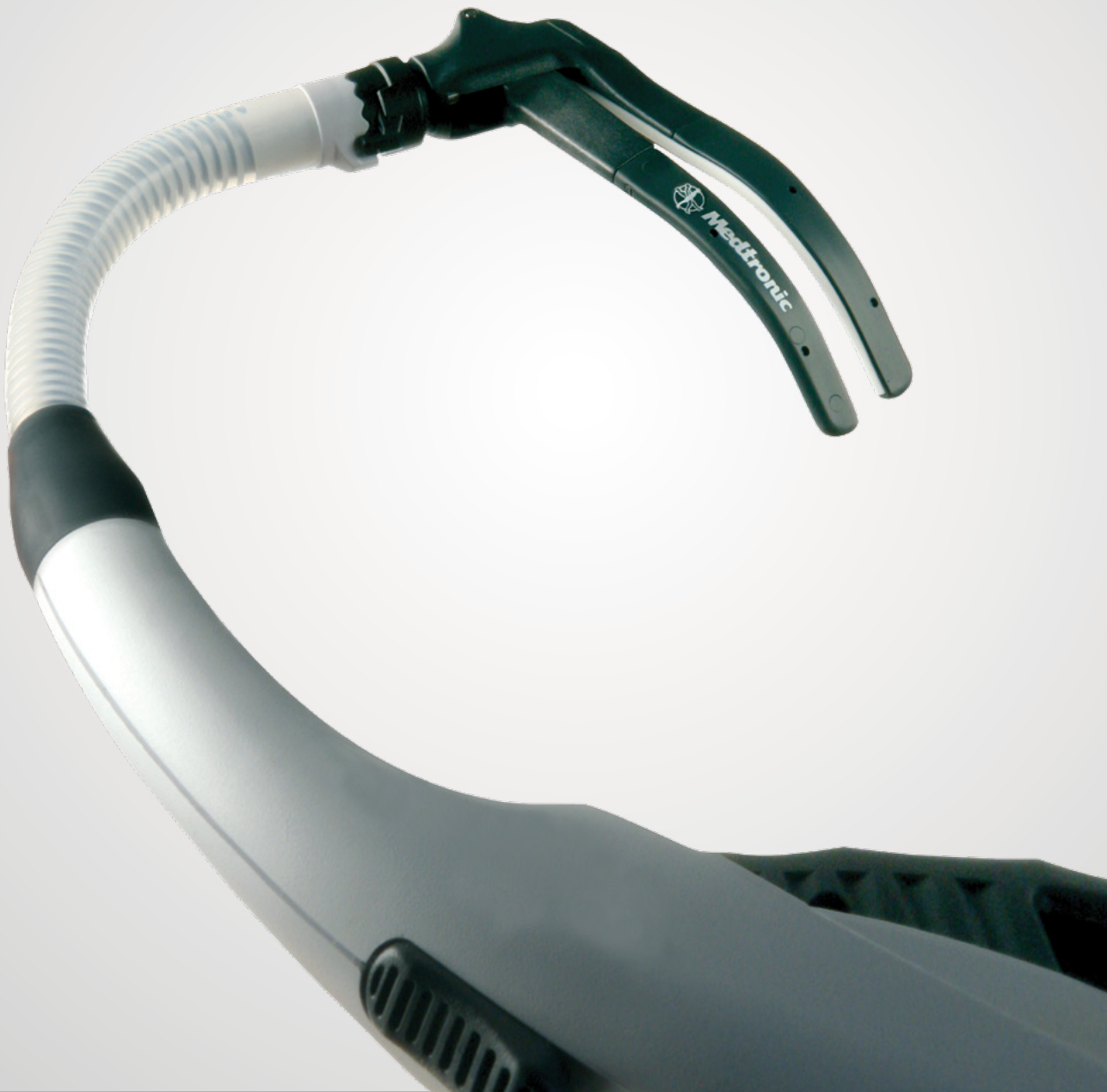
Surgical Ablation System

Unique malleability delivers irrigated RF to confidently create transmural lesions.

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Designed For Easy Access

Cardioblade iRF surgical ablation systems are designed with maneuverability, placement and visualization in mind. Uniquely malleable devices put surgeons in control of every procedure with superior energy sources that give greater confidence of lesion transmural.



Malleable Jaws | Conforms to pulmonary veins and atrial anatomies.



Rotatable Jaws | Rotate the head up to 300° to facilitate placement.

Cardioblate™ iRF Surgical Ablation System

Unique malleability delivers irrigated RF to
confidently create transmural lesions.

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Cardioblate iRF Surgical Ablation Systems

Order Number	Description
68000	Cardioblate Surgical Ablation System (includes generator, power cord and foot switch)
60813	Cardioblate Surgical Ablation Pen
60814	Cardioblate XL Surgical Ablation Pen
49205	Cardioblate MAPS Device
60831	Cardioblate PB2 Surgical Ablation Device
60841	Cardioblate LP Surgical Ablation Device
49260	Cardioblate Gemini™-s Surgical Ablation Device



Cardioblate iRF Clamps, Pens & MAPS Device

Order Number	Description
60832	BP2 & Pen (1 each packed and shipped together)
CK9014R	BP2 & XL Pen
60842	LP & XL Pen
CK9016R	LP & XL Pen (1 each packed and shipped together)
SGEMPACK	Cardioblate Gemini-s Surgical Ablation Device & Cardioblate MAPS Device (1 each packed and shipped separately)



Cardioblate iRF Accessories

Order Number	Description
60883	iRF Generator Footswitch
4807	iRF Generator Power Cord
10004D	DLP "Y" Connectors
68005	EGM Cable
5103	Y-adaptor for 2090/2290 Programmer
5437	EKG Slave Cable for 2090/2290 Programmer



CyroFlex™

Surgical Ablation System

Unique malleability delivers argon-powered cryoablation for reproducible, transmural lesions with a single probe.

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Designed For Easy Access

CryoFlex surgical ablation systems are designed with maneuverability, placement and visualization in mind. Uniquely malleable devices put surgeons in control of every procedure with superior energy sources that give greater confidence of lesion transmuralty.



Hand malleable | The tip of the probe can be custom shaped quickly by hand.



CryoFlex™

Surgical Ablation System

Unique malleability delivers argon-powered cryoablation for reproducible, transmural lesions with a single probe.

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CryoFlex Surgical Ablation Systems

Order Number	Description
65CS1	CryoFlex Control Panel
60SF7	CryoFlex Probe, 7cm
60SF2	CryoFlex Probe, 10cm
60SF3	CryoFlex 10-S Probe, 10cm
60CM1	CryoFlex Clamp and Probe, 10cm

CryoFlex and Cardioblate iRF Bundles

Order Number	Description
BP2CF	BP2 & CryoFlex 10cm Probe
BP2CF3	BP2 & CryoFlex 10-S Probe
LPCF	LP & CryoFlex 10cm Probe
LPCF3	LP & CryoFlex 10-S Probe

CryoFlex Accessories

Order Number	Description
67RAXNA	CryoFlex Regulator (with pressure sensor cables)
671PCNA	Power Cord; CryoFlex Control Panel
67H08	Gas Hose; CryoFlex System
65TC1	CryoFlex Tank Carrier



OPCAB

Conventional Beating Heart Surgery

Reliable stability for completing a beating heart anastomosis based on each surgeon's preference.

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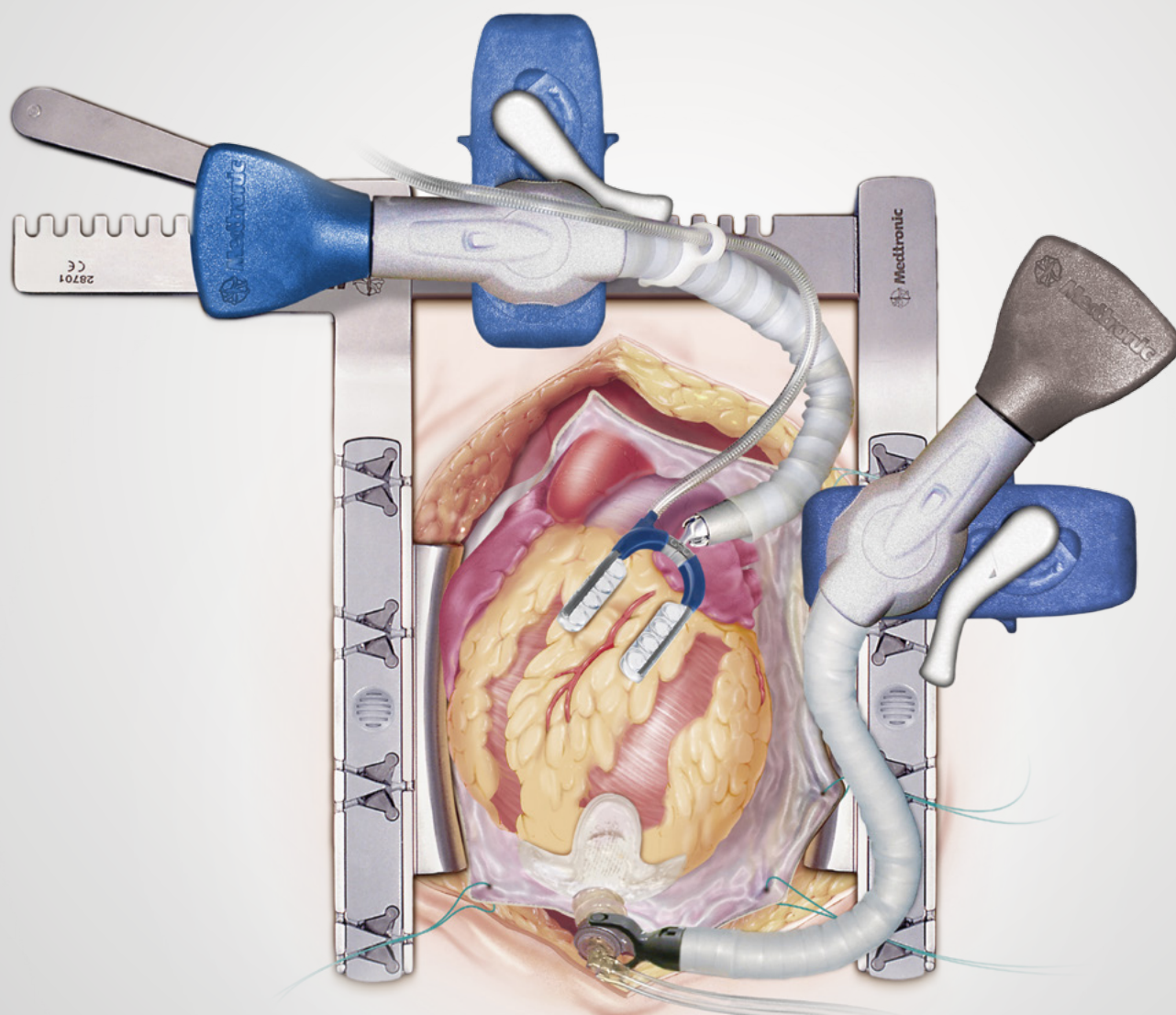
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Facilitating Solutions

Urchin™ and Starfish™ Heart Positioners work in concert with the Octopus™ Tissue Stabilizers to facilitate clinical solutions for OPCAB procedures. Cardiac Surgeons can choose from two positioner options, both of which provide enhanced visualization of the anastomotic sites.



OPCAB

Conventional Beating Heart Surgery

Reliable stability for completing a beating heart anastomosis based on each surgeons preference.

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Stabilizers

Order Number	Description
TS2500	Octopus Evolution AS Tissue Stabilizer
TS2000	Octopus Evolution Tissue Stabilizer
29403	Octopus 4.3 Tissue Stabilizer
29400	Octopus 4 Tissue Stabilizer



Positioner

Order Number	Description
HP3500	Urchin Evo Heart Positioner



Positioner

Order Number	Description
HP3000	Starfish Evo Heart Positioner



Beating Heart Stabilizer & Positioner Bundles

Order Number	Description
EASE	Octopus Evolution AS Tissue Stabilizer and Starfish Evo Heart Positioner
EAUE	Octopus Evolution AS Tissue Stabilizer and Urchin Evo Heart Positioner
ESE	Octopus Evolution Tissue Stabilizer and Starfish Evo Heart Positioner
EUE	Octopus Evolution Tissue Stabilizer and Urchin Evo Heart Positioner
43ES	Octopus 4.3 Tissue Stabilizer and Starfish Evo Heart Positioner
43EU	Octopus 4.3 Tissue Stabilizer and Urchin Heart Positioner
4EU	Octopus 4 Tissue Stabilizer and Urchin Evo Heart Positioner

Octobase Sternal Retractor System

Order Number	Description
28701	Retractor with reusable stainless steel blade inserts
28702	Stainless steel blanks - standard (reusable)
28703	Swivel blades - standard depth (reusable)
28704	Swivel blades - deep (reusable)
28705	Fixed blades - standard depth (reusable)
28706	Fixed blades - deep (reusable)
28707	Suture holder inserts (disposable)
28709	Retractor handle - replacement component
28710	Fixed skirted blades - deep (reusable)



MICS Bundles

Order Number	Description
NUB3	1 Starfish NS, 1 Octopus Nuvo
MICS 3	5 Octopus Nuvo, 5 Starfish NS, and 1 Thoratrak Retractor System
4ES	1 Octopus 4, 1 Starfish Evo

NOTE: Table clamps are not provided in the MICS Bundles

MICS Accessories

Order Number	Description
28042	Table Clamp



Order Number	Description
28045	Octopus Retractor Adaptor



Minimally Invasive Cardiac Surgery MICS CABG

The stability and familiarity of OPCAB — now available for minimally invasive procedures.

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Direct Visualization, MICS Made Possible

Medtronic offers a complete portfolio of MICS enabling technologies and training opportunities for today's cardiac surgeons. Consider your options for CABG, Valve and Hybrid Coronary Revascularization (HCR) procedures using minimally invasive techniques and technologies.



Minimally Invasive Cardiac Surgery

MICS CABG

The stability and familiarity of OPCAB — now available for minimally invasive procedures.

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Stabilizer

Order Number	Description
TSMICS1	Octopus Nuvo Tissue Stabilizer



Stabilizer

Order Number	Description
TS102	Octopus NS Tissue Stabilizer



Positioner

Order Number	Description
HP102	Starfish NS Heart Positioner



MISC Bundles

Order Number	Description
NUB3	1 Starfish NS, 1 Octopus Nuvo
MICS 3	5 Octopus Nuvo, 5 Starfish NS, and 1 Thoratrak Retractor System
4ES	1 Octopus 4, 1 Starfish Evo

NOTE: Table clamps are not provided in the MICS Bundles

Thoratrak MICS Retractor System

Order Number	Description
28601	Blade - LIMA standard
28602	Blade - LIMA deep
28603	Blade - long thoracotomy standard
28604	Blade - long thoracotomy deep
28604B	Blade - long extended mount standard
28605	Blade - short thoracotomy standard
28606	Blade - short thoracotomy deep
28606B	Blade - short extended mount standard
28610	Thoratrak Retractor System (retractor + multiple blade sets)
28611	Retractor rack



MICS Accessories

Order Number	Description
28042	Table Clamp



Order Number	Description
28045	Octopus Retractor Adaptor



OPCAB Accessories Enabling Technologies

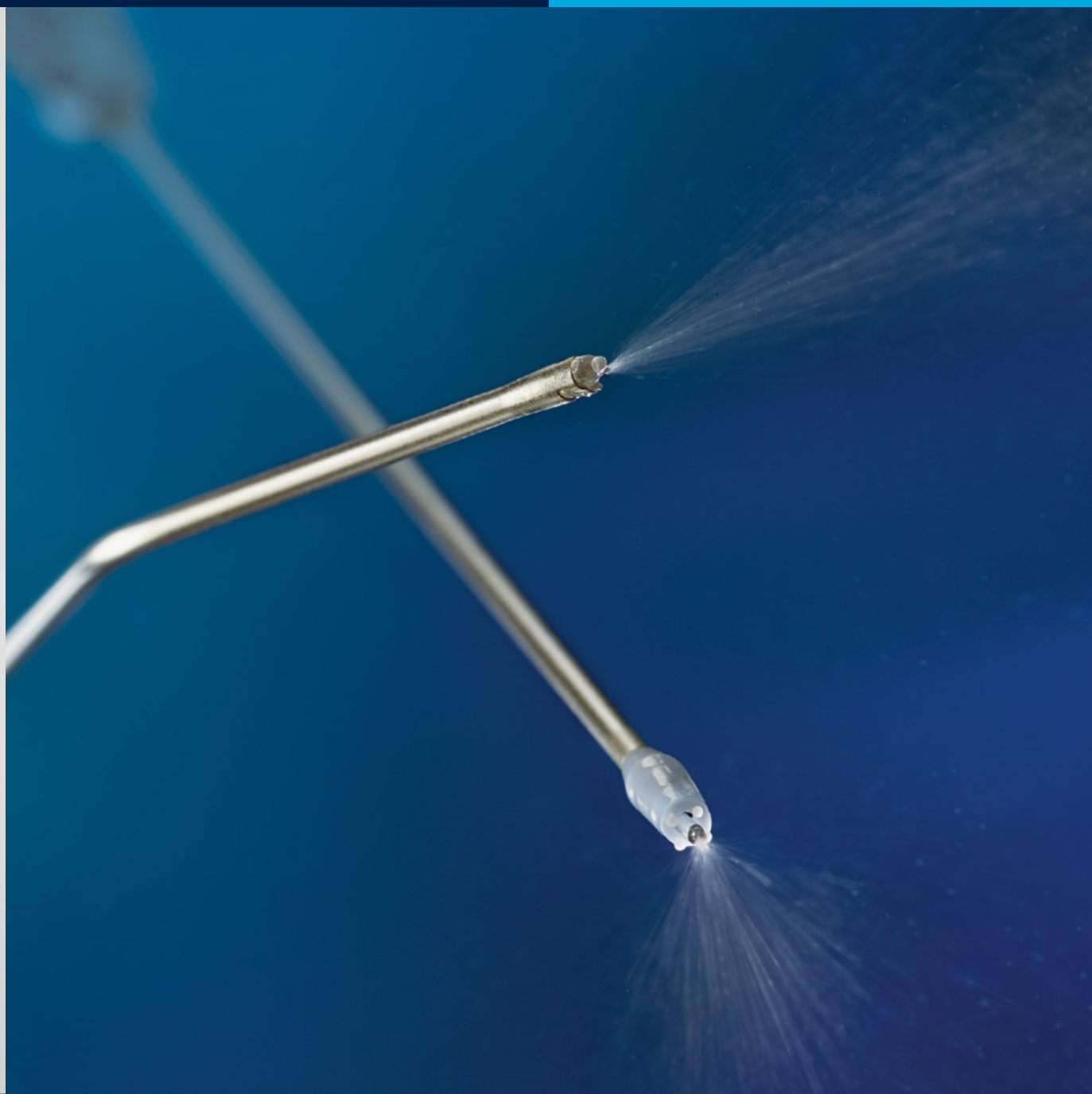
Contributing to the ease and success of your procedures.

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More Options for Beating Heart Surgery

Medtronic's numerous accessories can make OPCAB procedures easier and more successful. The Blower/Mister options facilitate a bloodless field. Shunts too provide a clear anastomotic site during the procedure while providing blood flow to the distal myocardium. And, QuickFlow DPS contains a complete set of components designed to establish rapid aorta-to-coronary perfusion during the beating heart procedure.



OPCAB Accessories

Enabling Technologies

Contributing to the ease and success of your procedures.

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Clearview™ Blower/Mister

Order Number	Description
22120	Clearview Blower/Mister (handpiece only) (qty 10)
22150	Clearview Blower/Mister (with attached tubing set) (qty 5)

AccuMist™ Blower/Mister

Order Number	Description
29150	Accumist Blower/Mister (qty 10)

ClearView Shunt

Order Number	Description
31100	1.00mm shunt, 14mm between bulbs (qty 5)
31125	1.25mm shunt, 14mm between bulbs (qty 5)
31150	1.50mm shunt, 14mm between bulbs (qty 5)
31175	1.75mm shunt, 14mm between bulbs (qty 5)
31200	2.00mm shunt, 14mm between bulbs (qty 5)
31225	2.25mm shunt, 14mm between bulbs (qty 5)
31250	2.50mm shunt, 14mm between bulbs (qty 5)
31275	2.75mm shunt, 14mm between bulbs (qty 5)
31300	3.00mm shunt, 14mm between bulbs (qty 5)

Quickflow DPS Distal Perfusion System

Order Number	Description
33100	Quickflow DPS Distal Perfusion System includes: 1-tubing set; 2-2.00mm elongated arteriotomy cannula; 1-3.00mm elongated arteriotomy cannula; 1-4.00mm elongated arteriotomy cannula; 1-14 gauge aortic root cannula

Off-Pump Accessories

Order Number	Description
28030	Vacuum Regulator
VP700	Portable Vacuum Pump with Regulator





For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use.

INTERNATIONAL

CAUTION: For distribution only in markets where the products have been approved.

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A photograph of a smiling man with a beard carrying a young girl on his shoulders. They are outdoors in a park-like setting with green trees and grass in the background. The man is wearing a light blue denim jacket over a pink shirt. The girl is wearing a dark blue long-sleeved shirt.

CANNULA CATALOG

2020

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Middle East, Africa and Russia

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

Medtronic

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> **CARDIOPLEGIA CIRCUIT**

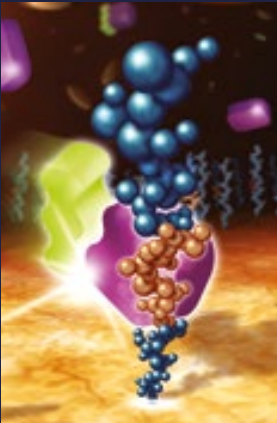
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Cortiva™ BioActive Surface

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

Some of our cannulae are available with Cortiva™ BioActive Surface. For more information, contact your local Medtronic Cannula Products representative.

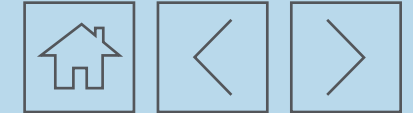
ALLEVIATE PAIN RESTORE HEALTH EXTEND LIFE

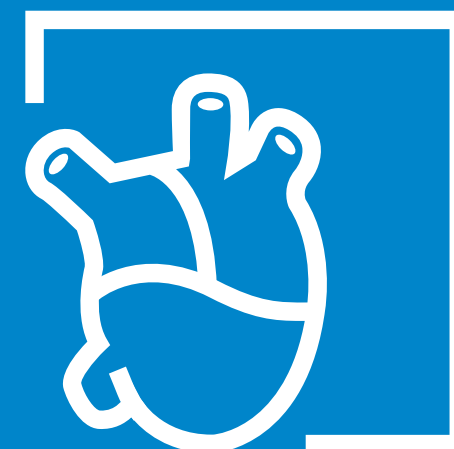
Living Our Mission with You

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

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

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





EXTRACORPOREAL CIRCUIT **ARTERIAL** CANNULAE

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

ARTERIAL CANNULAE



➤ EOPA 3D™ 6	➤ DLP™ CURVED TIP WITH ONE-PIECE WIREWOUND BODY 14
➤ SELECT 3D™ II 7	➤ DLP™ CURVED TIP CANNULAE WITH WIREWOUND BODY 15
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➤ DLP™ ONE-PIECE PEDIATRIC 9	➤ DLP™ CURVED METAL TIP 18
➤ DLP™ STRAIGHT TIP 10	
➤ DLP™ FLEXIBLE ARCH 11	
➤ SELECT SERIES™ STRAIGHT TIP 12	
➤ SELECT SERIES™ ANGLED TIP 13	

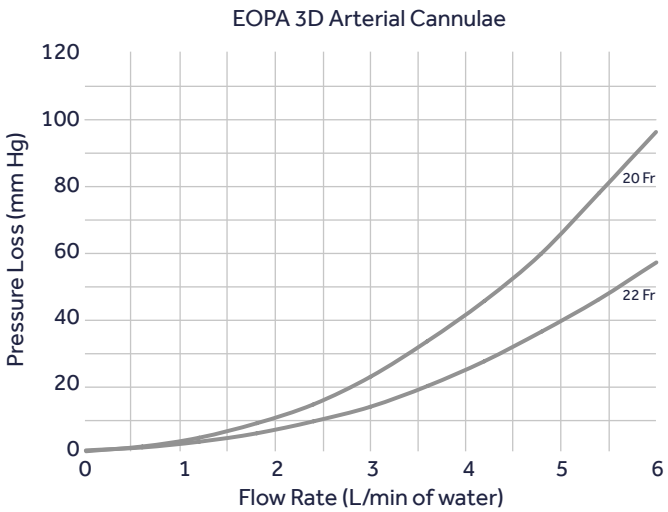


ARTERIAL CANNULAE

EOPA 3D™ Arterial Cannulae



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



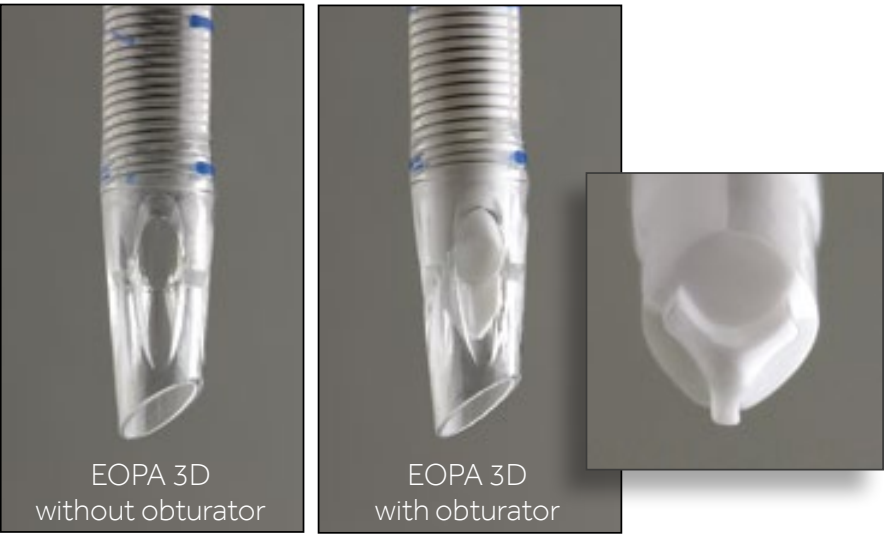
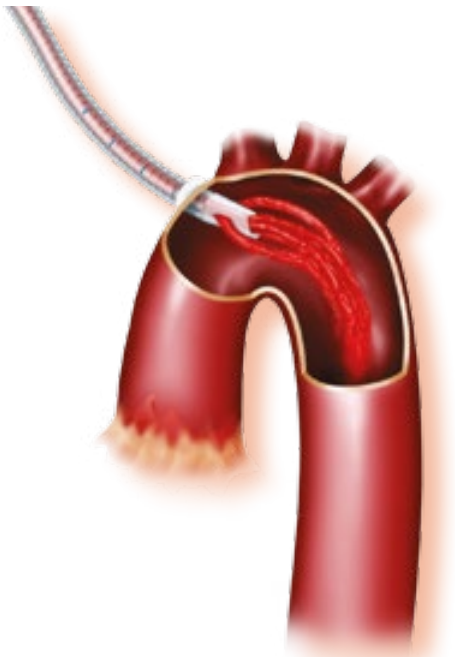
Vented 3/8 in (0.95 cm) connector

78220	20 Fr (6.7 mm)
78222	22 Fr (7.3 mm)

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

78320	20 Fr (6.7 mm)
78322	22 Fr (7.3 mm)

10 per carton



ARTERIAL CANNULAE

Select 3D™ II Arterial Cannulae



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



11.5 in (29.2 cm)
overall length
45° tip

Vented 3/8 in (0.95 cm) connector

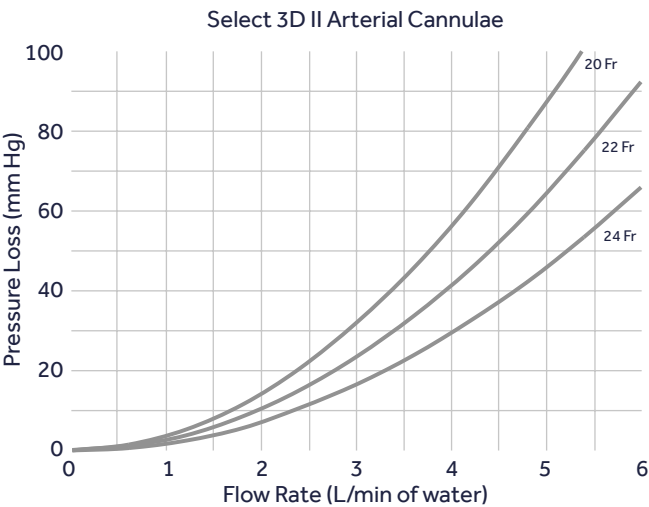
78420	20 Fr (6.7 mm)
78422	22 Fr (7.3 mm)
78424	24 Fr (8.0 mm)



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

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

20 per carton

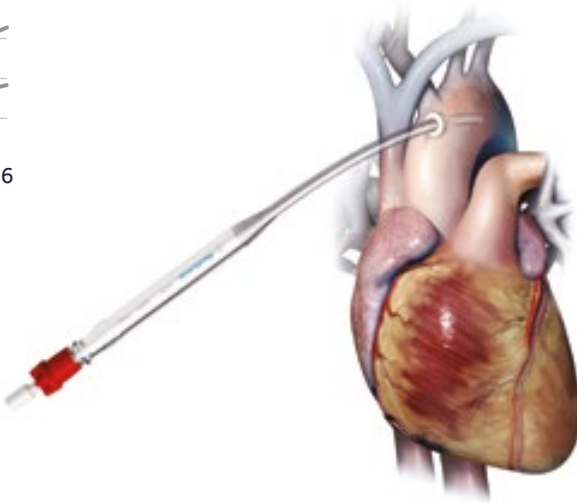
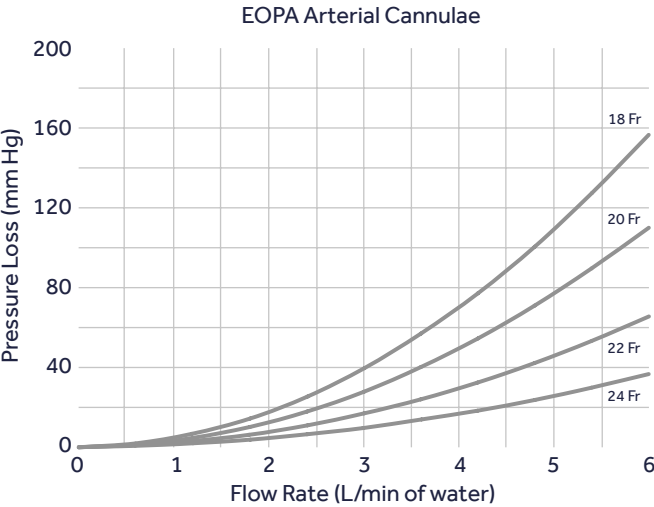


ARTERIAL CANNULAE

EOPA™ Elongated One-Piece Arterial Cannulae



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



**12 in (30.5 cm)
overall length**
Blunt tip introducer
without guidewire

Vented 3/8 in (0.95 cm) connector	
77418	18 Fr (6.0 mm)
77420	20 Fr (6.7 mm)
77422	22 Fr (7.3 mm)
77424	24 Fr (8.0 mm)

Non-vented 3/8 in (0.95 cm) connector	
77518	18 Fr (6.0 mm)
77520	20 Fr (6.7 mm)
77522	22 Fr (7.3 mm)
77524	24 Fr (8.0 mm)
10 per carton	



**12 in (30.5 cm)
overall length**
Dilator tip introducer
with 0.038 in (0.0965 mm) guidewire

Vented 3/8 in (0.95 cm) connector	
77618	18 Fr (6.0 mm)
77620	20 Fr (6.7 mm)
77622	22 Fr (7.3 mm)
77624	24 Fr (8.0 mm)

Non-vented 3/8 in (0.95 cm) connector	
77718	18 Fr (6.0 mm)
77720	20 Fr (6.7 mm)
77722	22 Fr (7.3 mm)
77724	24 Fr (8.0 mm)
10 per carton	

Important Safety Information

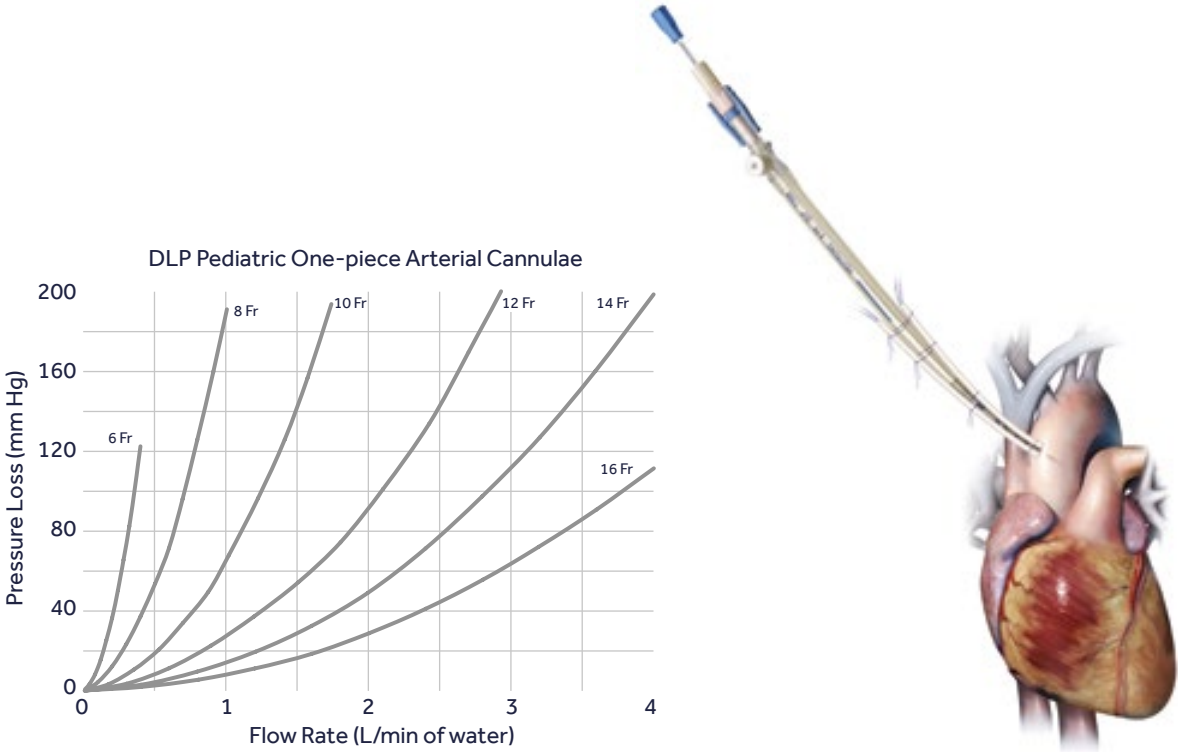
EOPA models with dilator tip introducer: A guidewire must be used for proper placement of introducer tip while inserting cannula to avoid trauma to the back wall of the aorta. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgical procedures.

ARTERIAL CANNULAE

DLP™ One-Piece Pediatric Arterial Cannulae



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



9 in (22.9 cm)
overall length

Vented 1/4 in (0.64 cm) connector (blue hub)	
77006	6 Fr (2.0 mm)
77008	8 Fr (2.7 mm)
77010	10 Fr (3.3 mm)
77012	12 Fr (4.0 mm)
77014	14 Fr (4.7 mm)
77016	16 Fr (5.3 mm)

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

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

5 per carton



9 in (22.9 cm)
overall length

Vented 3/16 in (0.48 cm) connector (grey hub)	
77206	6 Fr (2.0 mm)
77208	8 Fr (2.7 mm)
77210	10 Fr (3.3 mm)
77212	12 Fr (4.0 mm)

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

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

5 per carton

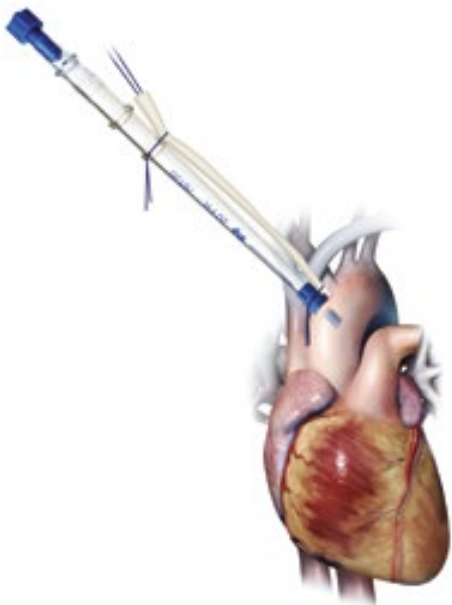
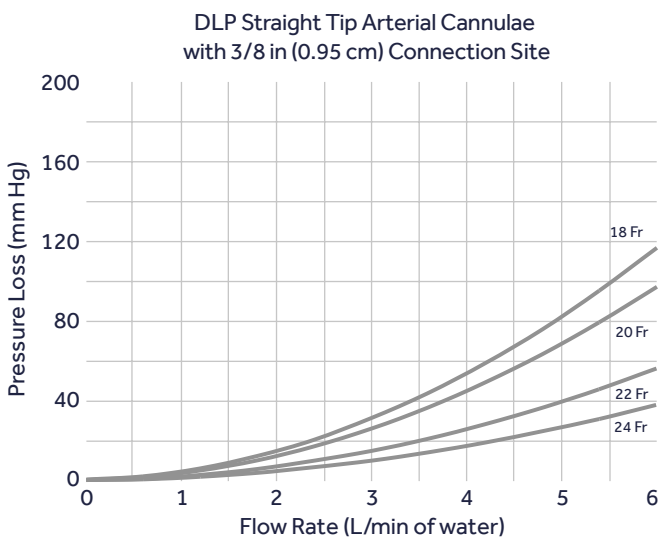
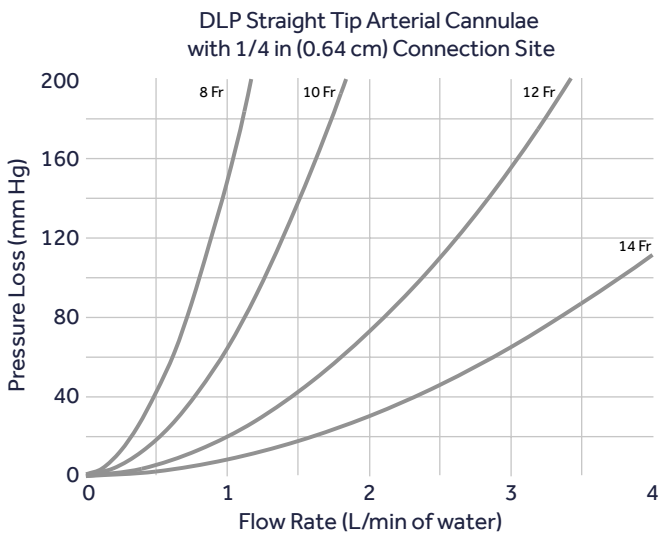


ARTERIAL CANNULAE

DLP™ Straight Tip Arterial Cannulae



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



7 in (17.8 cm) overall length

Connection site 1/4 in (0.64 cm)	
75008	8 Fr (2.7 mm)
75010	10 Fr (3.3 mm)
75012	12 Fr (4.0 mm)
75014	14 Fr (4.7 mm)

Connection site 3/8 in (0.95 cm)	
75318	18 Fr (6.0 mm)
75320	20 Fr (6.7 mm)
75322	22 Fr (7.3 mm)
75324	24 Fr (8.0 mm)

20 per carton

8 in (20.3 cm) overall length

Vented 3/8 in (0.95 cm) connector	
76020	20 Fr (6.7 mm)
76022	22 Fr (7.3 mm)
76024	24 Fr (8.0 mm)

Non-vented 3/8 in (0.95 cm) connector	
76118	18 Fr (6.0 mm)
76120	20 Fr (6.7 mm)
76122	22 Fr (7.3 mm)
76124	24 Fr (8.0 mm)

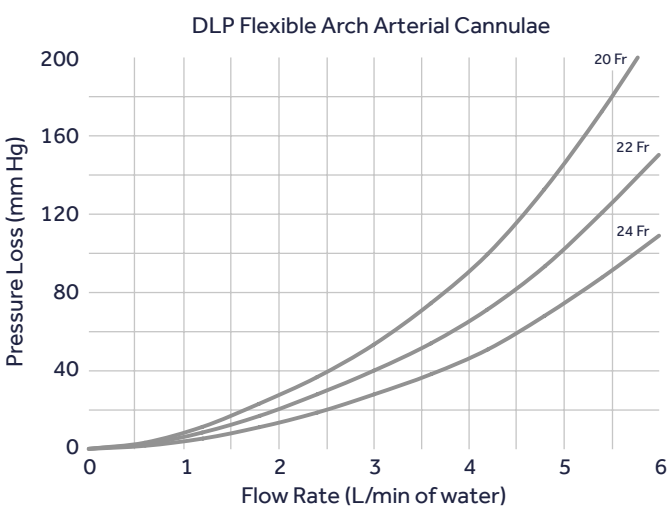
20 per carton

ARTERIAL CANNULAE

DLP™ Flexible Arch Arterial Cannulae



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



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

Vented 3/8 in (0.95 cm) connector

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

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

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

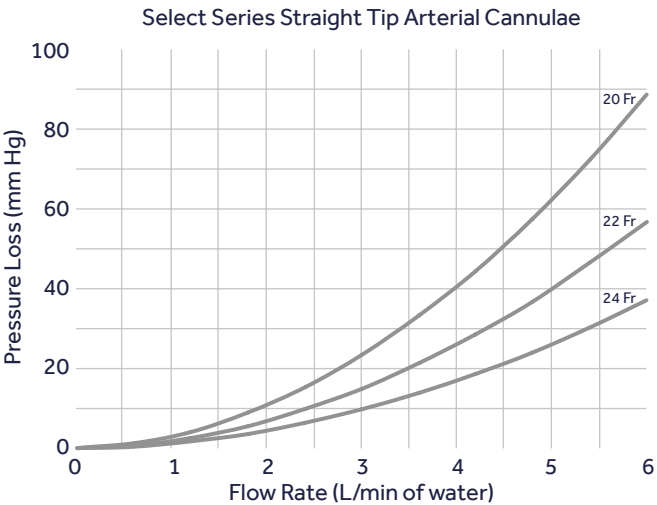
20 per carton

ARTERIAL CANNULAE

Select Series™ Straight Tip Arterial Cannulae



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



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

Vented 3/8 in (0.95 cm) connector

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

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

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

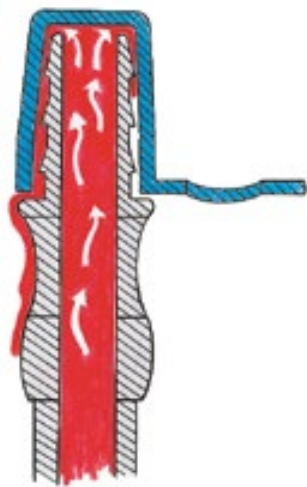
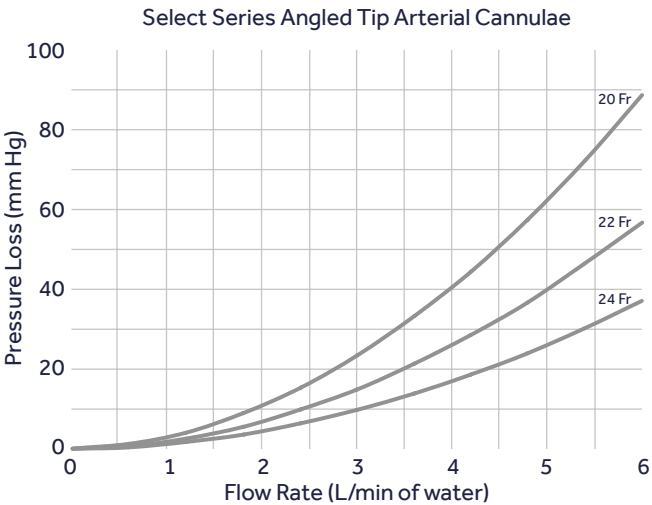
20 per carton

ARTERIAL CANNULAE

Select Series™ Angled Tip Arterial Cannulae



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



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

Vented 3/8 in (0.95 cm) connector

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

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

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

20 per carton



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

Vented 3/8 in (0.95 cm) connector

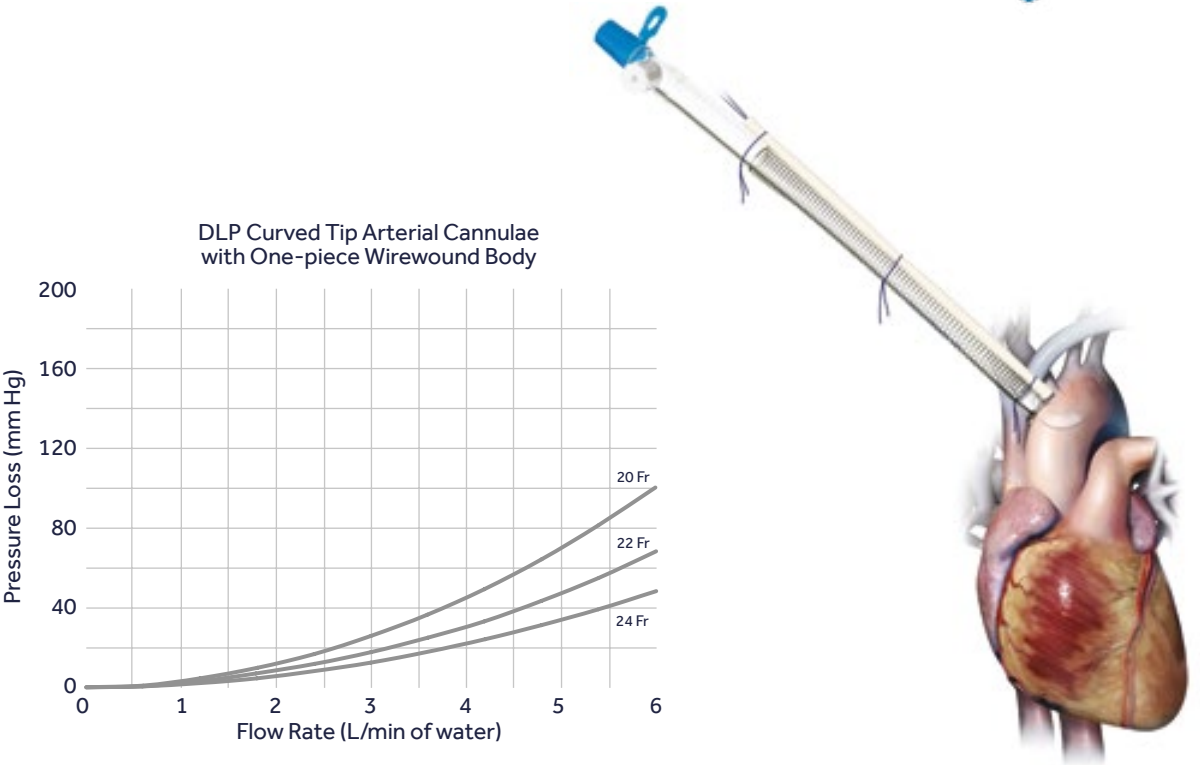
73420	20 Fr (6.7 mm)
73422	22 Fr (7.3 mm)
73424	24 Fr (8.0 mm)

ARTERIAL CANNULAE

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



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



11 in (27.9 cm) overall length

Round flange

Vented 3/8 in (0.95 cm) connector

87220	20 Fr (6.7 mm)
87222	22 Fr (7.3 mm)
87224	24 Fr (8.0 mm)

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

87120	20 Fr (6.7 mm)
87122	22 Fr (7.3 mm)
87124	24 Fr (8.0 mm)

10 per carton

ARTERIAL CANNULAE

DLP™ Curved Tip Arterial Cannulae with Wirewound Body

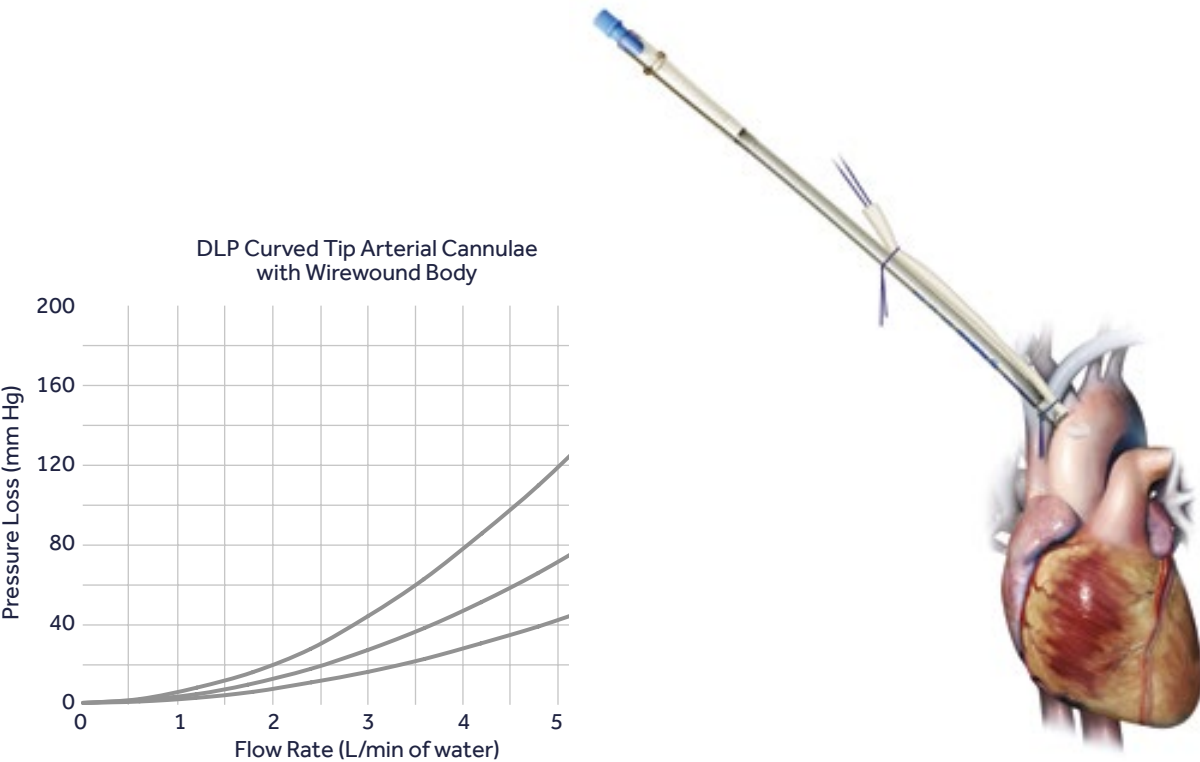


These cannulae feature an overall longer length, beveled curved tips, and wirewound bodies with tip orientation line.



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

Connection site 3/8 in (0.95 cm)	
87020	20 Fr (6.7 mm)
87022	22 Fr (7.3 mm)
87024	24 Fr (8.0 mm)
10 per carton	



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

Connection site 3/8 in (0.95 cm)	
87920	20 Fr (6.7 mm)
87922	22 Fr (7.3 mm)
87924	24 Fr (8.0 mm)
10 per carton	

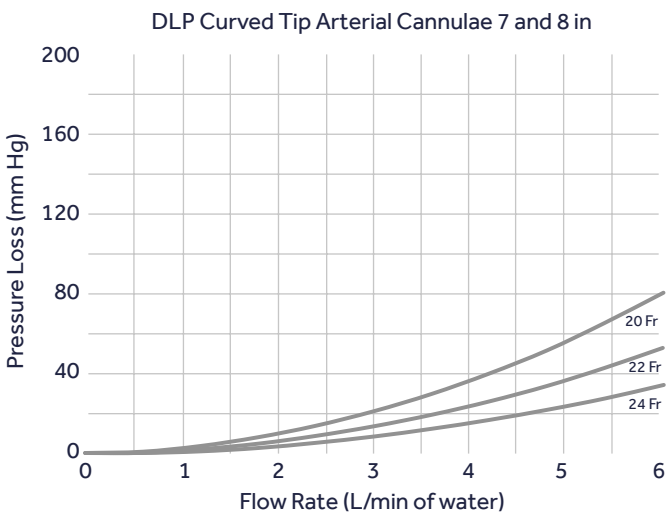


ARTERIAL CANNULAE

DLP™ Curved Tip Arterial Cannulae



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



**7 in (17.8 cm)
overall length**
Curved tip with flange

Connection site 3/8 in (0.95 cm)	
83020	20 Fr (6.7 mm)
83022	22 Fr (7.3 mm)
83024	24 Fr (8.0 mm)
20 per carton	

**7 in (17.8 cm)
overall length**
Curved tip without flange

Connection site 3/8 in (0.95 cm)	
84020	20 Fr (6.7 mm)
84022	22 Fr (7.3 mm)
84024	24 Fr (8.0 mm)
20 per carton	

**8 in (20.3 cm)
overall length**
Curved tip with flange

Vented 3/8 in (0.95 cm) connector	
88020	20 Fr (6.7 mm)
88022	22 Fr (7.3 mm)
88024	24 Fr (8.0 mm)

Non-vented 3/8 in (0.95 cm) connector	
88120	20 Fr (6.7 mm)
88122	22 Fr (7.3 mm)
88124	24 Fr (8.0 mm)
20 per carton	

**8 in (20.3 cm)
overall length**
Curved tip without flange

Vented 3/8 in (0.95 cm) connector	
89020	20 Fr (6.7 mm)
89022	22 Fr (7.3 mm)
89024	24 Fr (8.0 mm)

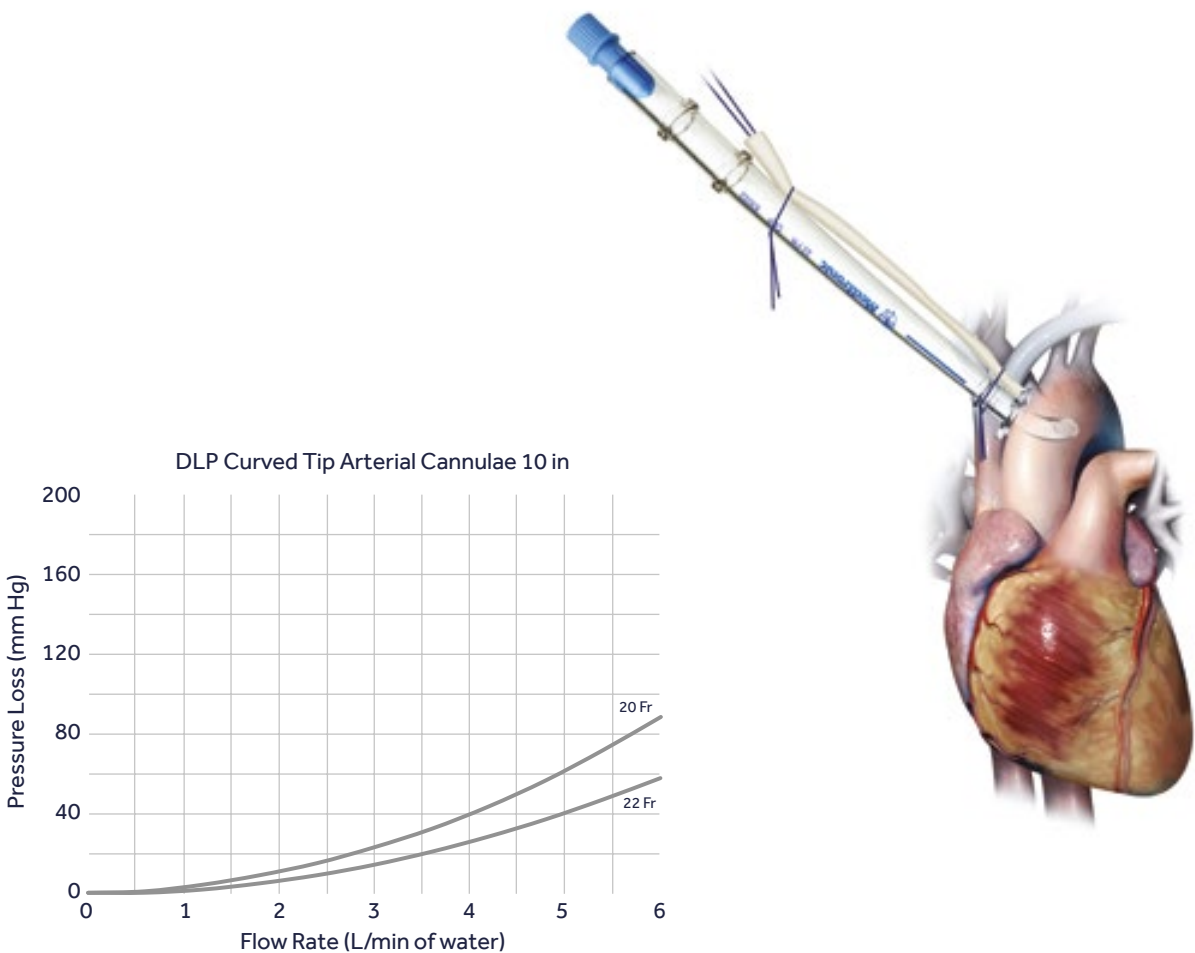
Non-vented 3/8 in (0.95 cm) connector	
89120	20 Fr (6.7 mm)
89122	22 Fr (7.3 mm)
89124	24 Fr (8.0 mm)
20 per carton	

ARTERIAL CANNULAE

DLP™ Curved Tip Arterial Cannulae



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



10 in (25.4 cm) overall length

Curved tip with flange and soft body

Vented 3/8 in (0.95 cm) connector

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

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

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

20 per carton

10 in (25.4 cm) overall length

Curved tip without flange and soft body

Vented 3/8 in (0.95 cm) connector

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

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

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

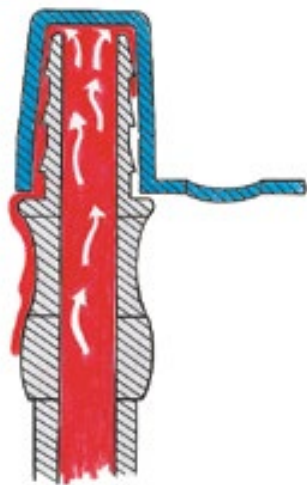
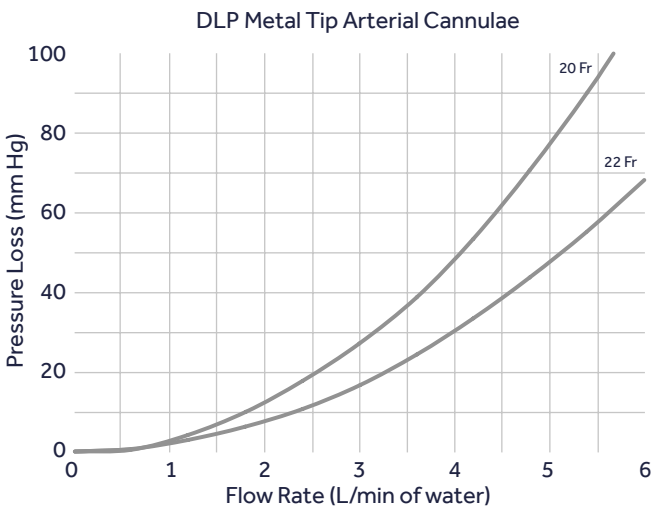
20 per carton

ARTERIAL CANNULAE

DLP™ Curved Metal Tip Arterial Cannulae



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



10.5 in (26.7 cm)
overall length
Soft flange

Vented 3/8 in (0.95 cm) connector	
80020	20 Fr (6.7 mm)
80022	22 Fr (7.3 mm)

Non-vented 3/8 in (0.95 cm) connector	
80120	20 Fr (6.7 mm)
80122	22 Fr (7.3 mm)

20 per carton

10.5 in (26.7 cm)
overall length
Standard flange

Vented 3/8 in (0.95 cm) connector	
80220	20 Fr (6.7 mm)
80222	22 Fr (7.3 mm)

Non-vented 3/8 in (0.95 cm) connector	
80320	20 Fr (6.7 mm)
80322	22 Fr (7.3 mm)

20 per carton



The largest cannula
portfolio worldwide.

Our commitment
— to you.

EXTRACORPOREAL CIRCUIT **FEMORAL** CANNULAE

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

FEMORAL CANNULAE



➤ BIO-MEDICUS™ NEXTGEN PEDIATRIC ARTERIAL AND VENOUS	21	➤ BIO-MEDICUS™ NEXTGEN INSERTION KITS	25
➤ BIO-MEDICUS™ NEXTGEN ARTERIAL OR JUGULAR VENOUS	22	➤ DLP™ VENOUS	26
➤ BIO-MEDICUS™ PERCUTANEOUS KIT, MULTI-STAGE VENOUS	23	➤ DLP™ ARTERIAL	27
➤ BIO-MEDICUS™ NEXTGEN BI-CAVAL VENOUS	24		



FEMORAL CANNULAE

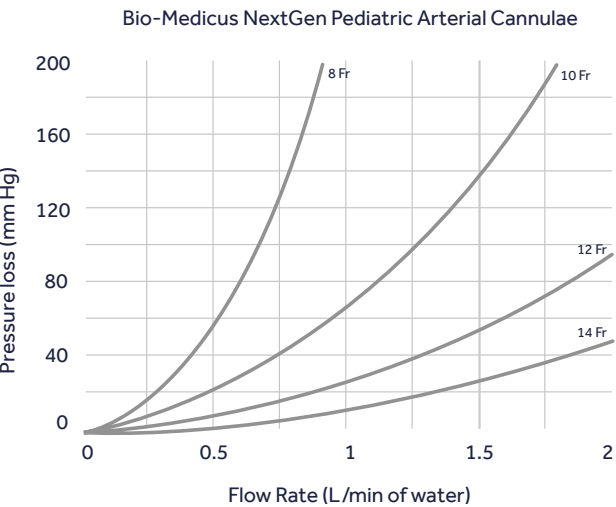
Bio-Medicus™ NextGen Pediatric Arterial and Venous Cannulae



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

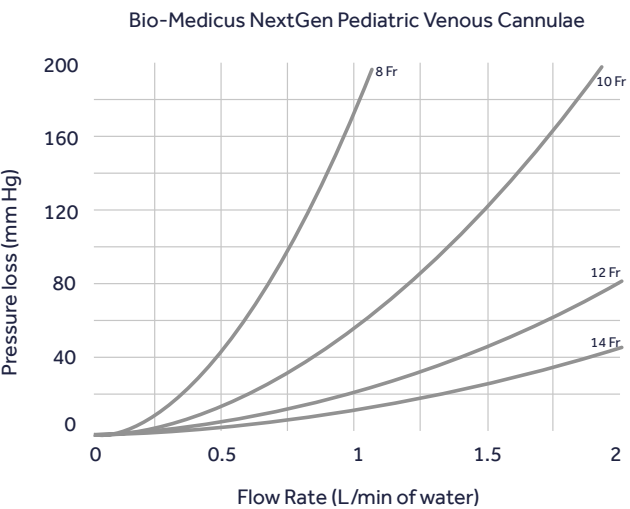
Arterial

Non-vented 1/4 in (0.64 cm) connector			
		Overall	Tip
96820-108	8 Fr (2.7 mm)	22.9 cm	10.0 cm
96820-110	10 Fr (3.3 mm)	22.9 cm	10.5 cm
96820-112	12 Fr (4.0 mm)	22.9 cm	11.0 cm
96820-114	14 Fr (4.7 mm)	22.9 cm	11.5 cm
1 per carton			



Venous

Non-vented 1/4 in (0.64 cm) connector			
		Overall	Tip
96830-108	8 Fr (2.7 mm)	22.9 cm	10.0 cm
96830-110	10 Fr (3.3 mm)	22.9 cm	10.5 cm
96830-112	12 Fr (4.0 mm)	22.9 cm	11.0 cm
96830-114	14 Fr (4.7 mm)	22.9 cm	11.5 cm
1 per carton			



Bio-Medicus Pediatric Cannulae



Retention Clip



See page 25 for 96553 insertion kit.

FEMORAL CANNULAE

Bio-Medicus™

NextGen Femoral Arterial or Jugular Venous Cannulae

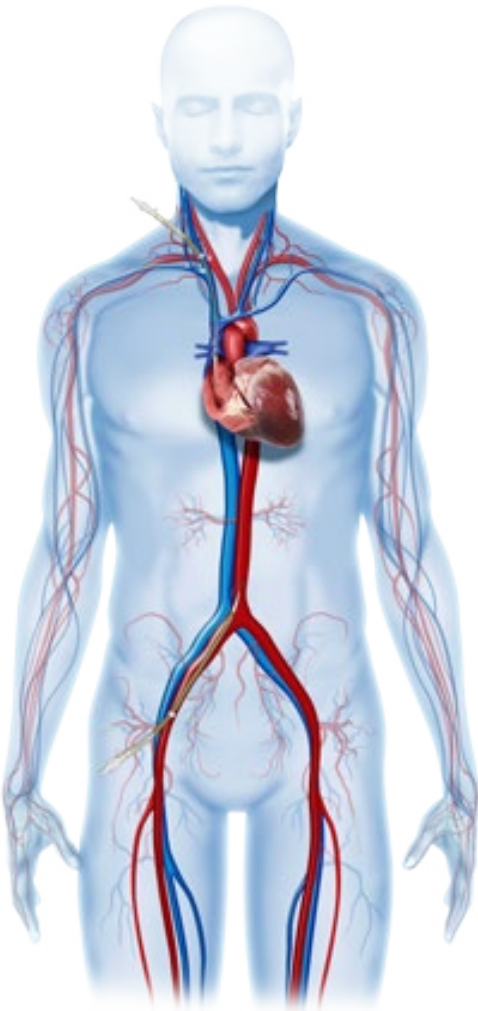


These cannulae offer a flexible, kink-resistant, thin-wall design that promotes maximum flow rates. The tip design eases insertion with a reinforced non-step transition zone, and smooth side holes. A silicone friction-fit cap and non-phthalate PVC introducer provide improved function as well. The percutaneous-style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

Cannula kit includes:



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

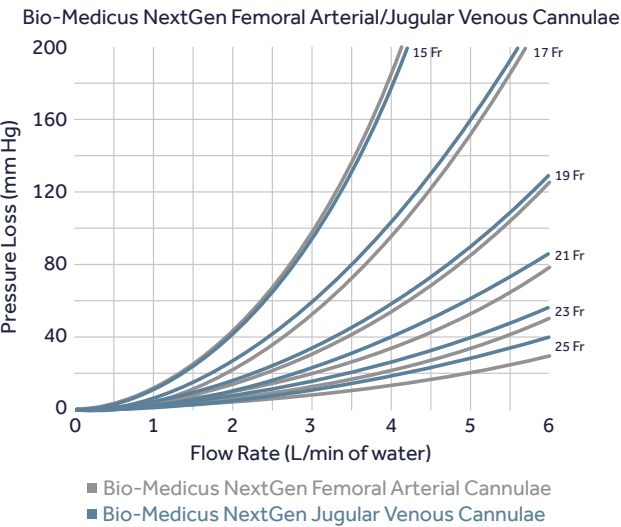


12.5 in (31.8 cm) overall length
7.09 in (18.0 cm) tip

Vented 3/8 in (0.95 cm) connector

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

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



➤ See page 25 for 96552 insertion kit.

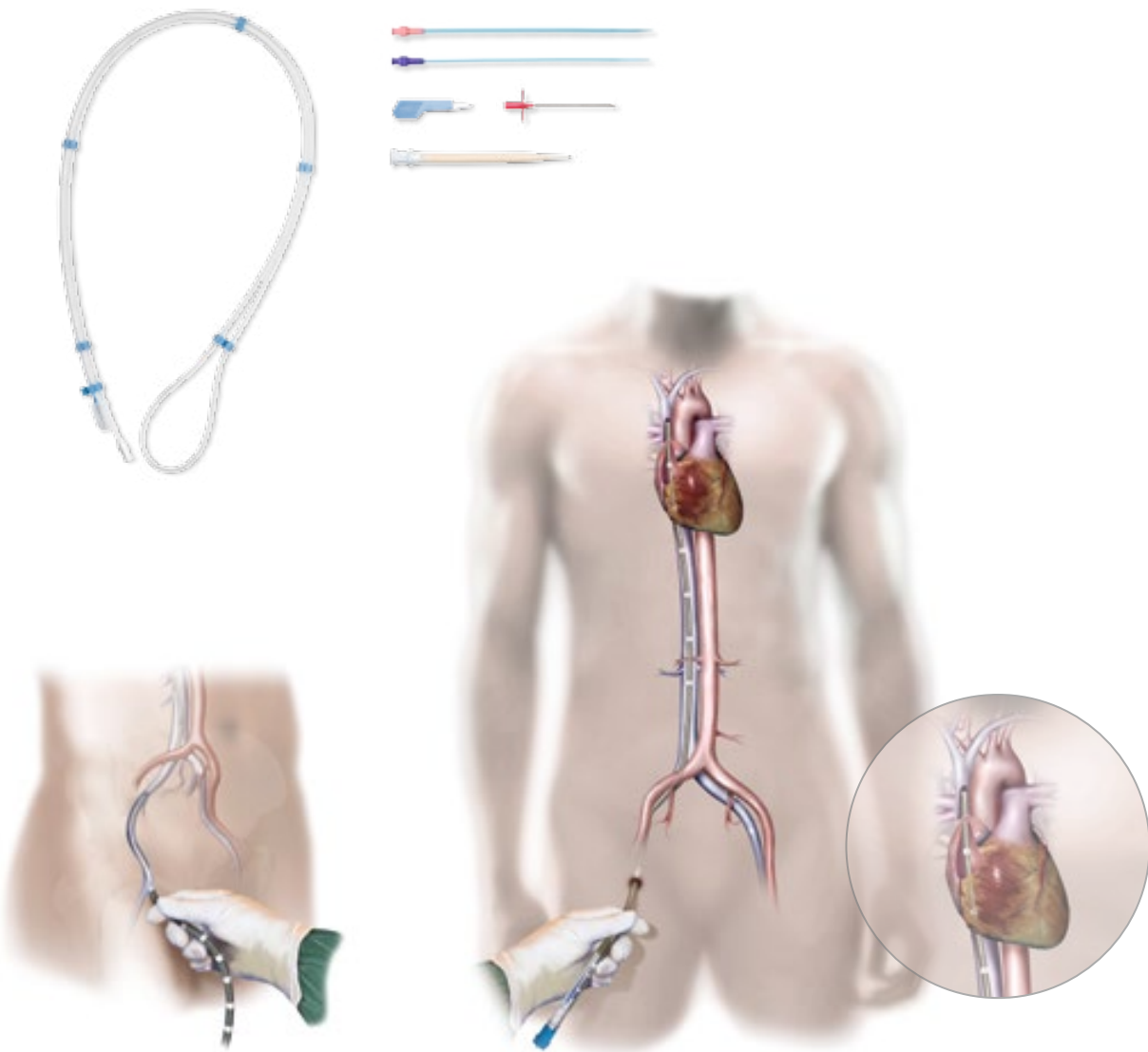
FEMORAL CANNULAE

Bio Medicus™
Percutaneous Kit, Multi-Stage Venous Femoral



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

Cannula kit includes:

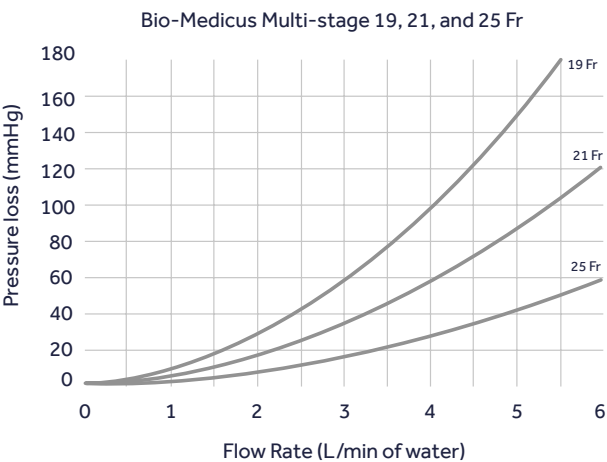


30 in (76.2 cm) overall length
23.6 in (60 cm) tip

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

96880-019	19 Fr (6.3 mm)
96880-021	21 Fr (7.0 mm)
96880-025	25 Fr (8.3 mm)

1 per carton



FEMORAL CANNULAE

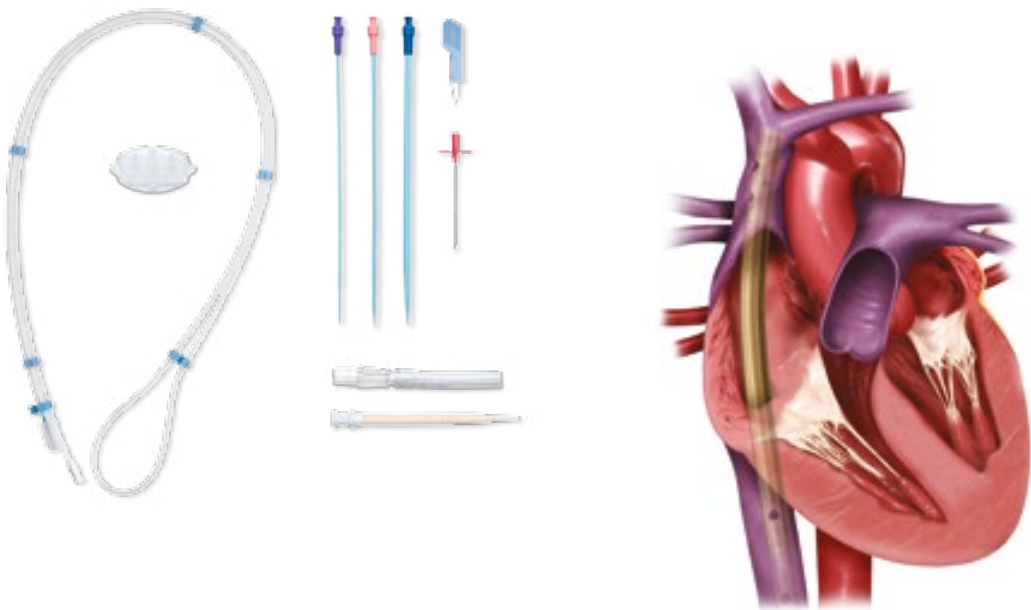
Bio-Medicus™

NextGen Femoral Bi-caval Venous Cannulae



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

Cannulae with a kit include:



Bi-caval capability with optimized basket placement

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

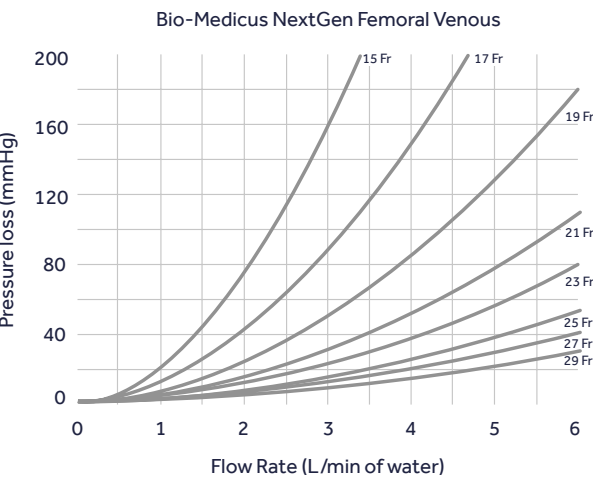
Designed to enable right atrium occlusion and access.

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

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

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

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



See page 25 for 96551 insertion kit.



FEMORAL CANNULAE

Bio-Medicus™
NextGen Insertion Kits



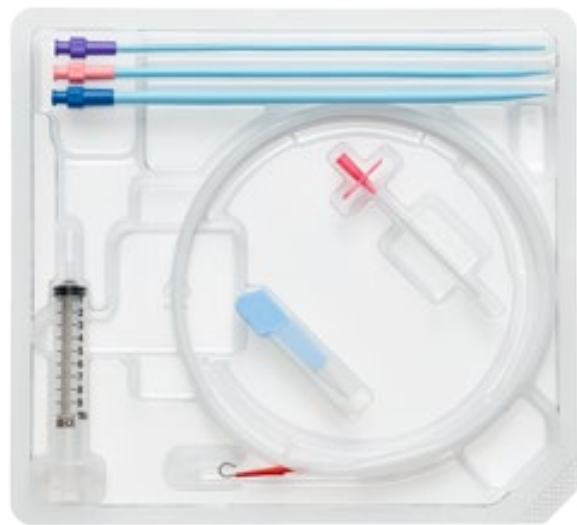
These adult and pediatric insertion kits provide components for peripheral cannulation via Seldinger technique. Designed for percutaneous or direct visualization insertion, these kits provide the following insertion components as listed below.



Venous	
96551	▪ 0.038 in (0.0965 mm) diameter; 180 cm (70.87 in) guidewire
	▪ #11 scalpel blade
	▪ 10 cc syringe
	▪ Stepped vessel dilator, 8 Fr/10 Fr, 12 Fr/14 Fr, and 16 Fr/18 Fr
	▪ Seldinger needle, 18 ga (1.02 mm)
5 kits per carton	



Pediatric Arterial/Venous	
96553	▪ 0.025 in (0.0635 mm) diameter; 60 cm (23.62 in) guidewire
	▪ #11 scalpel blade
	▪ 10 cc syringe
	▪ Stepped vessel dilator, 8 Fr/10 Fr, and 12 Fr/14 Fr
	▪ Seldinger needle, 18 ga (1.02 mm)
5 kits per carton	



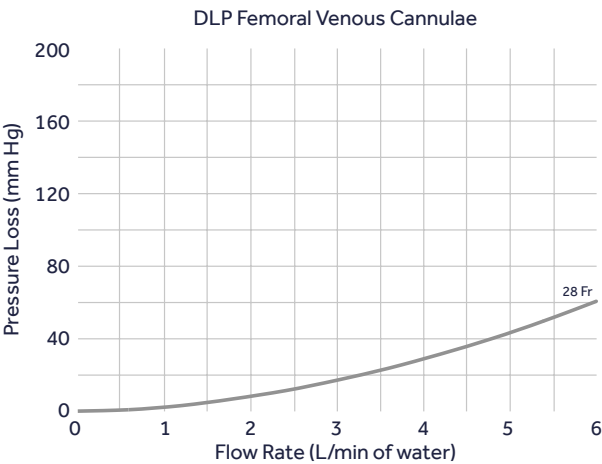
Arterial/Jugular	
96552	▪ 0.038 in (0.0965 mm) diameter; 100 cm (39.37 in) guidewire
	▪ #11 scalpel blade
	▪ 10 cc syringe
	▪ Stepped vessel dilator, 8 Fr/10 Fr, 12 Fr/14 Fr, and 16 Fr/18 Fr
	▪ Seldinger needle, 18 ga (1.02 mm)
5 kits per carton	

FEMORAL CANNULAE

DLP™ Femoral Venous Cannulae



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



25.5 in (64.8 cm) insertion length
Connection site 3/8 in (0.95 cm) and 0.038 in (0.0965 mm) x 180 cm (70.87 in) guidewire

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

96428	28 Fr (9.3 mm)
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4 per carton

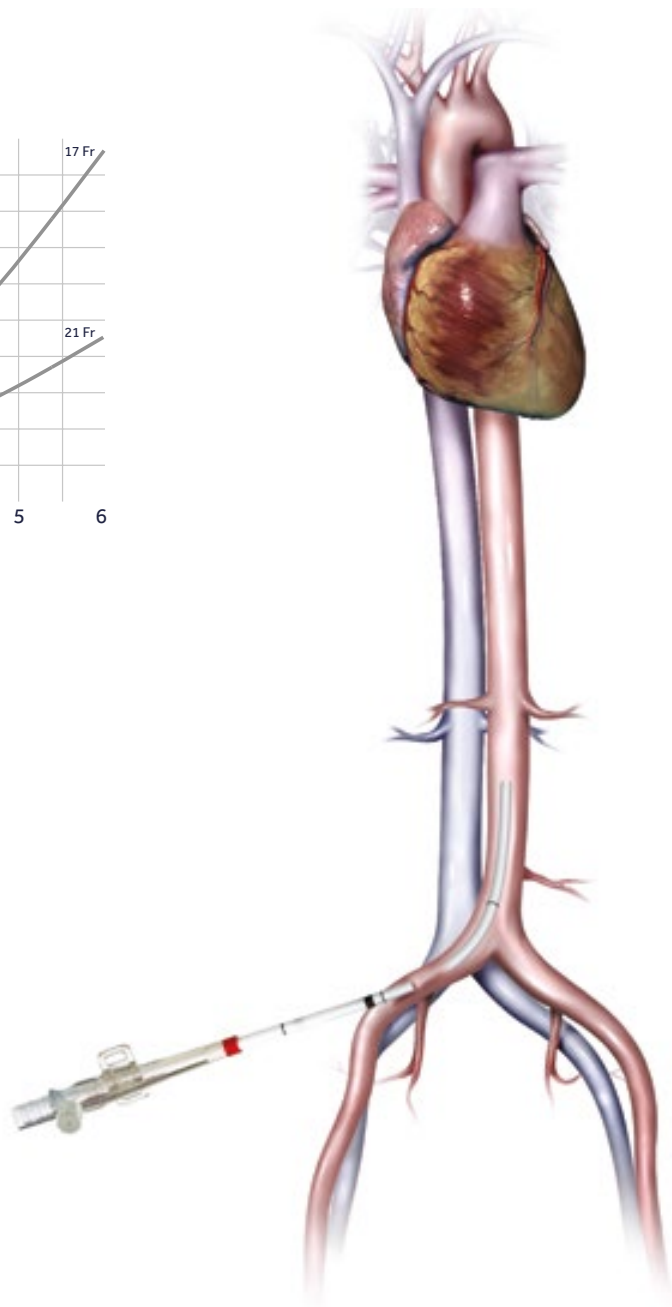
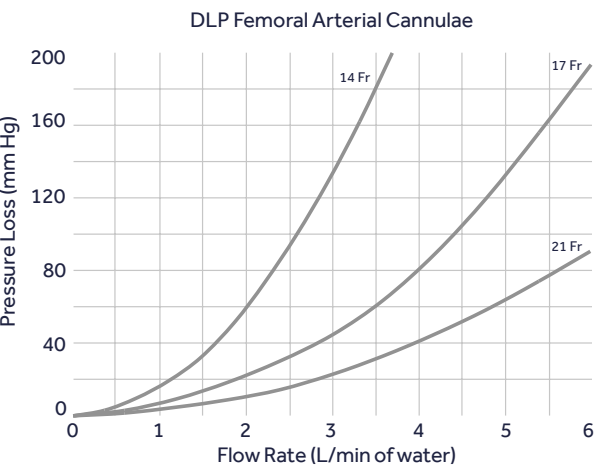


FEMORAL CANNULAE

DLP™ Femoral Arterial Cannulae



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



7 in (17.8 cm) insertion length

Vented 3/8 in (0.95 cm) connector

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

4 per carton





EXTRACORPOREAL CIRCUIT **VENOUS** CANNULAE

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

VENOUS CANNULAE



➤ DLP™ SINGLE STAGE WITH RIGHT ANGLE METAL TIP	30	➤ VC2™	34
➤ DLP™ SINGLE STAGE	31	➤ MC2™ TWO STAGE	35
➤ DLP™ SINGLE STAGE WITH RIGHT ANGLE	32	➤ MC2X™ THREE STAGE	36
➤ DLP™ MALLEABLE SINGLE STAGE	33		

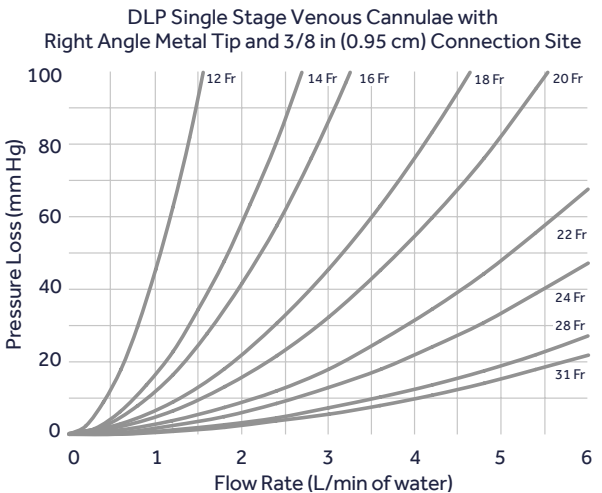
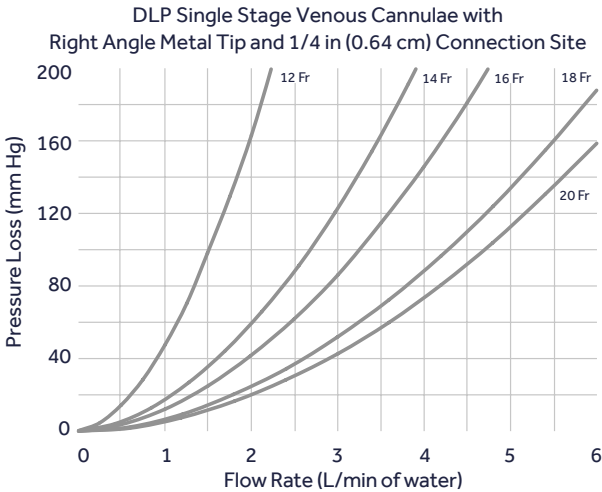


VENOUS CANNULAE

DLP™ Single Stage Venous Cannulae with Right Angle Metal Tip



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



14 in (35.6 cm)
overall length

Connection site 1/4 in (0.64 cm)	
67312	12 Fr (4.0 mm)
67314	14 Fr (4.7 mm)
67316	16 Fr (5.3 mm)
67318	18 Fr (6.0 mm)
67320	20 Fr (6.7 mm)

Connection site 3/8 in (0.95 cm)	
69312	12 Fr (4.0 mm)
69314	14 Fr (4.7 mm)
69316	16 Fr (5.3 mm)
69318	18 Fr (6.0 mm)
69320	20 Fr (6.7 mm)
69322	22 Fr (7.3 mm)
69324	24 Fr (8.0 mm)
69328	28 Fr (9.3 mm)
69331	31 Fr (10.3 mm)

10 per carton



14 in (35.6 cm)
overall length
Extended tip

Connection site 3/8 in (0.95 cm)	
69428	28 Fr (9.3 mm)
69431	31 Fr (10.3 mm)

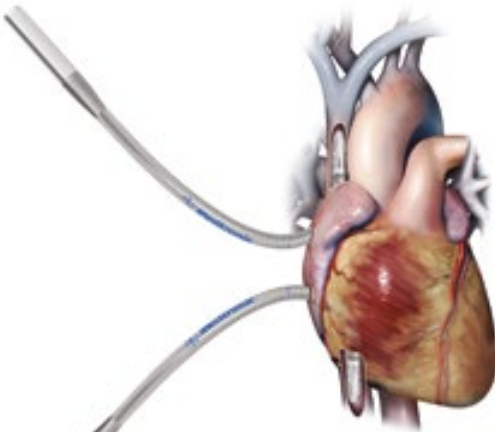
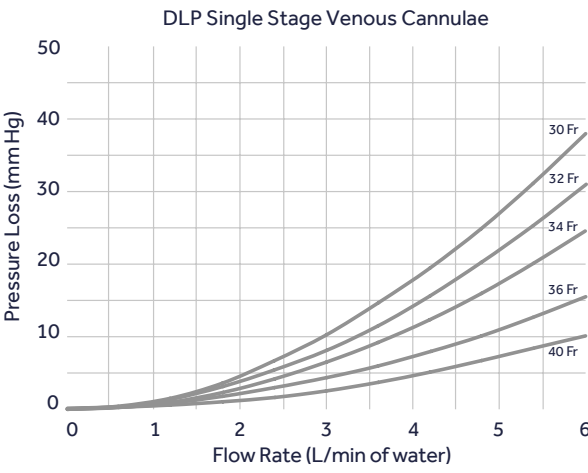
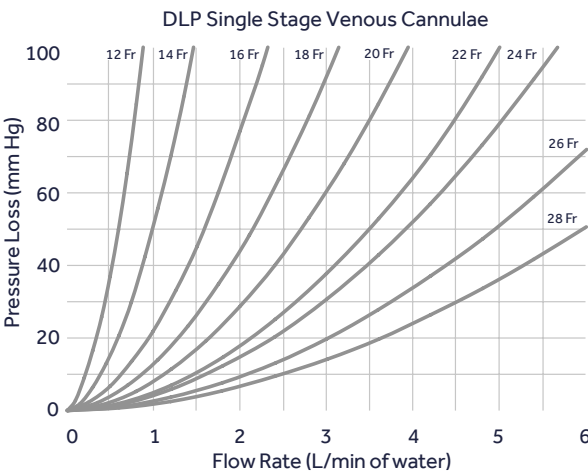
10 per carton

VENOUS CANNULAE

DLP™ Single Stage Venous Cannulae



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



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

Connection site 1/4 in (0.64 cm)	
66112	12 Fr (4.0 mm)
66114	14 Fr (4.7 mm)
66116	16 Fr (5.3 mm)

Connection site 1/4 in–3/8 in (0.64–0.95 cm)	
66118	18 Fr (6.0 mm)
66120	20 Fr (6.7 mm)
66122	22 Fr (7.3 mm)
66124	24 Fr (8.0 mm)

Connection site 3/8 in (0.95 cm)	
66126	26 Fr (8.7 mm)
66128	28 Fr (9.3 mm)
66130	30 Fr (10.0 mm)
66132	32 Fr (10.7 mm)
66134	34 Fr (11.3 mm)
66236	36 Fr (12.0 mm)

Connection site 1/2 in (1.27 cm)	
66136	36 Fr (12.0 mm)
66140	40 Fr (13.3 mm)

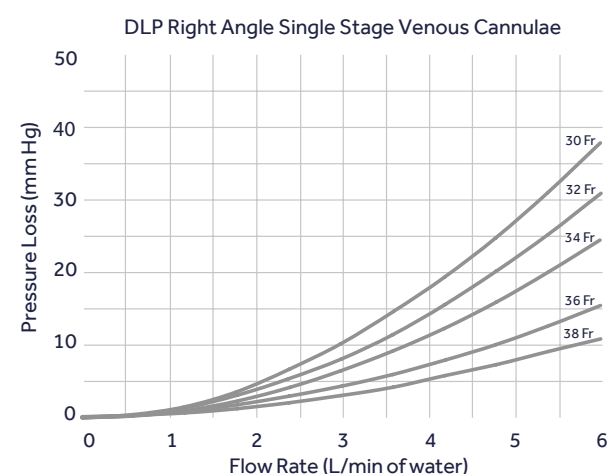
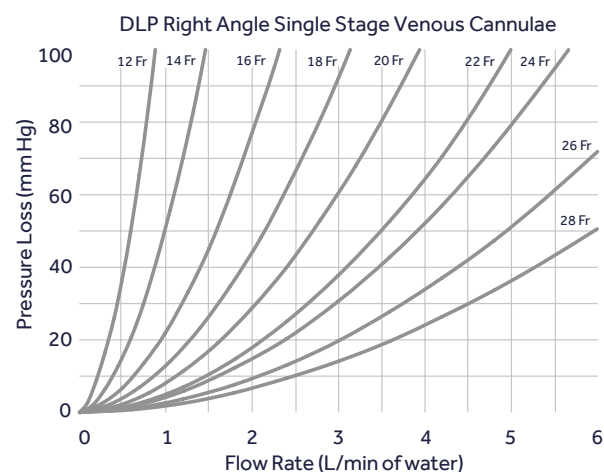
10 per carton

VENOUS CANNULAE

DLP™ Single Stage Venous Cannulae with right angle



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



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

Connection site 1/4 in (0.64 cm)

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

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

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

Connection site 3/8 in (0.95 cm)

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

10 per carton

Important Safety Information

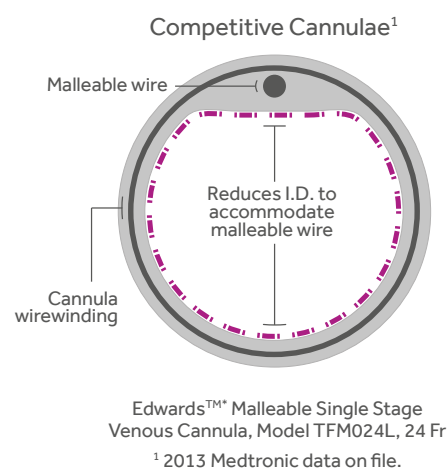
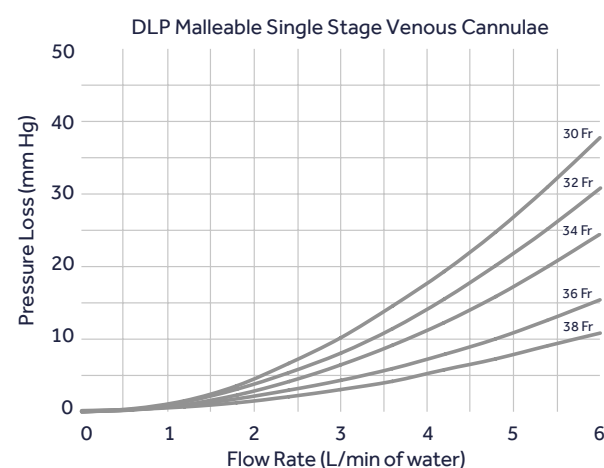
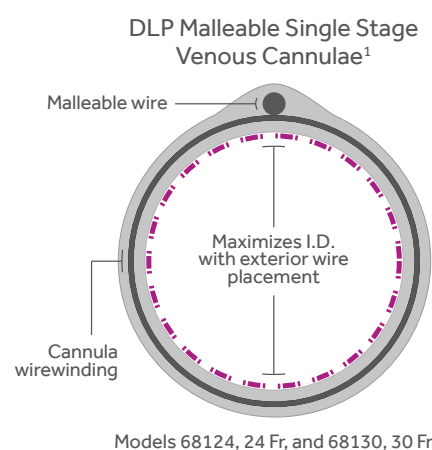
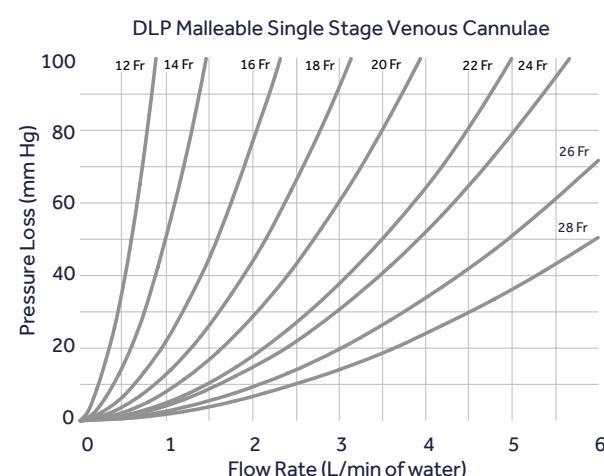
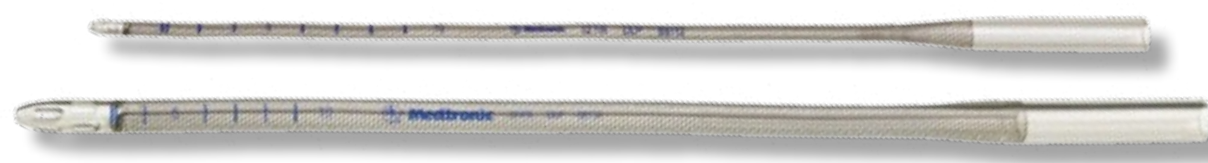
Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures.

VENOUS CANNULAE

DLP™ Malleable Single Stage Venous Cannulae



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



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

Connection site 1/4 in (0.64 cm)

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

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

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

Connection site 3/8 in (0.95 cm)

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

Connection site 1/2 in (1.27 cm)

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

10 per carton



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

Important Safety Information

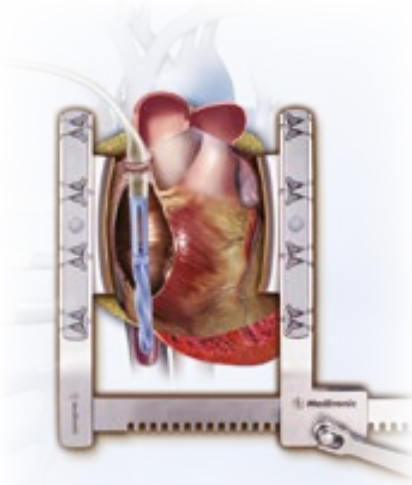
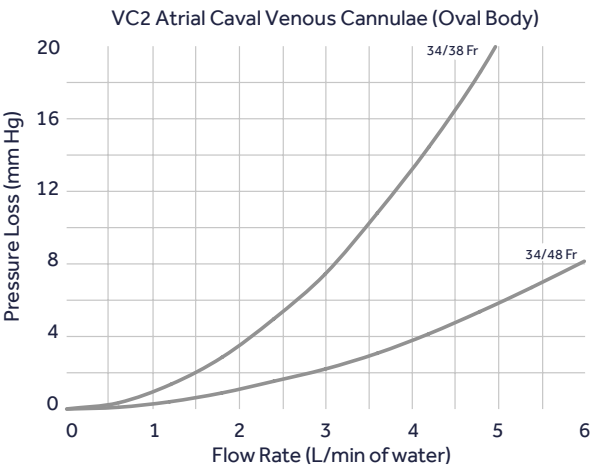
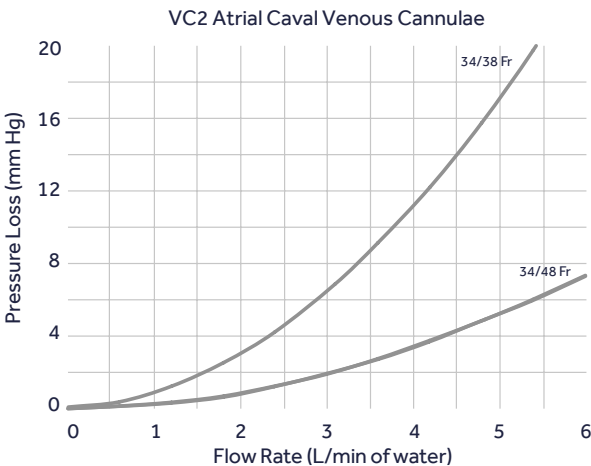
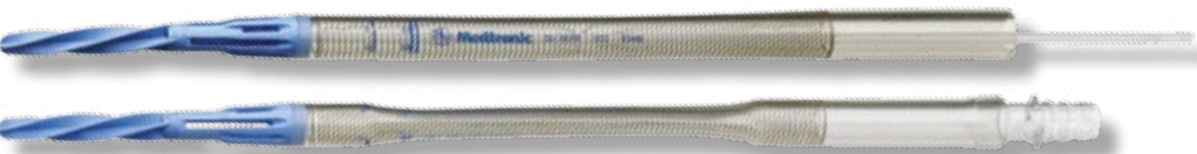
Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures.

VENOUS CANNULAE

VC2™ Venous Cannulae



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



15 in (38.1 cm) overall length

Wirewound body Connection site 3/8 in (0.95 cm)	
93438	34/38 Fr (11.3/12.7 mm)

Wirewound body Connection site 1/2 in (1.27 cm)	
93448	34/48 Fr (11.3/16.0 mm)

Wirewound body, non-vented 1/2 in (1.27 cm) connector	
93438C	34/38 Fr (11.3/12.7 mm)
93448C	34/48 Fr (11.3/16.0 mm)

Oval wirewound body Connection site 3/8 in (0.95 cm)	
93463	34/38 Fr (11.3/12.7 mm)

Oval wirewound body Connection site 1/2 in (1.27 cm)	
93464	34/48 Fr (11.3/16.0 mm)

Oval wirewound body, non-vented 1/2 in (1.27 cm) connector	
93463C	34/38 Fr (11.3/12.7 mm)
93464C	34/48 Fr (11.3/16.0 mm)

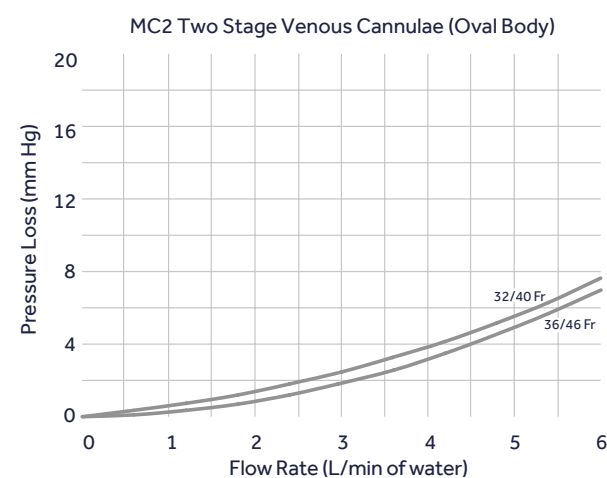
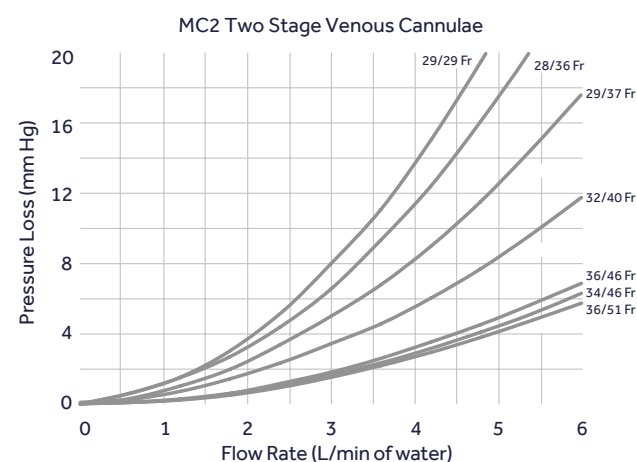
10 per carton

VENOUS CANNULAE

MC2™ Two Stage Venous Cannulae



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



15 in (38.1 cm) overall length

Connection site 3/8 in (0.95 cm)

91228	28/36 Fr (9.3/12.0 mm)
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Connection site 1/2 in (1.27 cm)

91236	36/46 Fr (12.0/15.3 mm)
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91240	32/40 Fr (10.7/13.3 mm)
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91246	34/46 Fr (11.3/15.3 mm)
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91251	36/51 Fr (12.0/17.0 mm)
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Non-vented 1/2 in (1.27 cm) connector

91228C	28/36 Fr (9.3/12.0 mm)
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91236C	36/46 Fr (12.0/15.3 mm)
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91240C	32/40 Fr (10.7/13.3 mm)
--------	-------------------------

91246C	34/46 Fr (11.3/15.3 mm)
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91251C	36/51 Fr (12.0/17.0 mm)
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10 per carton

15 in (38.1 cm) overall length

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

91229	29/37 Fr (9.7/12.3 mm)
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Non-vented 1/2 in (1.27 cm) connector

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

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

91329C	29/29 Fr (9.7/9.7 mm)
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Oval body Connection site 1/2 in (1.27 cm)

91263	32/40 Fr (10.7/13.3 mm)
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91265	36/46 Fr (12.0/15.3 mm)
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Oval body Non-vented 1/2 in (1.27 cm) connector

91263C	32/40 Fr (10.7/13.3 mm)
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91265C	36/46 Fr (12.0/15.3 mm)
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10 per carton

Important Safety Information

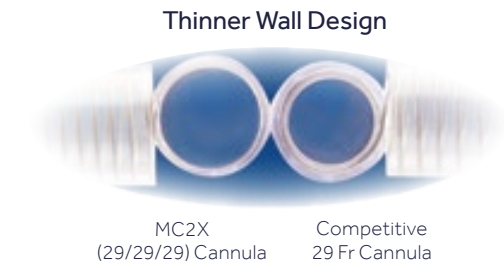
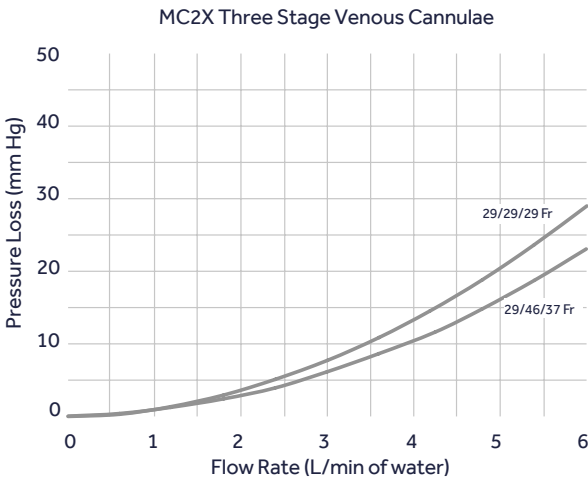
Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures.

VENOUS CANNULAE

MC2X™ Three Stage Venous Cannulae



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



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



Larger end hole of the MC2X allows for better flow opportunity³

^{2,3} 2013 Medtronic data on file.

15 in (38.1 cm) overall length

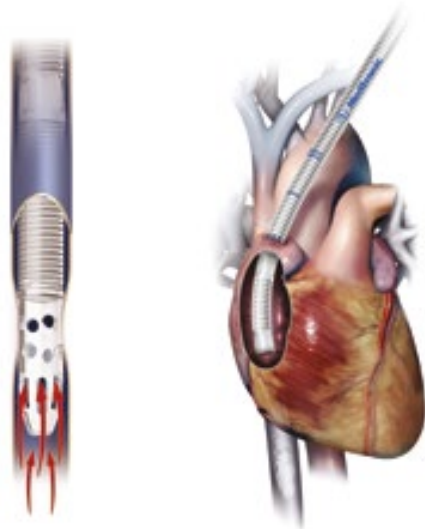
Connection site 3/8 in (0.95 cm)

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

91429C	29/29/29 Fr (9.7/9.7/9.7 mm)
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10 per carton



15.5 in (39 cm) overall length

Connection site 3/8 in (0.95 cm)

91437	29/46/37 Fr (9.7/15.3/12.3 mm)
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Non-vented
3/8 in (0.95 cm) connector

91437C	29/46/37 Fr (9.7/15.3/12.3 mm)
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10 per carton



Important Safety Information

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



CARDIOPLEGIA CIRCUIT

ANTEGRADE

CANNULAE

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

ANTEGRADE CANNULAE



➤ MĪAR™ AORTIC ROOT WITH FLOW-GUARD	39	➤ DLP™ CARDIOPLEGIA NEEDLES	43
➤ DLP™ DUAL LUMEN CARDIOPLEGIA	40	➤ DLP™ CORONARY OSTIAL PERFUSION	44
➤ DLP™ AORTIC ROOT	41		
➤ DLP™ AORTIC ROOT WITH VENT LINE	42		

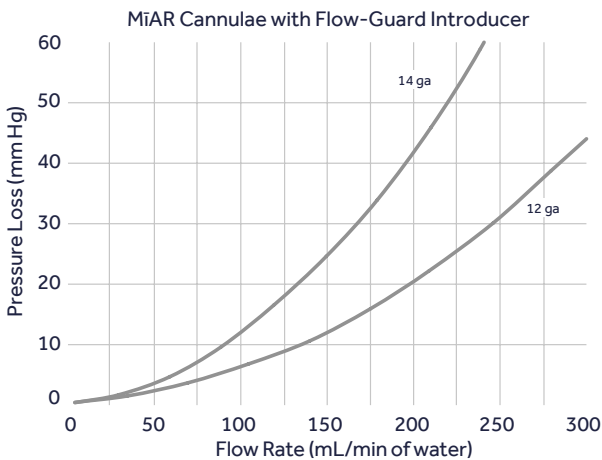


ANTEGRADE CANNULAE

MiAR™ Aortic Root Cannulae with Flow-Guard

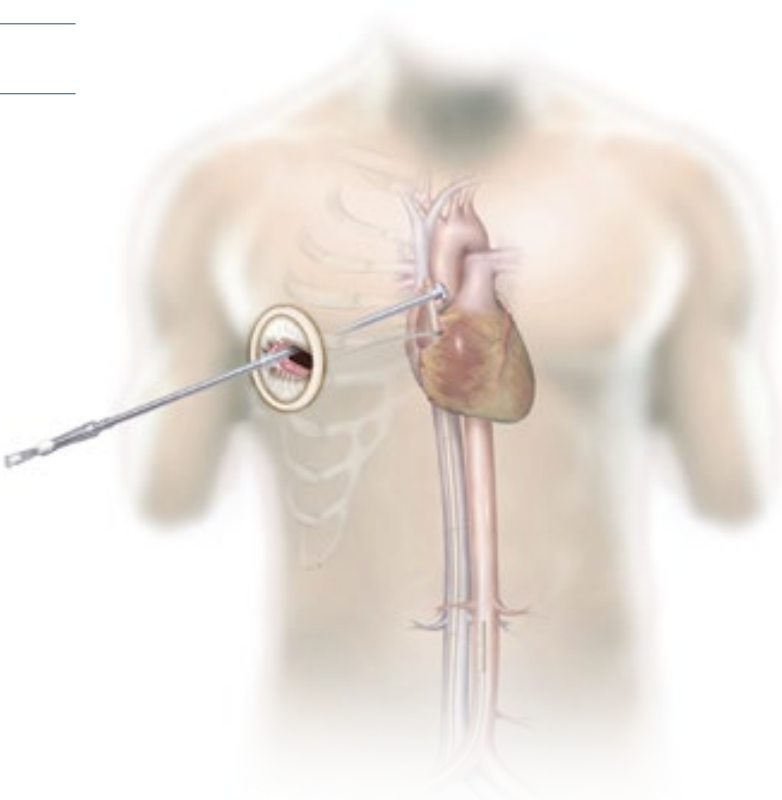


These Minimally Invasive Aortic Root (MiAR) models feature a 12.25 in (31 cm) cannula body to allow access into the chest for small incision techniques. This length also allows positioning of the luer connection to the cardioplegia line out of the surgeon's way, outside the chest incision. Additionally,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



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

Flanged standard tip and Flow-Guard introducer	
11012L	12 ga (9 Fr)
11014L	14 ga (7 Fr)
10 per carton	

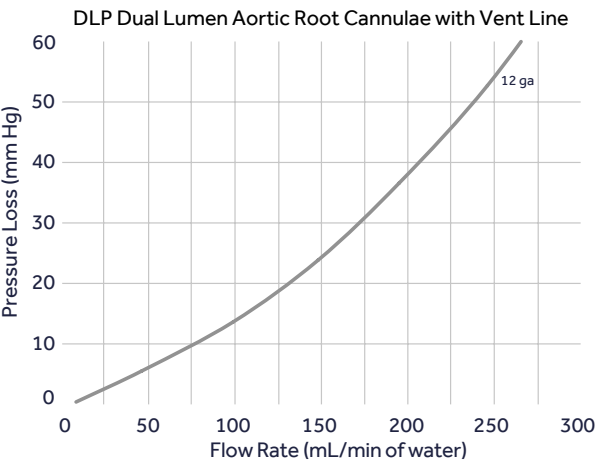


ANTEGRADE CANNULAE

DLP™ Dual Lumen Cardioplegia Cannulae

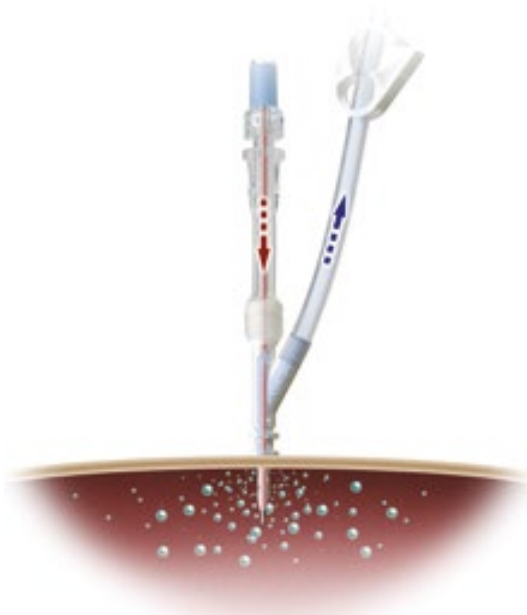


The dual lumen cannula features a tip attached to a clear body with a separate vent line. Additional features include left heart venting and simultaneous cardioplegia delivery and aspiration. Each cannula is supplied with a stainless steel introducer needle.



3.25 in (8.3 cm)
overall length

Standard tip	
30401	12 ga (9 Fr)
10 per carton	



Dual Lumen Aortic Root
Application Detail

ANTEGRADE CANNULAE

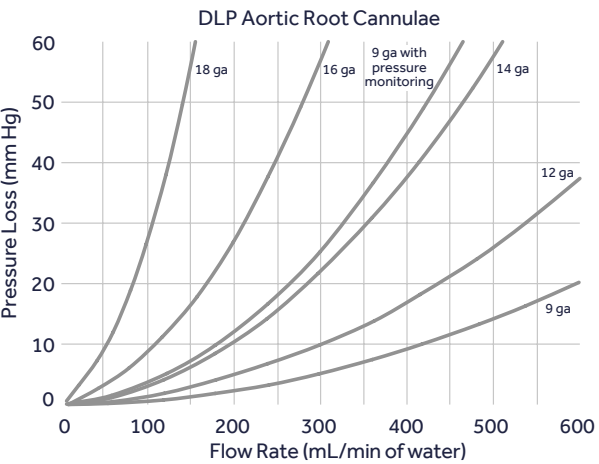
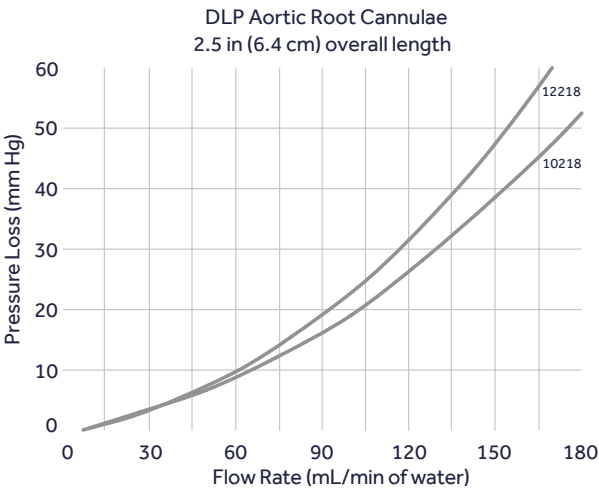
DLP™ Aortic Root Cannulae



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



Flow-Guard™ Introducer



2.5 in (6.4 cm) overall length

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

20 per carton



5.75 in (14.6 cm) overall length

Slotted long tip and standard introducer	
10112	12 ga (9 Fr)
10114	14 ga (7 Fr)

20 per carton



5.5 in (14.0 cm) overall length

Flanged standard tip and standard introducer	
10009	9 ga (11 Fr)
10012	12 ga (9 Fr)
10014	14 ga (7 Fr)
10016	16 ga (5 Fr)
10018	18 ga (4 Fr)

Flanged standard tip and Flow-Guard introducer

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

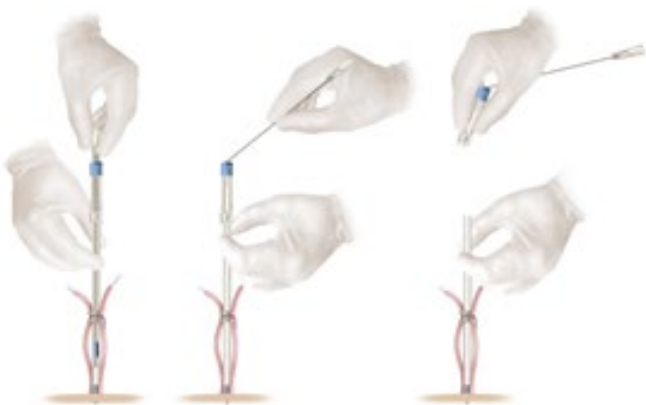
20 per carton



5.25 in (13.3 cm) overall length

Flanged pressure monitoring tip and standard introducer	
23009	9 ga (11 Fr)

20 per carton



Flow-Guard Introducer Application Detail

Important Safety Information

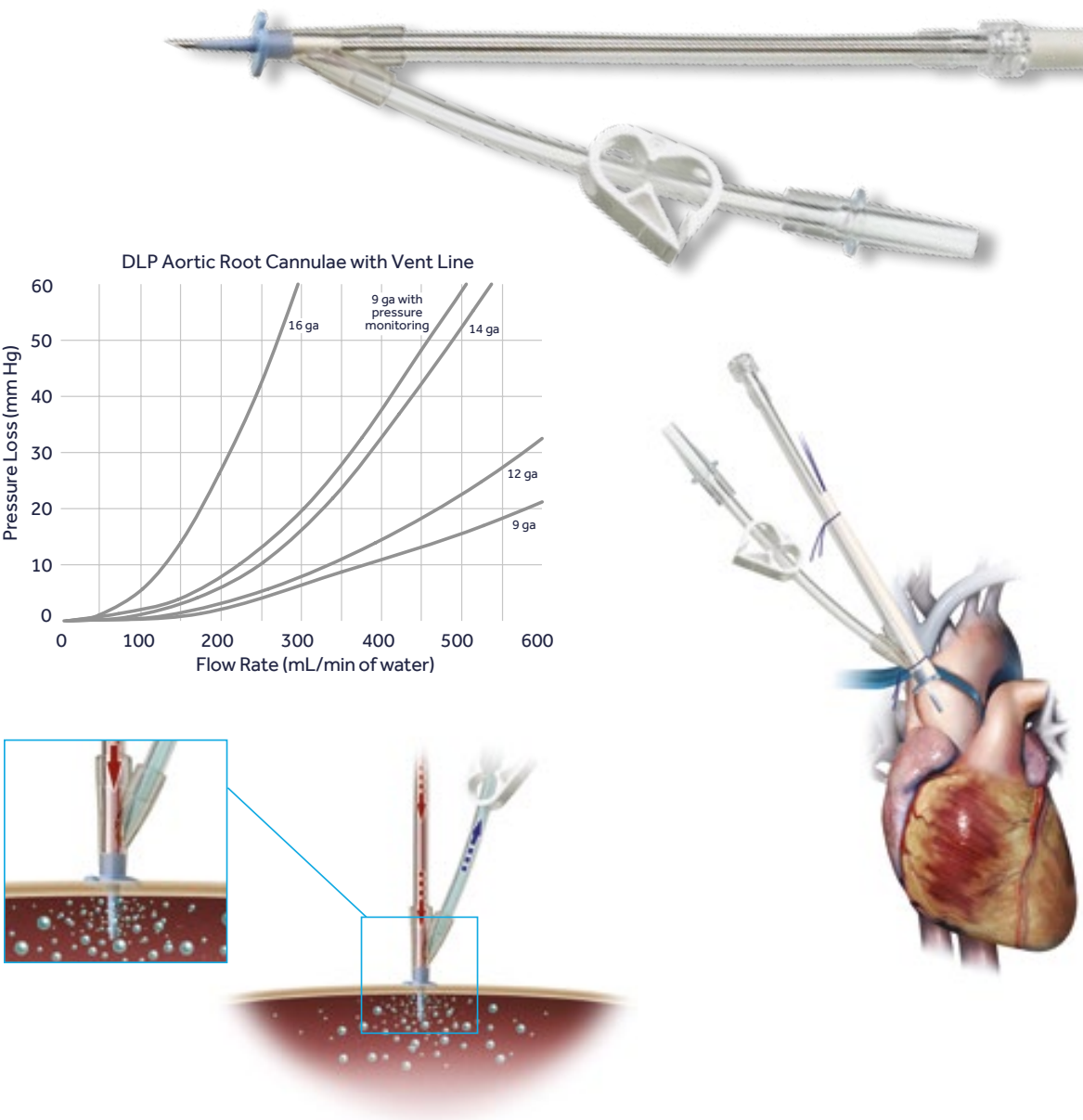
Care should be taken when inserting the needle to prevent perforation of the back wall of the aorta. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. Additional care and caution may be necessary due to the unique adaptations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

ANTEGRADE CANNULAE

DLP™ Aortic Root Cannulae with Vent Line



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



5.5 in (14.0 cm) overall length

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

Flanged standard tip and Flow-Guard™ introducer	
21012	12 ga (9 Fr)
21014	14 ga (7 Fr)
20 per carton	

5.75 in (14.6 cm) overall length

Slotted long tip and standard introducer	
20112	12 ga (9 Fr)
20114	14 ga (7 Fr)
20 per carton	

5.75 in (14.6 cm) overall length

Flanged long tip and standard introducer	
20114WF	14 ga (7 Fr)
20114HWF	14 ga (7 Fr) with side holes
20 per carton	

5.25 in (13.3 cm) overall length

Flanged pressure monitoring tip and standard introducer	
24009	9 ga (11 Fr)
20 per carton	

Important Safety Information

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

ANTEGRADE CANNULAE

DLP™ Cardioplegia Needles



These needles feature stainless steel tips with a plastic depth stop. These needles are attached to flexible tubing with drape clamp and female luer.



Pediatric	
6.5 in (16.5 cm) overall length	
Tip length 1/4 in (0.64 cm) with hub stop	
11316	16 ga (5 Fr)
20 per carton	

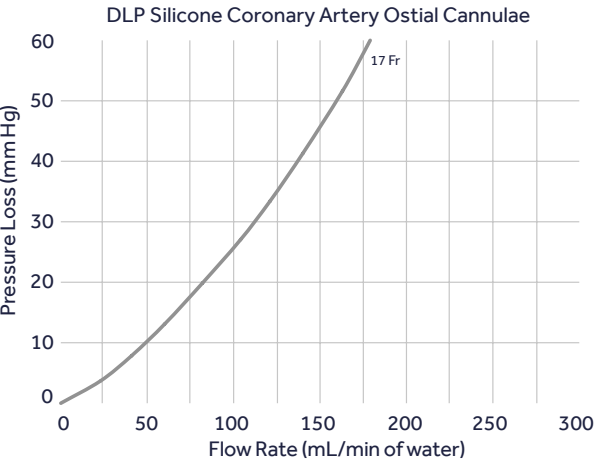
Adult	
10 in (25.4 cm) overall length	
Tip length 5/8 in (1.59 cm) with 4 side holes and flange stop	
10313	13 ga (8 Fr)
20 per carton	

ANTEGRADE CANNULAE

DLP™ Coronary Ostial Perfusion Cannulae



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

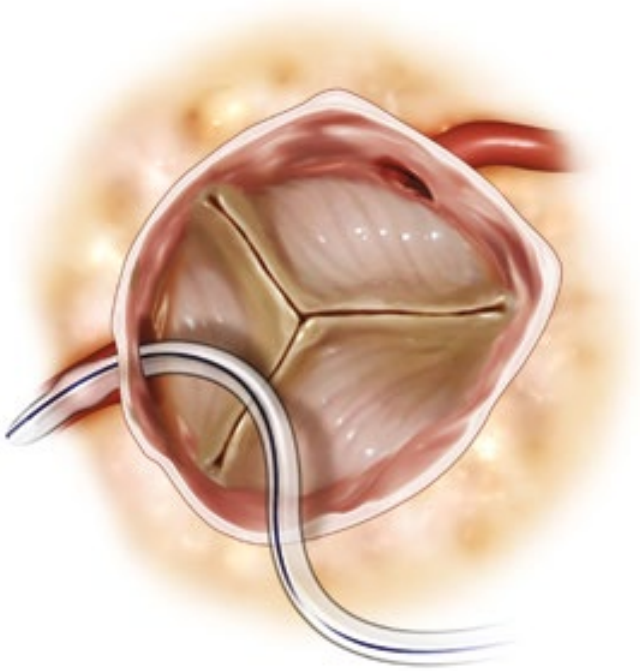


10 in (25.4 cm) overall length

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

10 per carton

Intracoronary cardioplegia

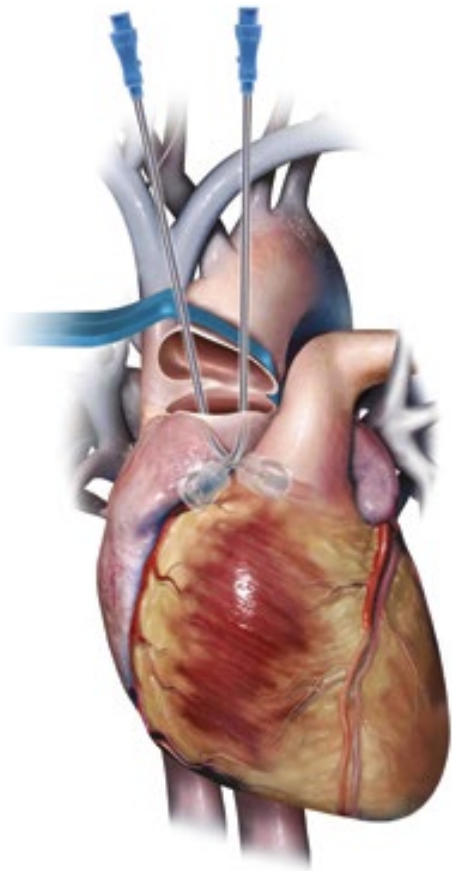
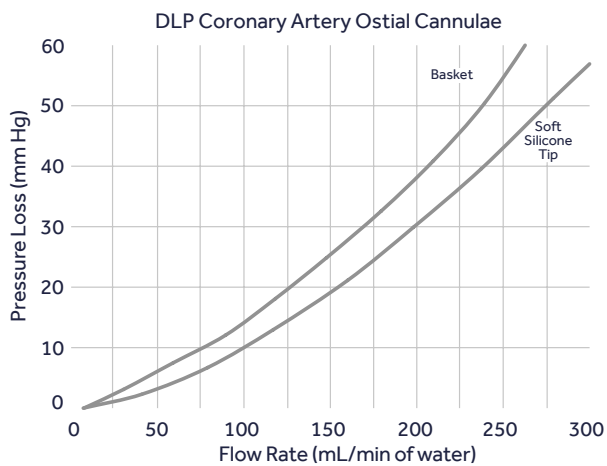


ANTEGRADE CANNULAE

DLP™ Coronary Ostial Perfusion Cannulae



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



6 in (15.2 cm)
overall length

Basket tip	
30010	10 Fr (3.3 mm)
30012	12 Fr (4.0 mm)
30014	14 Fr (4.7 mm)
20 per carton	



6 in (15.2 cm)
overall length

Soft, concave tip	
30050	
10 per carton	



6 in (15.2 cm)
overall length

Soft, convex tip	
30055	
10 per carton	

Important Safety Information

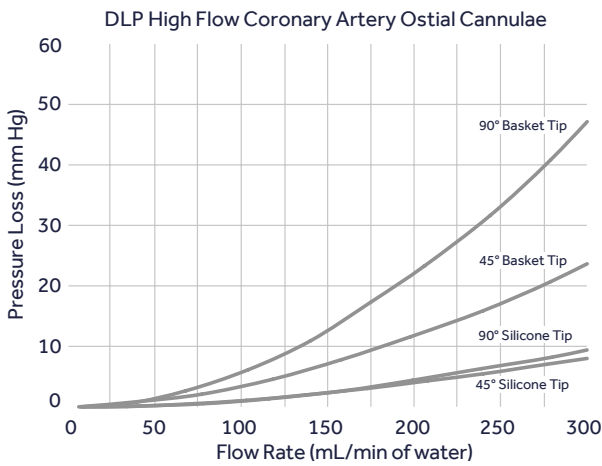
Care should be taken when inserting the needle to prevent perforation of the back wall of the aorta. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures. Additional care and caution may be necessary due to the unique adaptations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

ANTEGRADE CANNULAE

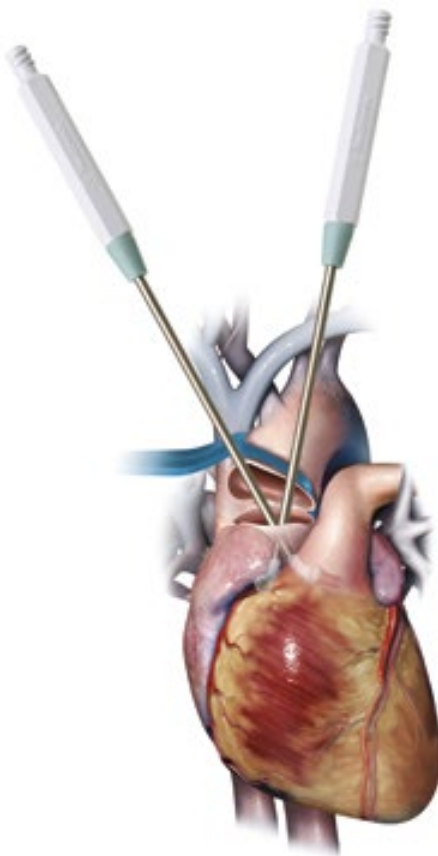
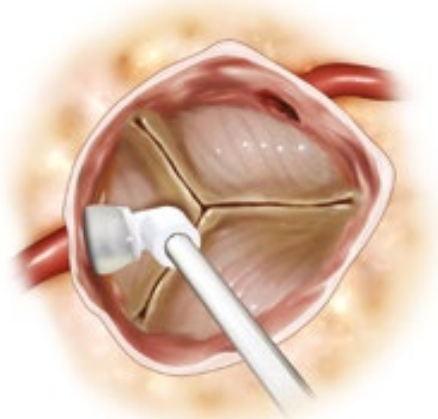
DLP™ Coronary Ostial Perfusion Cannulae



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



Ostial antegrade cardioplegia



7.5 in (19.1 cm)
overall length

90° angle basket tip	
30110	10 Fr (3.3 mm)
30112	12 Fr (4.0 mm)
30114	14 Fr (4.7 mm)

10 per carton



7.5 in (19.1 cm)
overall length

45° angle basket tip	
30212	12 Fr (4.0 mm)

10 per carton



7.5 in (19.1 cm)
overall length

90° angle soft silicone tip	
30155	10 Fr (3.3 mm)

10 per carton



7.5 in (19.1 cm)
overall length

45° angle soft silicone tip	
30255	10 Fr (3.3 mm)

10 per carton



CARDIOPLEGIA CIRCUIT

RETROGRADE

CANNULAE

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

RETROGRADE CANNULAE



➤ GUNDRY™ RETROGRADE CORONARY SINUS PERFUSION WITH MANUAL-INFLATE CUFF	49
➤ DLP™ RETROGRADE CORONARY SINUS PERFUSION WITH MANUAL-INFLATE CUFF	50
➤ DLP™ RETROGRADE CORONARY SINUS PERFUSION WITH AUTO-INFLATE CUFF	52

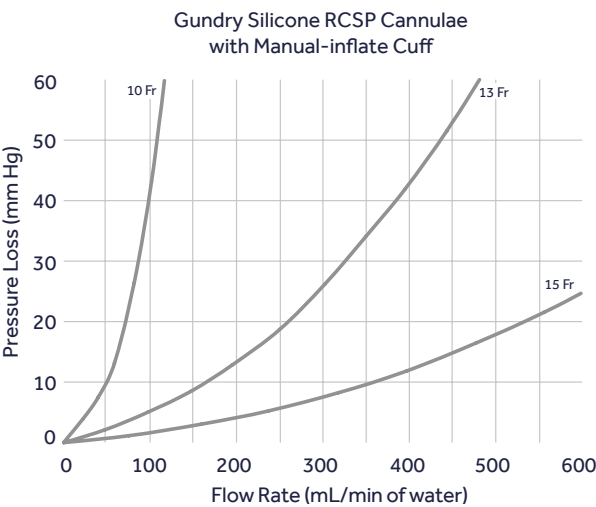
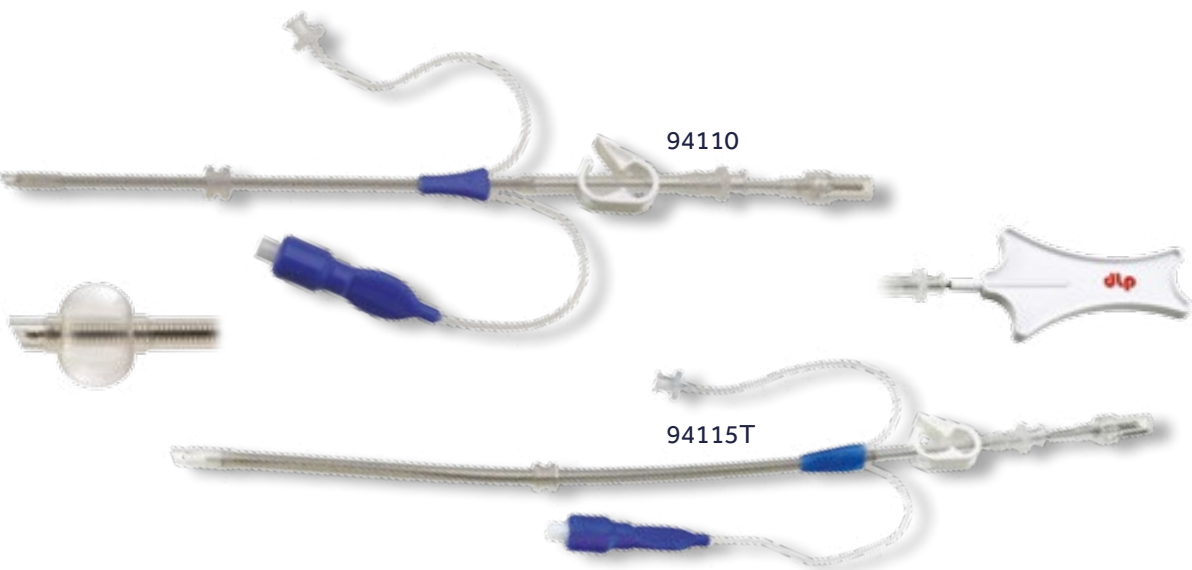


RETROGRADE CANNULAE

Gundry™ Retrograde Coronary Sinus Perfusion Cannulae with Manual-Inflate Cuff



These pediatric and adult cannulae feature silicone bodies and manual-inflate cuffs with pressure monitoring lines. All cannulae have a guidewire stylet and either a male luer handle or a Tru-Touch™ handle. All cannulae come with a syringe for cuff inflation.



9 in (22.9 cm) overall length

Smooth cuff and wirewound body	
94110	10 Fr (3.3 mm) guidewire stylet
4 per carton	

12.5 in (31.8 cm) overall length

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

12.5 in (31.8 cm) overall length

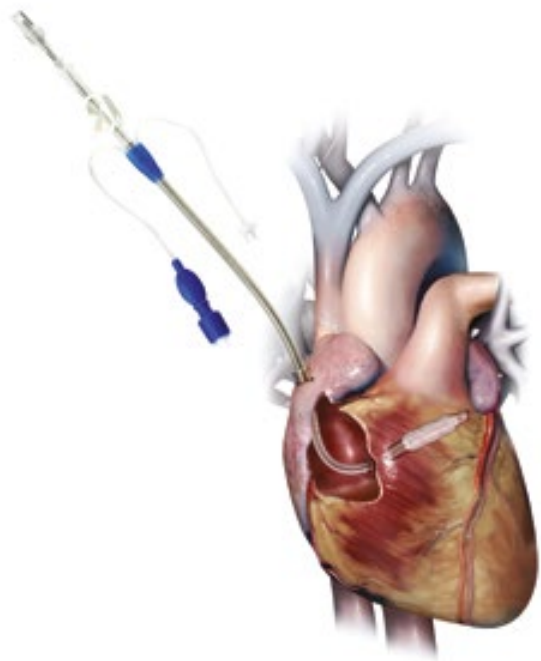
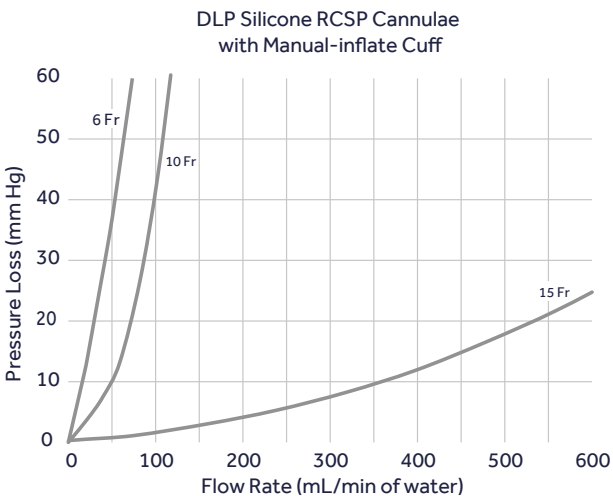
Smooth cuff, wirewound body, and integral stopcock	
94113T	13 Fr (4.3 mm) guidewire stylet
10 per carton	
94615	15 Fr (5.0 mm) guidewire stylet
4 per carton	
94715	15 Fr (5.0 mm) guidewire stylet with Tru-Touch handle
10 per carton	

RETROGRADE CANNULAE

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



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



9 in (22.9 cm) overall length

Smooth cuff and wirewound body	
94010	10 Fr (3.3 mm) no stylet
4 per carton	

12.5 in (31.8 cm) overall length

Smooth cuff and wirewound body	
94215T	15 Fr (5.0 mm) solid stylet
10 per carton	

9.5 in (24.1 cm) overall length

Smooth cuff, non-wirewound body, and integral stopcock	
94006	6 Fr (2.0 mm) no stylet
94106	6 Fr (2.0 mm) guidewire stylet
4 per carton	

12.5 in (31.8 cm) overall length

Smooth cuff, wirewound body, and integral stopcock	
94725	15 Fr (5.0 mm) solid stylet with Tru-Touch™ handle
10 per carton	

Important Safety Information

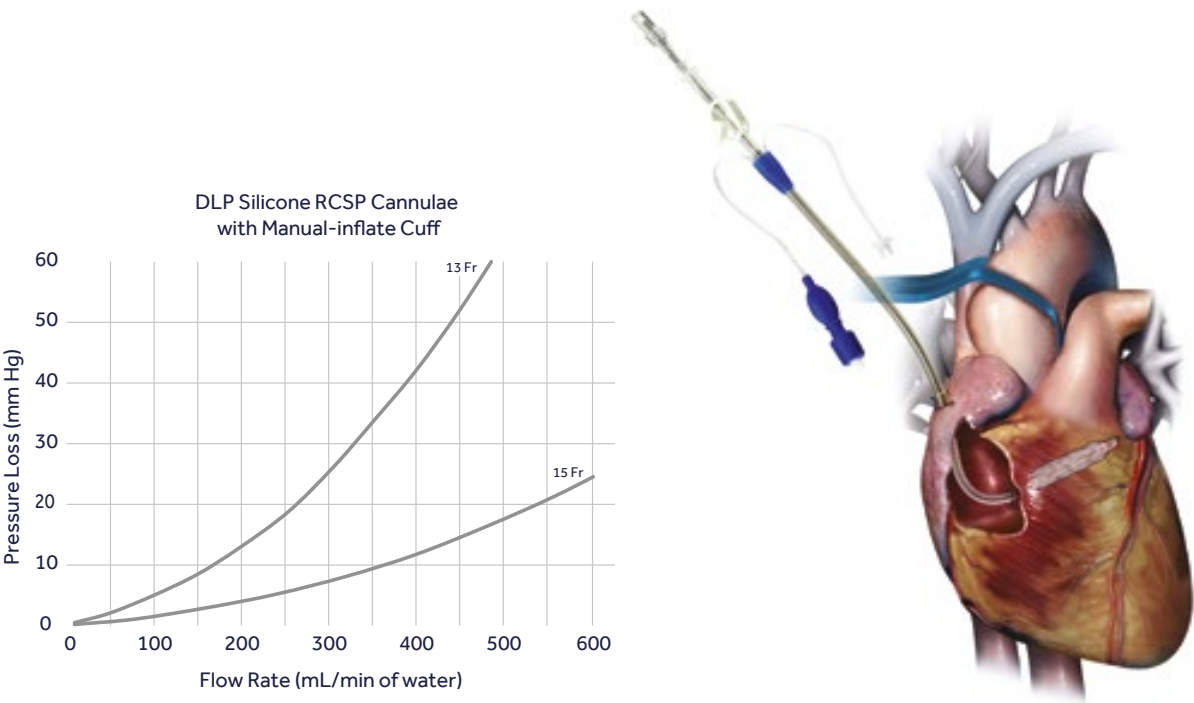
Extreme caution should be exercised while introducing the cannula into the coronary sinus. Do not force the cannula into the coronary sinus as this may cause vessel damage. Do not overinflate the balloon.

RETROGRADE CANNULAE

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



These pediatric and adult cannulae feature silicone bodies and manual-inflate cuffs with pressure monitoring lines. A variety of cuffs and stylets are available. All cannulae come with a syringe for cuff inflation.



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

**Elongated cuff, wirewound
body, and integral stopcock**

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

10 per carton



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

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

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

10 per carton

Important Safety Information

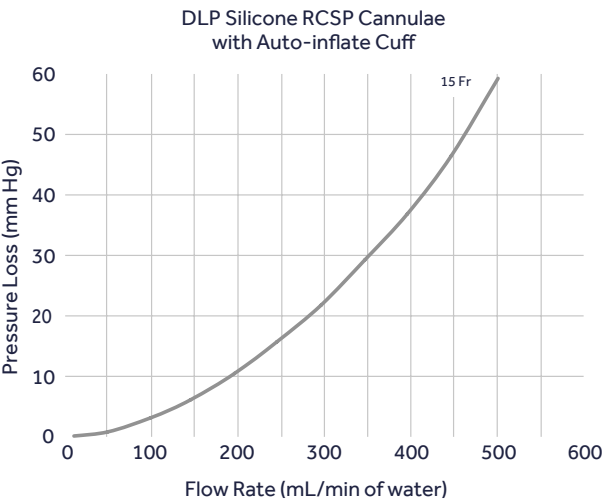
Additional care and caution may be necessary due to the unique adaptations required for minimally invasive techniques. Due to limitations of direct visualization during minimally invasive techniques, echocardiographic or fluoroscopic imaging is recommended. Care and caution should be taken to avoid damage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

RETROGRADE CANNULAE

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



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



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

Smooth preformed cuff and wirewound body	
94315T	15 Fr (5.0 mm) solid stylet
94415T	15 Fr (5.0 mm) guidewire stylet
94735	15 Fr (5.0 mm) solid stylet with Tru-Touch™ handle
94745	15 Fr (5.0 mm) guidewire stylet with Tru-Touch handle

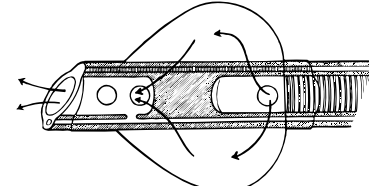
10 per carton



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

Ridged preformed cuff, wirewound body, and integral stopcock	
94995	15 Fr (5.0 mm) guidewire stylet with Tru-Touch handle

10 per carton



Silicone Auto-inflate Cuff Flow Detail

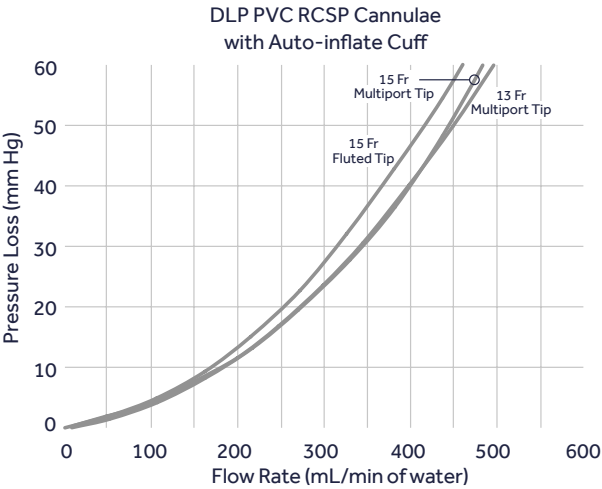
Silicone auto-inflating cuffs offer the convenience of cuff inflation without the need for a syringe. Their unique flow-through design allows cardioplegia to circulate through the cuff before exiting the cannula tip. These cuffs also feature a dual pressure monitoring system, which normally provides intra-sinus pressure monitoring through the port in the tip. However, should the tip inadvertently become occluded, the second port will monitor intra-cuff pressure. This feature greatly reduces the potential for coronary sinus damage due to overinflation.

RETROGRADE CANNULAE

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



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



10 in (25.4 cm) overall length

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

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



11 in (27.9 cm) overall length

Smooth preformed cuff, multiport tip, and integral stopcock

94533	13 Fr (4.3 mm) solid stylet with Tru-Touch handle
94535	15 Fr (5.0 mm) solid stylet with Tru-Touch handle

10 per carton

Important Safety Information

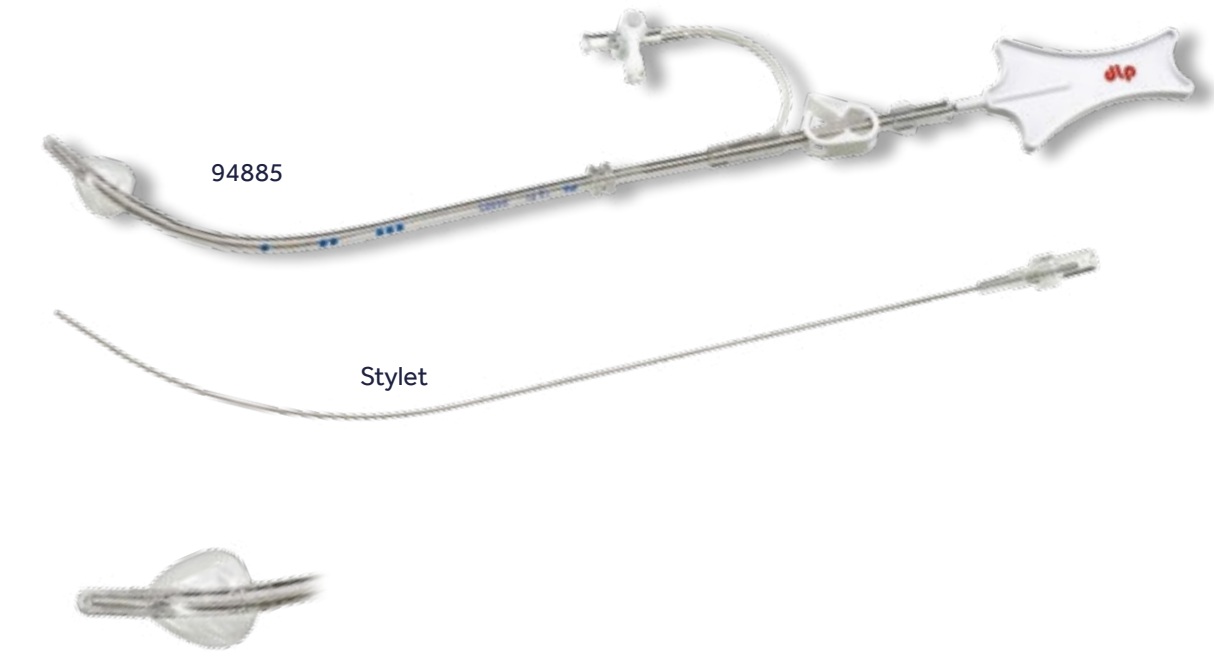
Extreme caution should be exercised while introducing the cannula into the coronary sinus. Do not force the cannula into the coronary sinus as this may cause vessel damage. Do not overinflate the balloon.

RETROGRADE CANNULAE

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



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



12 in (30.5 cm) overall length

Smooth preformed cuff, short fluted bullet-nosed tip, and integral stopcock	
94885	15 Fr (5.0 mm) solid stylet with Tru-Touch™ handle
94895	15 Fr (5.0 mm) guidewire stylet with Tru-Touch handle
10 per carton	



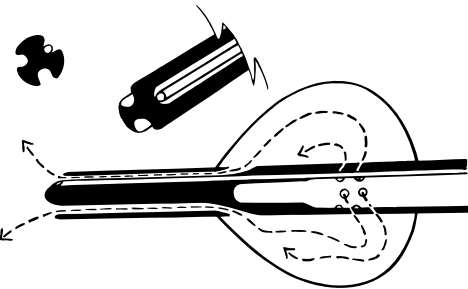
12.5 in (31.8 cm) overall length

Smooth preformed cuff, fluted bullet-nosed tip, and integral stopcock	
94835	15 Fr (5.0 mm) solid stylet with Tru-Touch handle
10 per carton	



12.5 in (31.8 cm) overall length

Ridged preformed silicone cuff, short fluted bullet-nosed tip, and integral stopcock	
94935	15 Fr (5.0 mm) solid stylet with Tru-Touch handle
10 per carton	



PVC Auto-inflate Cuff Flow Detail

Important Safety Information

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



CARDIOPLEGIA CIRCUIT

CARDIOPLEGIA

ADAPTERS

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

CARDIOPLEGIA ADAPTERS



➤ DLP™ PERFUSION	57	➤ DLP™ "Y"	61
➤ DLP™ PERFUSION/VENTING	57	➤ DLP™ VEIN GRAFT CANNULA	62
➤ DLP™ EXTENSION LINE	58	➤ DLP™ CARDIOPLEGIA ADAPTER WITH PRESSURE PORT	63
➤ DLP™ PRESSURE MONITORING EXTENSION LINE	58	➤ ARISS™ PERFUSION SWITCHES	63
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➤ DLP™ "Y" TYPE CORONARY PERFUSION	60		



CARDIOPLEGIA ADAPTERS

DLP™ Perfusion Adapters



These adapters feature a barbed connector on one end and either a male luer or female luer on the other. Some models have a length of tubing between the barbed connector and luers.

2 in (5.1 cm) overall length

Male luer	
10007	1/4 in (0.64 cm) barbed connector
10008	3/8 in (0.95 cm) barbed connector
40 per carton	



3.25 in (8.3 cm) overall length

Tubing and female luer	
10022	1/4 in (0.64 cm) barbed connector
40 per carton	



DLP™ Perfusion/Venting Adapter

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

Male luer	
13002	
20 per carton	



CARDIOPLEGIA ADAPTERS

DLP™ Extension Line Adapters



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

10 in (25.4 cm) overall length

Male and winged female luers	
11001	without clamp
10 per carton	



20 in (50.8 cm) overall length

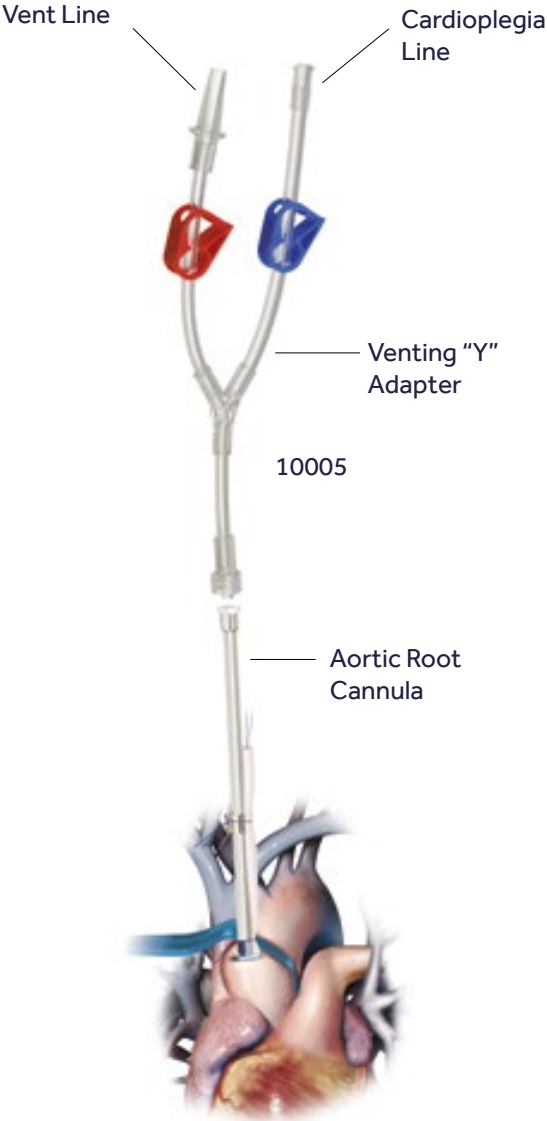
Male and winged female luers	
11001G	with clamp
20 per carton	

DLP™ Pressure Monitoring Extension Line Adapters

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

6 ft (1.8 m) overall length

Male and female luers	
25009	male x female luers
25010	male x male luers
20 per carton	



Important Safety Information

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

CARDIOPLEGIA ADAPTERS

DLP™ Straight Adapters



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



5 in (12.7 cm) overall length

Male luers	
10001	with vented 1/4 in connector
10001K	with vented 1/4 in connector and clamp
20 per carton	

DLP™ "Y" Adapters

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



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

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

CARDIOPLEGIA ADAPTERS

DLP™ "Y" Type Recirculating Adapters



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

8 in (20.3 cm) overall length

Male luer on single leg

10003	color-coded clamps
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20 per carton



DLP™ "Y" Type Coronary Perfusion Adapters

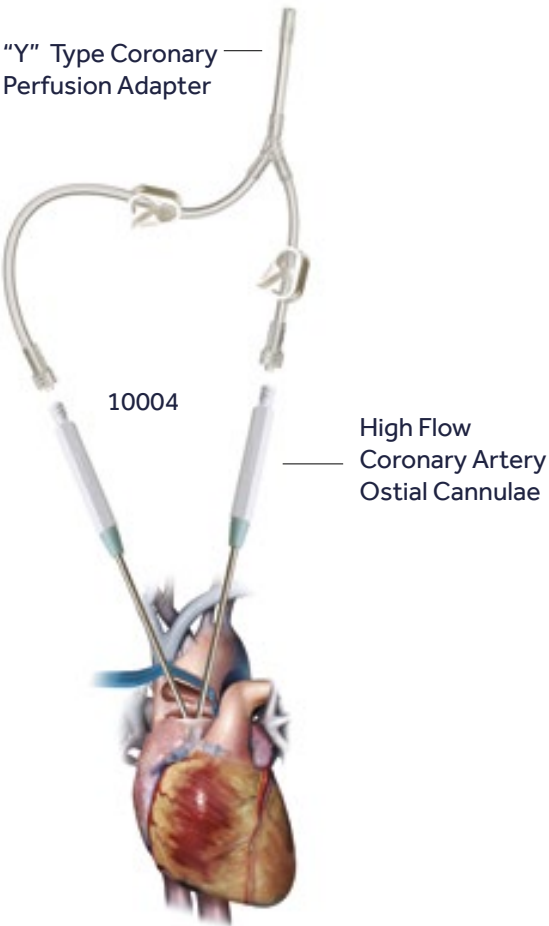
These adapters feature a rigid "Y" with two legs in various lengths that terminate with male luers.



Female luer on single leg

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

20 per carton



Important Safety Information

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

CARDIOPLEGIA ADAPTERS

DLP™ "Y" Adapter



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

20.5 in (52.1 cm) overall length

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



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

7.5 in (19.1 cm) overall length

Male luer on single leg	
10005OS	white clamps with color-coded arrows
20 per carton	



CARDIOPLEGIA ADAPTERS

DLP™ Vein Graft Cannula

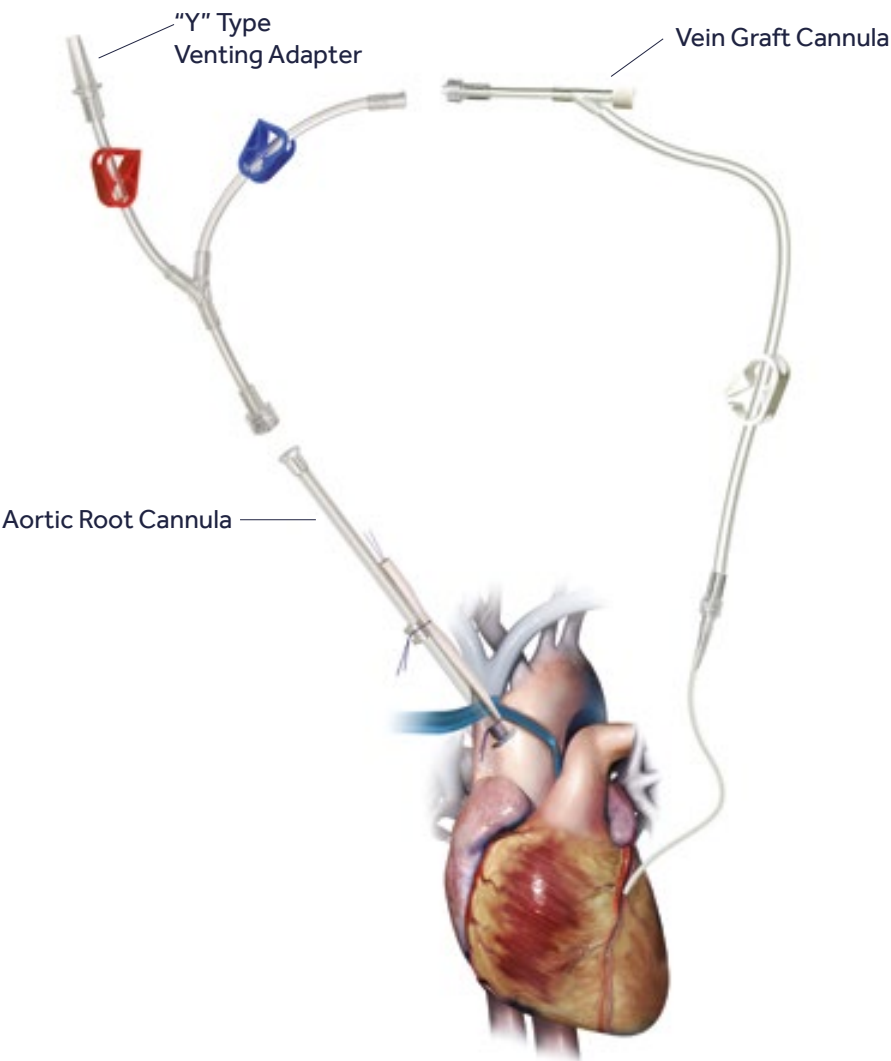


This product features a soft silicone tip with graduated steps to fit any vessel. The tip is attached to a “Y” adapter via tubing with clamps. The “Y” adapter terminates with a male luer.



25.5 in (63.5 cm) overall length

Male luer on single inlet leg	
10010	“Y” adapter with female luer and white clamp on male leg
20 per carton	



The combination of a Vein Graft Cannula and an Aortic Root Cannula provides a way to perfuse the aortic root and vein graft. In this case the vein graft must be held with the fingers and not tied.

Important Safety Information

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

CARDIOPLEGIA ADAPTERS

DLP™ Cardioplegia Adapter with Pressure Port



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



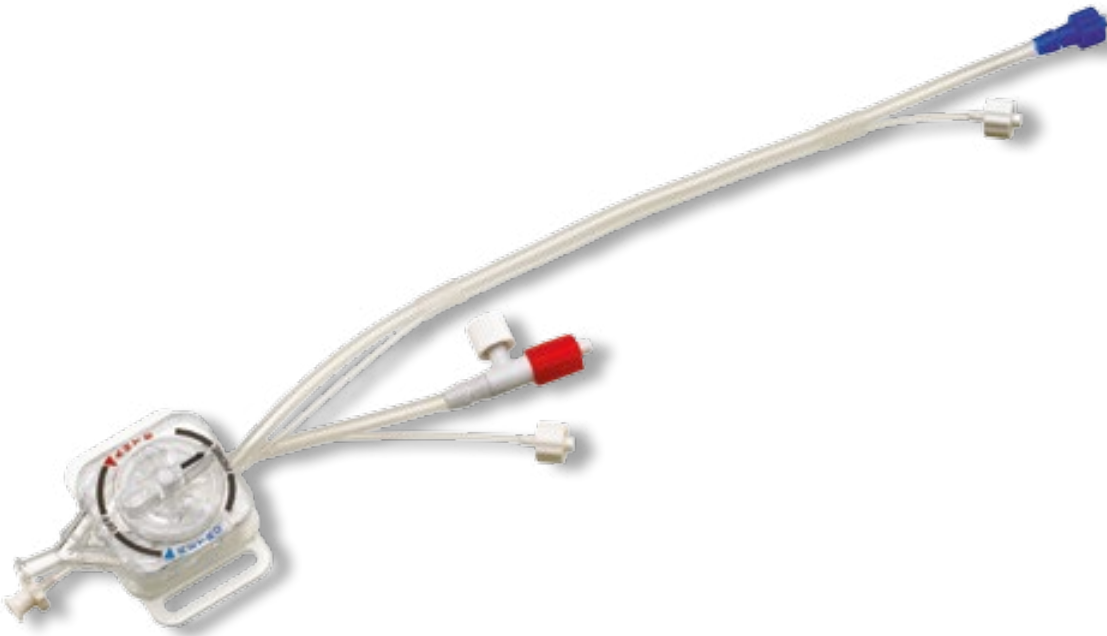
Locking male luer	
15004	
10 per carton	

ARISS™ Perfusion Switches

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

13 in (33.0 cm) overall length

Table mount models	
13000	unequal legs
13004	equal legs
10 per carton	



CARDIOPLEGIA ADAPTERS

DLP™ Cardioplegia Management Set



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

Female luer on single leg	
13003	color-coded clamps
5 per carton	

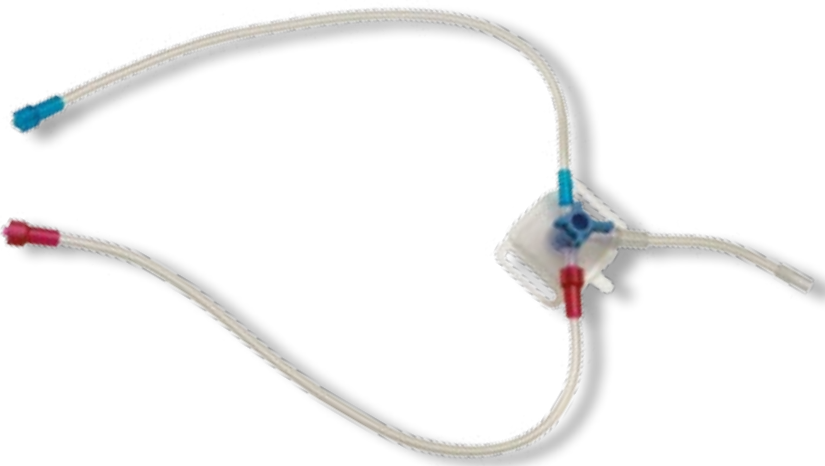


DLP™ Antegrade/Retrograde Stopcock Adapter

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

26.5 in (67.3 cm) overall length

Female luer on single leg	
13001	
10 per carton	



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CARDIOPLEGIA ADAPTERS

DLP™ Multiple Perfusion Sets



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

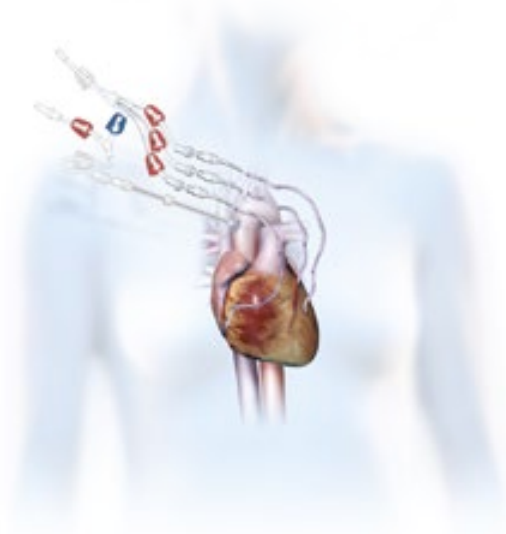
12 in (30.5 cm) overall length

Female luer on single inlet leg with 4 legs	
14003	4 - 8 in (20.3 cm) length legs with 3 red clamps and 1 blue clamp
14013	4 - 10 in (25.4 cm) length legs with red, blue, yellow, and white clamps
10 per carton	



15 in (38.1 cm) overall length

Female luer on single inlet leg with 4 legs	
14000	1 - 3 in (7.6 cm) length leg with blue clamp 3 - 10 in (25.4 cm) length legs with red clamps
10 per carton	
Female luer on single inlet leg with 4 legs and vent line	
14001	1 - 8 in (20.3 cm) length vented leg with red clamp on vent line 3 - 10 in (25.4 cm) length legs with red clamps
14017	1 - 8 in (20.3 cm) length vented leg with stiff tubing and red clamp on vent line 3 - 10 in (25.4 cm) lengths stiff tubing and red clamps
14031	1 - 12 in (30.5 cm) length vented leg with yellow clamp on vent line 3 - 10 in (25.4 cm) length legs with red clamps
10 per carton	



Important Safety Information

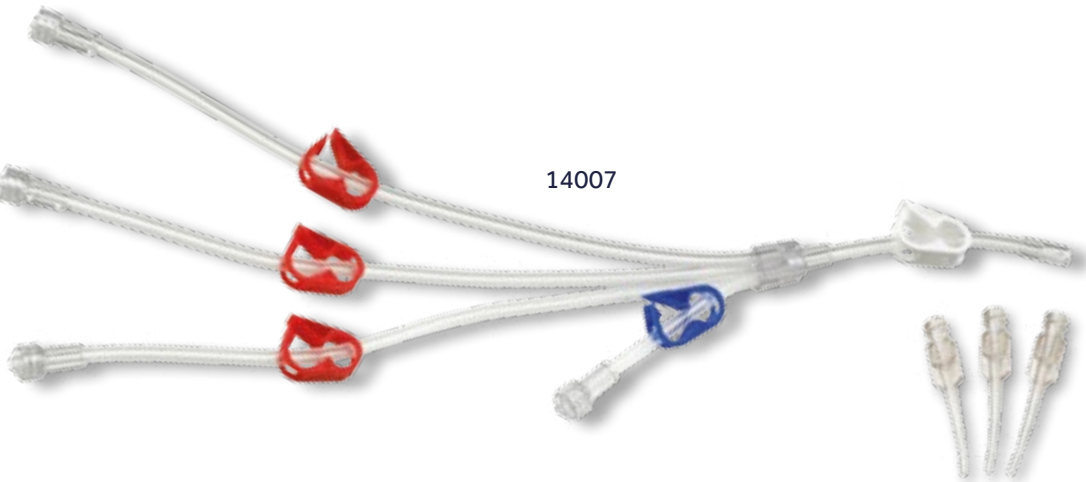
Cardioplegia adapter devices are a combination of products that have their own indications, contraindications, precautions, warnings, and potential adverse events. Refer to those components individually. Cardioplegia adapter devices are not intended for use except as indicated. Use the lowest possible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

CARDIOPLEGIA ADAPTERS

DLP™ Multiple Perfusion Sets



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



15 in (38.1 cm) overall length

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

14007	1 - 3 in (7.6 cm) length leg with blue clamp
	3 - 10 in (25.4 cm) length legs with red clamps

10 per carton

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

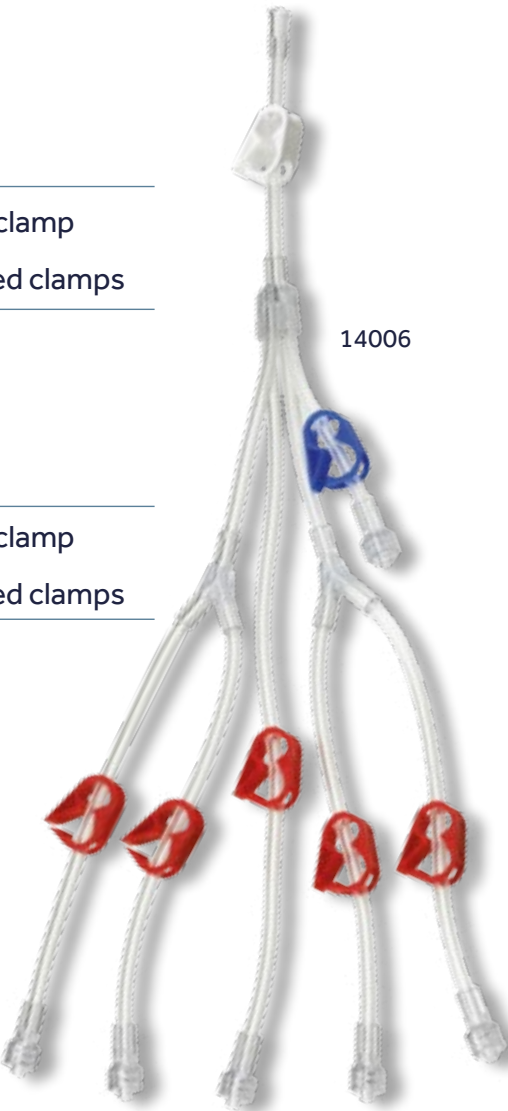
14008	1 - 3 in (7.6 cm) length leg with blue clamp
	3 - 10 in (25.4 cm) length legs with red clamps

10 per carton

Female luer on single inlet leg with 6 legs

14006	1 - 3 in (7.6 cm) length leg with blue clamp
	5 - 10 in (25.4 cm) length legs with red clamps

10 per carton



Important Safety Information

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PRODUCTS

SUCTION

CIRCUIT

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

SUCTION CIRCUIT



➤ DLP™ CARDIAC SUCTION TUBES 69	➤ DLP™ CARDIAC SUMP 73
➤ DLP™ PERICARDIAL SUMPS 72	➤ DLP™ LEFT HEART VENT CATHETERS 74
➤ DLP™ PERICARDIAL/INTRACARDIAC SUMPS 72	

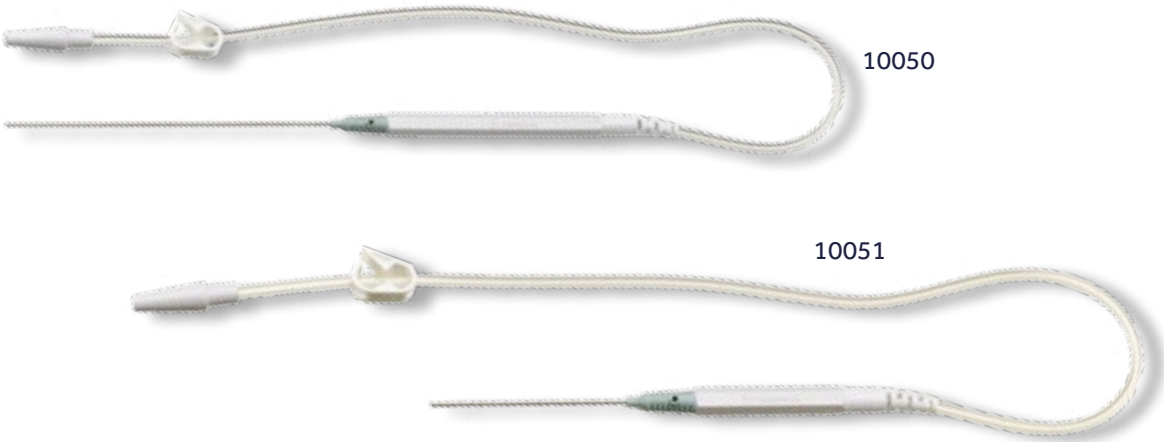


SUCTION CIRCUIT

DLP™ Cardiac Suction Tubes



These suction tubes feature comfortable hand grips with a vacuum control port. The tip is made from a malleable stainless steel shaft, which allows the surgeon to gently shape to a desired preference. Models are available with or without a soft silicone tip. All suction tubes are equipped with a length of tubing and clamp terminating with a 1/4 inch (0.64 cm) connector.



Frazier tip



Soft tip



3 in (7.6 cm)
approx. shaft and tip length

Frazier tip	
10051	6 Fr (2.0 mm) shaft
Soft tip	
10053	6 Fr (2.0 mm) shaft with 10 Fr (3.3 mm) tip
20 per carton	

6 in (15.2 cm)
approx. shaft and tip length

Frazier tip	
10050	6 Fr (2.0 mm) shaft
Soft tip	
10052	6 Fr (2.0 mm) shaft with 10 Fr (3.3 mm) tip
20 per carton	

SUCTION CIRCUIT

DLP™ Cardiac Suction Tubes



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



6 in (15.2 cm) overall length

Perforated pool tip

10060	10 Fr (3.3 mm) shaft with 20 Fr (6.7 mm) tip (28 holes in tip)
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20 per carton

SUCTION CIRCUIT

DLP™ Cardiac Suction Tubes



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



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

Macro Sucker	
10061	20 Fr (6.7 mm) tip with 16 Fr (5.3 mm) shaft
20 per carton	



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

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

Important Safety Information

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

SUCTION CIRCUIT

DLP™ Pericardial Sump



This sump features a fluted tip that is encased in a stainless steel spring and has a weight at the end. This tip is attached to soft, flexible tubing terminating in a connector.



15 in (38.1 cm) overall length

Weighted tip

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

20 per carton

DLP™ Pericardial/Intracardiac Sump

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



15 in (38.1 cm) overall length

Weighted tip

12112	20 Fr (6.7 mm)
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20 per carton

Important Safety Information

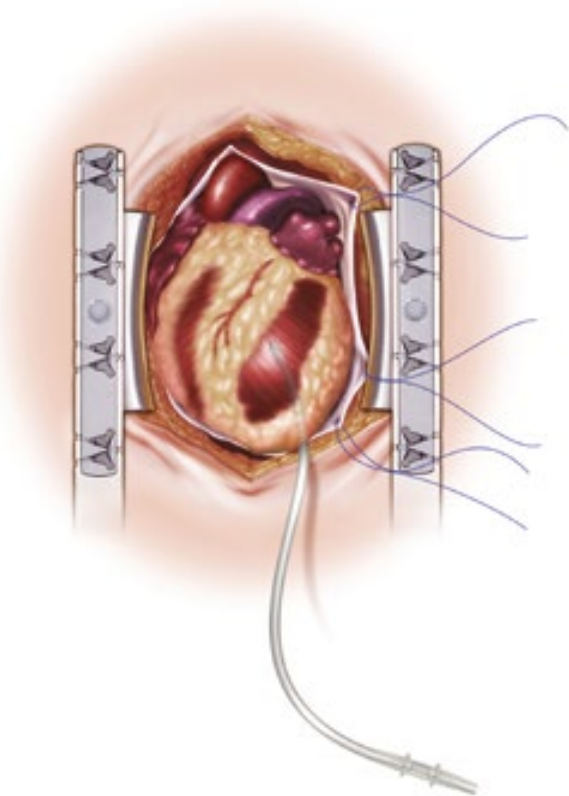
The Pericardial Sump (Model 12010) is not intended to be placed through a valve to drain a closed cardiac chamber. Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures.

SUCTION CIRCUIT

DLP™ Cardiac Sump



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



12 in (30.5 cm) overall length

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

15 in (38.1 cm) overall length

12012	20 Fr (6.7 mm) (28 holes in tip)
20 per carton	

SUCTION CIRCUIT

DLP™ Left Heart Vent Catheters



These vent catheters are for direct and indirect venting of the left ventricle and feature perforated tips. A choice of either PVC or silicone is available, along with straight, preformed, or malleable bodies with depth markings. These vents are available in pediatric and adult sizes. Straight body models come with a malleable or stiff guidewire style introducer for easy insertion and placement. All vent catheters terminate with a vented or non-vented 1/4 inch (0.64 cm) connector.



PVC 13 in (33.0 cm) overall length

Preformed 1.5 in (3.8 cm) tip and vented connector	
12008	10 Fr (3.3 mm) (8 holes in tip)
20 per carton	

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

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



PVC 15 in (38.1 cm) overall length

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



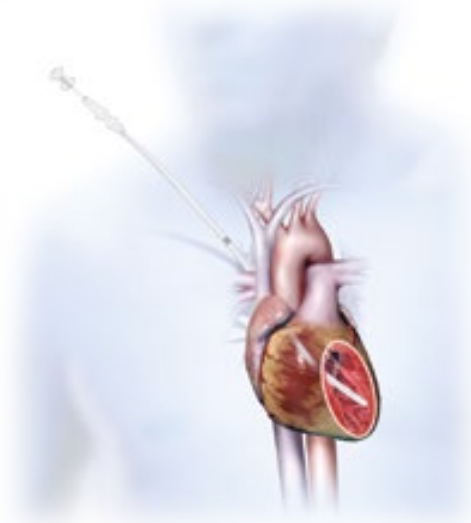
PVC 15 in (38.1 cm) overall length

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



Silicone 16 in (40.6 cm) overall length

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





The largest cannula
portfolio worldwide.

Our commitment
— to you.

PRODUCTS

SURGICAL

SUPPORT

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

➤ DLP™ DISPOSABLE PRESSURE DISPLAY SETS 77	➤ DLP™ ELECTRO-SURGICAL KNIFE CLEANER 82
➤ DLP™ TOURNIQUET SETS 78	➤ DLP™ PHRENIC NERVE PADS 82
➤ TOURNIKWIK™ TOURNIQUET SETS 79	➤ DLP™ CORONARY ARTERY RETRACTION CLIPS 83
➤ SURE-SNARE™ TOURNIQUET SETS 79	➤ DLP™ PRESSURE CATHETER PLACEMENT SET 84
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➤ DLP™ ARTERIOTOMY CANNULAE 81	➤ DLP™ RAPID PRIME SET 86
➤ DLP™ ARTERIOTOMY CANNULAE 81	



SURGICAL SUPPORT

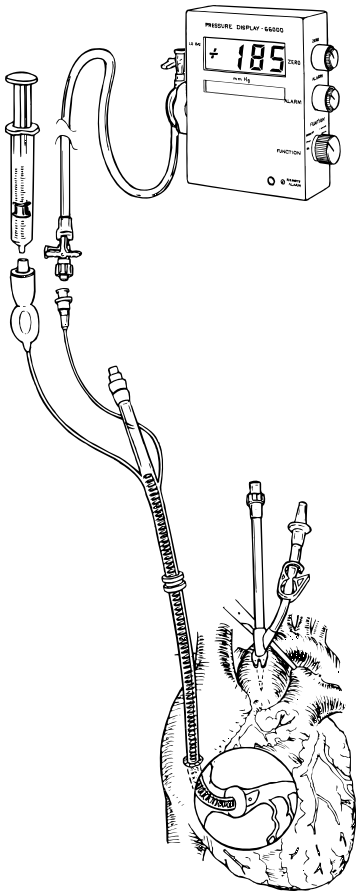
DLP™ Disposable Pressure Display Sets



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

45 in (1.14 m) overall length

61000	stopcock
62000	male luer
10 per carton	



SURGICAL SUPPORT

DLP™ Tourniquet Sets



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

Standard sets

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



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



Tube length of 7 in (17.8 cm)

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

40 sets per carton

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

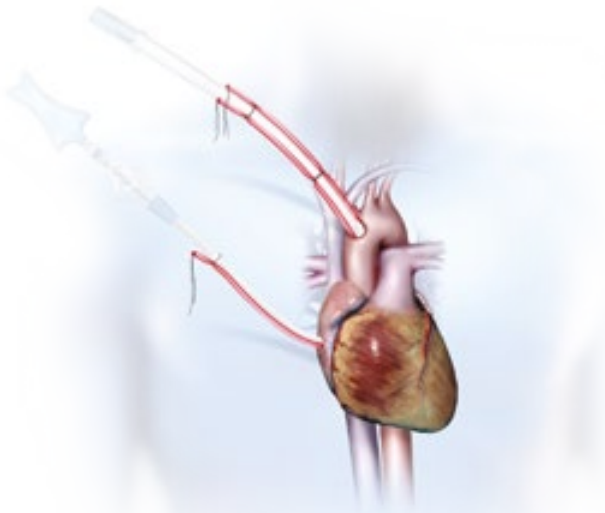
20 sets per carton

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

40 sets per carton



79022



Vena cava sets

Tube length of 7 in (17.8 cm)

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

40 sets per carton



79005

SURGICAL SUPPORT

TourniKwik™ Tourniquet Sets



These tourniquet sets consist of bronze-colored tubes in varying lengths that have a quick tie cap attached to one end. These caps eliminate the use of clamps by wrapping the suture string around the cap. Wire snares are included with each set of tubes.

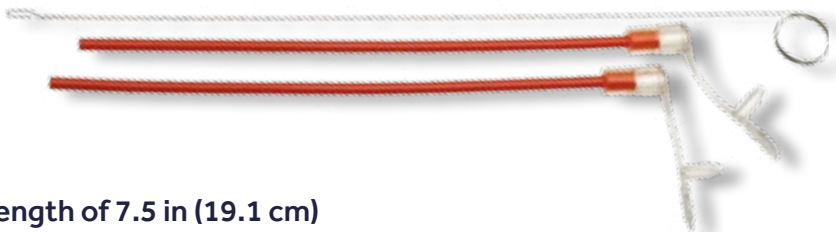


Tube length of 6 in (15.2 cm)	
79010	12 Fr (2 - tubes, 1 - snare)
79011	12 Fr (4 - tubes, 1 - snare)
40 sets per carton	

Tube length of 7.5 in (19.1 cm)	
79012	12 Fr (2 - tubes, 1 - snare)
79013	12 Fr (4 - tubes, 1 - snare)
40 sets per carton	

Sure-Snare™ Tourniquet Sets

These tourniquet sets consist of bronze-colored tubes in varying lengths that have a plug attached to one end. These plugs eliminate the use of clamps by pushing the plug into the tube end where the suture string exits.



Tube length of 5 in (12.7 cm)	
79020	22 Fr (2 - tubes, 2 - umbilical tapes, 2 - plastic snares)
20 sets per carton	



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

These cannulae feature clear and radiopaque bodies and are available with or without a one-way valve. All the cannulae terminate with a female luer and have tips in various sizes and shapes.

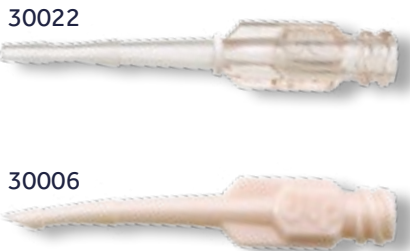
2 in (5.1 cm) overall length

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



2 in (5.1 cm) overall length

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



2 in (5.1 cm) overall length

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

2.5 in (6.4 cm) overall length

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



2.5 in (6.4 cm) overall length

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



SURGICAL SUPPORT

DLP™ Arteriotomy Cannulae



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

1.8 in (4.6 cm) overall length

31001	1 mm tip
20 per carton	



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



1.3 in (3.3 cm) overall length

31002	2 mm tip
31003	3 mm tip
20 per carton	



2.3 in (5.8 cm) overall length

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

SURGICAL SUPPORT

DLP™ Electro-Surgical Knife Cleaner



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

2.5 in (6.4 cm) overall length

60001
40 per carton



DLP™ Phrenic Nerve Pads

These pads are designed to help protect the phrenic nerve from the extreme cold during surgery. They are made of a closed-cell foam and contain slots. These slots can hold a pericardial sump in place. A radiopaque marker is tied to the pad.

38002	medium
38003	large
10 per carton	



SURGICAL SUPPORT

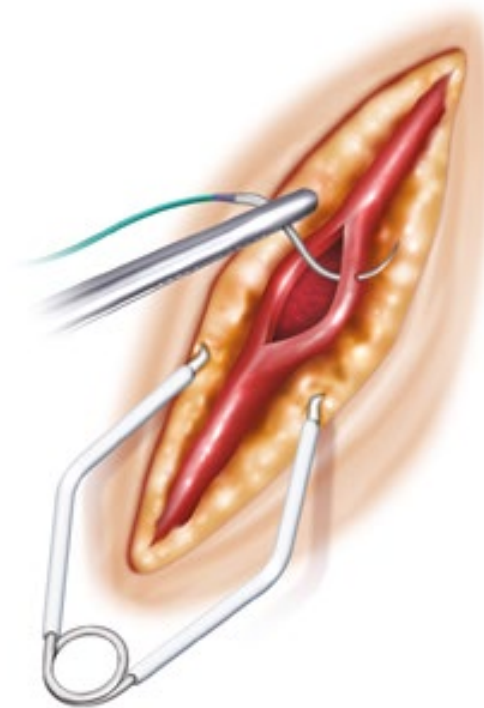
DLP™ Coronary Artery Retraction Clips



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

16130	3.0 mm prong length
16150	5.0 mm prong length

10 per carton



Important Safety Information

Care and caution should be taken to avoid damage to vessels and cardiac tissue during cannulation or other cardiac surgery procedures.

SURGICAL SUPPORT

DLP™ Pressure Catheter Placement Set

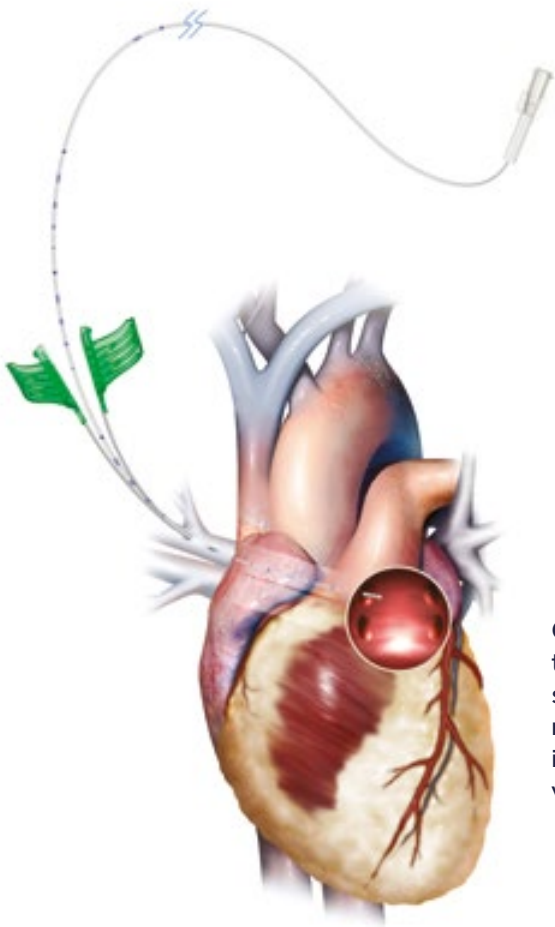


These sets are an ideal option for measuring cardiac performance postoperatively. The catheters measure left atrial pressure in real time to accurately display critical preload pressures of the left heart. The catheter tubing has depth markings and is attached to a female luer. There is a self-adhesive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



24 in (61.0 cm) overall length

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



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

SURGICAL SUPPORT

DLP™ IV-decanter



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



8.5 in (21.6 cm) overall length

40040	Flexible tubing and clamp
20 per carton	

DLP™ Rapid Prime Set

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



14 in (35.6 cm) overall length

With male luer	
10021	
10 per carton	



APPENDIX

PRODUCTS

CODES

PRODUCTS CODES

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89122	DLP™ Curved Tip Arterial Cannulae 22 Fr (7.3 mm)	16	94415T	DL P™ Retrograde Coronary Sinus Perfusion Cannulae with Auto-Inflate Cuff, 15 Fr (5.0 mm)	52
89124	DLP™ Curved Tip Arterial Cannulae 24 Fr (8.0 mm)	16	94533	DL P™ Retrograde Coronary Sinus Perfusion Cannulae with Auto-Inflate Cuff, 13 Fr (4.3 mm)	53
91228	MC2™ Two Stage Venous Cannulae, 28/36 Fr (9.3/12.0 mm)	35	94535	DL P™ Retrograde Coronary Sinus Perfusion Cannulae with Auto-Inflate Cuff, 15 Fr (5.0 mm)	53
91228C	MC2™ Two Stage Venous Cannulae, 28/36 Fr (9.3/12.0 mm)	35	94615	Gundry™ Retrograde Coronary Sinus Perfusion Cannulae with Manual-Inflate Cuff, 15 Fr (5.0 mm)	49
91229	MC2™ Two Stage Venous Cannulae, 29/37 Fr (9.7/12.3 mm)	35	94625	DLP™ Retrograde Coronary Sinus Perfusion Cannulae with Manual-Inflate Cuff, 15 Fr (5.0 mm)	51
91229C	MC2™ Two Stage Venous Cannulae, 29/37 Fr (9.7/12.3 mm)	35	94665	DLP™ Retrograde Coronary Sinus Perfusion Cannulae with Manual-Inflate Cuff, 15 Fr (5.0 mm)	51
91236	MC2™ Two Stage Venous Cannulae, 36/46 Fr (12.0/15.3 mm)	35	94715	Gundry™ Retrograde Coronary Sinus Perfusion Cannulae with Manual-Inflate Cuff, 15 Fr (5.0 mm)	49
91236C	MC2™ Two Stage Venous Cannulae, 36/46 Fr (12.0/15.3 mm)	35	94725	DLP™ Retrograde Coronary Sinus Perfusion Cannulae with Manual-Inflate Cuff, 15 Fr (5.0 mm)	50
91240	MC2™ Two Stage Venous Cannulae, 32/40 Fr (10.7/13.3 mm)	35	94735	DL P™ Retrograde Coronary Sinus Perfusion Cannulae with Auto-Inflate Cuff, 15 Fr (5.0 mm)	52
91240C	MC2™ Two Stage Venous Cannulae, 32/40 Fr (10.7/13.3 mm)	35	94745	DL P™ Retrograde Coronary Sinus Perfusion Cannulae with Auto-Inflate Cuff, 15 Fr (5.0 mm)	52
91246	MC2™ Two Stage Venous Cannulae, 34/46 Fr (11.3/15.3 mm)	35	94835	DL P™ Retrograde Coronary Sinus Perfusion Cannulae with Auto-Inflate Cuff, 15 Fr (5.0 mm)	54
91246C	MC2™ Two Stage Venous Cannulae, 34/46 Fr (11.3/15.3 mm)	35	94885	DL P™ Retrograde Coronary Sinus Perfusion Cannulae with Auto-Inflate Cuff, 15 Fr (5.0 mm)	54
91251	MC2™ Two Stage Venous Cannulae, 36/51 Fr (12.0/17.0 mm)	35	94885K	DL P™ Retrograde Coronary Sinus Perfusion Cannulae with Auto-Inflate Cuff, 15 Fr (5.0 mm)	53
91251C	MC2™ Two Stage Venous Cannulae, 36/51 Fr (12.0/17.0 mm)	35	94895	DL P™ Retrograde Coronary Sinus Perfusion Cannulae with Auto-Inflate Cuff, 15 Fr (5.0 mm)	54
91263	MC2™ Two Stage Venous Cannulae, 32/40 Fr (10.7/13.3 mm)	35	94913	DLP™ Retrograde Coronary Sinus Perfusion Cannulae with Manual-Inflate Cuff, 13 Fr (4.3 mm)	51
91263C	MC2™ Two Stage Venous Cannulae, 32/40 Fr (10.7/13.3 mm)	35			
91265	MC2™ Two Stage Venous Cannulae, 36/46 Fr (12.0/15.3 mm)	35			
91265C	MC2™ Two Stage Venous Cannulae, 36/46 Fr (12.0/15.3 mm)	35			
91329	MC2™ Two Stage Venous Cannulae, 29/29 Fr (9.7/9.7 mm)	35			
91329C	MC2™ Two Stage Venous Cannulae, 29/29 Fr (9.7/9.7 mm)	35			
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93464	VC2™ Venous Cannulae, 34/48 Fr (11.3/16.0 mm)	34			
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96830-110	Bio-Medicus™ NextGen Pediatric Venous Cannulae, 10 Fr (3.3 mm)	21			



Medtronic

Europe

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For more information, contact your local Medtronic Cannula Products representative.

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

For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use.

CERTIFICATE

Number: 2090418

The management system of the organization(s) and locations mentioned on the addendum belonging to:

Medtronic EMEA Medtronic B.V.

Earl Bakkenstraat 10
6422 PJ Heerlen
The Netherlands

including the implementation meets the requirements of the standard:

ISO 9001:2015 EN ISO 13485:2016

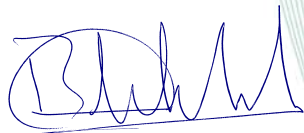
Scope:

Sales, order management, warehousing and distribution of medical devices.
Including regulatory affairs, post market surveillance, technical service, customer education and spine
loaner operations

Certificate expiry date: 1 July 2024
Certificate effective date: 1 July 2021
Certified since: 1 July 2006

This certificate is valid for the organization(s) and/or locations mentioned on the addendum.

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



J.A. van Vugt
Certification Manager

© Integral publication of this certificate and adjoining reports is allowed



ADDENDUM

To certificate: 2090418

The management system of the organization(s) and/or location(s) of:

Medtronic EMEA Medtronic B.V.

Earl Bakkenstraat 10
6422 PJ Heerlen

Certified organization(s) and/or locations:

Different scope

Medtronic Trading NL B.V.
Larixplein 4
5616 VB Eindhoven
The Netherlands

Sales, order management and distribution of medical devices.
Including customer education

Medtronic Italia S.p.A.
Via Varesina 162
20156 Milano
Italy

Sales, order management and distribution of medical devices.
Including customer education.

Medtronic Danmark A/S.
Arne Jacobsens Alle 17
2300 Copenhagen
Denmark

Sales, order management and distribution of medical devices.
Including customer education

Medtronic Finland Oy
Lentajantie 3
01530 Vantaa
Finland

Sales, order management and distribution of medical devices.
Including customer education.

Medtronic AB
P.O. Box 1034
164 21 Kista
Sweden

Sales, order management and distribution of medical devices.
Including customer education

Medtronic Norge AS
Martin Linges vei 25
1364 Fornebu
Norway

Sales, order management and distribution of medical devices.
Including customer education.

ADDENDUM

To certificate: 2090418

The management system of the organization(s) and/or location(s) of:

Medtronic EMEA Medtronic B.V.

Earl Bakkenstraat 10
6422 PJ Heerlen

Medtronic Africa (Pty) Ltd.
Waterfall Distribution Campus CNR
K101 and Bridal Veil Road Waterfall
Midrand
1685 Gauteng
South Africa

Sales, order management, warehousing and distribution of medical devices. Including customer education and spine loaner operations.

Medtronic Medikal Teknoloji Ticaret Ltd
Sti
Saray Mah. Esnaf Sk. Akkom Ofis Park
Laodik Plaza Sitesi B Blok Apt: 2/8
34764 Umraniye - Istanbul
Turkey

Sales, order management and distribution of medical devices.
Including customer education

Medtronic Ibérica S.A.
Calle de Maria de Portugal, 11
28050 Madrid
Spain

Sales, order management and distribution of medical devices.
Including customer education.

Medtronic Ibérica S.A.
WTC Almeda Park Placa de la Pau, s/n.
Edificio 7, 3 piso Cornellà de Llobregat
08940 Barcelona
Spain

Sales, order management and distribution of medical devices.

Medtronic Portugal LDA-
Rua Tomas da Fonseca Torre E, 11
 piso
1600 Lisboa
Portugal

Sales, Order Management and distribution of medical devices
including customer education.

Warehousing and distribution of medical devices, including spine
loaner operations

ADDENDUM

To certificate: 2090418

The management system of the organization(s) and/or location(s) of:

Medtronic EMEA Medtronic B.V.

Earl Bakkenstraat 10
6422 PJ Heerlen

Medtronic Portugal, LDA-
Avenida Gomes Pereira 61B
Benfica
1600 Lisboa
Portugal

Sales, Order Management and distribution of medical devices.
Including customer education.

Warehousing and distribution of medical devices, including spine
loaner operations.

Medtronic GmbH
Earl-Bakken-Platz 1
40670 Meerbusch
Germany

Scope for EN ISO 13485:2016: Sales, order management and
distribution of medical devices. Including customer education.
ISO 9001:2015 excluded

Medtronic GmbH
Mollsfeld 12
40670 Meerbusch
Germany

Scope for EN ISO 13485:2016: Sales, order management and
distribution of medical devices. Including customer education.
ISO 9001:2015 excluded

Medtronic Österreich GmbH
Millennium Tower, 20th floor Handelskai
94-96
1200 Wien
Austria

Sales, order management, warehousing and distribution of
medical devices. Including customer education

Medtronic (Schweiz) AG
Talstrasse 9
3053 Munchenbuchsee
Switzerland

Sales, order management, warehousing and distribution of
medical devices. Including customer education

Medtronic France SAS
9, boulevard Romain Rolland
75014 Paris
France

Sales, order management and distribution of medical devices.
Including customer education

ADDENDUM

To certificate: 2090418

The management system of the organization(s) and/or location(s) of:

Medtronic EMEA Medtronic B.V.

Earl Bakkenstraat 10
6422 PJ Heerlen

Medtronic Hellas S.A.
Avenue Kifisias 24 Building B
151 25 Marousi Pref. Attica
Greece

Sales, order management and distribution of medical devices.
Including customer education.

Medtronic Hellas S.A. Diabetes Shop
Mesogeion Avenue 2-4
115 27 Athens
Greece

Sales, order management and distribution of diabetes medical
devices. Including customer education.

Medtronic Romania SRL
Ploiesti 42-44, Building B, B2 Wing, 2nd
floor, district 1 Baneasa Business &
Technology Park
013696 Bucharest
Romania

Sales, order management and distribution of medical devices.
Including customer education.

Medtronic Hungária Kft.
Bocskai ut 134-146 Cepuleit 3. emelet
1113 Budapest
Hungary

Sales, order management and distribution of medical devices.
Including customer education.

Medtronic Serbia Ltd.
Bulevar Zorana Djindjica, 64a
11070 Belgrade
Serbia

Sales, order management and distribution of medical devices.
Including customer education.

ADDENDUM

To certificate: 2090418

The management system of the organization(s) and/or location(s) of:

Medtronic EMEA Medtronic B.V.

Earl Bakkenstraat 10
6422 PJ Heerlen

Medtronic Poland Sp.z o.o Medtronic
Customer Care Center of Experience
Warsaw
Polna 11
00-633 Warszawa
Poland

Order management of medical devices.

Medtronic Trading Ltd.
10 Hamada Street
4673344 Herzliya
Israel

Import, sales, order management and distribution of medical
devices.
Including customer education

Medtronic Czechia s.r.o.
Prosek Point, Budova B, Prosecka
852/66
852 66 Praha
Czech Republic

Sales, order management and distribution of medical devices.
Including customer education.

Medtronic Bulgaria EOOD
48 Sitnyakovo blvd., R-N OBORISHT
DISTR., floor 7
1505 Sofia
Bulgaria

Sales, order management and distribution of medical devices.
Including customer education.

Medtronic Limited
Building 9, Croxley ParkHatters Ln
WD18 8WW Watford
United Kingdom

Sales, order management and distribution of medical devices.
Including customer education.

ADDENDUM

To certificate: 2090418

The management system of the organization(s) and/or location(s) of:

Medtronic EMEA Medtronic B.V.

Earl Bakkenstraat 10
6422 PJ Heerlen

Medtronic Ireland Limited
Block 3090-3094 Lake Drive, Citywest
Business Campus
D24 NW2F Dublin
Ireland

Sales, order management and distribution of medical devices.
Including customer education.

Medtronic B.V.
Medtronic Service & Repair EMEA
Jan Campertstraat 21-A
6416 SG Heerlen

Order management, warehousing and technical service of
medical devices including field service EMEA.

Medtronic Slovakia s.r.o.
CBC III, Karadzicova 12
821 08 Bratislava
Slovak Republic

Sales, order management and distribution of medical devices.
Including customer education.

Medtronic Belgium
Burgemeester E. Demunterlaan 5
1090 Brussel
Belgium

Sales, Order Management and distribution of medical devices.
Including customer education

Medtronic Croatia
Folnegoviceva 1c
10000 Zagreb
Croatia

Sales, order management and distribution of medical devices.
Including customer education.

Medtronic Slovenia
Ameriska Ulica 8
1000 Ljubljana
Slovenia

Sales, order management and distribution of medical devices

Addendum expiry date: 1 July 2024
Addendum effective date: 1 July 2021



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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 039709 1279 Rev. 00

Manufacturer:

Medtronic Inc.

710 Medtronic Parkway
Minneapolis MN 55432
USA

**Product Category(ies): Tissue Heart Valves,
Annuloplasty Rings and Bands
and related Accessories for
Surgical Implants, and Temporary Pacing
Lead Systems**

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.: 72150078

Valid from: 2019-11-15

Valid until: 2024-05-26

Date, 2019-11-15

Christoph Dicks
Head of Certification/Notified Body



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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 039709 1279 Rev. 00

Facility(ies):

Medtronic Mexico S.de R.L.de CV
Av. Paseo Cucapah, 10510 El Lago, C.P. 22210 Tijuana, Baja
California, MEXICO

Medtronic Heart Valves Division
1941 Blair Avenue, Santa Ana CA 92705, USA

Medtronic Heart Valves Division
1851 E. Deere Avenue, Santa Ana, CA 92705, USA

Medtronic Fabrication S.A.S. Zone Industrielle SUD
Route D'Anor, 59610 Fourmies, FRANCE



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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 039709 1263 Rev. 00

Manufacturer:

Medtronic, Inc.

710 Medtronic Parkway
Minneapolis MN 55432
USA

Product Category(ies):

- **Autotransfusion Systems and Associated Disposables**
- **Centrifugal Blood Pumps**
- **Bio-Console Drive Units**
- **Flow Monitoring Systems**
- **Bio-Cal Blood Temperature Controller**
- **Temperature Monitoring Systems and Associated Disposables**
- **Blood Monitoring Systems**
- **Cardioplegia Delivery Systems**
- **Disposable Blood Handling Devices used for Open Heart Surgery**
- **Arterial Filters**
- **Oxygenators including Heat Exchangers, with and without Cardiectomy Reservoirs**
- **Cardiectomy Venous Reservoirs**
- **Venous Reservoir Bags**
- **Perfusion Equipment and Disposable Perfusion Devices**
- **Disposable Medical Devices for Drainage Systems**
- **Disposable Medical Devices for use in Cardiopulmonary Surgery: Cardioplegia, Cannulae, Venting, Suction**
- **Pressure Display System & related accessories of class IIa**
- **Tissue Positioning/Stabilizing Devices**
- **Surgical Site Clearing Devices**
- **Intravascular Shunts**
- **Surgical Retractors**

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

Page 1 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



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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 039709 1263 Rev. 00

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.: 72150396

Valid from: 2020-02-12

Valid until: 2024-05-26

Date, 2020-02-12

Christoph Dicks
Head of Certification/Notified Body



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Medizinprodukten
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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 039709 1263 Rev. 00

Facility(ies):

Medtronic Mexico S.de R.L.de CV
Av. Paseo Cuapah, 10510 El Lago, C.P. 22210 Tijuana, Baja
California, MEXICO

Medtronic Perfusion Systems
7611 Northland Drive, Minneapolis, MN 55428, USA

Medtronic, Inc.
710 Medtronic Parkway, Minneapolis MN 55432, USA