

ORDIN DE PLATA NR.: 127

TIP.DOC. 1

DATA EMITERII:18 octombrie 2022

PLATITI: 61400-00
lei 00 bani

LEI: Sasezeci si Unu Mii Patru Sute

PLATITOR: (R) S.C. "OXIVI
T-MED" S.R.L.

CONTUL DE PLATI/CODUL IBAN
MD44ML000000002251729503
CODUL FISCAL :1007600044280 /

PRESTATORUL PLATITOR
BC"Moldindconbank"S.A. suc."Invest" Chisinau

CODUL BANCII:
:MOLDMD2X329:

BENEFICIAR (R) Centrul pen
tru Achizi?ii Publice Central
izate in Sanatate

CONTUL DE PLATI/CODUL IBAN
MD23TRPCCC518430B01859AA
CODUL FISCAL :1016601000212 /

PRESTATORUL BENEFICIAR
Ministerul Finantelor - Trezoreria de Stat

CODUL BANCII:
:TREZMD2X

DESTINATIA PLATII:/P102/61400,00 Pentru :
garantia pentru oferta la procedura de a:
chizi?ie publica nr. ocds-b3wdp1-MD-166:
2558388285 din 19.10.2022

TIPUL TRANSFERULUI
NORMAL/URGENT :N:

L.S.

CODUL TRANZACTIEI:101:

DATA PRIMIRII:18/10/2022

DATA EXECUTARII:

SEMNAURILE
EMITENTULUI

CONDUCATOR:Web Kojevnikov Dmitrii

MIIGfAYJKoZIhvcNAQcCoIIGbTCCBmkCAQExCzAJBgUrDgMCGGUAMAsGCSqGSIB3:
DQEHAaCCBIUwggSBMIIDaaADAgECAhNHAACEjCA/4xcrKCbfAAAAAISMMA0GCSqG:
SIB3DQEBcUAMCIXIDAeBgNVBAMTF0NFULQxLUNBLU1vbGRpbmRjb25iYW5rMB4X:
DTIwMDMxNjA4NDUwM1oXDTIzMDMxNjA4NTUwM1owgbgxCzAJBgNVBAYTAk1EMRow:
YDVQIExFSZXB1YmXpY2EgTW9sZG92YTERMA8GA1UEBxMIQ2hpc2luYXUxZzAV

(semnatura electronica)

CONTABIL-SEF:Web Kojevnikov Dmitrii

MIIGfAYJKoZIhvcNAQcCoIIGbTCCBmkCAQExCzAJBgUrDgMCGGUAMAsGCSqGSIB3:
DQEHAaCCBIUwggSBMIIDaaADAgECAhNHAACEjCA/4xcrKCbfAAAAAISMMA0GCSqG:
SIB3DQEBcUAMCIXIDAeBgNVBAMTF0NFULQxLUNBLU1vbGRpbmRjb25iYW5rMB4X:
DTIwMDMxNjA4NDUwM1oXDTIzMDMxNjA4NTUwM1owgbgxCzAJBgNVBAYTAk1EMRow:
YDVQIExFSZXB1YmXpY2EgTW9sZG92YTERMA8GA1UEBxMIQ2hpc2luYXUxZzAV

L.S.

(semnatura electronica)

CONDUCATOR:

(semnatura manuala)

CONTABIL-SEF:

(semnatura manuala)

SEMNAURA PRESTATORUL

L.S.

MOTIVUL REFUZULUI

L.S.

CERTIFICAT
privind lipsa sau existența restanțelor față de bugetul public național

Nr.
№ A2219780

din
от 12.10.2022

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 pînă la / Действителен до 27.10.2022

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

/ SEF interimar al DDF Botanica
L.Ș/ М.П.
Executori: Galina Gînga
Nume și prenume/Фамилия и имя




Semnătura/Подпись

Mariana VOLOH
Numele și prenumele/Фамилия и имя

Este extras din Sistemul Informațional al SFS SIA „Contul curent al contribuabilului”// 12.10.2022 ora 14:15:20
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)



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

SITUAȚIILE FINANCIARE

pentru perioada 01.01.2021 - 31.12.2021

Entitatea: S.C. OXIVIT-MED S.R.L.

Cod CUIO: 40424951

Cod IDNO: 1007600044280

Sediul:

MD:

Raionul(municipiul): 103, DDF BOTANICA

Cod CUATM: 0110, SEC.BOTANICA

Strada: Decebal bd. nr.82 of.90

Activitatea principală: G4774, 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: oxivit.medical@gmail.com

Numele și coordonatele al contabilului-șef: DI (dna) Kojevnikov Dmitrii Tel. 069200308

Numărul mediu al salariaților în perioada de gestiune: 5 persoane.

Persoanele responsabile de semnarea situațiilor financiare* Kojevnikov Dmitrii

Unitatea de măsură: leu

BILANȚUL

la 31.12.2021

Anexa 1

Nr. cpt.	Indicatori	Cod rd.	Sold la	
			Începutul perioadei de gestiune	Sfârșitul 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	1137	487
	din care:			
	2.1. concesiuni, licențe și mărci	021	1137	487
	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	1137	487
	II. Imobilizări corporale			
	1. Imobilizări corporale în curs de execuție	060		
	2. Terenuri	070		
	3. Mijloace fixe, total	080	9980	45953
	din care:			
	3.1. clădiri	081		
	3.2. construcții speciale	082		
	3.3. mașini, utilaje și instalații tehnice	083	9235	45953
	3.4. mijloace de transport	084		

A.	3.5. inventar și mobilier	085		
	3.6. alte mijloace fixe	086	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	9980	45953
	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:			
	2.1. acțiuni și cote de participație deținute în părțile afiliate	151		
	2.2 împrumuturi acordate părților afiliate	152		
	2.3 împrumuturi acordate aferente intereselor de participare	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 participare	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	11117	46440
B.	ACTIVE CIRCULANTE			
	I. Stocuri			
	1. Materiale și obiecte de mică valoare și scurtă durată	240	617	752
	2. Active biologice circulante	250		
	3. Producția în curs de execuție	260		
	4. Produse și mărfuri	270	6895348	8612039
	5. Avansuri acordate pentru stocuri	280		
	Total stocuri (rd.240 + rd.250 + rd.260 + rd.270 + rd.280)	290	6895965	8612791
	II. Creanțe curente și alte active circulante			
	1. Creanțe comerciale curente	300	17423930	9151659
	2. Creanțe ale părților afiliate curente	310		
	inclusiv: creanțe aferente intereselor de participare	311		
	3. Creanțe ale bugetului	320	1593996	685035
	4. Creanțele ale personalului	330	1452	
	5. Alte creanțe curente	340		
	6. Cheltuieli anticipate curente	350	6076	4940
	7. Alte active circulante	360	3786977	5022901
	Total creanțe curente și alte active circulante (rd.300 + rd.310 + rd.320 + rd.330 + rd.340 + rd.350 + rd.360)	370	22812431	14864535
	III. Investiții financiare curente			
	1. Investiții financiare curente în părți neafiliate	380		
	2. Investiții financiare curente în părți afiliate, total	390		
	din care:			
	2.1. acțiuni și cote de participație deținute în părțile afiliate	391		
	2.2. împrumuturi acordate părților afiliate	392		
	2.3. împrumuturi acordate aferente intereselor de participare	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	11586107	10982450
	TOTAL ACTIVE CIRCULANTE (rd.290 + rd.370 + rd.400 + rd.410)	420	41294503	34459776
	TOTAL ACTIVE (rd.230 + rd.420)	430	41305620	34506216
	P A S I V			
C.	CAPITAL PROPRIU			
	I. Capital social și neînregistrat			
	1. Capital social	440	5400	5400
	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	-178779
	2. Profit nerepartizat (pierdere neacoperită) al anilor precedenți	560	24939574	17439574
	3. Profit net (pierdere netă) al perioadei de gestiune	570	X	11125729
	4. Profit utilizat al perioadei de gestiune	580	X	()
	Total profit (pierdere) (rd.550 + rd.560 + rd.570 + rd.580)	590	24939574	28386524
	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	24944974	28391924
D.	DATORII PE TERMEN LUNG			
	1. Credite bancare pe termen lung	630		
	2. Împrumuturi pe termen lung	640	76630	
	din care:	641		
	2.1. împrumuturi din emisiunea de obligațiuni			
	inclusiv: împrumuturi din emisiunea de obligațiuni convertibile	642		
	2.2. alte împrumuturi pe termen lung	643	76630	
	3. Datorii comerciale pe termen lung	650		
	4. Datorii față de părțile afiliate pe termen lung	660		
	inclusiv: datorii aferente intereselor de participare	661		
	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	
	DATORII CURENTE			
	1. Credite bancare pe termen scurt	710		
	2. Împrumuturi pe termen scurt, total	720		

E.	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	15784405	4868225
	4. Datorii față de părțile afiliate curente	740		
	inclusiv: datorii aferente intereselor de participare	741		
	5. Avansuri primite curente	750	349631	938523
	6. Datorii față de personal	760	116957	107832
	7. Datorii privind asigurările sociale și medicale	770		
	8. Datorii față de buget	780		199712
	9. Datorii față de proprietari	790		
	10. Venituri anticipate curente	800		
	11. Alte datorii curente	810	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	16284016	6114292
F.	PROVIZIOANE			
	1. Provizioane pentru beneficiile angajaților	830		
	2. Provizioane pentru garanții acordate cumpărătorilor/clientilor	840		
	3. Provizioane pentru impozite	850		
	4. Alte provizioane	860		
	TOTAL PROVIZIOANE (rd.830 + rd.840 + rd.850 + rd.860)	870		
	TOTAL PASIVE (rd.620 + rd.700 + rd.820 + rd.870)	880	41305620	34506216

SITUAȚIA DE PROFIT ȘI PIERDERE
de la 01.01.2021 până la 31.12.2021

Anexa 2

Indicatori	Cod rd.	Perioada de gestiune	
		precedenta	curenta
1	2	3	4
Venituri din vânzări, total	010	61054881	63146813
din care:			
venituri din vânzarea produselor și mărfurilor	011	61054881	63146813
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	50207602	48882405
din care:			
valoarea contabilă a produselor și mărfurilor vândute	021	50207602	48882405
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	10847279	14264408
Alte venituri din activitatea operațională	040	1967064	9915
Cheltuieli de distribuire	050	68333	60149
Cheltuieli administrative	060	995848	968411
Alte cheltuieli din activitatea operațională	070	34858	239797
Rezultatul din activitatea operațională: profit (pierdere) (rd.030 + rd.040 - rd.050 - rd.060 - rd.070)	080	11715304	13005966

Venituri financiare, total	090	1752762	1026285
din care:	091		
venituri din interese de participare			
inclusiv: veniturile obținute de la părțile afiliate	092		
venituri din dobânzi	093		1440
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	1024845
Cheltuieli financiare, total	100	1580853	1210147
din care:	101		
cheltuieli privind dobânzile			
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	1580853	1210147
Rezultatul: profit (pierdere) financiar(ă) (rd.090 - rd.100)	110	171909	-183862
Venituri cu active imobilizate și excepționale	120		
Cheltuieli cu active imobilizate și excepționale	130		174839
Rezultatul din operațiuni cu active imobilizate și excepționale: profit (pierdere) (rd.120 - rd.130)	140		-174839
Rezultatul din alte activități: profit (pierdere) (rd.110 + rd.140)	150	171909	-358701
Profit (pierdere) pînă la impozitare (rd.080 + rd.150)	160	11887213	12647265
Cheltuieli privind impozitul pe venit	170	1431875	1521536
Profit net (pierdere netă) al perioadei de gestiune (rd.160 - rd.170)	180	10455338	11125729

SITUAȚIA MODIFICĂRILOR CAPITALULUI PROPRIU

de la pînă la

Anexa 3

Nr. d/o	Indicatori	Cod rd	Sold la începutul perioadei de gestiune	Majorări	Diminuări	Sold la sfîrșitul 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 pînă 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		
Dobînzi 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		
Dobînzi 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 sfîrșitul perioadei de gestiune (± rd.210 ± rd.220 + rd.230)	240		

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Recipisa

Respondent

Codul fiscal: 1007600044280, denumire: S.C. OXIVIT-MED S.R.L.

A prezentat raportul: RSF1_21

Pentru perioada fiscală: A/2021

Data prezentării: 30.05.2022

Marca temporală a raportului înregistrat în Sistemul de Raportare Electronică și expediat pentru procesare în Sistemul Informațional al BNS : 30.05.2022 16:42:42

[Versiune de imprimare](#)[Salvare](#)

Recipisa 2

Respondent

Codul fiscal: 1007600044280, denumire: S.C. OXIVIT-MED S.R.L.

A prezentat raportul: RSF1_21

Pentru perioada fiscala: A/2021

Data prezentarii: 30.05.2022

Marca temporală a raportului înregistrat în Sistemul Informațional al BNS : 30.05.2022 22:47:31

Biroul Național de Statistică (BNS) a recepționat varianta electronică a raportului, expediat de DVs. Urmează verificarea și validarea raportului de către specialistul BNS pe domeniu.

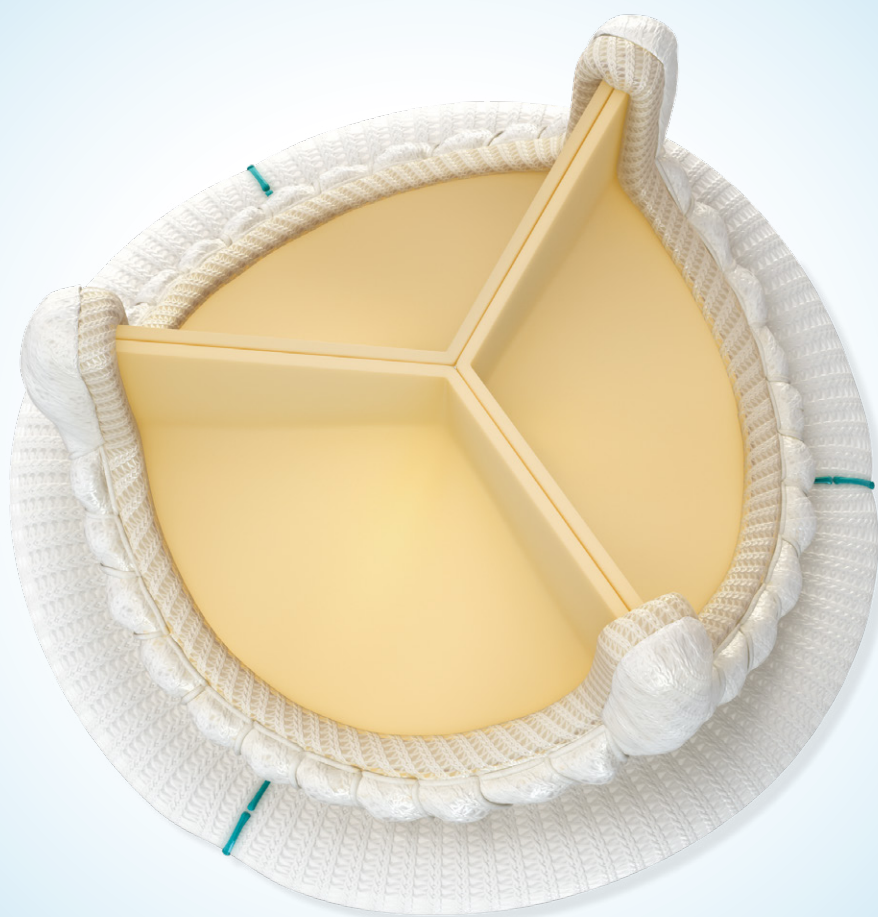
Avalus™
Bioprosthesis



PROVEN
PLUS.

With more than 40 years of heart valve innovations, we took proven valve design concepts and adapted them for excellent implantability for you and performance for your patients.

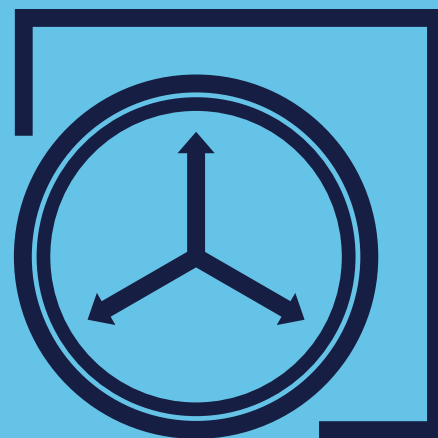
Medtronic
Further. Together



PRESENTING
THE AVALUS™
AORTIC VALVE
BY MEDTRONIC.

YOU WANT THE VERY BEST FOR YOUR PATIENTS. SO DO WE.

We designed the next generation bovine pericardial valve for better overall performance, improved implant experience, and a contemporary design to facilitate future transcatheter aortic valve in surgical aortic valve (TAV-in-SAV).

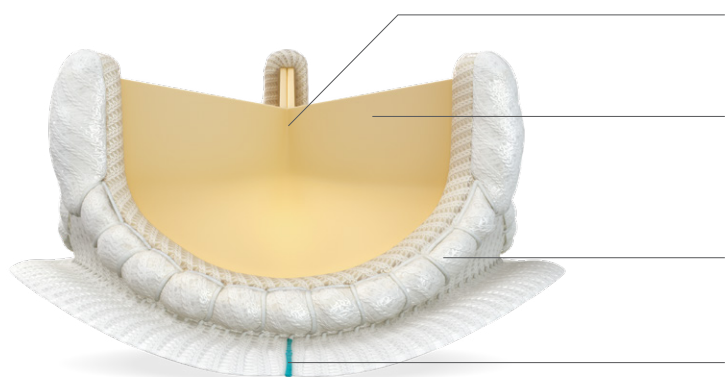


Interior-mounted leaflets minimize damaging contact with the frame — a design platform for long-term durability.



AOA™ tissue treatment* to mitigate calcification — over 25 years of clinical use on the Medtronic surgical tissue valve portfolio.^{1,2}

PROVEN



- Supra-annular design to enhance hemodynamics³
- Three laser-cut bovine pericardial leaflets matched for thickness and deflection to provide consistent performance
- Two-part polymer frame minimizes stress zones on leaflets
- Sewing markers facilitate suture placement and valve orientation

*No clinical data is available which evaluates the long-term impact of AOA treatment in patients.

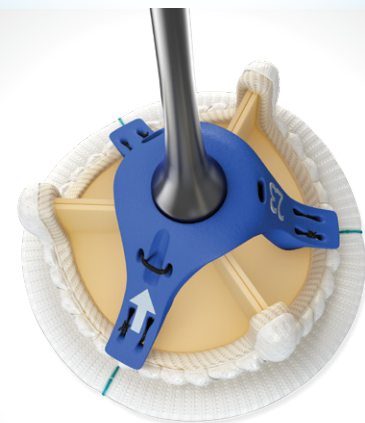
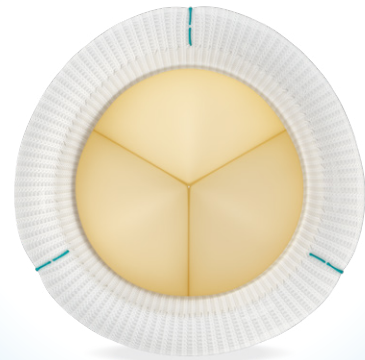
PLUS

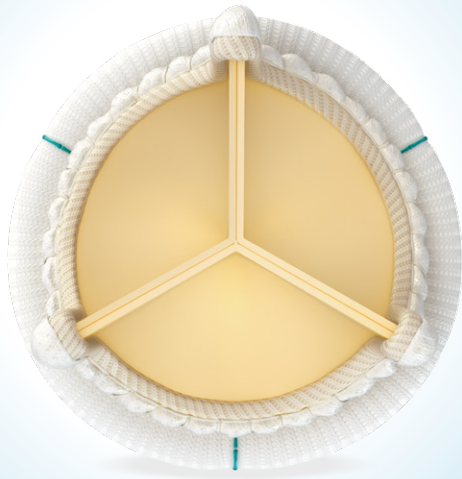


Polyetheretherketone (PEEK) polymer stent provides strength and flexibility, and offers resistance to permanent deformation.

Ease of Implant for You

- Soft and pliable sewing cuff facilitates needle penetration, suture placement, and valve seating for an improved implant experience
- Lower valve profile and narrow commissure posts expand ostia clearance and give you more space for knot-tying
- Streamlined valve holder improves visibility in both standard and minimally invasive approaches
- Simple one-cut release



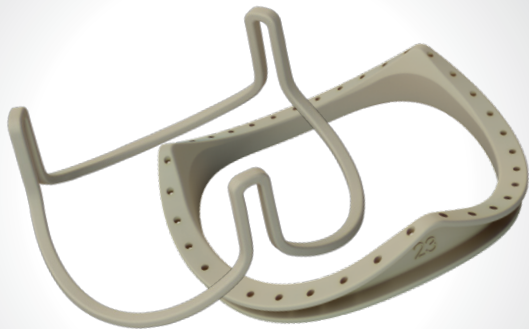


Designed to achieve 100% coaptation and minimize central regurgitation.



Flexible support frame with firm base designed to maintain circularity and consistent hemodynamic performance.

Performance and Lifetime Management for Your Patients

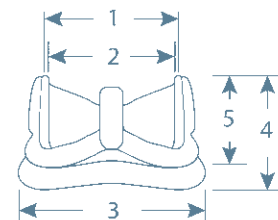


- Valve dimensions and geometry enable future TAV-in-SAV replacements
- PEEK base frame impregnated with barium sulfate provides for radiopacity and visibility
- Polymer frame mitigates the risk of potential metal-on-metal corrosion with transcatheter stent materials
- MRI Safe in all MR environments without conditions



Ordering and Specifications

Avalus Valve Order Number	Valve Size	Stent Diameter (TAD)	Internal Orifice Diameter*		External Sewing Ring Diameter	Valve Profile Height	Aortic Protrusion
		(1)	(2)	(2a)			
40019	19 mm	19 mm	17.5 mm	18 mm	27.0 mm	13.0 mm	11.0 mm
40021	21 mm	21 mm	19.5 mm	20 mm	29.0 mm	14.0 mm	12.0 mm
40023	23 mm	23 mm	21.5 mm	22 mm	31.0 mm	15.0 mm	13.0 mm
40025	25 mm	25 mm	23.5 mm	24 mm	33.0 mm	16.0 mm	14.0 mm
40027	27 mm	27 mm	25.5 mm	26 mm	36.0 mm	17.0 mm	15.0 mm



TAD – Tissue Annulus Diameter

*Measurement shows stent frame including tissue (2) and stent frame excluding tissue (2a).

Accessories

Order Number	Description
7420	Valve Handle
7400S	Avalus Sizers
T7400	Tray, Accessory, Avalus

References

¹ Medtronic Freestyle® Aortic Root Bioprosthesis was first implanted clinically in August 1992. Freestyle Aortic Root Bioprosthesis 15-Year Clinical Compendium. ©2016 Medtronic.

² Jamieson WR, Riess FC, Raudkivi PJ, et al. Medtronic Mosaic porcine bioprosthesis: assessment of 12-year performance. *J Thorac Cardiovasc Surg.* August 2011;142(2):302-307.

³ Ruzicka DJ, Hettich I, Hutter A, et al. The complete supraannular concept. *Circulation.* 2009;120[suppl 1]:S139-S145.

Brief Statement

Avalus™ Bioprosthesis

Indications: The Avalus bioprosthesis is indicated for the replacement of diseased, damaged, or malfunctioning native or prosthetic aortic valves. **Contraindications:** None known. **Warnings/Precautions/Adverse Events:** Only physicians who have received proper training in valve replacement should use this device. Accelerated structural deterioration due to calcific degeneration of bioprosthesis may occur in: children, adolescents, young adults, and patients with altered calcium metabolism (e.g., chronic renal failure, or hyperparathyroidism). Adverse events can include: angina, cardiac dysrhythmias, endocarditis, heart failure, hemolysis, hemolytic anemia, hemorrhage, infection other than endocarditis, transvalvular or paravalvular leak, myocardial infarction, nonstructural valve dysfunction (leaflet entrapment/impingement, obstructive pannus ingrowth, suture dehiscence, inappropriate sizing or positioning, or other), pericardial effusion or tamponade, prosthesis regurgitation, prosthesis stenosis, prosthesis thrombosis, stroke, structural valve deterioration (calcification, leaflet tear or perforation, or other), thromboembolism, tissue dehiscence, and transient ischemic attack. These complications could lead to reoperation, explant of the bioprosthesis, permanent disability, or death. **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 medtronic.com/manuals. Note: Manuals can be viewed using a current version of any major internet browser.

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MRI™ SureScan® pacemaker system



G20SR

Specifications

Model G20A2

Single chamber MRI™ SureScan®
pacemaker system

vitatron • The Pace Makers

G20SR Specifications

Model G20A2

Single chamber pacemaker system

Mechanical

Model	G20A2
Size (HxWxD mm)	40.2x42.9x7.5
M (g)	21.5
V (cc)	9.7
Connector	IS-1 BI or UNI
Radiopaque ID	V5

Battery

Type	Lithium-iodine
Voltage	2.8 V
Average projected capacity	.91 Ah

Longevity	10.4 years*
	9.6 years†

Bradycardia Pacing

Programmable parameters

Pacing Modes	VVIR , VVI, VVT, VOOR, VOO, AAIR, AAI, AAT, AOOR, AOO, OVO, OAO
Lower Rate	30, 35, 40... 60 ...170 min ⁻¹ (exc. 65, 85)
Upper Sensor Rate	80, 90, 95... 130 ...180 min ⁻¹
A and RV Pulse Amplitude ^a	0.5, 0.75, 1.0... 3.5 ...4, 4.5, 5, 5.5, 6, 7.5 V
A and RV Pulse Width	0.12, 0.15, 0.21, 0.27, 0.34, 0.4 , 0.46, 0.52, 0.64, 0.76, 1, 1.25, 1.5 ms
Atrial Sensitivity	0.25, 0.35, 0.5 , 0.7, 1, 1.4, 2, 2.8, 4 mV
Ventricular Sensitivity	1, 1.4, 2, 2.8 , 4, 5.6, 8, 11.2 mV
Pacing Polarity (A and V)	Bipolar, Unipolar, Configure
Sensing Polarity (A and V)	Bipolar, Unipolar, Configure
Atrial Refractory Period	180, 190, 200... 250 ...500 ms
Atrial Blanking Period	130, 140, 150... 180 ...350 ms
Ventricular Refractory Period	150, 160, 170... 330 ...500 ms

Therapies to promote intrinsic activation

Sleep	On, Off
Sleep Rate	30, 35, 40... 50 ...90 min ⁻¹ (exc. 65, 85)
Bed Time	00:00, 00:15, 00:30... 22:00 ...23:45
Wake Time	00:00, 00:15, 00:30... 8:00 ...23:45
Single Chamber Hysteresis	Off , 40, 50, 60 min ⁻¹

Rate Response Pacing

ADL Rate	60, 65, 70... 95 ...175, 180 min ⁻¹
Rate Profile Optimization	On , Off
ADL Response	1, 2, 3 , 4, 5
Exertion Response	1, 2, 3 , 4, 5
Activity Threshold	Low, Medium Low , Medium High, High
Acceleration	15 s, 30 s , 60 s
Deceleration	2.5 min, 5 min, 10 min, Exercise

MRI Pacing Parameters

SureScan® Pacing Mode	A00, V00, OAO, OVO
SureScan Lower Rate Interval	60, 70, 75, 80 ... 115, 120 ^b min ⁻¹
SureScan Atrial Amplitude	5.0, 5.5, 6.0, 7.5 V
SureScan Atrial Pulse Width	1.0, 1.25, 1.5 ms
SureScan Atrial Sensitivity	0.18, 0.25, 0.35, 0.5, 0.7, 1.0, 1.4, 2.0, 2.8, 4.0 mV
SureScan Ventricular Amplitude	5.0, 5.5, 6.0, 7.5 V
SureScan Ventricular Sensitivity	1.0, 1.4, 2.0, 2.8, 4.0, 5.6, 8.0, 11.2 mV
SureScan Ventricular Pulse Width	1.0, 1.25, 1.5 ms
SureScan Timeout	24 hr
SureScanMRI Compatibility	1.5 and 3 Tesla, full body scan

Atrial Tachyarrhythmia Therapies and Interventions

Conducted AF Response^b

Regularize V-V during AT/AF	On, Off
Maximum Rate (min ⁻¹)	80, 85, 90... 110 ...130

Automatic Pacing, Sensing, and Lead Monitor

Implant Detection and Initialization

At the completion of the 30-minute Implant Detection period, Rate Profile Optimization is enabled; the appropriate pacing and sensing polarities are automatically selected by the device; Ventricular Output Management is enabled and Amplitude and Pulse Width become adaptive. Sensing Assurance™ is enabled and Sensitivity becomes adaptive.

Implant Detection	On/Restart, Off/Complete
Lead Monitor (A and V)	Configure, Monitor Only, Adaptive (Auto Polarity Switch), Off
Notify If <	200 Ω
Notify If >	1000, 2000, 3000, 4000 Ω
Monitor Sensitivity	2, 3, 4 ... 8 ... 16

Ventricular Output Management

Ventricular Output Management	Off, Monitor Only, Adaptive
Amplitude Margin	1.5x, 2x , 2.5x, 3x, 4x (times)
Minimum Adapted Amplitude	0.5, 0.75... 2 ...3.5 V
Capture Test Frequency	15, 30 min; 1, 2, 4, 8, 12 hours; Day at rest ; Day at...; 7 days at
Capture Test Time	00:00, 1:00...23:00
Acute Phase Days Remaining	Off, 7, 14, 21...84, 112 , 140, 168... 252 days
V. Sensing During Search	Unipolar, Bipolar, Adaptive

Sensing Assurance

Sensing Assurance (A and V) **On**, Off

Diagnostics

Cardiac Dashboard II

Highlights significant events, AT/AF and pacing summary, threshold and impedance trends

Ventricular pacing threshold trends
Battery longevity
Pacing summary and access to rate histogram
Atrial and ventricular lead impedance trends
Number of hours/day in atrial arrhythmia, percentage of time
Access to AT/AF diagnostics
Observations
P-wave/R-wave amplitudes and access to A and V sensitivity trends

CardioTrend™

Trend data compiles up to 6 months of daily clinical information in an easy-to-interpret graphic format

Histogram reports

Heart rate histograms
Sensor indicated rate profile

Atrial and ventricular episodes

High rate episodes
Atrial arrhythmia durations
Multiple EGM episodes

Clinician selected diagnostics

Custom rate trend
Ventricular output management detail
High rate detail

Patient Data Management

Patient data stored in device

Patient identification
Leads implanted
Device implanted
Clinician's stored notes

Data management

Automatic printing of initial interrogation report
Full page printing
Save-to-Disk capacity for electronic file management

Follow-up and Troubleshooting

Telemetry features

Transtelephonic monitor	On, Off
Extended telemetry	On, Off
Extended marker	Standard, Therapy Trace

Key parameter history

Initial interrogation report
Strength duration threshold test
Ventricular threshold test
Marker Channel™
Threshold margin test
Exercise test
EP studies
Magnet test
Underlying rhythm test
Sensing test
Temporary test

Magnet mode operation

	BOS	ERI
Single chamber atrial mode	A00 85 min ⁻¹	65
Single chamber ventricular mode	V00 85 min ⁻¹	65

Recommended Replacement Time (RRT) and

Elective Replacement Indicator (ERI)

Replacement message on programmer (Cardiac Dashboard II)
Battery/lead information Replacement message and battery voltage displayed on programmer
RRT and ERI initiation date Displayed on programmer

References

*SSIR or SSI 50%, 2 V, 60 min⁻¹, 0.4 ms, 500 OHM.

† SSIR or SSI 100%, 2 V, 60 min⁻¹, 0.4 ms, 500 OHM.

^a Tolerance for amplitudes from 0.5 V through 6.0 V is ± 10%, and for 7.5 V is -20/+0%. Tolerances are based on 37 °C and a 500Ω load. Amplitude is determined 200 μs after the leading edge of the pace.

^b User selection will not include 65 min⁻¹ or 85 min⁻¹.

^c Conducted AF Response is functional during VVIR modes.

Nominal values indicated in **bold**



Vitatron. The Pace Makers

Vitatron - based in Europe - is the only medical device company that specializes exclusively in pacemakers. Since 1962, Vitatron pacemakers have helped restore more than 1,000,000 people in more than 60 countries to a full life. We strive to achieve perfection in everything we do. This results in unique patient-focused therapies, as well as highly cost-effective pacemakers that are easy to use.

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G20SR • Single chamber

vitatron • The Pace Makers



MRI™ SureScan® pacemaker system



G70DR

Specifications

Model G70A2
Dual chamber MRI™ SureScan®
pacemaker system

vitatron • The Pace Makers

G70DR Specifications

Model G70A2

Dual chamber pacemaker system

Mechanical

Model	G70A2
Size (HxWxD mm)	44.7x47.9x7.5
M (g)	27.1
V (cc)	12.1
Connector	IS-1 BI or UNI
Radiopaque ID	V5

Battery

Type	Lithium-iodine
Voltage	2.8 V
Average projected capacity	1.3 Ah

Longevity	11.4 years*
	10.2 years†

Bradycardia Pacing

Programmable parameters

Pacing Modes	DDDR , DDD, DDIR, DDI, DVIR, DVI, DOOR, DOO, VDD, VVIR, VDIR, VVI, VDI, VVT, VOOR, VOO, AAIR, ADIR, AAI, ADI, AAT, AOO, AOO, ODO, OVO, OAO
Mode Switch	On , Off
Lower Rate	30, 35, 40... 60 ...170 min ⁻¹ (exc. 65, 85)
Upper Tracking Rate ^a	80, 90, 95... 130 ...180 min ⁻¹
Upper Sensor Rate	80, 90, 95... 130 ...180 min ⁻¹
A and RV Pulse Amplitude ^b	0.5, 0.75, 1.0... 3.5 ...4, 4.5, 5, 5.5, 6, 7.5 V
A and RV Pulse Width	0.12, 0.15, 0.21, 0.27, 0.34, 0.4 , 0.46, 0.52, 0.64, 0.76, 1, 1.25, 1.5 ms
Atrial Sensitivity	0.18, 0.25, 0.35, 0.5 , 0.7, 1, 1.4, 2, 2.8, 4 mV
Ventricular Sensitivity	1, 1.4, 2, 2.8 , 4, 5.6, 8, 11.2 mV
Pacing Polarity (A and V)	Bipolar, Unipolar, Configure
Sensing Polarity (A and V)	Bipolar, Unipolar, Configure
Paced AV (PAV)	30, 40, 50... 150 ...350 ms
Sensed AV (SAV)	30, 40, 50... 120 ...350 ms
PVARP	Auto , Varied, 150, 160, 170...500 ms
Minimum PVARP	150, 160, 170... 250 ...500 ms
PVAB	130, 140, 150... 180 ...350 ms
Atrial Refractory Period	180, 190, 200... 400 ...500 ms
Atrial Blanking Period	130, 140, 150... 180 ...350 ms
Ventricular Refractory Period	150, 160, 170... 230 ...500 ms
Ventricular Blanking (after atrial pace) (PAVB)	20, 28 , 36, 44 ms

Therapies to promote intrinsic activation

Reduced VPTM+	On , Off
Max Increase to AV	10, 20, 30... 170 ...250 ms
Sinus Preference™	On , Off
Sinus Preference Zone	3, 5, 10 , 15, 20 min ⁻¹
Search Interval	5, 10, 20, 30 min
Sleep	On , Off
Sleep Rate	30, 35, 40... 50 ...90 min ⁻¹ (exc. 65, 85)
Bed Time	00:00, 00:15, 00:30... 22:00 ...23:45
Wake Time	00:00, 00:15, 00:30... 8:00 ...23:45
Single Chamber Hysteresis	Off, 40, 50, 60 min ⁻¹

Rate Response Pacing

ADL Rate	60, 65, 70... 95 ...175, 180 min ⁻¹
Rate Profile Optimization	On , Off
ADL Response	1, 2, 3 , 4, 5
Exertion Response	1, 2, 3 , 4, 5
Activity Threshold	Low, Medium Low , Medium High, High
Acceleration	15 s, 30 s , 60 s
Deceleration	2.5 min, 5 min, 10 min, Exercise
RAAV	On , Off
Start Rate	50, 55, 60... 80 ...175 min ⁻¹
Stop Rate	55, 60, 65... 120 ... 180 min ⁻¹
Maximum Offset	-10, -20, -30... -40 ...-300 ms

Rate Drop Response

Detection Type	Low Rate, Drop, Both, Off
Intervention Rate	60, 70, 75, 80... 100 ...180 min ⁻¹ (exc. 65, 85)
Intervention Duration	1, 2 , 3...15 min
Detection Beats	1, 2 , 3 beats
Drop Rate	30, 40, 50 ...100 min ⁻¹
Drop Size	10, 15, 20, 25 ...50 min ⁻¹
Detection Window	10, 15, 20, 25 , 30 s; 1, 1.5, 2, 2.5 min

Additional pacing features

PMT Intervention	On , Off
PVC Response	On , Off
Ventricular Safety Pacing	On , Off

MRI Pacing Parameters

SureScan® Pacing Mode	A00, V00, D00, ODO
SureScan Lower Rate	
Interval	60, 70, 75, 80 ... 115, 120 ^c min ⁻¹
SureScan PAV	50, 60 ... 110 ms
SureScan Atrial	
Amplitude	5.0, 5.5, 6.0, 7.5 V
SureScan Atrial	
Pulse Width	1.0, 1.25, 1.5 ms
SureScan Atrial	
Sensitivity	0.18, 0.25, 0.35, 0.5, 0.7, 1.0, 1.4, 2.0, 2.8, 4.0 mV
SureScan Ventricular	
Amplitude	5.0, 5.5, 6.0, 7.5 V
SureScan Ventricular	
Sensitivity	1.0, 1.4, 2.0, 2.8, 4.0, 5.6, 8.0, 11.2 mV
SureScan Ventricular	
Pulse Width	1.0, 1.25, 1.5 ms
SureScan Timeout Duration	24 hr
SureScan MRI Compatibility	1.5 and 3 Tesla, full body scan

Atrial Tachyarrhythmia Therapies and Interventions

Mode Switch	On , Off
Detected Rate	120, 125... 175 ...200 min ⁻¹
Detect Duration	No Delay , 10, 20...60 sec
Blanked Flutter Search	On , Off

Atrial Preference Pacing (APP) parameters

APP	On , Off
Maximum Rate (min ⁻¹)	80, 90, 95, 100 ...150
Interval Decrement (ms)	30 , 40, 50...100, 150
Search Beats	5, 10... 20 , 25, 50

Post Mode Switch Overdrive Pacing (PMOP) parameters

PMOP	On , Off
Overdrive Rate (min ⁻¹)	70, 75, 80 , 90, 95...120
Overdrive Duration (min)	0.5, 1, 2, 3, 5, 10 , 20, 30, 60, 90, 120

Nominal values indicated in **bold**

Conducted AF Response^d

Regularize V-V during AT/AF On, **Off**
Maximum Rate (min⁻¹) 80, 85, 90...**110**...130

Non-Competitive Atrial Pacing On, Off

Automatic Pacing, Sensing, and Lead Monitor

Implant Detection and Initialization

At the completion of the 30-minute Implant Detection period, Rate Profile Optimization is enabled; the appropriate pacing and sensing polarities are automatically selected by the device; Atrial and Ventricular Output Management is enabled and Amplitude and Pulse Width become adaptive. Sensing Assurance™ is enabled and Sensitivity becomes adaptive. Reduced VP™+ is enabled 60 minutes after Implant Detection is complete.

Implant Detection On/Restart, Off/Complete
Lead Monitor (A and V) Configure, Monitor Only, Adaptive (Auto Polarity Switch), Off

Notify If < **200 Ω**
Notify If > 1000, 2000, 3000, **4000 Ω**
Monitor Sensitivity 2, 3, 4 ... **8** ... 16

Atrial Output Management

Atrial Output Management Off, Monitor Only, **Adaptive**
Amplitude Margin 1.5x, **2x**, 2.5x, 3x, 4x (times)
Minimum Adapted Amplitude 0.5, 0.75...**1.5**...3.5 V
Capture Test Frequency 1, 2, 4, 8, 12 hours; Day at rest;
Day at...; 7 days at
Capture Test Time 00:00, **1:00**...23:00
Acute Phase Days Remaining Off, 7, 14, 21...84, **112**, 140, 168...
252 days

Ventricular Output Management

Ventricular Output Management Off, Monitor Only, **Adaptive**
Amplitude Margin 1.5x, **2x**, 2.5x, 3x, 4x (times)
Minimum Adapted Amplitude 0.5, 0.75...**2.0**...3.5 V
Capture Test Frequency 15, 30 min; 1, 2, 4, 8, 12 hours;
Day at rest; Day at...; 7 days at
Capture Test Time 00:00, 1:00...23:00
Acute Phase Days Remaining Off, 7, 14, 21...84, **112**, 140, 168...
252 days
V. Sensing During Search Unipolar, Bipolar, **Adaptive**

Sensing Assurance

Sensing Assurance (A and V) **On**, Off

Diagnostics

Cardiac Dashboard II

Highlights significant events, AT/AF and pacing summary, threshold and impedance trends

Atrial and ventricular pacing threshold trends
Battery longevity
Pacing summary and access to rate histogram
Atrial and ventricular lead impedance trends
Number of hours/day in atrial arrhythmia, percentage of time
Access to atrial arrhythmia diagnostics
Observations
P-wave/R-wave amplitudes and access to A and V sensitivity trends

CardioTrend™

Trend data compiles up to 6 months of daily clinical information in an easy-to-interpret graphic format

Histogram reports

Heart rate histograms
AV conduction histograms
Reduced VP™+ histogram
Sensor indicated rate profile

Atrial and ventricular episodes

Atrial and ventricular high rate episodes
Ventricular rate during atrial arrhythmias
Atrial arrhythmia durations
Multiple EGM episodes
Rate drop response episodes

Clinician selected diagnostics

Custom rate trend
Rate drop response detail
Atrial output management detail
Ventricular Output Management detail
High Rate Detail

Patient data stored in device

Patient identification
Leads implanted
Device implanted
Clinician's stored notes

Data management

Automatic printing of initial interrogation report
Full page printing
Save-to-Disk capacity for electronic file management

Follow-up and Troubleshooting

Telemetry features

Transtelephonic monitor	On, Off
Extended telemetry	On, Off
Extended marker	Standard, Therapy Trace

Key parameter history

Initial interrogation report
Strength duration threshold test
Ventricular threshold test
Marker Channel™
Threshold margin test
Exercise test
EP studies
Magnet test
Underlying rhythm test
Sensing test
Temporary test

Magnet mode operation

	BOS	ERI
Dual chamber mode	D00 85 min ⁻¹	65
Single chamber atrial mode	A00 85 min ⁻¹	65
Single chamber ventricular mode	V00 85 min ⁻¹	65

Recommended Replacement Time (RRT) and

Elective Replacement Indicator (ERI)

Replacement message on programmer (Cardiac Dashboard II)
Battery/lead information Replacement message and battery voltage displayed on programmer
RRT and ERI initiation date Displayed on programmer



Vitatron. The Pace Makers

Vitatron - based in Europe - is the only medical device company that specializes exclusively in pacemakers. Since 1962, Vitatron pacemakers have helped restore more than 1,000,000 people in more than 60 countries to a full life. We strive to achieve perfection in everything we do. This results in unique patient-focused therapies, as well as highly cost-effective pacemakers that are easy to use.

Head Office: Vitatron Holding BV

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Maastricht
NL 6229 GW
The Netherlands
www.vitatron.com

UC201708586 EE
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References

*DDDR or DDD 50%, 1.5 V and 2.0 V, 60 min⁻¹, 0.4 ms, 500 OHM. For Atrial Output Management the Minimum Adapted Amplitude is 1.5 V (nominal). For Ventricular Output Management, the Minimum Adapted Amplitude is 2.0 V (nominal).
†DDDR or DDD 100%, 1.5 V and 2.0 V, 60 min⁻¹, 0.4 ms, 500 OHM. For Atrial Output Management the Minimum Adapted Amplitude is 1.5 V (nominal). For Ventricular Output Management, the Minimum Adapted Amplitude is 2.0 V (nominal).

^a The atrial and ventricular Rate Limit is 200 min⁻¹ (± 20 min⁻¹).

^b Tolerance for amplitudes from 0.5 V through 6.0 V is ± 10%, and for 7.5 V is -20/+0%. Tolerances are based on 37 °C and a 500 Ω load. Amplitude is determined 200 µs after the leading edge of the pace.

^c User selection will not include 65 min⁻¹ or 85 min⁻¹.

^d Conducted AF Response is functional during Mode Switch episodes, DDIR, VVIR and VDIR modes.



G70DR • Dual chamber

vitatron • The Pace Makers

TRUE DILATATION™

Balloon Valvuloplasty Catheter

Bard Peripheral Vascular

2014 PRODUCT LIST

CONQUEST® 40

PTA Dilatation Catheter

ATLAS® GOLD
PTA Dilatation Catheter

SIDEKICK®

Support Catheter

BARD®

Snare Retrieval Kit

DENALI®

Vena Cava Filter

USHER®

Support Catheter

VIDA™

PTV Dilatation Catheter

POWERPORT® CLEARVUE®

Implantable Port

BARD

**PERIPHERAL
VASCULAR**

CARDIOVASCULAR PATCHES, FABRICS, FELTS AND PLEDGETS

Felts - PTFE and Polyester

PRODUCT CODE	DIMENSIONS		UNITS/CASE
	DIAMETER	LENGTH	
PTFE Felts (Nominal Thickness 1.65 mm)			
007975	1/2" x 4"	1.2 cm x 10 cm	10
007973	1" x 1"	2.5 cm x 2.5 cm	10
007968	1" x 4"	2.5 cm x 10.2 cm	10
007976	1" x 6"	2.5 cm x 15 cm	10
007974	1/4" x 2"	6 mm x 5.1 cm	10
007977	2" x 2"	5 cm x 5 cm	10
007836	4" x 4"	10 cm x 10 cm	5
007837	6" x 6"	15 cm x 15 cm	5
PTFE Felts (Thick) (Nominal Thickness 2.87 mm)			
007018	3/8" x 6"	1 cm x 15.2 cm	20
007019	1" x 1"	2.5 cm x 2.5 cm	5
007958	4" x 4"	10 cm x 10 cm	5
007959	6" x 6"	15 cm x 15 cm	5
Low Porosity PTFE Felts (Nominal Thickness 1.85 mm)			
007021	1" x 1"	2.5 cm x 2.5 cm	5
007838	4" x 4"	10 cm x 10 cm	5
007839	6" x 6"	15 cm x 15 cm	5
Polyester Felts (Nominal Thickness 1.65 mm)			
008972	6" x 6"	15 cm x 15 cm	5

PTFE Felts



Polyester Felts



Pledgets - PTFE

DIMENSIONS			
PRODUCT CODE	DIAMETER	LENGTH	UNITS/CASE
BARD® PTFE Felt Pledgets (Nominal Thickness 1.65 mm)			
007970	3/16" X 1/4"	4.8 mm x 6 mm	250
007963	3/16" X 3/8"	4.8 mm x 9.5 mm	250
007965	1/4" X 1/4"	6 mm x 6 mm	250
007972	5/16" X 5/16"	8 mm x 8 mm	250
007984	3/16"	4.8 mm	250
007969	3/16" X 1/4"	4.8 mm x 6 mm	250
BARD® PTFE Thick Felt Pledgets (Nominal Thickness 2.87 mm)			
007971	1/4"	6 mm	250

Rectangle ☐
 Rectangle ☐
 Square ☐
 Square ☐
 Round ☐
 Oval ☐

Round ☐

PTFE Pledgets are packed 10 per sterile pouch, 25 pouches per box.

CARDIAC RHYTHM MANAGEMENT AND CARDIOVASCULAR DIAGNOSTICS & SERVICES

PRODUCT CATALOGUE 2021



TABLE OF CONTENT



PACEMAKERS (IPG)

Single Chamber, Dual Chamber, Leadless



CRT PACEMAKERS (CRT-P)



DEFIBRILLATORS (ICD)

Single Chamber, Dual Chamber



CRT DEFIBRILLATORS (CRT-D)



PACING LEADS AND DELIVERY SYSTEMS



DEFIBRILLATION LEADS AND DELIVERY SYSTEMS



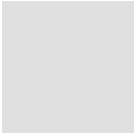
LEFT-HEART LEADS AND DELIVERY SYSTEMS



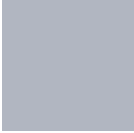
ACCESSORIES



INSERTABLE CARDIAC MONITORS



PATIENT MANAGEMENT SOLUTIONS



PROCEDURE INNOVATIONS

Antibacterial Envelope, External Pacemakers

PACEMAKERS (IPG)

Single Chamber (SR)



AZURE™ XT SR MRI

SURESCAN™

PACEMAKERS (IPG)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Automatically monitors for implant detection and continuously adapts key device parameters to ensure the therapies are optimized.

- Bluetooth® Wireless Telemetry (BlueSync™ Technology)
- Implant Detection
- Capture Management (RV)
- Auto-adjusting sensitivity (RV)
- Lead Monitor (RV) with Auto Polarity Switch
- CareAlert Monitoring
- Carelink connectivity with CareAlerts

AT/AF MANAGEMENT

Pacing therapies to help manage atrial tachyarrhythmias and alleviate symptoms.

- Conducted AF Response (CAFR)

HEART FAILURE (HF) MANAGEMENT

Algorithm to help manage heart failure.

- OptiVol 2.0

ADDITIONAL PACING FEATURES

- Rate Hysteresis
- Sleep Function
- Ventricular Rate Stabilization (VRS)
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Histograms Reports
- Ventricular Episodes including EGMs

Model	W2SR01
M (g)	22.5
V (cc)	12.25
Size (mm) (HxWxD)	42.6 x 50.8 x 7.4
Connector	IS-1 BI/UNI

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



AZURE™ S SR MRI

SURESCAN™

PACEMAKERS (IPG)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Automatically monitors for implant detection and continuously adapts key device parameters to ensure the therapies are optimized.

- Bluetooth® Wireless Telemetry (BlueSync™ Technology)
- Implant Detection
- Capture Management (RV)
- Auto-adjusting sensitivity (RV)
- Lead Monitor (RV) with Auto Polarity Switch
- CareAlert Monitoring
- Carelink connectivity with CareAlerts

ADDITIONAL PACING FEATURES

- Rate Hysteresis
- Sleep Function
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Ventricular Episodes including EGMs

Model	W3SR01
M (g)	22.5
V (cc)	12.25
Size (mm) (HxWxD)	42.6 x 50.8 x 7.4
Connector	IS-1 BI/UNI

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



ASTRA™ XT SR MRI

SURESCAN™

PACEMAKERS (IPG)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Automatically monitors for implant detection and continuously adapts key device parameters to ensure the therapies are optimized.

- Implant Detection
- Capture Management (RV)
- Auto-adjusting sensitivity (RV)
- Lead Monitor (RV) with Auto Polarity Switch
- CareLink connectivity

AT/AF MANAGEMENT

Pacing therapies to help manage atrial tachyarrhythmias and alleviate symptoms.

- Conducted AF Response (CAFR)

HEART FAILURE (HF) MANAGEMENT

Algorithm to help manage heart failure

- OptiVol 2.0

ADDITIONAL PACING FEATURES

- Rate Hysteresis
- Sleep Function
- Ventricular Rate Stabilization (VRS)
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Histograms Reports
- Ventricular Episodes including EGMs

Model	X2SR01
M (g)	22.5
V (cc)	12.2
Size (mm) (HxWxD)	42.6 x 50.8 x 7.4
Connector	IS-1 BI/UNI

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



ATTESTA™ SR MRI SURESCAN™

PACEMAKERS (IPG)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Automatically monitors for implant detection and continuously adapts key device parameters to ensure the therapies are optimized.

- Implant Detection
- TherapyGuide
- Capture Management (RV)
- Sensing Assurance (RA and RV)
- Lead Monitor (RA and RV) with Auto Polarity Switch
- CareLink connectivity

AT/AF MANAGEMENT

Pacing therapies to help manage atrial tachyarrhythmias and alleviate symptoms.

- Conducted AF Response (CAFR)

ADDITIONAL PACING FEATURES

- Rate Hysteresis
- Sleep Function
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Histogram Reports
- Atrial and Ventricular Episodes including EGMs
- Additional Clinician Selected Diagnostics

Model	ATSR01
M (g)	21.5
V (cc)	9.7
Size (mm) (HxWxD)	40.2 x 42.9 x 7.5
Connector	IS-1 BI/UNI

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



SPHERA™ SR MRI SURESCAN™

PACEMAKERS (IPG)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Automatically monitors for implant detection and continuously adapts key device parameters to ensure the therapies are optimized.

- Implant Detection
- TherapyGuide
- Capture Management (RV)
- Sensing Assurance (RA and RV)
- Lead Monitor (RA and RV) with Auto Polarity Switch
- CareLink connectivity

ADDITIONAL PACING FEATURES

- Rate Hysteresis
- Sleep Function
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Histogram Reports
- Atrial and Ventricular Episodes including EGMs
- Additional Clinician Selected Diagnostics

Model	SPSR01
M (g)	21.5
V (cc)	9.7
Size (mm) (HxWxD)	40.2 x 42.9 x 7.5
Connector	IS-1 BI/UNI

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



ADVISA SR MRI™

SURESCAN™

PACEMAKERS (IPG)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Automatically monitors for implant detection and continuously adapts key device parameters to ensure the therapies are optimized.

- Implant Detection
- Capture Management (RV)
- Auto-adjusting sensitivity (RV)
- Lead Monitor (RV) with Auto Polarity Switch
- CareLink connectivity

AT/AF MANAGEMENT

Pacing therapies to help manage atrial tachyarrhythmias and alleviate symptoms.

- Conducted AF Response (CAFR)

ADDITIONAL PACING FEATURES

- Rate Hysteresis
- Sleep Function
- Ventricular Rate Stabilization (VRS)
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Histograms Reports
- Ventricular Episodes including EGMs

Model	A3SR01
M (g)	21.0
V (cc)	11.9
Size (mm) (HxWxD)	51 x 42 x 8
Connector	IS-1 BI/UNI

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



ENSURA SR MRI™

SURESCAN™

PACEMAKERS (IPG)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Automatically monitors for implant detection and continuously adapts key device parameters to ensure the therapies are optimized.

- Implant Detection
- Capture Management (RV)
- Auto-adjusting sensitivity (RV)
- Lead Monitor (RV) with Auto Polarity Switch
- CareLink connectivity

ADDITIONAL PACING FEATURES

- Rate Hysteresis
- Sleep Function
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Histogram Reports
- Ventricular Episodes including EGMs

Model	EN1SR01
M (g)	21.0
V (cc)	11.9
Size (mm) (HxWxD)	51 x 42 x 8
Connector	IS-1 BI/UNI

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



ADAPTA[®] SR

PACEMAKERS (IPG)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Automatically monitors for implant detection and continuously adapts key device parameters to ensure the therapies are optimized.

- Implant Detection
- TherapyGuide
- Capture Management (RV)
- Sensing Assurance (RA and RV)
- Lead Monitor (RA and RV) with Auto Polarity Switch
- CareLink connectivity

AT/AF MANAGEMENT

Pacing therapies to help manage atrial tachyarrhythmias and alleviate symptoms.

- Conducted AF Response (CAFR)

ADDITIONAL PACING FEATURES

- Rate Hysteresis
- Sleep Function
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Histogram Reports
- Atrial and Ventricular Episodes including EGMs
- Additional Clinician Selected Diagnostics

Model	ADSR01	ADSR03	ADSR06
M (g)	21.5	22.5	22.5
V (cc)	9.7	10.5	11.0
Size (mm) (HxWxD)	40.2 x 42.9 x 7.5	42.9 x 42.9 x 7.5	43.3 x 42.9 x 7.5
Connector	IS-1 BI/UNI	IS-1 BI/UNI; 3.2 mm LP BI	5 or 6 mm UNI



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



SENSIA[®] SR

PACEMAKERS (IPG)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Automatically monitors for implant detection and continuously adapts key device parameters to ensure the therapies are optimized.

- Implant Detection
- TherapyGuide
- Capture Management (RV)
- Sensing Assurance (RA and RV)
- Lead Monitor (RA and RV) with Auto Polarity Switch
- CareLink connectivity

ADDITIONAL PACING FEATURES

- Rate Hysteresis
- Sleep Function
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Histogram Reports
- Atrial and Ventricular Episodes including EGMs
- Additional Clinician Selected Diagnostics

Model	SESR01
M (g)	21.5
V (cc)	9.7
Size (mm) (HxWxD)	40.2 x 42.9 x 7.5
Connector	IS-1 BI/UNI



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



PACEMAKERS (IPG)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Automatically monitors for implant detection and continuously adapts key device parameters to ensure the therapies are optimized.

- Implant Detection
- TherapyGuide
- Capture Management (RV)
- Sensing Assurance (RA and RV)
- Lead Monitor (RA and RV) with Auto Polarity Switch
- CareLink connectivity

ADDITIONAL PACING FEATURES

- Rate Hysteresis
- Sleep Function

DIAGNOSTICS

- Quick Look II
- Histogram Reports
- Atrial and Ventricular Episodes including EGMs
- Additional Clinician Selected Diagnostics

Model	SES01
M (g)	21.5
V (cc)	9.7
Size (mm) (HxWxD)	40.2 x 42.9 x 7.5
Connector	IS-1 BI/UNI



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



PACEMAKERS (IPG)

Dual Chamber (DR)



AZURE™ XT DR MRI SURESCAN™

PACEMAKERS (IPG)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Automatically monitors for implant detection and continuously adapts key device parameters to ensure the therapies are optimized.

- Bluetooth® Wireless Telemetry (BlueSync™ Technology)
- Implant Detection
- Capture Management (RA and RV)
- Auto-adjusting sensitivity (RA and RV)
- Lead Monitor (RA and RV) with Auto Polarity Switch
- CareAlert Monitoring
- Carelink connectivity with CareAlerts

MINIMIZING UNNECESSARY RV PACING

Promotes intrinsic conduction by reducing unnecessary RV pacing.

- Updated Managed Ventricular Pacing Mode (MVP):
AAI(R) ↔ DDD(R)

HEART FAILURE (HF) MANAGEMENT

Algorithm to help manage heart failure

- OptiVol 2.0

AT/AF MANAGEMENT

Pacing therapies to help manage atrial tachyarrhythmias and alleviate symptoms.

- Atrial ATP with Reactive ATP
- ModeSwitch
- Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)
- Atrial Rate Stabilization (ARS)

ADDITIONAL PACING FEATURES

- Rate Hysteresis
- Sleep Function
- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- High Upper tracking rate up to 210 min⁻¹ for pediatric indications
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Histograms Reports
- Heart Failure Management Report
- Atrial and Ventricular Episodes including EGMs

Model	W2DR01
M (g)	22.5
V (cc)	12.75
Size (mm) (HxWxD)	46.6 x 50.8 x 7.4
Connector	IS-1 BI/UNI

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



AZURE™ S DR MRI

SURESCAN™

PACEMAKERS (IPG)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Automatically monitors for implant detection and continuously adapts key device parameters to ensure the therapies are optimized.

- Bluetooth® Wireless Telemetry (BlueSync™ Technology)
- Implant Detection
- Capture Management (RA and RV)
- Auto-adjusting sensitivity (RA and RV)
- Lead Monitor (RA and RV) with Auto Polarity Switch
- CareAlert Monitoring
- Carelink connectivity with CareAlerts

MINIMIZING UNNECESSARY RV PACING

Promotes intrinsic conduction by reducing unnecessary RV pacing.

- Updated Managed Ventricular Pacing Mode (MVP):
AAI(R) <-> DDD(R)

AT/AF MANAGEMENT

Pacing therapies to help manage atrial tachyarrhythmias and alleviate symptoms.

- ModeSwitch
- Atrial Preference Pacing (APP)
- Non-competitive Atrial Pacing (NCAP)

ADDITIONAL PACING FEATURES

- Rate Hysteresis
- Sleep Function
- PVC Response
- Ventricular Safety Pacing (VSP)
- High Upper tracking rate up to 210 min⁻¹ for pediatric indications
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Ventricular Episodes including EGMs

Model	W3DR01
M (g)	22.5
V (cc)	12.75
Size (mm) (HxWxD)	46.6 x 50.8 x 7.4
Connector	IS-1 BI/UNI

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



ASTRA™ XT DR MRI SURESCAN™

PACEMAKERS (IPG)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Automatically monitors for implant detection and continuously adapts key device parameters to ensure the therapies are optimized.

- Implant Detection
- Capture Management (RA and RV)
- Auto-adjusting sensitivity (RA and RV)
- Lead Monitor (RA and RV) with Auto Polarity Switch
- CareLink connectivity

MINIMIZING UNNECESSARY RV PACING

Promotes intrinsic conduction by reducing unnecessary RV pacing.

- Updated Managed Ventricular Pacing Mode (MVP):
AAI(R) ↔ DDD(R)

HEART FAILURE (HF) MANAGEMENT

Algorithm to help manage heart failure

- OptiVol 2.0

AT/AF MANAGEMENT

Pacing therapies to help manage atrial tachyarrhythmias and alleviate symptoms.

- Atrial ATP with Reactive ATP
- ModeSwitch
- Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)
- Atrial Rate Stabilization (ARS)

ADDITIONAL PACING FEATURES

- Rate Hysteresis
- Sleep Function
- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- High Upper tracking rate up to 210 min^{-1} for pediatric indications
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Histograms Reports
- Atrial and Ventricular Episodes including EGMs

Model	X2DR01
M (g)	22.5
V (cc)	12.75
Size (mm) (HxWxD)	46.6 x 50.8 x 7.4
Connector	IS-1 BI/UNI

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



ATTESTA™ DR MRI SURESCAN™

PACEMAKERS (IPG)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Automatically monitors for implant detection and continuously adapts key device parameters to ensure the therapies are optimized.

- Implant Detection
- TherapyGuide
- Capture Management (RA and RV)
- Sensing Assurance (RA and RV)
- Lead Monitor (RA and RV) with Auto Polarity Switch
- CareLink connectivity

MINIMIZING UNNECESSARY RV PACING

Promotes intrinsic conduction by reducing unnecessary RV pacing.

- Managed Ventricular Pacing Mode (MVP): AAI(R) <-> DDD(R)
- Search AV+ up to 600ms

AT/AF MANAGEMENT

Pacing therapies to help manage atrial tachyarrhythmias and alleviate symptoms.

- ModeSwitch with Blanked Flutter Search
- Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)

ADDITIONAL PACING FEATURES

- Rate Hysteresis
- Sleep Function
- PVC Response
- Ventricular Safety Pacing (VSP)
- Sinus Preference
- High Upper tracking rate up to 210 min⁻¹ for pediatric indications
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Histogram Reports
- Atrial and Ventricular Episodes including EGMs
- Additional Clinician Selected Diagnostics

Model	ATDR01	ATDRS1 (Small)	ATDRL1 (Longevity)
M (g)	27.1	23.6	31.3
V (cc)	12.1	11.1	13.1
Size (mm) (HxWxD)	44.7 x 47.9 x 7.5	44.7 x 42.9 x 7.5	45.4 x 52.3 x 7.5
Connector	IS-1 BI/UNI		

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



SPHERA™ DR MRI

SURESCAN™

PACEMAKERS (IPG)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Automatically monitors for implant detection and continuously adapts key device parameters to ensure the therapies are optimized.

- Implant Detection
- TherapyGuide
- Capture Management (RA and RV)
- Sensing Assurance (RA and RV)
- Lead Monitor (RA and RV) with Auto Polarity Switch
- CareLink connectivity

MINIMIZING UNNECESSARY RV PACING

Promotes intrinsic conduction by reducing unnecessary RV pacing.

- Search AV+ up to 600 ms

AT/AF MANAGEMENT

Pacing therapies to help manage atrial tachyarrhythmias and alleviate symptoms.

- ModeSwitch with Blanked Flutter Search
- Non-competitive Atrial Pacing (NCAP)

ADDITIONAL PACING FEATURES

- Rate Hysteresis
- Sleep Function
- PVC Response
- Ventricular Safety Pacing (VSP)
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Histogram Reports
- Atrial and Ventricular Episodes including EGMs
- Additional Clinician Selected Diagnostics

Model	SPDR01	SPDRL1 (Longevity)
M (g)	27.1	31.3
V (cc)	12.1	13.1
Size (mm) (HxWxD)	44.7 x 47.9 x 7.5	45.4 x 52.3 x 7.5
Connector	IS-1 BI/UNI	

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



ADVISA DR MRI™

SURESCAN™

PACEMAKERS (IPG)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Automatically monitors for implant detection and continuously adapts key device parameters to ensure the therapies are optimized.

- Implant Detection
- Capture Management (RA and RV)
- Auto-adjusting sensitivity (RA and RV)
- Lead Monitor (RA and RV) with Auto Polarity Switch
- CareLink connectivity

MINIMIZING UNNECESSARY RV PACING

Promotes intrinsic conduction by reducing unnecessary RV pacing.

- Managed Ventricular Pacing Mode (MVP): AAI(R)<->DDD(R)

HEART FAILURE (HF) MANAGEMENT

Algorithm to help manage heart failure

- OptiVol 2.0
- Heart Failure Risk Stratification (TriageHF)*

AT/AF MANAGEMENT

Pacing therapies to help manage atrial tachyarrhythmias and alleviate symptoms.

- Atrial ATP with Reactive ATP
- ModeSwitch
- Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)
- Atrial Rate Stabilization (ARS)

ADDITIONAL PACING FEATURES

- Rate Hysteresis
- Sleep Function
- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- High Upper tracking rate up to 210 min⁻¹ for pediatric indications
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Histograms Reports
- Atrial and Ventricular Episodes including EGMs

*Subject to availability

Model	A3DR01
M (g)	22.0
V (cc)	12.7
Size (mm) (HxWxD)	45 x 51 x 8
Connector	IS-1 BI/UNI

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



ENSURA DR MRI™

SURESCAN™

PACEMAKERS (IPG)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Automatically monitors for implant detection and continuously adapts key device parameters to ensure the therapies are optimized.

- Implant Detection
- Capture Management (RA and RV)
- Auto-adjusting sensitivity (RA and RV)
- Lead Monitor (RA and RV) with Auto Polarity Switch
- CareLink connectivity

MINIMIZING UNNECESSARY RV PACING

Promotes intrinsic conduction by reducing unnecessary RV pacing.

- Managed Ventricular Pacing Mode (MVP): AAI(R)<->DDD(R)

AT/AF MANAGEMENT

Pacing therapies to help manage atrial tachyarrhythmias and alleviate symptoms.

- ModeSwitch
- Atrial Preference Pacing (APP)
- Non-competitive Atrial Pacing (NCAP)

ADDITIONAL PACING FEATURES

- Rate Hysteresis
- Sleep Function
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Histogram Reports
- Ventricular Episodes including EGMs

Model	EN1DR01
M (g)	22.0
V (cc)	12.7
Size (mm) (HxWxD)	45 x 51 x 8
Connector	IS-1 BI/UNI

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



ADAPTA™ DR

PACEMAKERS (IPG)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Automatically monitors for implant detection and continuously adapts key device parameters to ensure the therapies are optimized.

- Implant Detection
- TherapyGuide
- Capture Management (RA and RV)
- Sensing Assurance (RA and RV)
- Lead Monitor (RA and RV) with Auto Polarity Switch
- CareLink connectivity

MINIMIZING UNNECESSARY RV PACING

Promotes intrinsic conduction by reducing unnecessary RV pacing.

- Managed Ventricular Pacing Mode (MVP): AAI(R)<->DDD(R)
- Search AV+ up to 600ms

AT/AF MANAGEMENT

Pacing therapies to help manage atrial tachyarrhythmias and alleviate symptoms.

- ModeSwitch with Blanked Flutter Search
- Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)

ADDITIONAL PACING FEATURES

- Rate Hysteresis
- Sleep Function
- PVC Response
- Ventricular Safety Pacing (VSP)
- Sinus Preference
- High Upper tracking rate up to 210 min⁻¹ for pediatric indications
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Histogram Reports
- Atrial and Ventricular Episodes including EGMs
- Additional Clinician Selected Diagnostics

Model	ADDR01	ADDR03	ADDR06	ADDRS1 (Small)	ADDRL1 (Longevity)
M (g)	27.1	28.1	28.5	23.6	31.3
V (cc)	12.1	13.0	14.2	11.1	13.1
Size (mm) (HxWxD)	44.7 x 47.9 x 7.5	46.7 x 47.9 x 7.5	50.3 x 47.9 x 7.5	44.7 x 42.9 x 7.5	45.4 x 52.3 x 7.5
Connector	IS-1 BI/UNI	IS-1 BI/ UNI; 3.2 mm LP BI	5 or 6 mm UNI	IS-1 BI/ UNI	IS-1 BI/ UNI



NOTE: This is not intended to be a full product description. For full description, refer to the Device Specification Sheet and/or Manual.



ADAPTA[®] D

PACEMAKERS (IPG)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Automatically monitors for implant detection and continuously adapts key device parameters to ensure the therapies are optimized.

- Implant Detection
- TherapyGuide
- Capture Management (RA and RV)
- Sensing Assurance (RA and RV)
- Lead Monitor (RA and RV) with Auto Polarity Switch
- CareLink connectivity

MINIMIZING UNNECESSARY RV PACING

Promotes intrinsic conduction by reducing unnecessary RV pacing.

- Managed Ventricular Pacing Mode (MVP): AAI(R) <-> DDD(R)
- Search AV+ up to 600 ms

AT/AF MANAGEMENT

Pacing therapies to help manage atrial tachyarrhythmias and alleviate symptoms.

- ModeSwitch with Blanked Flutter Search
- Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)

ADDITIONAL PACING FEATURES

- Rate Hysteresis
- Sleep Function
- PVC Response
- Ventricular Safety Pacing (VSP)
- High Upper tracking rate up to 210 min⁻¹ for pediatric indications
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Histogram Reports
- Atrial and Ventricular Episodes including EGMs
- Additional Clinician Selected Diagnostics

Model	ADD01
M (g)	27.1
V (cc)	12.1
Size (mm) (HxWxD)	44.7 x 47.9 x 7.5
Connector	IS-1 BI/UNI



NOTE: This is not intended to be a full product description.
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ADAPTA[®] VDD

PACEMAKERS (IPG)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Automatically monitors for implant detection and continuously adapts key device parameters to ensure the therapies are optimized.

- Implant Detection
- TherapyGuide
- Capture Management (RV)
- Sensing Assurance (RA and RV)
- Lead Monitor (RV) with Auto Polarity Switch
- CareLink connectivity

MINIMIZING UNNECESSARY RV PACING

Promotes intrinsic conduction by reducing unnecessary RV pacing.

- Search AV+ up to 600 ms

AT/AF MANAGEMENT

Pacing therapies to help manage atrial tachyarrhythmias and alleviate symptoms.

- ModeSwitch with Blanked Flutter Search
- Conducted AF Response (CAFR)

ADDITIONAL PACING FEATURES

- Rate Hysteresis
- Sleep Function
- PVC Response
- High Upper tracking rate up to 210 min⁻¹ for pediatric indications
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Histogram Reports
- Atrial and Ventricular Episodes including EGMs
- Additional Clinician Selected Diagnostics

Model	ADVDD01
M (g)	23.6
V (cc)	11.1
Size (mm) (HxWxD)	44.7 x 42.9 x 7.5
Connector	IS-1 BI/UNI



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



SENSIA[®] DR

PACEMAKERS (IPG)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Automatically monitors for implant detection and continuously adapts key device parameters to ensure the therapies are optimized.

- Implant Detection
- TherapyGuide
- Capture Management (RA and RV)
- Sensing Assurance (RA and RV)
- Lead Monitor (RA and RV) with Auto Polarity Switch
- CareLink connectivity

MINIMIZING UNNECESSARY RV PACING

Promotes intrinsic conduction by reducing unnecessary RV pacing.

- Search AV+ up to 600 ms

AT/AF MANAGEMENT

Pacing therapies to help manage atrial tachyarrhythmias and alleviate symptoms.

- ModeSwitch with Blanked Flutter Search
- Non-competitive Atrial Pacing (NCAP)

ADDITIONAL PACING FEATURES

- Rate Hysteresis
- Sleep Function
- PVC Response
- Ventricular Safety Pacing (VSP)
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Histogram Reports
- Atrial and Ventricular Episodes including EGMs
- Additional Clinician Selected Diagnostics

Model	SEDRO1	SEDRL1 (Longevity)
M (g)	27.1	31.1
V (cc)	12.1	13.1
Size (mm) (HxWxD)	44.7 x 47.9 x 7.5	45.4 x 52.3 x 7.5
Connector	IS-1 BI/UNI	



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



SENSIA[®] D

PACEMAKERS (IPG)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Automatically monitors for implant detection and continuously adapts key device parameters to ensure the therapies are optimized.

- Implant Detection
- TherapyGuide
- Capture Management (RA and RV)
- Sensing Assurance (RA and RV)
- Lead Monitor (RA and RV) with Auto Polarity Switch
- CareLink connectivity

MINIMIZING UNNECESSARY RV PACING

Promotes intrinsic conduction by reducing unnecessary RV pacing.

- Search AV+ up to 600 ms

AT/AF MANAGEMENT

Pacing therapies to help manage atrial tachyarrhythmias and alleviate symptoms.

- ModeSwitch with Blanked Flutter Search
- Non-competitive Atrial Pacing (NCAP)

ADDITIONAL PACING FEATURES

- Rate Hysteresis
- Sleep Function
- PVC Response
- Ventricular Safety Pacing (VSP)
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Histogram Reports
- Atrial and Ventricular Episodes including EGMs
- Additional Clinician Selected Diagnostics

Model	SED01
M (g)	27.1
V (cc)	12.1
Size (mm) (HxWxD)	44.7 x 47.9 x 7.5
Connector	IS-1 BI/UNI



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



PACEMAKERS (IPG)

Leadless



MICRA™ AV

TRANSCATHETER PACING SYSTEM

PACEMAKERS (IPG)

GENERAL DESCRIPTION

- Miniaturized: Completely self-contained within the heart, no leads required
- Designed to provide AV Synchrony (VDD)
- Engineered for a minimally invasive approach
- Integrated delivery system facilitates a streamlined implant procedure via femoral approach
- Atraumatic FlexFix™ nitinol tines provide secure capsule placement
- CareLink connectivity

COMPLETELY AUTOMATIC – SIMPLE TO USE

- Continuously adapts key device parameters to ensure the therapies are optimized.
- Capture Management (RV)
- Auto-adjusting sensitivity (RV)

ENSURING AV SYNCHRONY

- Dynamic sensing that adjusts pacing based on the mechanical atrial contraction
- Accelerometer-based mechanical atrial sensing

DIAGNOSTICS

- Quick Look II
- Histogram Reports

ELECTRODES

- Surface area:
- Anode: 22 mm²
- Cathode: 2.5 mm²
- Steroid eluting cathode

MICRA DELIVERY CATHETER

- Catheter system with a handle that controls deflection and deployment of the Micra pacing capsule
- It can function as a retrieval catheter post tether removal
- Outer diameter: 7.8 mm (23 Fr)
- Effective length: 105 cm
- Radiopacity: Gold (99.99% purity)

MICRA INTRODUCER SHEATH

- Lubricious hydrophilic coating facilitates smooth vessel navigation
- Stopcock for aspirating and flushing
- Radiopaque marker on end of Introducer
- Inner diameter: 7.8 mm (23 Fr)
- Outer diameter: 9.0 mm (27 Fr)
- Working length: 55.7 cm
- Dilator:
 - Working length: 69.9 cm
 - Guidewire compatibility: 0.89 mm (0.035 in)

Model	MC1AVR1
M (g)	1.75
V (cc)	0.8
Length (mm)	25.9
Outer Diameter (mm (Fr))	6.7 (20.1)

MRI SureScan

Full Body 1.5 and 3T MRI:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description. For full description, refer to the Device Specification Sheet and/or Manual.



MICRA™ VR

TRANSCATHETER PACING SYSTEM

PACEMAKERS (IPG)

GENERAL DESCRIPTION

- Miniaturized: Completely self-contained within the heart, no leads required
- Engineered for a minimally invasive approach
- Integrated delivery system facilitates a streamlined implant procedure via femoral approach
- Atraumatic FlexFix™ nitinol tines provide secure capsule placement
- CareLink connectivity

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- Capture Management (RV)
- Auto-adjusting sensitivity (RV)
- CareLink connectivity

DIAGNOSTICS

- Quick Look II
- Histogram Reports

ELECTRODES

- Surface area:
- Anode: 22 mm²
- Cathode: 2.5 mm²
- Steroid eluting cathode

MICRA DELIVERY CATHETER

- Catheter system with a handle that controls deflection and deployment of the Micra pacing capsule
- It can function as a retrieval catheter post tether removal
- Outer diameter: 7.8 mm (23 Fr)
- Effective length: 105 cm
- Radiopacity: Gold (99.99% purity)

MICRA INTRODUCER SHEATH

- Lubricious hydrophilic coating facilitates smooth vessel navigation
- Stopcock for aspirating and flushing
- Radiopaque marker on end of Introducer
- Inner diameter: 7.8 mm (23 Fr)
- Outer diameter: 9.0 mm (27 Fr)
- Working length: 55.7 cm
- Dilator:
- Working length: 69.9 cm
- Guidewire compatibility: 0.89 mm (0.035 in)

Model	MC1VR01
M (g)	1.75
V (cc)	0.8
Length (mm)	25.9
Outer Diameter (mm (Fr))	6.7 (20.1)

MRI SureScan

Full Body 1.5 and 3T MRI:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description. For full description, refer to the Device Specification Sheet and/or Manual.



CRT PACEMAKERS (CRT-P)



PERCEPTA™ QUAD CRT-P MRI SURESCAN™

CRT PACEMAKERS (CRT-P)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- Bluetooth® Wireless Telemetry (BlueSync™ Technology)
- Implant Detection
- Therapy Guide
- Capture Management (RA, RV and LV)
- Auto-adjusting sensitivity (RA and RV)
- Lead Monitor (RA, RV and LV) with Auto Polarity Switch
- CareLink connectivity

MINIMIZING UNNECESSARY RV PACING

Promotes intrinsic conduction by reducing unnecessary RV pacing.

- Updated Managed Ventricular Pacing Mode (MVP):
AAI(R)<->DDD(R)

HEART FAILURE (HF) MANAGEMENT

Pacing therapies and algorithms to help manage heart failure.

- EffectivCRT Diagnostic and EffectivCRT During AF
- AdaptivCRT
- CardioSync Optimization Test
- Multiple Point Pacing (MPP)
- VectorExpress 2.0 LV Automated Test
- 16 LV pacing vectors with Quadripolar LV lead
- Sequential MPP
- Ventricular Sense Response (VSR)
- Atrial Tracking Recovery (ATR)
- OptiVol 2.0
- Heart Failure Risk Stratification (TriageHF)*

AT/AF MANAGEMENT

Pacing therapies and algorithms to help manage atrial tachyarrhythmias.

- Atrial ATP with Reactive ATP
- ModeSwitch
- Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)
- Atrial Rate Stabilization (ARS)

ADDITIONAL PACING FEATURES

- Sleep Function
- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- High Upper tracking rate up to 210 min⁻¹ for pediatric indications
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Leadless ECG
- Atrial and Ventricular Episodes including EGMs

*Subject to availability

NOTE: This is not intended to be a full product description. For full description, refer to the Device Specification Sheet and/or Manual.

Model	W4TR04
M (g)	30
V (cc)	20.5
Size (mm) (HxWxD)	59 x 46.5 x 11
Connector	2x IS-1 / 1x IS-4

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



PERCEPTA™ CRT-P MRI SURESCAN™

CRT PACEMAKERS (CRT-P)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- Bluetooth® Wireless Telemetry (BlueSync™ Technology)
- Implant Detection
- Therapy Guide
- Capture Management (RA, RV and LV)
- Auto-adjusting sensitivity (RA and RV)
- Lead Monitor (RA, RV and LV) with Auto Polarity Switch
- CareLink connectivity

MINIMIZING UNNECESSARY RV PACING

Promotes intrinsic conduction by reducing unnecessary RV pacing.

- Updated Managed Ventricular Pacing Mode (MVP): AAI(R)<->DDD(R)

HEART FAILURE (HF) MANAGEMENT

Pacing therapies and algorithms to help manage heart failure.

- EffectivCRT Diagnostic and EffectivCRT During AF
- AdaptivCRT
- CardioSync Optimization Test
- 5 LV pacing vectors
- Ventricular Sense Response (VSR)
- Atrial Tracking Recovery (ATR)
- Optiol 2.0
- Heart Failure Risk Stratification (TriageHF)*

AT/AF MANAGEMENT

Pacing therapies and algorithms to help manage atrial tachyarrhythmias.

- Atrial ATP with Reactive ATP
- ModeSwitch
- Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)
- Atrial Rate Stabilization (ARS)

ADDITIONAL PACING FEATURES

- Sleep Function
- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- High Upper tracking rate up to 210 min⁻¹ for pediatric indications
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Leadless ECG
- Atrial and Ventricular Episodes including EGMs

*Subject to availability

Model	W1TR04
M (g)	30
V (cc)	20
Size (mm) (HxWxD)	59 x 46.5 x 11
Connector	3x IS-1

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



SERENA™ QUAD CRT-P MRI

SURESCAN™

CRT PACEMAKERS (CRT-P)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- Bluetooth® Wireless Telemetry (BlueSync™ Technology)
- Implant Detection
- Therapy Guide
- Capture Management (RA, RV and LV)
- Auto-adjusting sensitivity (RA and RV)
- Lead Monitor (RA, RV and LV) with Auto Polarity Switch
- CareLink connectivity

MINIMIZING UNNECESSARY RV PACING

Promotes intrinsic conduction by reducing unnecessary RV pacing.

- Updated Managed Ventricular Pacing Mode (MVP): AAI(R)<->DDD(R)

HEART FAILURE (HF) MANAGEMENT

Pacing therapies and algorithms to help manage heart failure.

- AdaptivCRT
- CardioSync Optimization Test
- Multiple Point Pacing (MPP)
- VectorExpress LV Automated Test
- 16 LV pacing vectors with Quadripolar LV lead
- Sequential MPP
- Ventricular Sense Response (VSR)
- Atrial Tracking Recovery (ATR)
- OptiVol 2.0
- Heart Failure Risk Stratification (TriageHF)*

AT/AF MANAGEMENT

Pacing therapies and algorithms to help manage atrial tachyarrhythmias.

- Atrial ATP with Reactive ATP
- ModeSwitch
- Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)
- Atrial Rate Stabilization (ARS)

ADDITIONAL PACING FEATURES

- Sleep Function
- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- High Upper tracking rate up to 210 min⁻¹ for pediatric indications
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Leadless ECG
- Atrial and Ventricular Episodes including EGMs

*Subject to availability

NOTE: This is not intended to be a full product description. For full description, refer to the Device Specification Sheet and/or Manual.

Model	W4TR05
M (g)	30
V (cc)	20.5
Size (mm) (HxWxD)	59 x 46.5 x 11
Connector	2x IS-1 / 1x IS-4

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



SERENA™ CRT-P MRI SURESCAN™

CRT PACEMAKERS (CRT-P)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- Bluetooth® Wireless Telemetry (BlueSync™ Technology)
- Implant Detection
- Therapy Guide
- Capture Management (RA, RV and LV)
- Auto-adjusting sensitivity (RA and RV)
- Lead Monitor (RA, RV and LV) with Auto Polarity Switch
- CareLink connectivity

MINIMIZING UNNECESSARY RV PACING

Promotes intrinsic conduction by reducing unnecessary RV pacing.

- Updated Managed Ventricular Pacing Mode (MVP):
AAI(R)<->DDD(R)

HEART FAILURE (HF) MANAGEMENT

Pacing therapies and algorithms to help manage heart failure.

- AdaptivCRT
- CardioSync Optimization Test
- 5 LV pacing vectors
- Ventricular Sense Response (VSR)
- Atrial Tracking Recovery (ATR)
- OptiVol 2.0
- Heart Failure Risk Stratification (TriageHF)*

AT/AF MANAGEMENT

Pacing therapies and algorithms to help manage atrial tachyarrhythmias.

- Atrial ATP with Reactive ATP
- ModeSwitch
- Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)
- Atrial Rate Stabilization (ARS)

ADDITIONAL PACING FEATURES

- Sleep Function
- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- High Upper tracking rate up to 210 min⁻¹ for pediatric indications
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Leadless ECG
- Atrial and Ventricular Episodes including EGMs

*Subject to availability

Model	W1TR05
M (g)	30
V (cc)	20
Size (mm) (HxWxD)	59 x 46.5 x 11
Connector	3 x IS-1

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



SOLARA™ QUAD CRT-P MRI SURESCAN™

CRT PACEMAKERS (CRT-P)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- Bluetooth® Wireless Telemetry (BlueSync™ Technology)
- Implant Detection
- Therapy Guide
- Capture Management (RA, RV and LV)
- Auto-adjusting sensitivity (RA and RV)
- Lead Monitor (RA, RV and LV) with Auto Polarity Switch
- CareLink connectivity

MINIMIZING UNNECESSARY RV PACING

Promotes intrinsic conduction by reducing unnecessary RV pacing.

- Updated Managed Ventricular Pacing Mode (MVP):
AAI(R)<->DDD(R)

HEART FAILURE (HF) MANAGEMENT

Pacing therapies and algorithms to help manage heart failure.

- CardioSync Optimization Test
- VectorExpress LV Automated Test
- 16 LV pacing vectors
- Ventricular Sense Response (VSR)
- Atrial Tracking Recovery (ATR)
- OptiVol 2.0
- Heart Failure Risk Stratification (TriageHF)*

AT/AF MANAGEMENT

Pacing therapies and algorithms to help manage atrial tachyarrhythmias.

- Atrial ATP with Reactive ATP
- ModeSwitch
- Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)
- Atrial Rate Stabilization (ARS)

ADDITIONAL PACING FEATURES

- Sleep Function
- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- High Upper tracking rate up to 210 min⁻¹ for pediatric indications
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Leadless ECG
- Atrial and Ventricular Episodes including EGMs

*Subject to availability

Model	W4TR06
M (g)	30
V (cc)	20.5
Size (mm) (HxWxD)	59 x 46.5 x 11
Connector	2x IS-1 / 1x IS-4

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



SOLARA™ CRT-P MRI SURESCAN™

CRT PACEMAKERS (CRT-P)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- Bluetooth® Wireless Telemetry (BlueSync™ Technology)
- Implant Detection
- Therapy Guide
- Capture Management (RA, RV and LV)
- Auto-adjusting sensitivity (RA and RV)
- Lead Monitor (RA, RV and LV) with Auto Polarity Switch
- CareLink connectivity

MINIMIZING UNNECESSARY RV PACING

Promotes intrinsic conduction by reducing unnecessary RV pacing.

- Updated Managed Ventricular Pacing Mode (MVP): AAI(R)<->DDD(R)

HEART FAILURE (HF) MANAGEMENT

Pacing therapies and algorithms to help manage heart failure.

- CardioSync Optimization Test
- 5 LV pacing vectors
- Ventricular Sense Response (VSR)
- Atrial Tracking Recovery (ATR)
- OptiVol 2.0
- Heart Failure Risk Stratification (TriageHF)*

AT/AF MANAGEMENT

Pacing therapies and algorithms to help manage atrial tachyarrhythmias.

- Atrial ATP with Reactive ATP
- ModeSwitch
- Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)
- Atrial Rate Stabilization (ARS)

ADDITIONAL PACING FEATURES

- Sleep Function
- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- High Upper tracking rate up to 210 min⁻¹ for pediatric indications
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Leadless ECG
- Atrial and Ventricular Episodes including EGMs

*Subject to availability

Model	W1TR06
M (g)	30
V (cc)	20
Size (mm) (HxWxD)	59 x 46.5 x 11
Connector	3 x IS-1

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description. For full description, refer to the Device Specification Sheet and/or Manual.



DEFIBRILLATORS (ICD)

Single Chamber (VR)



COBALT™ XT VR MRI SURESCAN™

DEFIBRILLATORS (ICD)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- Bluetooth® Wireless Telemetry (BlueSync™ Technology)
- Capture Management (RV)
- Auto-adjusting sensitivity (RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA), Atrial Fibrillation (AF) burden and Fast V. Rate During AF
- CareLink connectivity

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- SmartShock™ 2.0+ Technology with Intrinsic ATP™ Algorithm
- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging ChargeSaver with Smart Mode
- Programmable RV sensing and pacing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – Wavelet, Stability, Onset
- Wavelet programmable to discriminate SVT in VF zone

HEART FAILURE (HF) MANAGEMENT

Algorithm to help manage heart failure.

- OptiVol™ 2.0
- Heart Failure Risk Stratification (TriageHF)*

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- Conducted AF Response (CAFR)
- AF Diagnostic (Trends and Histograms)

ADDITIONAL PACING FEATURES

- Ventricular Rate Stabilization (VRS)
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Leadless ECG

**Subject to availability*

Model	DVPA2D1	DVPA2D4
M (g)	79	79
V (cc)	33.2	33.8
Size (mm) (HxWxD)	66 x 51 x 13	66 x 51 x 13
Connector	IS-1 / DF-1	DF-4
Max Program. / Delivered Energy (J)	40 / 40	40 / 40

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



COBALT™ VR MRI SURESCAN™

DEFIBRILLATORS (ICD)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- Bluetooth® Wireless Telemetry (BlueSync™ Technology)
- Capture Management (RV)
- Auto-adjusting sensitivity (RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA), Atrial Fibrillation (AF) burden and Fast V. Rate During AF
- CareLink connectivity

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing and pacing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – Wavelet, Stability, Onset
- Wavelet programmable to discriminate SVT in VF zone

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- TruAF™ Detection Algorithm
- Conducted AF Response (CAFR)
- AF Diagnostic (Trends and Histograms)

ADDITIONAL PACING FEATURES

- Ventricular Rate Stabilization (VRS)
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Leadless ECG

Model	DVPB3D1	DVPB3D4
M (g)	79	79
V (cc)	33.2	33.8
Size (mm) (HxWxD)	66 x 51 x 13	66 x 51 x 13
Connector	IS-1 / DF-1	DF-4
Max Program. / Delivered Energy (J)	40 / 40	40 / 40

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



CROME™ VR MRI SURESCAN™

DEFIBRILLATORS (ICD)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- Bluetooth® Wireless Telemetry (BlueSync™ Technology)
- Capture Management (RV)
- Auto-adjusting sensitivity (RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing and pacing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – Wavelet, Stability, Onset
- Wavelet programmable to discriminate SVT in VF zone

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- Conducted AF Response (CAFR)

ADDITIONAL PACING FEATURES

- Ventricular Rate Stabilization (VRS)
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Leadless ECG

Model	DVPC3D1	DVPC3D4
M (g)	79	79
V (cc)	33.2	32.8
Size (mm) (HxWxD)	66 x 51 x 13	64 x 51 x 13
Connector	IS-1 / DF-1	DF-4
Max Program. / Delivered Energy (J)	40 / 40	40 / 40

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



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For full description, refer to the Device Specification Sheet and/or Manual.



PRIMO MRI™ VR

SURESCAN™

DEFIBRILLATORS (ICD)

AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- TherapyGuide
- Auto-adjusting sensitivity (RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity
- Wireless telemetry

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – Wavelet, Stability, Onset
- Wavelet programmable to discriminate SVT in VF zone

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- Conducted AF Response (CAFR)

ADDITIONAL PACING FEATURES

- Ventricular Rate Stabilization (VRS)
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Leadless ECG

Model	DVMD3D1	DVMD3D4
M (g)	77	77
V (cc)	33	33
Size (mm) (HxWxD)	66 x 51 x 13	64 x 51 x 13
Connector	IS-1 / DF-1	DF-4
Max Program. / Delivered Energy (J)	35 / 36	

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



MIRRO MRI™ VR

SURESCAN™

DEFIBRILLATORS (ICD)

AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- TherapyGuide
- Auto-adjusting sensitivity (RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity
- Wireless telemetry

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- SVT Discriminators – Wavelet, Stability, Onset
- Wavelet programmable to discriminate SVT in VF zone

ADDITIONAL PACING FEATURES

- Ventricular Rate Stabilization (VRS)
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Leadless ECG

Model	DVME3D1	DVME3D4
M (g)	77	77
V (cc)	33	33
Size (mm) (HxWxD)	66 x 51 x 13	64 x 51 x 13
Connector	IS-1 / DF-1	DF-4
Max Program. / Delivered Energy (J)	35 / 36	

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



VISIA AF MRI™ XT VR SURESCAN™

DEFIBRILLATORS (ICD)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- TherapyGuide
- Capture Management (RV)
- Auto-adjusting sensitivity (RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA), Atrial Fibrillation (AF) burden and Fast V. Rate During AF
- CareLink connectivity
- Wireless telemetry

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing and pacing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – Wavelet, Stability, Onset
- Wavelet programmable to discriminate SVT in VF zone

HEART FAILURE (HF) MANAGEMENT

Algorithm to help manage heart failure.

- OptiVol™ 2.0
- Heart Failure Risk Stratification (TriageHF)*

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- Conducted AF Response (CAFR)
- AF Diagnostic (Trends and Histograms)

ADDITIONAL PACING FEATURES

- Ventricular Rate Stabilization (VRS)
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Leadless ECG

*Subject to availability

Model	DVFB2D1	DVFB2D4
M (g)	77	77
V (cc)	33	33
Size (mm) (HxWxD)	66 x 51 x 13	66 x 51 x 13
Connector	IS-1 / DF-1	IS-1 / DF-4
Max Program. / Delivered Energy (J)	35 / 36	

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



VISIA AF™ XT VR

DEFIBRILLATORS (ICD)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- TherapyGuide
- Capture Management (RV)
- Auto-adjusting sensitivity (RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA), Atrial Fibrillation (AF) burden and Fast V. Rate During AF
- CareLink connectivity
- Wireless telemetry

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing and pacing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – Wavelet, Stability, Onset
- Wavelet programmable to discriminate SVT in VF zone

HEART FAILURE (HF) MANAGEMENT

Algorithm to help manage heart failure.

- OptiVol 2.0
- Heart Failure Risk Stratification (TriageHF)*

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- Conducted AF Response (CAFR)
- AF Diagnostic (Trends and Histograms)

ADDITIONAL PACING FEATURES

- Ventricular Rate Stabilization (VRS)
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Leadless ECG

**Subject to availability*

Model	DVAB2D1
M (g)	77
V (cc)	33
Size (mm) (HxWxD)	66 x 51 x 13
Connector	IS-1 / DF-1
Max Program. / Delivered Energy (J)	35 / 36



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



VISIA AF MRI™ S VR

SURESCAN™

DEFIBRILLATORS (ICD)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- TherapyGuide
- Capture Management (RV)
- Auto-adjusting sensitivity (RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA), Atrial Fibrillation (AF) burden and Fast V. Rate During AF
- CareLink connectivity
- Wireless telemetry

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing and pacing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – Wavelet, Stability, Onset
- Wavelet programmable to discriminate SVT in VF zone

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- Conducted AF Response (CAFR)
- AF Diagnostic (Trends and Histograms)

ADDITIONAL PACING FEATURES

- Ventricular Rate Stabilization (VRS)
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Leadless ECG

Model	DVFC3D1	DVFC3D4
M (g)	77	77
V (cc)	33	33
Size(mm) (HxWxD)	66 x 51 x 13	64 x 51 x 13
Connector	IS-1 / DF-1	DF-4
Max Program. / Delivered Energy (J)	35 / 36	

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



VISIA AF™ S VR

DEFIBRILLATORS (ICD)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- TherapyGuide
- Capture Management (RV)
- Auto-adjusting sensitivity (RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA), Atrial Fibrillation (AF) burden and Fast V. Rate During AF
- CareLink connectivity
- Wireless telemetry

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing and pacing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – Wavelet, Stability, Onset
- Wavelet programmable to discriminate SVT in VF zone

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- Conducted AF Response (CAFR)
- AF Diagnostic (Trends and Histograms)

ADDITIONAL PACING FEATURES

- Ventricular Rate Stabilization (VRS)
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Leadless ECG

Model	DVAC3D1
M (g)	77
V (cc)	33
Size (mm) (HxWxD)	66 x 51 x 13
Connector	IS-1 / DF-1
Max Program. / Delivered Energy (J)	35 / 36



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



EVERA MRI® XT VR

SURESCAN™

DEFIBRILLATORS (ICD)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- TherapyGuide
- Capture Management (RV)
- Auto-adjusting sensitivity (RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity
- Wireless telemetry

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – Wavelet, Stability, Onset
- Wavelet programmable to discriminate SVT in VF zone

HEART FAILURE (HF) MANAGEMENT

Algorithm to help manage heart failure.

- OptiVol 2.0
- Heart Failure Risk Stratification (TriageHF)*

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- Conducted AF Response (CAFR)

ADDITIONAL PACING FEATURES

- Ventricular Rate Stabilization (VRS)
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Leadless ECG

*Subject to availability

Model	DVMB2D1	DVMB2D4
M (g)	77	77
V (cc)	33	33
Size (mm) (HxWxD)	66 x 51 x 13	64 x 51 x 13
Connector	IS-1 / DF-1	DF-4
Max Program. / Delivered Energy (J)	35 / 36	

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



EVERA[®] XT VR

DEFIBRILLATORS (ICD)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- TherapyGuide
- Capture Management (RV)
- Auto-adjusting sensitivity (RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity
- Wireless telemetry

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – Wavelet, Stability, Onset
- Wavelet programmable to discriminate SVT in VF zone

HEART FAILURE (HF) MANAGEMENT

Algorithm to help manage heart failure.

- OptiVol 2.0
- Heart Failure Risk Stratification (TriageHF)*

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- Conducted AF Response (CAFR)

ADDITIONAL PACING FEATURES

- Ventricular Rate Stabilization (VRS)
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Leadless ECG

*Subject to availability

Model	DVBB2D1	DVBB2D4
M (g)	77	77
V (cc)	33	33
Size (mm) (HxWxD)	66 x 51 x 13	64 x 51 x 13
Connector	IS-1 / DF-1	DF-4
Max Program. / Delivered Energy (J)	35 / 36	



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



EVERA MRI® S VR

SURESCAN™

DEFIBRILLATORS (ICD)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- TherapyGuide
- Capture Management (RV)
- Auto-adjusting sensitivity (RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity
- Wireless telemetry

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing and pacing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – Wavelet, Stability, Onset
- Wavelet programmable to discriminate SVT in VF zone

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- Conducted AF Response (CAFR)

ADDITIONAL PACING FEATURES

- Ventricular Rate Stabilization (VRS)
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Leadless ECG

Model	DVMC3D1	DVMC3D4
M (g)	77	77
V (cc)	33	33
Size (mm) (HxWxD)	66 x 51 x 13	64 x 51 x 13
Connector	IS-1 / DF-1	DF-4
Max Program. / Delivered Energy (J)	35 / 36	

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



EVERA[®] S VR

DEFIBRILLATORS (ICD)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- TherapyGuide
- Capture Management (RV)
- Auto-adjusting sensitivity (RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity
- Wireless telemetry

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing and pacing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – Wavelet, Stability, Onset
- Wavelet programmable to discriminate SVT in VF zone

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- Conducted AF Response (CAFR)

ADDITIONAL PACING FEATURES

- Ventricular Rate Stabilization (VRS)
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Leadless ECG

Model	DVBC3D1	DVBC3D4
M (g)	77	77
V (cc)	33	33
Size (mm) (HxWxD)	66 x 51 x 13	64 x 51 x 13
Connector	IS-1 / DF-1	DF-4
Max Program. / Delivered Energy (J)	35 / 36	



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



DEFIBRILLATORS (ICD)

Dual Chamber (DR)



COBALT™ XT DR MRI

SURESCAN™

DEFIBRILLATORS (ICD)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- TherapyGuide
- Capture Management (RA and RV)
- Auto-adjusting sensitivity (RA and RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity
- Wireless telemetry
- Bluetooth® Wireless Telemetry (BlueSync™ Technology)

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- SmartShock™ 2.0+ Technology with Intrinsic ATP™ Algorithm
- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ChargeSaver with ATP Before and During Charging
- Smart Mode
- Programmable RV sensing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – PR Logic, Wavelet, Stability, Onset
- PR Logic and Wavelet programmable to discriminate SVT in VF zone

HEART FAILURE (HF) MANAGEMENT

Algorithm to help manage heart failure.

- OptiVol 2.0
- Heart Failure Risk Stratification (TriageHF)*

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- Automatic and Patient-activated atrial cardioversion (CV)
- Atrial ATP with Reactive ATP
- ModeSwitch with Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)
- Atrial Rate Stabilization (ARS)

ADDITIONAL PACING FEATURES

- Updated Managed Ventricular Pacing Mode (MVP): AAI(R)DDDD(R)
- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Leadless ECG

*Subject to availability

Model	DDPA2D1	DDPA2D4
M (g)	79	80
V (cc)	33.1	33.7
Size (mm) (HxWxD)	66 x 51 x 14	66 x 51 x 13
Connector	IS-1 / DF-1	IS-1 / DF-4
Max Program. / Delivered Energy (J)	40 / 40	40 / 40

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



COBALT™ DR MRI SURESCAN™

DEFIBRILLATORS (ICD)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- TherapyGuide
- Capture Management (RA and RV)
- Auto-adjusting sensitivity (RA and RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity
- Wireless telemetry
- Bluetooth® Wireless Telemetry (BlueSync™ Technology)

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing and pacing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – PR Logic, Wavelet, Stability, Onset
- PR Logic and Wavelet programmable to discriminate SVT in VF zone

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- Automatic and Patient-activated atrial cardioversion (CV)
- Atrial ATP with Reactive ATP
- ModeSwitch with Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)
- Atrial Rate Stabilization (ARS)

ADDITIONAL PACING FEATURES

- Updated Managed Ventricular Pacing Mode (MVP): AAI:(R) DDDR(R)
- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Leadless ECG

Model	DDPB3D1	DDPB3D4
M (g)	79	80
V (cc)	33,1	33,7
Size (mm) (HxWxD)	66 x 51 x 14	64 x 51 x 13
Connector	IS-1 / DF-1	IS-1 / DF-4
Max Program. / Delivered Energy (J)	40 / 40	40 / 40

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



CROME™ DR MRI SURESCAN™

DEFIBRILLATORS (ICD)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- Bluetooth® Wireless Telemetry (BlueSync™ Technology)
- Capture Management (RA and RV)
- Auto-adjusting sensitivity (RA and RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing and pacing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – PR Logic, Wavelet, Stability, Onset
- PR Logic and Wavelet programmable to discriminate SVT in VF zone

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- Atrial ATP with Reactive ATP
- ModeSwitch with Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)
- Atrial Rate Stabilization (ARS)

ADDITIONAL PACING FEATURES

- Updated Managed Ventricular Pacing Mode (MVP): AAI(R)DDD(R)
- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Leadless ECG

Model	DDPC3D1	DDPC3D4
M (g)	79	80
V (cc)	33.1	33.7
Size (mm) (HxWxD)	66 x 51 x 13	66 x 51 x 13
Connector	IS-1 / DF-1	IS-1 / DF-4
Max Program. / Delivered Energy (J)	40 / 40	40 / 40

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



PRIMO MRI™ DR

SURESCAN™

DEFIBRILLATORS (ICD)

AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- TherapyGuide
- Auto-adjusting sensitivity (RA and RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity
- Wireless telemetry

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – PR Logic, Wavelet, Stability, Onset
- PR Logic and Wavelet programmable to discriminate SVT in VF zone

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- Automatic and Patient-activated atrial cardioversion (CV)
- Atrial ATP with Reactive ATP
- ModeSwitch with Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)
- Atrial Rate Stabilization (ARS)

ADDITIONAL PACING FEATURES

- Managed Ventricular Pacing Mode (MVP): AAI(R)<->DDD(R)
- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Leadless ECG

Model	DDMD3D1	DDMD3D4
M (g)	77	78
V (cc)	33	34
Size (mm) (HxWxD)	66 x 51 x 15	68 x 51 x 15
Connector	IS-1 / DF-1	IS-1 / DF-4
Max Program. / Delivered Energy (J)	35 / 36	

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



MIRRO MRI™ DR

SURESCAN™

DEFIBRILLATORS (ICD)

AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- TherapyGuide
- Auto-adjusting sensitivity (RA and RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity
- Wireless telemetry

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- SVT Discriminators – PR Logic, Stability, Onset
- PR Logic programmable to discriminate SVT in VF zone

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- ModeSwitch with Post Mode Switch overdrive Pacing (PMOP)
- Non-competitive Atrial Pacing (NCAP)

ADDITIONAL PACING FEATURES

- Managed Ventricular Pacing Mode (MVP): AAI(R)<->DDD(R)
- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Leadless ECG

Model	DDME3D1	DDME3D4
M (g)	77	78
V (cc)	33	34
Size (mm) (HxWxD)	66 x 51 x 13	66 x 51 x 13
Connector	IS-1 / DF-1	IS-1 / DF-4
Max Program. / Delivered Energy (J)	35 / 36	

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



EVERA MRI™ XT DR

SURESCAN™

DEFIBRILLATORS (ICD)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- TherapyGuide
- Capture Management (RA and RV)
- Auto-adjusting sensitivity (RA and RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity
- Wireless telemetry

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – PR Logic, Wavelet, Stability, Onset
- PR Logic and Wavelet programmable to discriminate SVT in VF zone

HEART FAILURE (HF) MANAGEMENT

Algorithm to help manage heart failure.

- OptiVol 2.0
- Heart Failure Risk Stratification (TriageHF)*

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- Automatic and Patient-activated atrial cardioversion (CV)
- Atrial ATP with Reactive ATP
- ModeSwitch with Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)
- Atrial Rate Stabilization (ARS)

ADDITIONAL PACING FEATURES

- Managed Ventricular Pacing Mode (MVP): AA1(R)<->DDD(R)
- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Leadless ECG

*Subject to availability

Model	DDMB2D1	DDBB2D4
M (g)	77	78
V (cc)	33	34
Size (mm) (HxWxD)	66 x 51 x 14	68 x 51 x 13
Connector	IS-1 / DF-1	IS-1 / DF-4
Max Program. / Delivered Energy (J)	35 / 36	

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



EVERA[®] XT DR

DEFIBRILLATORS (ICD)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- TherapyGuide
- Capture Management (RA and RV)
- Auto-adjusting sensitivity (RA and RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity
- Wireless telemetry

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – PR Logic, Wavelet, Stability, Onset
- PR Logic and Wavelet programmable to discriminate SVT in VF zone

HEART FAILURE (HF) MANAGEMENT

Algorithm to help manage heart failure.

- OptiVol 2.0
- Heart Failure Risk Stratification (TriageHF)*

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- Automatic and Patient-activated atrial cardioversion (CV)
- Atrial ATP with Reactive ATP
- ModeSwitch with Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)
- Atrial Rate Stabilization (ARS)

ADDITIONAL PACING FEATURES

- Managed Ventricular Pacing Mode (MVP): AAI(R) <-> DDD(R)
- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Leadless ECG

**Subject to availability*

Model	DDBB2D1	DDBB2D4
M (g)	77	78
V (cc)	33	34
Size (mm) (HxWxD)	66 x 51 x 13	68 x 51 x 13
Connector	IS-1 / DF-1	IS-1 / DF-4
Max Program. / Delivered Energy (J)	35 / 36	



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



EVERA MRI™ S DR

SURESCAN™

DEFIBRILLATORS (ICD)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- TherapyGuide
- Capture Management (RA and RV)
- Auto-adjusting sensitivity (RA and RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity
- Wireless telemetry

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing and pacing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – PR Logic, Wavelet, Stability, Onset
- PR Logic and Wavelet programmable to discriminate SVT in VF zone

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- Automatic and Patient-activated atrial cardioversion (CV)
- Atrial ATP with Reactive ATP
- ModeSwitch with Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)
- Atrial Rate Stabilization (ARS)

ADDITIONAL PACING FEATURES

- Managed Ventricular Pacing Mode (MVP): AAI(R) <-> DDD(R)
- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Leadless ECG

Model	DDMC3D1	DDMC3D4
M (g)	77	78
V (cc)	33	34
Size (mm) (HxWxD)	66 x 51 x 14	68 x 51 x 13
Connector	IS-1 / DF-1	IS-1 / DF-4
Max Program. / Delivered Energy (J)	35 / 36	

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



EVERA[®] S DR

DEFIBRILLATORS (ICD)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- TherapyGuide
- Capture Management (RA and RV)
- Auto-adjusting sensitivity (RA and RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity
- Wireless telemetry

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing and pacing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – PR Logic, Wavelet, Stability, Onset
- PR Logic and Wavelet programmable to discriminate SVT in VF zone

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- Automatic and Patient-activated atrial cardioversion (CV)
- Atrial ATP with Reactive ATP
- ModeSwitch with Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)
- Atrial Rate Stabilization (ARS)

ADDITIONAL PACING FEATURES

- Managed Ventricular Pacing Mode (MVP): AAI(R) <-> DDD(R)
- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Leadless ECG

Model	DDBC3D1	DDBC3D4
M (g)	77	78
V (cc)	33	34
Size (mm) (HxWxD)	66 x 51 x 13	66 x 51 x 13
Connector	IS-1 / DF-1	IS-1 / DF-4
Max Program. / Delivered Energy (J)	35 / 36	



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



CRT DEFIBRILLATORS (CRT-D)



COBALT™ XT HF Quad CRT-D MRI SURESCAN™

CRT DEFIBRILLATORS (CRT-D)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- Bluetooth® Wireless Telemetry (BlueSync™ Technology)
- Capture Management (RA, RV and LV)
- Auto-adjusting sensitivity (RA and RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- SmartShock™ 2.0+ Technology with Intrinsic ATP™ Algorithm
- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing and pacing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – PR Logic, Wavelet, Stability, Onset
- PR Logic and Wavelet programmable to discriminate SVT in VF zone

HEART FAILURE (HF) MANAGEMENT

Pacing therapies and algorithms to help manage heart failure.

- EffectivCRT Diagnostic and EffectivCRT During AF
- AdaptivCRT
- CardioSync Optimization Test
- Multiple Point Pacing (MPP)
- VectorExpress 2.0 LV Automated Test
- 16 LV pacing vectors with Quadripolar LV lead
- Sequential MPP
- Ventricular Sense Response (VSR)
- Managed Ventricular Pacing (MVP)
- Atrial Tracking Recovery (ATR)
- OptiVol 2.0
- Heart Failure Risk Stratification (TriageHF)*

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- Automatic and Patient-activated atrial cardioversion (CV)
- Atrial ATP with Reactive ATP
- ModeSwitch with Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)
- Atrial Rate Stabilization (ARS)

ADDITIONAL PACING FEATURES

- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Leadless ECG

*Subject to availability

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.

Model	DTPA2Q1 (Quad)	DTPA2QQ (Quad)
M (g)	82	83
V (cc)	36.3	35.5
Size (mm) (HxWxD)	74 x 51 x 13	74 x 51 x 13
Connector	IS-1 / IS-4 / DF-1	IS-1 / IS-4 / DF-4
Max Program. / Delivered Energy (J)	40 / 40	40 / 40

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



COBALT™ XT HF CRT-D MRI SURESCAN™

CRT DEFIBRILLATORS (CRT-D)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- Bluetooth® Wireless Telemetry (BlueSync™ Technology)
- Capture Management (RA, RV and LV)
- Auto-adjusting sensitivity (RA and RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- SmartShock™ 2.0+ Technology with Intrinsic ATP™ Algorithm
- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing and pacing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – PR Logic, Wavelet, Stability, Onset
- PR Logic and Wavelet programmable to discriminate SVT in VF zone

HEART FAILURE (HF) MANAGEMENT

Pacing therapies and algorithms to help manage heart failure.

- EffectivCRT Diagnostic and EffectivCRT During AF
- AdaptivCRT
- CardioSync Optimization Test
- Ventricular Sense Response (VSR)
- Managed Ventricular Pacing (MVP)
- Atrial Tracking Recovery (ATR)
- OptiVol 2.0
- Heart Failure Risk Stratification (TriageHF)*

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- Automatic and Patient-activated atrial cardioversion (CV)
- Atrial ATP with Reactive ATP
- ModeSwitch with Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)
- Atrial Rate Stabilization (ARS)

ADDITIONAL PACING FEATURES

- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Leadless ECG

**Subject to availability*

Model	DTPA2D1	DTPA2D4
M (g)	82	82.1
V (cc)	35	35
Size (mm) (HxWxD)	71 x 51 x 13	71 x 51 x 13
Connector	IS-1 / DF-1	IS-1 / DF-4
Max Program. / Delivered Energy (J)	40 / 40	40 / 40

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description. For full description, refer to the Device Specification Sheet and/or Manual.



COBALT™ HF Quad CRT-D MRI SURESCAN™

CRT DEFIBRILLATORS (CRT-D)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- Bluetooth® Wireless Telemetry (BlueSync™ Technology)
- Capture Management (RA, RV and LV)
- Auto-adjusting sensitivity (RA and RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing and pacing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – PR Logic, Wavelet, Stability, Onset
- PR Logic and Wavelet programmable to discriminate SVT in VF zone

HEART FAILURE (HF) MANAGEMENT

Pacing therapies and algorithms to help manage heart failure.

- AdaptivCRT
- CardioSync Optimization Test
- Multiple Point Pacing (MPP)
- VectorExpress 2.0 LV Automated Test
- 16 LV pacing vectors with Quadripolar LV lead
- Sequential MPP Ventricular Sense Response (VSR)
- Managed Ventricular Pacing (MVP)
- Atrial Tracking Recovery (ATR)
- OptiVol 2.0
- Heart Failure Risk Stratification (TriageHF)*

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- Automatic and Patient-activated atrial cardioversion (CV)
- Atrial ATP with Reactive ATP
- ModeSwitch with Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)
- Atrial Rate Stabilization (ARS)

ADDITIONAL PACING FEATURES

- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Leadless ECG

*Subject to availability

Model	DTPB2Q1 (Quad)	DTPB2QQ (Quad)
M (g)	83	83
V (cc)	36.3	35.5
Size (mm) (HxWxD)	74 x 51 x 13	74 x 51 x 13
Connector	IS-1 / IS-4 / DF-1	IS-1 / IS-4 / DF-4
Max Program. / Delivered Energy (J)	40 / 40	40 / 40

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
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COBALT™ HF CRT-D MRI SURESCAN™

CRT DEFIBRILLATORS (CRT-D)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- Bluetooth® Wireless Telemetry (BlueSync™ Technology)
- Capture Management (RA, RV and LV)
- Auto-adjusting sensitivity (RA and RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing and pacing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – PR Logic, Wavelet, Stability, Onset
- PR Logic and Wavelet programmable to discriminate SVT in VF zone

HEART FAILURE (HF) MANAGEMENT

Pacing therapies and algorithms to help manage heart failure.

- AdaptivCRT
- CardioSync Optimization Test
- Ventricular Sense Response (VSR)
- Managed Ventricular Pacing (MVP)
- Atrial Tracking Recovery (ATR)
- OptiVol 2.0
- Heart Failure Risk Stratification (TriageHF)*

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- Automatic and Patient-activated atrial cardioversion (CV)
- Atrial ATP with Reactive ATP
- ModeSwitch with Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)
- Atrial Rate Stabilization (ARS)

ADDITIONAL PACING FEATURES

- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Leadless ECG

*Subject to availability

Model	DTPB2D1	DTPB2D4
M (g)	82	82.1
V (cc)	35	35
Size (mm) (HxWxD)	71 x 51 x 13	71 x 51 x 13
Connector	IS-1 / DF-1	IS-1 / DF-4
Max Program. / Delivered Energy (J)	40 / 40	40 / 40

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description. For full description, refer to the Device Specification Sheet and/or Manual.



CROME™ HF Quad CRT-D MRI SURESCAN™

CRT DEFIBRILLATORS (CRT-D)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- Bluetooth® Wireless Telemetry (BlueSync™ Technology)
- Capture Management (RA, RV and LV)
- Auto-adjusting sensitivity (RA and RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing and pacing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – PR Logic, Wavelet, Stability, Onset
- PR Logic and Wavelet programmable to discriminate SVT in VF zone

HEART FAILURE (HF) MANAGEMENT

Pacing therapies and algorithms to help manage heart failure.

- CardioSync Optimization Test
- Multiple Point Pacing (MPP)
- VectorExpress 2.0 LV Automated Test
- Ventricular Sense Response (VSR)
- Managed Ventricular Pacing (MVP)
- Atrial Tracking Recovery (ATR)
- OptiVol 2.0
- Heart Failure Risk Stratification (TriageHF)*

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- Automatic and Patient-activated atrial cardioversion (CV)
- Atrial ATP with Reactive ATP
- Mode Switch with Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)
- Atrial Rate Stabilization (ARS)

ADDITIONAL PACING FEATURES

- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Leadless ECG

*Subject to availability

Model	DTPC2Q1 (Quad)	DTPC2QQ (Quad)
M (g)	83	83
V (cc)	36.3	35.5
Size (mm) (HxWxD)	74 x 51 x 13	74 x 51 x 13
Connector	IS-1 / IS-4 / DF-1	IS-1 / IS-4 / DF-4
Max Program. / Delivered Energy (J)	40 / 40	40 / 40

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
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CROME™ HF CRT-D MRI SURESCAN™

CRT DEFIBRILLATORS (CRT-D)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- Bluetooth® Wireless Telemetry (BlueSync™ Technology)
- Capture Management (RA, RV and LV)
- Auto-adjusting sensitivity (RA and RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing and pacing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – PR Logic, Wavelet, Stability, Onset
- PR Logic and Wavelet programmable to discriminate SVT in VF zone

HEART FAILURE (HF) MANAGEMENT

Pacing therapies and algorithms to help manage heart failure.

- CardioSync Optimization Test
- Ventricular Sense Response (VSR)
- Managed Ventricular Pacing (MVP)
- Atrial Tracking Recovery (ATR)
- OptiVol 2.0
- Heart Failure Risk Stratification (TriageHF)*

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- Automatic and Patient-activated atrial cardioversion (CV)
- Atrial ATP with Reactive ATP
- Mode Switch with Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)
- Atrial Rate Stabilization (ARS)

ADDITIONAL PACING FEATURES

- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Leadless ECG

*Subject to availability

Model	DTPC2D1	DTPC2D4
M (g)	82	82.1
V (cc)	35	35
Size (mm) (HxWxD)	71 x 51 x 13	71 x 51 x 13
Connector	IS-1 / DF-1	IS-1 / DF-4
Max Program. / Delivered Energy (J)	40 / 40	40 / 40

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



CLARIA MRI™ QUAD CRT-D SURESCAN™

CRT DEFIBRILLATORS (CRT-D)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- TherapyGuide
- Capture Management (RA, RV and LV)
- Auto-adjusting sensitivity (RA and RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity
- Wireless telemetry

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing and pacing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – PR Logic, Wavelet, Stability, Onset
- PR Logic and Wavelet programmable to discriminate SVT in VF zone

HEART FAILURE (HF) MANAGEMENT

Pacing therapies and algorithms to help manage heart failure.

- EffectivCRT Diagnostic and EffectivCRT During AF
- AdaptivCRT
- CardioSync Optimization Test
- Multiple Point Pacing (MPP)
- VectorExpress 2.0 LV Automated Test
- 16 LV pacing vectors and 5 vectors for MPP with Quadripolar LV lead
- Ventricular Sense Response (VSR)
- Managed Ventricular Pacing (MVP)
- Atrial Tracking Recovery (ATR)
- OptiVol 2.0
- Heart Failure Risk Stratification (TriageHF)*

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- Automatic and Patient-activated atrial cardioversion (CV)
- Atrial ATP with Reactive ATP
- ModeSwitch with Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)
- Atrial Rate Stabilization (ARS)

ADDITIONAL PACING FEATURES

- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Leadless ECG

*Subject to availability

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.

Model	DTMA2Q1 (Quad)	DTMA2QQ (Quad)
M (g)	82	81
V (cc)	36	35
Size (mm) (HxWxD)	74 x 51 x 13	74 x 51 x 13
Connector	IS-1 / IS-4 / DF-1	IS-1 / IS-4 / DF-4
Max Program. / Delivered Energy (J)	35 / 36	

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



CLARIA MRI™ CRT-D

SURESCAN™

CRT DEFIBRILLATORS (CRT-D)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- TherapyGuide
- Capture Management (RA, RV and LV)
- Auto-adjusting sensitivity (RA and RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity
- Wireless telemetry

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing and pacing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – PR Logic, Wavelet, Stability, Onset
- PR Logic and Wavelet programmable to discriminate SVT in VF zone

HEART FAILURE (HF) MANAGEMENT

Pacing therapies and algorithms to help manage heart failure.

- EffectivCRT Diagnostic and EffectivCRT During AF
- AdaptivCRT
- CardioSync Optimization Test
- Ventricular Sense Response (VSR)
- Managed Ventricular Pacing (MVP)
- Atrial Tracking Recovery (ATR)
- OptiVol 2.0
- Heart Failure Risk Stratification (TriageHF)*

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- Automatic and Patient-activated atrial cardioversion (CV)
- Atrial ATP with Reactive ATP
- ModeSwitch with Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)
- Atrial Rate Stabilization (ARS)

ADDITIONAL PACING FEATURES

- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Leadless ECG

*Subject to availability

NOTE: This is not intended to be a full product description. For full description, refer to the Device Specification Sheet and/or Manual.

Model	DTMA2D1	DTMA2D4
M (g)	80	80
V (cc)	35	35
Size (mm) (HxWxD)	71 x 51 x 13	73 x 51 x 13
Connector	IS-1 / DF-1	IS-1 / DF-4
Max Program. / Delivered Energy (J)	35 / 36	

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



AMPLIA MRI™ QUAD CRT-D

SURESCAN™

CRT DEFIBRILLATORS (CRT-D)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- TherapyGuide
- Capture Management (RA, RV and LV)
- Auto-adjusting sensitivity (RA and RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity
- Wireless telemetry

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing and pacing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – PR Logic, Wavelet, Stability, Onset
- PR Logic and Wavelet programmable to discriminate SVT in VF zone

HEART FAILURE (HF) MANAGEMENT

Pacing therapies and algorithms to help manage heart failure.

- AdaptivCRT
- CardioSync Optimization Test
- Multiple Point Pacing (MPP)
- VectorExpress LV Automated Test
- 16 LV pacing vectors and 5 vectors for MPP with Quadripolar LV lead
- Ventricular Sense Response (VSR)
- Managed Ventricular Pacing (MVP)
- Atrial Tracking Recovery (ATR)
- OptiVol 2.0
- Heart Failure Risk Stratification (TriageHF)*

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias. Automatic and Patient-activated atrial cardioversion (CV)

- Atrial ATP with Reactive ATP
- ModeSwitch with Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)
- Atrial Rate Stabilization (ARS)

ADDITIONAL PACING FEATURES

- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Leadless ECG

*Subject to availability

NOTE: This is not intended to be a full product description. For full description, refer to the Device Specification Sheet and/or Manual.

Model	DTMB2Q1 (Quad)	DTMB2QQ (Quad)
M (g)	82	81
V (cc)	36	35
Size (mm) (HxWxD)	74 x 51 x 13	74 x 51 x 13
Connector	IS-1 / IS-4 / DF-1	IS-1 / IS-4 / DF-4
Max Program. / Delivered Energy (J)	35 / 36	

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



AMPLIA MRI™ CRT-D

SURESCAN™

CRT DEFIBRILLATORS (CRT-D)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- TherapyGuide
- Capture Management (RA, RV and LV)
- Auto-adjusting sensitivity (RA and RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity
- Wireless telemetry

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing and pacing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – PR Logic, Wavelet, Stability, Onset
- PR Logic and Wavelet programmable to discriminate SVT in VF zone

HEART FAILURE (HF) MANAGEMENT

Pacing therapies and algorithms to help manage heart failure.

- AdaptivCRT
- CardioSync Optimization Test
- Ventricular Sense Response (VSR)
- Managed Ventricular Pacing (MVP)
- Atrial Tracking Recovery (ATR)
- OptiVol 2.0
- Heart Failure Risk Stratification (TriageHF)*

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- Automatic and Patient-activated atrial cardioversion (CV)
- Atrial ATP with Reactive ATP
- ModeSwitch with Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)
- Atrial Rate Stabilization (ARS)

ADDITIONAL PACING FEATURES

- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Leadless ECG

*Subject to availability

NOTE: This is not intended to be a full product description. For full description, refer to the Device Specification Sheet and/or Manual.

Model	DTMB2D1	DTMB2D4
M (g)	80	80
V (cc)	35	35
Size (mm) (HxWxD)	71 x 51 x 13	73 x 51 x 13
Connector	IS-1 / DF-1	IS-1 / DF-4
Max Program. / Delivered Energy (J)	35 / 36	

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



COMPIA MRI™ QUAD CRT-D SURESCAN™

CRT DEFIBRILLATORS (CRT-D)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- TherapyGuide
- Capture Management (RA, RV and LV)
- Auto-adjusting sensitivity (RA and RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity
- Wireless telemetry

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing and pacing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – PR Logic, Wavelet, Stability, Onset
- PR Logic and Wavelet programmable to discriminate SVT in VF zone

HEART FAILURE (HF) MANAGEMENT

Pacing therapies and algorithms to help manage heart failure.

- CardioSync Optimization Test
- VectorExpress LV Automated Test
- 16 LV pacing vectors with Quadripolar LV lead
- Ventricular Sense Response (VSR)
- Managed Ventricular Pacing (MVP)
- Atrial Tracking Recovery (ATR)
- OptiVol 2.0
- Heart Failure Risk Stratification (TriageHF)*

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- ModeSwitch with Post Mode Switch overdrive Pacing (PMOP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)

ADDITIONAL PACING FEATURES

- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS Quick Look II

- Cardiac Compass Trends
- Heart Failure Management Report
- Leadless ECG

*Subject to availability

Model	DTMC2QQ (Quad)
M (g)	81
V (cc)	35
Size (mm) (HxWxD)	74 x 51 x 13
Connector	IS-1 / IS-4 / DF-4
Max Program. / Delivered Energy (J)	35 / 36

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



COMPIA MRI™ CRT-D

SURESCAN™

CRT DEFIBRILLATORS (CRT-D)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- TherapyGuide
- Capture Management (RA, RV and LV)
- Auto-adjusting sensitivity (RA and RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity
- Wireless telemetry

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing and pacing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – PR Logic, Wavelet, Stability, Onset
- PR Logic and Wavelet programmable to discriminate SVT in VF zone

HEART FAILURE (HF) MANAGEMENT

Pacing therapies and algorithms to help manage heart failure.

- CardioSync Optimization Test
- Ventricular Sense Response (VSR)
- Managed Ventricular Pacing (MVP)
- Atrial Tracking Recovery (ATR)
- OptiVol 2.0
- Heart Failure Risk Stratification (TriageHF)*

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- ModeSwitch with Post Mode Switch overdrive Pacing (PMOP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)

ADDITIONAL PACING FEATURES

- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Leadless ECG

*Subject to availability

Model	DTMC2D1	DTMC2D4
M (g)	80	80
V (cc)	35	35
Size (mm) (HxWxD)	71 x 51 x 13	71 x 51 x 13
Connector	IS-1 / DF-1	IS-1 / DF-4
Max Program. / Delivered Energy (J)	35 / 36	

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan lead:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



VIVA™ QUAD XT CRT-D

CRT DEFIBRILLATORS (CRT-D)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- TherapyGuide
- Capture Management (RA, RV and LV)
- Auto-adjusting sensitivity (RA and RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity
- Wireless telemetry

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing and pacing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – PR Logic, Wavelet, Stability, Onset
- PR Logic and Wavelet programmable to discriminate SVT in VF zone

HEART FAILURE (HF) MANAGEMENT

Pacing therapies and algorithms to help manage heart failure.

- AdaptivCRT
- CardioSync Optimization Test
- VectorExpress LV Automated Test
- 16 LV pacing vectors with Quadripolar LV lead
- Ventricular Sense Response (VSR)
- Atrial Tracking Recovery (ATR)
- OptiVol 2.0
- Heart Failure Risk Stratification (TriageHF)*

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

Automatic and Patient-activated atrial cardioversion (CV)

- Atrial ATP with Reactive ATP
- ModeSwitch with Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)
- Atrial Rate Stabilization (ARS)

ADDITIONAL PACING FEATURES

- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Leadless ECG

*Subject to availability

Model	DTBA2Q1 (Quad)	DTBA2QQ (Quad)
M (g)	82	81
V (cc)	36	35
Size (mm) (HxWxD)	74 x 51 x 13	74 x 51 x 13
Connector	IS-1 / IS-4 / DF-1	IS-1 / IS-4 / DF-4
Max Program. / Delivered Energy (J)	35 / 36	



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



VIVA™ XT CRT-D

CRT DEFIBRILLATORS (CRT-D)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- TherapyGuide
- Capture Management (RA, RV and LV)
- Auto-adjusting sensitivity (RA and RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity
- Wireless telemetry

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing and pacing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – PR Logic, Wavelet, Stability, Onset
- PR Logic and Wavelet programmable to discriminate SVT in VF zone

HEART FAILURE (HF) MANAGEMENT

Pacing therapies and algorithms to help manage heart failure.

- AdaptivCRT
- CardioSync Optimization Test
- 4 LV pacing vectors
- Ventricular Sense Response (VSR)
- Atrial Tracking Recovery (ATR)
- OptiVol 2.0
- Heart Failure Risk Stratification (TriageHF)*

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- Automatic and Patient-activated atrial cardioversion (CV)
- Atrial ATP with Reactive ATP
- ModeSwitch with Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)
- Atrial Rate Stabilization (ARS)

ADDITIONAL PACING FEATURES

- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Leadless ECG

**Subject to availability*

Model	DTBA2D1	DTBA2D4
M (g)	80	80
V (cc)	35	35
Size (mm) (HxWxD)	71 x 51 x 13	73 x 51 x 13
Connector	IS-1 / DF-1	IS-1 / DF-4
Max Program. / Delivered Energy (J)	35 / 36	



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



VIVA™ QUAD S CRT-D

CRT DEFIBRILLATORS (CRT-D)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- TherapyGuide
- Capture Management (RA, RV and LV)
- Auto-adjusting sensitivity (RA and RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity
- Wireless telemetry

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing and pacing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – PR Logic, Wavelet, Stability, Onset
- PR Logic and Wavelet programmable to discriminate SVT in VF zone

HEART FAILURE (HF) MANAGEMENT

Pacing therapies and algorithms to help manage heart failure.

- CardioSync Optimization Test
- VectorExpress LV Automated Test
- 16 LV pacing vectors with Quadripolar LV lead
- Ventricular Sense Response (VSR)
- Atrial Tracking Recovery (ATR)
- OptiVol 2.0
- Heart Failure Risk Stratification (TriageHF)*

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- Automatic and Patient-activated atrial cardioversion (CV)
- Atrial ATP with Reactive ATP
- ModeSwitch with Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)
- Atrial Rate Stabilization (ARS)

ADDITIONAL PACING FEATURES

- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Leadless ECG

*Subject to availability

Model	DTBB2QQ (Quad)
M (g)	81
V (cc)	35
Size (mm) (HxWxD)	74 x 51 x 13
Connector	IS-1 / IS-4 / DF-1
Max Program. / Delivered Energy (J)	35 / 36



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



VIVA™ S CRT-D

CRT DEFIBRILLATORS (CRT-D)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- TherapyGuide
- Capture Management (RA, RV and LV)
- Auto-adjusting sensitivity (RA and RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity
- Wireless telemetry

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing and pacing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – PR Logic, Wavelet, Stability, Onset
- PR Logic and Wavelet programmable to discriminate SVT in VF zone

HEART FAILURE (HF) MANAGEMENT

Pacing therapies and algorithms to help manage heart failure.

- CardioSync Optimization Test
- 4 LV pacing vectors
- Ventricular Sense Response (VSR)
- Atrial Tracking Recovery (ATR)
- OptiVol 2.0
- Heart Failure Risk Stratification (TriageHF)*

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- Automatic and Patient-activated atrial cardioversion (CV)
- Atrial ATP with Reactive ATP
- ModeSwitch with Post Mode Switch overdrive Pacing (PMOP)
- Atrial Preference Pacing (APP)
- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)
- Atrial Rate Stabilization (ARS)

ADDITIONAL PACING FEATURES

- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- Rate Drop Response with 2 detection algorithms
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Heart Failure Management Report
- Leadless ECG

**Subject to availability*

Model	DTBB2D1	DTBB2D4
M (g)	80	80
V (cc)	35	35
Size (mm) (HxWxD)	71 x 51 x 13	73 x 51 x 13
Connector	IS-1 / DF-1	IS-1 / DF-4
Max Program. / Delivered Energy (J)	35 / 36	



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



BRAVA™ QUAD CRT-D

CRT DEFIBRILLATORS (CRT-D)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- TherapyGuide
- Capture Management (RA, RV and LV)
- Auto-adjusting sensitivity (RA and RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity
- Wireless telemetry

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ATP Before and During Charging with ChargeSaver
- Smart Mode
- Programmable RV sensing and pacing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- SVT Discriminators – PR Logic, Wavelet, Stability, Onset
- PR Logic and Wavelet programmable to discriminate SVT in VF zone

HEART FAILURE (HF) MANAGEMENT

Pacing therapies and algorithms to help manage heart failure.

- CardioSync Optimization Test
- VectorExpress LV Automated Test
- 16 LV pacing vectors with Quadripolar LV lead
- Ventricular Sense Response (VSR)
- Atrial Tracking Recovery (ATR)

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)

ADDITIONAL PACING FEATURES

- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Leadless ECG

Model	DTBC2Q1 (Quad)	DTBC2QQ (Quad)
M (g)	82	81
V (cc)	36	35
Size (mm) (HxWxD)	74 x 51 x 13	74 x 51 x 13
Connector	IS-1 / IS-4 / DF-1	IS-1 / IS-4 / DF-4
Max Program. / Delivered Energy (J)	35 / 36	



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



BRAVA™ CRT-D

CRT DEFIBRILLATORS (CRT-D)

COMPLETELY AUTOMATIC – SIMPLE TO USE

Continuously adapts key device parameters to ensure the therapies are optimized.

- TherapyGuide
- Capture Management (RA, RV and LV)
- Auto-adjusting sensitivity (RA and RV)
- CareAlert sounds incl. Lead Integrity Alert (LIA)
- CareLink connectivity
- Wireless telemetry

VT/VF MANAGEMENT

Therapies and algorithms to help manage ventricular tachyarrhythmias.

- Ventricular cardioversion/defibrillation
- Ventricular antitachycardia pacing (ATP)
- ChargeSaver with ATP Before and During Charging
- Smart Mode
- Programmable RV sensing and pacing polarity
- Programmable HV shocking vectors
- 3 detection zones allowing VF and FVT zone overlap
- T-Wave and RV Lead Noise Discriminators
- Confirmation+
- PR Logic and Wavelet programmable to discriminate SVT in VF zone

HEART FAILURE (HF) MANAGEMENT

Pacing therapies and algorithms to help manage heart failure.

- CardioSync Optimization Test
- 4 LV pacing vectors
- Ventricular Sense Response (VSR)
- Atrial Tracking Recovery (ATR)

AT/AF MANAGEMENT

Therapies and algorithms to help manage atrial tachyarrhythmias.

- Conducted AF Response (CAFR)
- Non-competitive Atrial Pacing (NCAP)

ADDITIONAL PACING FEATURES

- PVC Response
- Ventricular Safety Pacing (VSP)
- Ventricular Rate Stabilization (VRS)
- Dual Zone Rate Response Pacing with Rate Profile Optimization

DIAGNOSTICS

- Quick Look II
- Cardiac Compass Trends
- Leadless ECG

Model	DTBC2D1	DTBC2D4
M (g)	80	80
V (cc)	35	35
Size (mm) (HxWxD)	71 x 51 x 13	73 x 51 x 13
Connector	IS-1 / DF-1	IS-1 / DF-4
Max Program. / Delivered Energy (J)	35 / 36	



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



IPG LEADS AND SYSTEMS



CAPSURE SENSE MRI™

SURESCAN™

PACING LEADS AND DELIVERY SYSTEMS

GENERAL

- Steroid eluting
- Lengths for 4574: 45, 53 (cm)
- Lengths for 4074: 52, 58 (cm)

CONNECTOR

- IS1 Bipolar

DIAMETER

- Body: 1.8 mm (5.3 Fr)

ELECTRODES

- Porous Ring Shape
- Electrode Surface Area
 - Tip: 2.5 mm²
 - Ring: 24.0 mm²
- Tip-to-Ring Spacing for 4574: 9 mm
- Tip-to-Ring Spacing for 4074: 17 mm

MATERIAL

- Insulator: Polyurethane (outer 55D), Silicone (inner)
- Conductor: MP35N Nickel Alloy
- Tip Electrode: Platinum/Iridium with porous Titanium Nitride coating
- Ring Electrode: Platinum Alloy with porous Titanium Nitride coating

STYLETS WITH 4574

- Inserted
 - 1 gray straight
- Packaged
 - 2 purple straight

STYLETS WITH 4074

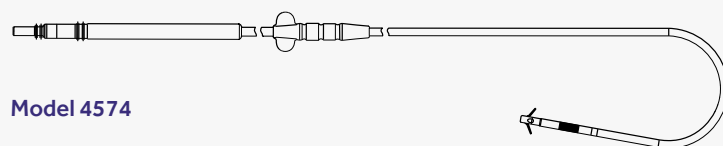
- Inserted
 - 1 gray straight
- Packaged
 - 1 gray straight
 - 2 purple straight

Model	4574	4074
Fixation	Passive / Tines	
Shape Chambers	J-shaped RA	Straight RV
Polarity	Bipolar	
Insulation	Polyurethane	
Introducer Size with/out Guidewire (Fr)	7.0 / 9.0	

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan cardiac device:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



Model 4574



Model 4074

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



CAPSUREFIX NOVUS MRI®

SURESCAN™

PACING LEADS AND DELIVERY SYSTEMS

GENERAL

- Steroid eluting
- Standard Lengths: 45, 52, 58, 65, 85 (cm)

CONNECTOR

- IS1 Bipolar

DIAMETER

Body: 1.9 mm (5.7 Fr)

ELECTRODES

- Extendable/Retractable Helix Screw
- Helix Length: 1.8 mm
- Electrode Surface Area
 - Helix: 4.2 mm²
 - Ring: 22.0 mm²
- Tip-to-Ring Spacing: 10.0 mm

MATERIAL

- Insulator: Polyurethane (outer 55D), Silicone with Siloxane® treatment (inner)
- Conductor: MP35N Nickel Alloy
- Helix Electrode: Platinum Alloy with porous Titanium Nitride coating
- Ring Electrode: Platinum Alloy with porous Titanium Nitride coating
- Connector Ring: Stainless steel
- Connector Pin: Stainless steel

STYLETS

- Inserted
 - 1 gray straight
- Packaged
 - 1 gray straight
 - 1 blue straight
 - 1 gray J-shaped*
 - 1 blue J-shaped*
 - 1 white J-shaped*

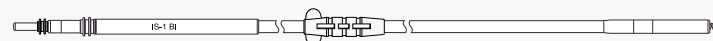
* Not available for leads 65 or 85 cm

Model	4076
Fixation	Active/ Screw-in
Shape / Chambers	Straigh / RA and RV
Polarity	Bipolar
Insulation	Polyurethane
Introducer Size with/out Guidewire (Fr)	7.0 / 9.0

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan cardiac device:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



Model 4076

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



CAPSUREFIX NOVUS MRI®

SURESCAN™

PACING LEADS AND DELIVERY SYSTEMS

GENERAL

- Steroid eluting
- Standard Lengths: 35, 45, 52, 58, 65, 85 (cm)

CONNECTOR

- IS1 Bipolar

DIAMETER

- Body: 2.0 mm (6.1 Fr)

ELECTRODES

- Extendable/Retractable Helix Screw
- Helix Length: 1.8 mm
- Electrode Surface Area
 - Helix: 4.2 mm²
 - Ring: 22.0 mm²
- Tip-to-Ring Spacing: 10.0 mm

MATERIAL

- Insulator: Silicone with Siloxane® treatment (inner)
- Conductor: MP35N Nickel Alloy
- Helix Electrode: Platinized Platinum Alloy
- Ring Electrode: Platinized Platinum Alloy
- Connector Ring: Stainless steel
- Connector Pin: Stainless steel

STYLETS

- Inserted
 - 1 gray straight
- Packaged
 - 1 gray straight
 - 1 blue straight
 - 1 gray J-shaped*
 - 1 blue J-shaped*
 - 1 white J-shaped*

* Not available for leads 65 or 85 cm

Model	5076
Fixation	Active/ Screw-in
Shape / Chambers	Straigh / RA and RV
Polarity	Bipolar
Insulation	Silicone
Introducer Size with/out Guidewire (Fr)	7.0 / 9.0

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan cardiac device:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



Model 5076

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



SELECTSECURE® MRI

SURESCAN™

PACING LEADS AND DELIVERY SYSTEMS

GENERAL

- Steroid eluting
- Standard Lengths: 59, 69, 74 (cm)

CONNECTOR

- IS1 Bipolar

DIAMETER

- Body: 1.4 mm (4.1 Fr)

ELECTRODES

- Fixed Screw
- Helix Length: 1.8 mm
- Electrode Surface Area
 - Helix: 3.56 mm²
 - Ring: 16.9 mm²
- Tip-to-Ring Spacing: 9.0 mm

RECOMMENDED GUIDE CATHETER*

- C315 or C304

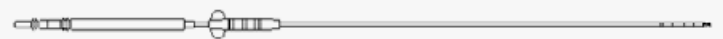
*Not included in the package – to be ordered separately

Model	3830
Fixation	Active/ Screw-in
Shape / Chambers	Straigh / RA and RV
Polarity	Bipolar
Insulation	Polyurethane
Introducer Size with/out Guidewire	5.5 Fr Inner Diameter

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan cardiac device:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



Model 3830

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



SELECTSITE®

DEFLECTABLE CATHETER

PACING LEADS AND DELIVERY SYSTEMS

GENERAL

- Deflectable guide catheters for SelectSecure® Model 3830 leads

DEFLECTABLE CATHETER

- Material: Polyether block amide

CATHETER DILATOR

- Material: Polyethylene
- Outer diameter: 1.85 mm (5.6 Fr)

GUIDE WIRE

- Material: Stainless steel
- Length: 120 cm
- Diameter: 0.09 cm, 0.035 in

INTRODUCER VALVE

- Material: Silicone
- Inner diameter: 9 Fr max

UNIVERSAL II SLITER

- Blade Material: Stainless steel
- Handle Material: Polycarbonate

NEEDLE (not included into C304-HIS package)

- 18 gauge, 1.2 mm

SYRINGE (not included into C304-HIS package)

- 12 cc

Model	C304 -HIS	C304S 59	C304L 69	C304XL 74
Description	Deflectable + preshaped		Deflectable	
Length	43 cm	30 cm	40 cm	45 cm
Compatible Lead	3830-59, 69,74	3830-59	3830-69	3830-74
Inner Diameter (mm (Fr))		1.9 (5.7)		
Outer Diameter (mm (Fr))		2.8 (8.4)		



Model C304S59, C304L69, C304XL74



Model C304-HIS

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



C315

CATHETER

PACING LEADS AND DELIVERY SYSTEMS

GENERAL

- Fixed shape guide catheters for SelectSecure® Model 3830 leads
- Package includes only catheter and dilator
- Package does not include introducer, guide wire, slitter, needle nor syringe
- To be ordered separately
- Use of introducer is optional – C315 catheter and dilator can be produced directly into the vein

CATHETER DILATOR

- Material: Polyether block amide
- Integrated valve
- In-line hub
- Hydrophilic coating
- Compatible with a 7 Fr Introducer
- Compatible with:
 - Universal II slitter 6230 UNI (to be ordered separately)
 - Adjustable slitter 6232 ADJ (to be ordered separately)

DILATOR

- Compatible with a 0.038" guide wire

Model	C315H20	C315J	C315S4	C315S5
Description	Fixed shape			
Length (cm)	20	30	30	30
Compatible Lead	for 49 cm or longer 3830 leads	for 59 cm or longer 3830 leads		
Inner Diameter (mm (Fr))	1.8 (5.4)			
Outer Diameter (mm (Fr))	2.4 (7.0)			

Model	C315S10	C315H40	C315HIS
Description	Fixed shape		
Length (cm)	40	40	43
Compatible Lead	for 69 cm or longer 3830 leads		
Inner Diameter (mm (Fr))	1.8 (5.4)		
Outer Diameter (mm (Fr))	2.4 (7.0)		



Model S4

Model S5

Model S10



Model J

Model H20

Model H40

Model HIS

NOTE: This is not intended to be a full product description. For full description, refer to the Device Specification Sheet and/or Manual.



CAPSURE® EPI

PACING LEADS AND DELIVERY SYSTEMS

GENERAL

- Steroid eluting
- Lengths for 4965: 25, 35, 50 (cm)
- Lengths for 4968: 25, 35, 60 (cm)

CONNECTOR

- IS1 Unipolar (4965)
- IS1 Bipolar (4968)

DIAMETER

- Body for 4965: 1.5 mm (4.5 Fr)
- Body for 4968: 2.5 mm (8.0 Fr)

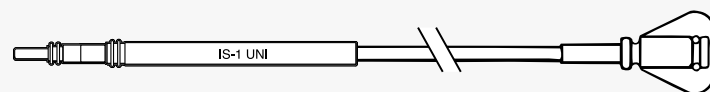
ELECTRODES

- Hemispherical, Platinized, Porous
- Electrode Surface Area for 4965
 - Cathode: 14 mm²
- Electrode Surface Area for 4968
 - Cathode: 6 mm²
 - Anode: 14 mm²

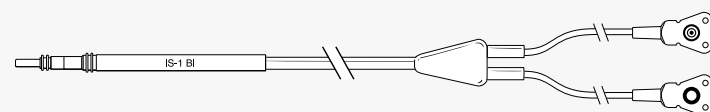
MATERIAL

- Insulator: Silicone
- Conductor: MP35N Nickel Alloy
- Electrode: Platinized Platinum

Model	4965	4968
Fixation	Sutured / Epicardial	
Shape / Chambers	RA and RV	
Polarity	Unipolar	Bipolar
Insulation	Silicone	



Model 4965



Model 4968

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



SCREW-IN

PACING LEADS AND DELIVERY SYSTEMS

GENERAL

- Lengths: 25, 35, 53 (cm)

CONNECTOR

- IS1 Unipolar

DIAMETER

- Body: 2.2 mm (6.5 Fr)

ELECTRODES

- Helical Screw
- Helix Length: 1.8 mm²
- Electrode Surface Area
 - Cathode: 6.6 mm²

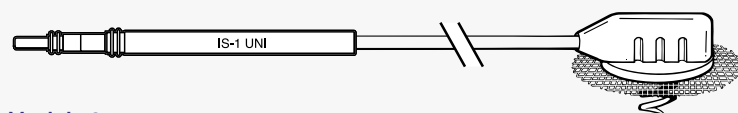
MATERIAL

- Insulator: Silicone
- Conductor: MP35N Nickel Alloy
- Electrode: Platinized Alloy

EPICARDIAL IMPLANT TOOL 10626 – SOLD SEPARATELY

- Device Length
 - Overall: 350 mm
 - Shaft: 180 mm
- Shaft Angle: 65°
- Material
 - Acetal resin and stainless steel

Model	5071
Fixation	Screw-in / Epicardial
Shape / Chambers	RV
Polarity	Unipolar
Insulation	Silicone



Model 5071

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



DEFIBRILLATION LEADS AND DELIVERY SYSTEMS



SPRINT QUATTRO[®] MRI

SURESCAN[™]

DEFIBRILLATION LEADS AND DELIVERY SYSTEMS

GENERAL

- Steroid eluting
- Standard Length: for 6946M: 55, 62 (cm)

DIAMETER

- Body: 2.8 mm (8.6 Fr)

ELECTRODES

- Electrode Surface Area
 - Tip: 2.5 mm²
 - Ring: 25.2 mm²
 - RV Coil: 614 mm²
 - SVC Coil: 860 mm²
- Electrode Lengths
 - RV Coil: 57 mm
 - SVC Coil: 80 mm
- Tip-to-Ring Spacing: 8 mm
- Tip-to-RVCoil Spacing: 12 mm

MATERIAL

- Insulator: Silicone, PTFE, ETFE
- Conductors: MP35N
- Tubing Design: Multilumen with Compression Lumens
- Tip and Ring Electrodes: Sintered (Tip) Platinum/Iridium alloy with Titanium Nitride (TiN) coating
- RV/SVC coils: Platinum-clad Tantalum

STYLETS

- Inserted
 - 1 purple straight
- Packaged
 - 2 purple straight
 - 2 gray straight

Model	6946M
Fixation	Passive / Tines
Polarity	Quadripolar
Defibrillation Coils	RV / SVC
Connectors	1x DF4
Insulation	Silicone
Introducer Size without/with Guidewire (Fr)	9.0 / 11

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan cardiac device:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



Model 6946M

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



SPRINT QUATTRO®

DEFIBRILLATION LEADS AND DELIVERY SYSTEMS

GENERAL

- Steroid eluting
- Standard Length: for 6946M: 72 (cm)

DIAMETER

- Body for 6946M: 2.8 mm (8.6 Fr)

ELECTRODES

- Electrode Surface Area
 - Tip: 2.5 mm²
 - Ring: 25.2 mm²
 - RV Coil: 614 mm²
 - SVC Coil: 860 mm²
- Electrode Lengths
 - RV Coil: 57 mm
 - SVC Coil: 80 mm
- Tip-to-Ring Spacing: 8 mm
- Tip-to-RVCoil Spacing: 12 mm

MATERIAL

- Insulator: Silicone, PTFE, ETFE
- Conductors: MP35N
- Tubing Design: Multilumen with Compression Lumens
- Tip and Ring Electrodes: Sintered (Tip) Platinum/Iridium alloy with Titanium Nitride (TiN) coating
- RV/SVC coils: Platinum-clad Tantalum

STYLETS

- Inserted
 - 1 purple straight
- Packaged
 - 2 purple straight
 - 2 gray straight

Model	6946M
Fixation	Passive / Tines
Polarity	Quadripolar
Defibrillation Coils	RV / SVC
Connectors	1x DF4
Insulation	Silicone
Introducer Size without/with Guidewire (Fr)	9.0 / 11



Model 6946M

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



SPRINT QUATTRO SECURE S MRI™

SURESCAN™

DEFIBRILLATION LEADS AND DELIVERY SYSTEMS

GENERAL

- Steroid eluting
- Lengths for 6935: 58, 65 (cm)
- Lengths for 6935M: 55, 62 (cm)

DIAMETER

- Body: 2.8 mm (8.6 Fr)

ELECTRODES

- Electrode Surface Area
 - Tip: 5.7 mm²
 - Ring: 25.2 mm²
 - RV Coil: 614 mm²
- Electrode Lengths
 - RV Coil: 57 mm
- Tip-to-Ring Spacing: 8 mm
- Tip-to-RVCoil Spacing: 12 mm

MATERIAL

- Insulator: Silicone, PTFE, ETFE
- Conductors: MP35N
- Tubing Design: Multilumen with Extra Lumens
- Tip and Ring Electrodes: Platinized platinum alloy
- RV coil: Platinum-clad Tantalum

STYLETS

- Inserted
 - 1 purple straight
- Packaged
 - 2 purple straight
 - 2 gray straight

Model	6935	6935M
Fixation	Active/ Screw-in	
Polarity	Tripolar	
Defibrillation Coils	RV	
Connectors	1x IS1 1 x DF1	1x DF4
Insulation	Silicone	
Introducer Size without/with Guidewire (Fr)	9.0 / 11	

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan cardiac device:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



Model 6935



Model 6935M

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



SPRINT QUATTRO SECURE S®

DEFIBRILLATION LEADS AND DELIVERY SYSTEMS

GENERAL

- Steroid eluting
- Lengths for 6935: 52, 75, 100 (cm)
- Lengths for 6935M: 49, 72, 97 (cm)

DIAMETER

- Body: 2.8 mm (8.6 Fr)

ELECTRODES

- Electrode Surface Area
 - Tip: 5.7 mm²
 - Ring: 25.2 mm²
 - RV Coil: 614mm²
- Electrode Lengths
 - RV Coil: 57 mm
- Tip-to-Ring Spacing: 8 mm
- Tip-to-RVCoil Spacing: 12 mm

MATERIAL

- Insulator: Silicone, PTFE, ETFE
- Conductors: MP35N
- Tubing Design: Multilumen with Extra Lumens
- Tip and Ring Electrodes: Platinized platinum alloy
- RV coil: Platinum-clad Tantalum

STYLETS

- Inserted
 - 1 purple straight
- Packaged
 - 2 purple straight
 - 2 gray straight

Model	6935	6935M
Fixation	Active/ Screw-in	
Polarity	Tripolar	
Defibrillation Coils	RV	
Connectors	1x IS1 1 x DF1	1x DF4
Insulation	Silicone	
Introducer Size without/with Guidewire (Fr)	9.0 / 11	



Model 6935



Model 6935M

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



SPRINT QUATTRO SECURE MRI™

SURESCAN™

DEFIBRILLATION LEADS AND DELIVERY SYSTEMS

GENERAL

- Steroid eluting
- Lengths for 6947: 58, 65 (cm)
- Lengths for 6947M: 55, 62 (cm)

DIAMETER

- Body: 2.8 mm (8.6 Fr)

ELECTRODES

- Electrode Surface Area
 - Tip: 5.7 mm²
 - Ring: 25.2 mm²
 - RV Coil: 614mm²
 - SVC Coil: 860mm²
- Electrode Lengths
 - RV Coil: 57 mm
 - SVC Coil: 80 mm
- Tip-to-Ring Spacing: 8 mm
- Tip-to-RVCoil Spacing: 12 mm

MATERIAL

- Insulator: Silicone, PTFE, ETFE
- Conductors: MP35N
- Tubing Design: Multilumen with Extra Lumens
- Tip and Ring Electrodes: Platinized platinum alloy
- RV/SVC coil: Platinum-clad Tantalum

STYLETS

- Inserted
 - 1 purple straight
- Packaged
 - 2 purple straight
 - 2 gray straight

Model	6947	6947M
Fixation	Active/ Screw-in	
Polarity	Quadripolar	
Defibrillation Coils	RV/SVC	
Connectors	1x IS1 2x DF1	1x DF4
Insulation	Silicone	
Introducer Size without/with Guidewire (Fr)	9.0 / 11	

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan cardiac device:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



Model 6947



Model 6947M

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



SPRINT QUATTRO SECURE®

DEFIBRILLATION LEADS AND DELIVERY SYSTEMS

GENERAL

- Steroid eluting
- Lengths for 6947: 75, 100 (cm)
- Lengths for 6947M: 72, 97 (cm)

DIAMETER

- Body: 2.8 mm (8.6 Fr)

ELECTRODES

- Electrode Surface Area
 - Tip: 5.7 mm²
 - Ring: 25.2 mm²
 - RV Coil: 614 mm²
 - SVC Coil: 860 mm²
- Electrode Lengths
 - RV Coil: 57 mm
 - SVC Coil: 80 mm
- Tip-to-Ring Spacing: 8 mm
- Tip-to-RVCoil Spacing: 12 mm

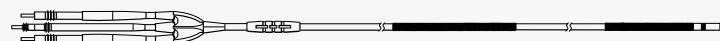
MATERIAL

- Insulator: Silicone, PTFE, ETFE
- Conductors: MP35N
- Tubing Design: Multilumen with Extra Lumens
- Tip and Ring Electrodes : Platinized platinum alloy
- RV/SVC coils: Platinum-clad Tantalum

STYLETS

- Inserted
 - 1 purple straight
- Packaged
 - 2 purple straight
 - 2 gray straight

Model	6947	6947M
Fixation	Active/ Screw-in	
Polarity	Quadripolar	
Defibrillation Coils	RV/SVC	
Connectors	1x IS1 2x DF1	1x DF4
Insulation	Silicone	
Introducer Size without/with Guidewire (Fr)	9.0 / 11	



Model 6947



Model 6947M

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



TRANSVENE LEAD

DEFIBRILLATION LEADS AND DELIVERY SYSTEMS

GENERAL

- Standard Length: 50 (cm)

DIAMETER

- Body: 2.5 mm (7.5 Fr)

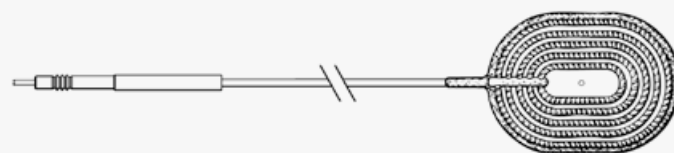
ELECTRODES

- Electrode Surface Area
 - 6721S: 370 mm²
 - 6721M: 660 mm²
 - 6721ML: 840 mm²

MATERIAL

- Insulator: Silicone
- Conductor: Multifilar MP35N Composite
- Electrode Surface: Platinum Alloy

Model	6721S	6721M	6721L
Fixation		Sutures	
Polarity		Unipolar	
Defibrillation Coils		Epi Patch	
Connectors		1x DF1	
Insulation		Silicone	
Introducer Size without/with Guidewire (cm)	3 coils: 5.0 x 8.0	4 coils: 6.1 x 9.1	5 coils: 7.2 x 10.2



Model 6721 (S/M/L)

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



TRANSVENE LEAD

DEFIBRILLATION LEADS AND DELIVERY SYSTEMS

GENERAL

- Standard Lengths: 35, 52, 58, 110 (cm)

DIAMETER

- Body: 1.8 mm (7.5 Fr)

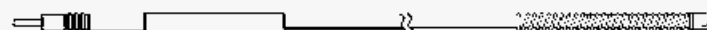
ELECTRODES

- Electrode Surface Area
 - Coil: 160 mm²
- Electrode Length:
 - Coil: 80 mm

MATERIAL

- Insulator: Silicone
- Conductor: Multifilar MP35N Composite
- Electrode Surface: Platinum Alloy

Model	6937
Fixation	N/A
Polarity	Unipolar
Defibrillation Coils	SVC
Connectors	1 x DF1
Insulation	Silicone
Introducer Size without/with Guidewire (Fr)	9.0 / 10.5



Model 6937

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



SUBCUTANEOUS LEAD

DEFIBRILLATION LEADS AND DELIVERY SYSTEMS

GENERAL

- Standard Lengths: 41, 58 (cm)

DIAMETER

- Body: 2.5 mm (7.5 Fr)

ELECTRODES

- Electrode Surface Area
 - Coil: 500 mm²
- Electrode Length:
 - Coil: 250 mm

MATERIAL

- Insulator: Silicone
- Conductor: Multifilar MP35N Composite
- Electrode Surface: Platinum Alloy

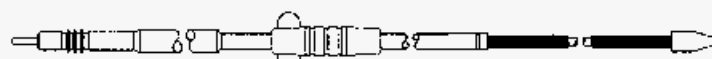
CONTENTS OF STERILE PACKAGE

- 1 Model 6996 SQ Lead (with stylet + stylet guide)
- 2 introducer sheaths 10.5 Fr x 33 cm length
- 2 PTFE split tubings
- 2 slitters

TUNNELING TOOL 6996T – SOLD SEPARATELY

- Device Length
 - Overall: 421 mm
 - Tunneling: 338 mm
- Material
 - Stainless Steel
- Tunneling Diameter: 3.1 mm

Model	6996SQ
Fixation	Sutures on Anchoring Sleeve
Polarity	Unipolar
Defibrillation Coils	Subcutaneous
Connectors	1 x DF1
Insulation	Silicone
Introducer Size without/with Guidewire (Fr)	10.5 x 33 cm Length



Model 6996SQ

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



LEFT-HEART LEADS AND DELIVERY SYSTEMS



ATTAIN ABILITY™ MRI

SURESCAN™

LEFT-HEART LEADS AND DELIVERY SYSTEMS

GENERAL

- Steroid eluting on all electrodes
- Standard Lengths: 78, 88 (cm)

CONNECTOR

- IS1 Bipolar

DIAMETER

- Body: 1.3 mm (4.0 Fr)

ELECTRODES

- Dual electrode, 21 mm spacing
- Electrode Surface Area
 - Tip: 5.8 mm²
 - Ring: 5.8 mm²

MATERIAL

- Insulator: Polyurethane-outer, SI-Polyimide-inner
- Conductor: SI-PI coated 25% Ag-core-MP35N
- Tip Electrode: Platinum/Iridium with Titanium Nitride coating
- Ring Electrode: Platinum/Iridium with Titanium Nitride coating
- Connector Pin: Stainless Steel
- Connector Ring: Stainless Steel

RECOMMENDED GUIDE WIRE

- Diameter: 0.014 to 0.018 in
- Attain Hybrid GWR419678, Purple knob, 98 cm – for 4196-78
- Attain Hybrid GWR419688, Purple knob, 108 cm – for 4196-88

RECOMMENDED STYLET

- Diameter: 0.014 to 0.016 in

ACCESSORIES PACKAGED WITH LEAD

- Lead with Anchoring Sleeve
- Guide Wire Insertion Tool
- Guide Wire Steering Handle
- Guide Wire Clip
- Stylets

STYLETS

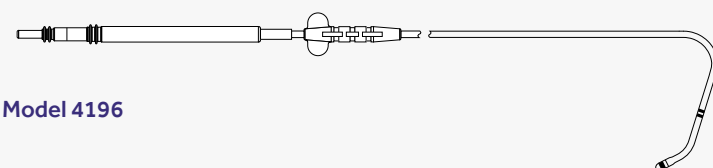
- Packaged
 - 2 gray straight
 - 2 purple straight

Model	4196
Fixation	Preformed Body
Shape / Chambers	Dual Canted / LV
Polarity	Bipolar
Insulation	Polyurethane
Guide Catheter Size (Inner Diameter) (Fr)	5.7

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan cardiac device:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



Model 4196

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



ATTAIN ABILITY™ PLUS MRI

SURESCAN™

LEFT-HEART LEADS AND DELIVERY SYSTEMS

GENERAL

- Steroid eluting on all electrodes
- Standard Lengths: 78, 88 (cm)

CONNECTOR

- IS1 Bipolar

DIAMETER

- Body: 1.77 mm (5.3 Fr)

ELECTRODES

- Dual electrode, 21 mm spacing
- Electrode Surface Area
 - Tip: 5.8 mm²
 - Ring: 5.8 mm²

MATERIAL

- Insulator: Polyurethane-outer, SI-Polyimide-inner
- Conductor: SI-PI coated 25% Ag-core-MP35N
- Tip Electrode: Platinum/Iridium with Titanium Nitride coating
- Ring Electrode: Platinum/Iridium with Titanium Nitride coating
- Connector Pin: Stainless Steel
- Connector Ring: Stainless Steel

RECOMMENDED GUIDE WIRE

- Diameter: 0.014 to 0.018 in
- Attain Hybrid GWR419678, Purple knob, 98 cm – for 4296-78
- Attain Hybrid GWR419688, Purple knob, 108 cm – for 4296-88

RECOMMENDED STYLET

- Diameter: 0.014 to 0.016 in

ACCESSORIES PACKAGED WITH LEAD

- Lead with Anchoring Sleeve
- Guide Wire Insertion Tool
- Guide Wire Steering Handle
- Guide Wire Clip
- Stylets

STYLETS

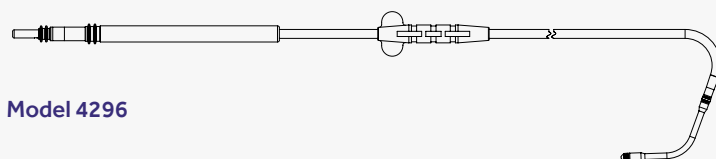
- Packaged
 - 2 gray straight
 - 2 purple straight

Model	4296
Fixation	Preformed Body
Shape / Chambers	Dual Canted / LV
Polarity	Bipolar
Insulation	Polyurethane
Guide Catheter Size (Inner Diameter) (Fr)	5.7

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan cardiac device:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



Model 4296

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



ATTAIN ABILITY™ STRAIGHT MRI SURESCAN™

LEFT-HEART LEADS AND DELIVERY SYSTEMS

GENERAL

- Steroid eluting on all electrodes
- Standard Lengths: 78, 88 (cm)

CONNECTOR

- IS1 Bipolar

DIAMETER

- Body: 1.3 mm (4.0 Fr)

ELECTRODES

- Dual electrode, 21 mm spacing
- Electrode Surface Area
 - Tip: 5.8 mm²
 - Ring: 5.8 mm²

MATERIAL

- Insulator: Polyurethane-outer, SI-Polyimide-inner
- Conductor: SI-PI coated 25% Ag-core-MP35N
- Tip Electrode: Platinum/Iridium with Titanium Nitride coating
- Ring Electrode: Platinum/Iridium with Titanium Nitride coating
- Connector Pin: Stainless Steel
- Connector Ring: Stainless Steel

RECOMMENDED GUIDE WIRE

- Diameter: 0.014 to 0.018 in
- Attain Hybrid GWR419678, Purple knob, 98 cm – for 4396-78
- Attain Hybrid GWR419688, Purple knob, 108 cm – for 4396-88

RECOMMENDED STYLET

- Diameter: 0.014 to 0.018 in

ACCESSORIES PACKAGED WITH LEAD

- Lead with Anchoring Sleeve
- Guide Wire Insertion Tool
- Guide Wire Steering Handle
- Guide Wire Clip
- Stylets

STYLETS

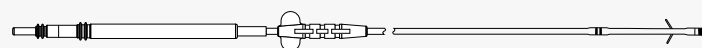
- Packaged
 - 2 gray straight
 - 2 purple straight

Model	4396
Fixation	Tines
Shape / Chambers	Straight / LV
Polarity	Bipolar
Insulation	Polyurethane
Guide Catheter Size (Inner Diameter) (Fr)	5.7

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan cardiac device:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



Model 4396

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



ATTAIN PERFORMA™ MRI

SURESCAN™

LEFT-HEART LEADS AND DELIVERY SYSTEMS

GENERAL

- Steroid eluting on all electrodes
- Standard Lengths: 78, 88 (cm)

CONNECTOR

- IS4-LLLL

DIAMETER

- Body: 1.7 mm (5.3 Fr)

ELECTRODES

- Electrodes Surface Area
 - All: 5.8 mm²
- Distance between electrodes:
 - LV1-LV2: 21 mm
 - LV2-LV3: 1.3 mm
 - LV3-LV4: 21 mm

MATERIAL

- Insulator: Polyurethane-outer, SI-Polyimide-inner
- Conductor: SI-PI coated 25% Ag-core-MP35N
- Tip Electrode: Platinum/Iridium with Titanium Nitride coating
- Ring Electrode: Platinum/Iridium with Titanium Nitride coating
- Connector Pin: MP35N
- Connector Ring: MP35N

RECOMMENDED GUIDE WIRE

- Diameter: 0.014 to 0.018 in
- Attain Hybrid GWR419578, Orange knob, 98 cm – for 4298-78
- Attain Hybrid GWR419488, Orange knob, 108 cm – for 4298-88

ACCESSORIES PACKAGED WITH LEAD

- Lead with Anchoring Sleeve
- Guide Wire Insertion Tool
- Guide Wire Steering Handle
- Guide Wire Clip
- 2 AccuRead 2.0 analyzer cable interface tools
- Stylets

STYLETS

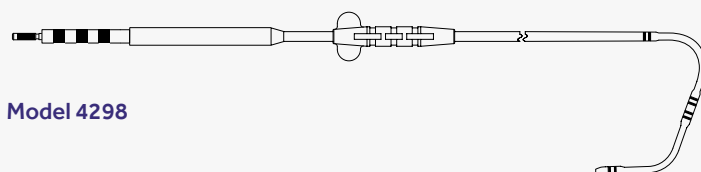
- Packaged
 - 2 gray straight
 - 2 purple straight

Model	4298
Fixation	Preformed Body
Shape / Chambers	Dual Canted/ LV
Polarity	Quadripolar
Insulation	Polyurethane
Guide Catheter Size (Inner Diameter) (Fr)	5.7

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan cardiac device:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



Model 4298

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



ATTAIN PERFORMA™ STRAIGHT MRI SURESCAN™

LEFT-HEART LEADS AND DELIVERY SYSTEMS

GENERAL

- Steroid eluting on all electrodes
- Standard Lengths: 78, 88 (cm)

CONNECTOR

- IS4-LLLL

DIAMETER

- Body: 1.7 mm (5.3 Fr)

ELECTRODES

- Electrodes Surface Area
 - All: 5.8 mm²
- Distance between electrodes:
 - LV1-LV2: 21 mm
 - LV2-LV3: 1.3 mm
 - LV3-LV4: 21 mm

MATERIAL

- Insulator: Polyurethane-outer, SI-Polyimide-inner
- Conductor: SI-PI coated 25% Ag-core-MP35N
- Tip Electrode: Platinum/Iridium with Titanium Nitride coating
- Ring Electrode: Platinum/Iridium with Titanium Nitride coating
- Connector Pin: MP35N
- Connector Ring: MP35N

RECOMMENDED GUIDE WIRE

- Diameter: 0.014 to 0.018 in
- Attain Hybrid GWR419678, Orange knob, 98 cm – for 4398-78
- Attain Hybrid GWR419688, Orange knob, 108 cm – for 4398-88

ACCESSORIES PACKAGED WITH LEAD

- Lead with Anchoring Sleeve
- Guide Wire Insertion Tool
- Guide Wire Steering Handle
- Guide Wire Clip
- 2 AccuRead 2.0 analyzer cable interface tools
- Stylets

STYLETS

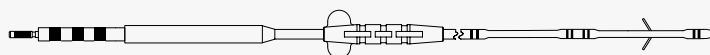
- Packaged
 - 2 gray straight
 - 2 purple straight

Model	4398
Fixation	Tines
Shape / Chambers	Straight/ LV
Polarity	Quadripolar
Insulation	Polyurethane
Guide Catheter Size (Inner Diameter) (Fr)	5.7

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan cardiac device:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



Model 4398

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



ATTAIN PERFORMA™ S MRI

SURESCAN™

LEFT-HEART LEADS AND DELIVERY SYSTEMS

GENERAL

- Steroid eluting on all electrodes
- Standard Lengths: 78, 88 (cm)

CONNECTOR

- IS4-LLLL

DIAMETER

- Body: 1.7 mm (5.3 Fr)

ELECTRODES

- Electrodes Surface Area
 - All: 5.8 mm²
- Distance between electrodes:
 - LV1-LV2: 21 mm
 - LV2-LV3: 1.3 mm
 - LV3-LV4: 21 mm

MATERIAL

- Insulator: Polyurethane-outer, SI-Polyimide-inner
- Conductor: SI-PI coated 25% Ag-core-MP35N
- Tip Electrode: Platinum/Iridium with Titanium Nitride coating
- Ring Electrode: Platinum/Iridium with Titanium Nitride coating
- Connector Pin: MP35N
- Connector Ring: MP35N

RECOMMENDED GUIDE WIRE

- Diameter: 0.014 to 0.018 in
- Attain Hybrid GWR419678, Orange knob, 98 cm – for 4598-78
- Attain Hybrid GWR419688, Orange knob, 108 cm – for 4598-88

ACCESSORIES PACKAGED WITH LEAD

- Lead with Anchoring Sleeve
- Guide Wire Insertion Tool
- Guide Wire Steering Handle
- Guide Wire Clip
- 2 AccuRead 2.0 analyzer cable interface tools
- Stylets

STYLETS

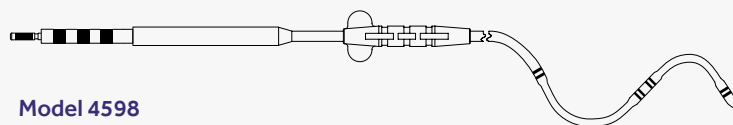
- Packaged
 - 2 gray straight
 - 2 purple straight

Model	4598
Fixation	Preformed Body
Shape / Chambers	S-Shape/ LV
Polarity	Quadripolar
Insulation	Polyurethane
Guide Catheter Size (Inner Diameter) (Fr)	5.7

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan cardiac device:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



ATTAIN STABILITY™ QUAD MRI SURESCAN™

LEFT-HEART LEADS AND DELIVERY SYSTEMS

GENERAL

- Steroid eluting on all electrodes
- Standard Lengths: 78, 88 (cm)

CONNECTOR

- IS4 -LLLL

DIAMETER

- Body: 1.47 mm (4.4 Fr)
- Helix: 1.87 mm (5.6 Fr)

ELECTRODES

- Quadripolar electrode, 21 mm spacing
- Electrodes Surface Area
 - All: 5.8 mm²
 - Ring: 5.8 mm²
- Distance between electrodes:
 - LV1-LV2: 21 mm
 - LV2-LV3: 1.3 mm
 - LV3-LV4: 21 mm
 - LV3 – Helix tip: 10 mm

HELIX

- Fixed, side
- Not electrically active
- Length – ¾ turn exposed length
- Distance from Helix tip to lead body – 0.25 mm
- Helix location – 38.1 mm proximal to tip nose

MATERIAL

- Insulator: Polyurethane-outer, SI-Polyimide-inner
- Conductor: SI-PI coated 25% Ag-core-MP35N
- Tip Electrode: Platinum/Iridium with Titanium Nitride coating
- Ring Electrode: Platinum/Iridium with Titanium Nitride coating
- Helix: Platinum/Iridium alloy
- Connector Pin: MP35N
- Connector Ring: MP35N

RECOMMENDED GUIDE WIRE

- Diameter: 0.014 to 0.018 in
- Attain Hybrid GWR419578, Blue knob, 98 cm
- Attain Hybrid GWR419588, Blue knob, 108 cm

ACCESSORIES PACKAGED WITH LEAD

- Lead with Anchoring Sleeve
- Guide Wire Insertion Tool
- Guide Wire Steering Handle
- Guide Wire Clip
- Stylets

STYLETS

- Packaged
 - 2 gray straight
 - 2 purple straight
 - 2 blue J-shaped

Model	4798
Fixation	Preformed Body with Helix (active fixation)
Shape / Chambers	Canted/ LV
Polarity	Quadripolar
Insulation	Polyurethane
Guide Catheter Size (Inner Diameter) (Fr)	5.7

MRI SureScan

Full Body 1.5 and 3T MRI with any MRI SureScan cardiac device:

- No MRI scan exclusion zone and no scan duration restriction
- MRI scan possible for the entire life of the system
- No Patient size restriction and no condition restrictions (e.g. fever)



Model 4798

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



ATTAIN COMMAND® SUREVALVE™

LEFT-HEART LEADS AND DELIVERY SYSTEMS

GENERAL

- Guide catheters for left-heart delivery
- Compatible transvenous devices:
- Leads 2.1 mm (6.2 Fr) max diameter
- Other devices 2.4 mm (7.1 Fr) max diameter
- Package **does not include** guidewire nor splitter
- To be ordered separately

CATHETER

- Material: Polyether block amide, polyamide 12
- Hydrophilic Coating distal 1/3 of the outer shaft

CATHETER DILATOR

- Material: Polyethylene
- Inner diameter: 0.96 mm (2.8 Fr)
- Outer diameter: 2.4 mm (7.1 Fr)

SUREVALVE INTEGRATED VALVE

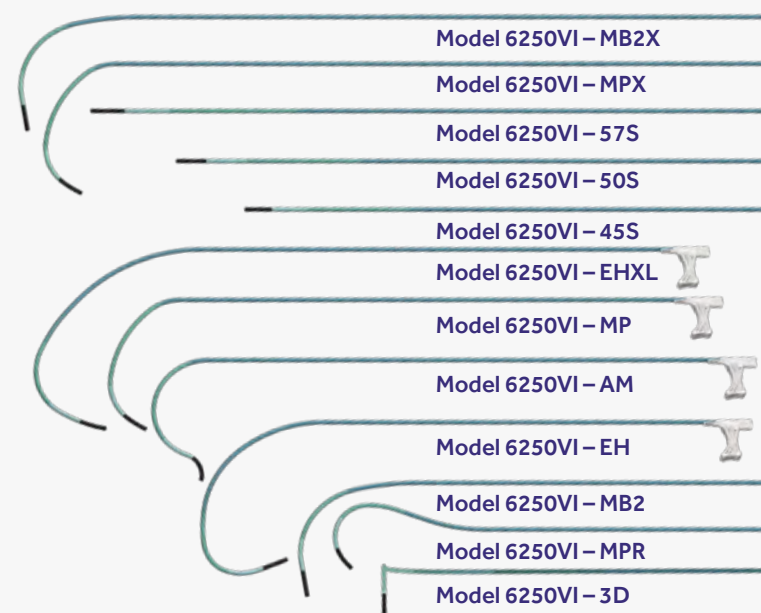
- Material: Polypropylene with SBC overmold

VALVE TOOL

- Material: Polypropylene with SBC overmold

Model	6250VI-45S	6250VI-50S	6250VI-57S	6250VI-AM	6250VI-MB2	6250VI-MB2X
Description	Straight	Straight	Straight	Amplatz	Multi-purpose bend 2	Multi-purpose bend 2 extra
Usable Length (cm)	45	50	57.5	50	45	50
Min. Inner Diameter (Fr)	2.4 (7.2)					
Max. Outer Diameter Proximal / Distal (mm (Fr))	3.0 (9.0) / 2.8 (8.5)					

Model	6250VI-MP	6250VI-MPX	6250VI-MPR	6250VI-EH	6250VI-EXHL	6250VI-3D
Description	Multi-purpose	Multi-purpose extra	Multi-purpose right	Extended hook	Extended hook extra large	3-D (for right-sided implant)
Usable Length (cm)	50	50	45	50	57.5	45
Min. Inner Diameter (mm (Fr))	2.4 (7.2)					
Max. Outer Diameter Proximal / Distal (mm (Fr))	3.0 (9.0) / 2.8 (8.5)					



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



ATTAIN COMMAND[®] SUREVALVE[™] KITS

LEFT-HEART LEADS AND DELIVERY SYSTEMS

GENERAL

- Left-Heart Delivery System with 2 Guide
- Compatible transvenous devices:
 - Leads 2.1 mm (6.2 Fr) max diameter
 - Other devices 2.4 mm (7.1 Fr) max diameter

CATHETER

- Material: Polyether block amide, polyamide 12
- Hydrophilic Coating distal 1/3 of the outer shaft

CATHETER DILATOR

- Material: Polyethylene
- Inner diameter: 0.96 mm (2.8 Fr)
- Outer diameter: 2.4 mm (7.1 Fr)

SUREVALVE INTEGRATED VALVE

- Material: Polypropylene with SBC overmold

VALVE TOOL

- Material: Polypropylene with SBC overmold

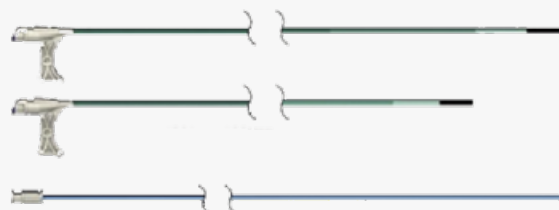
MEDTRONIC UNIVERSAL II 6230UNI SLITTER

- Material: Stainless steel, polycarbonate

GUIDEWIRE

- Material: Stainless steel
- Length: 120 cm
- Diameter: 0.9 cm (0.035 in)

Model	6250VIS	6250VIC
Description	Left-Heart Delivery System Straight Catheter Kit	Left-Heart Delivery System Curved Catheter Kit
Catheters included	6250VI-45S and 6250VI-50S	6250VI-EH and 6250VI-MB2
Minimum Inner Diameter (mm (Fr))	2.4 (7.2)	
Max. Outer Diameter Proximal / Distal (mm (Fr))	3.0 (9.0) / 2.8 (8.5)	



Model 6250VIS



Model 6250VIC

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



ATTAIN SELECT™ II SUREVALVE™

LEFT-HEART LEADS AND DELIVERY SYSTEMS

GENERAL

- Delivery Catheter System for Sub-Selection in a wide variety of patient anatomies
- 7 Fr sub-selection catheters capable of delivering 4 Fr and 5.3 Fr leads directly to vein branches
- Petite Length Attain Select II: 57 cm catheters for 78 cm lead delivery
- Compatible leads:
 - Body max outer diameter: 1.77 mm (5.3 Fr)
 - Electrode tip max outer diameter: 1.88 mm (5.6 Fr)
- Other transvenous compatible devices:
 - Delivery catheter max outer diameter: 1.85 mm (5.5 Fr)
 - Straight Blue Inner Catheter max outer diameter: 0.89 mm (2.7 Fr)
- Package does not include guidewire nor slitter
 - To be ordered separately

CATHETER

- Material: Polyether block amide, polyamide 12

STRAIGHT BLUE INNER CATHETER

- Provides a soft distal tip and increased curve shape control
- Material: Polyether block amide
- Usable length: 80 cm
- Inner diameter: 1.0 mm (3.0 Fr)
- Outer diameter: 1.85 mm (5.5 Fr)

SUREVALVE INTEGRATED VALVE

- Material: Polypropylene with SBC overmold

VALVE TOOL

- Material: Polypropylene with SBC overmold

Model	6248VI-90S	6248VI-90	6248VI-90L	6248VI-130
Description	90° short curved tip	90° curved tip	90° long curved tip	130° curved tip
Usable Length (cm)	65			
Compatible Outer Guide Catheter Max Length (cm)	57.5			
Compatible Lead Min Length (cm)	88			
Inner Diameter (mm (Fr))	1.9 (5.7)			
Outer Diameter (mm (Fr))	2.4 (7.2)			

Model	6248VI-130L	6248VI-90SP	6248VI-90P	6248VI-130P
Description	130° long curved tip	90° short curved tip	90° curved tip	130° curved tip
Usable Length (cm)	65	57 (Petite)	57 (Petite)	57 (Petite)
Compatible Outer Guide Catheter Max Length (cm)	57.5	50		
Compatible Lead Min Length (cm)	88	78		
Inner Diameter (mm (Fr))	1.9 (5.7)			
Outer Diameter (mm (Fr))	2.4 (7.2)			

Model 6248VI – 90SP

Model 6248VI – 90S

Model 6248VI – 130P

Model 6248VI – 130

Model 6248VI – 130L

Model 6248VI – 90P

Model 6248VI – 90

Model 6248VI – 90L

NOTE: This is not intended to be a full product description. For full description, refer to the Device Specification Sheet and/or Manual.



ATTAIN[®]

DEFLECTABLE

LEFT-HEART LEADS AND DELIVERY SYSTEMS

GENERAL

- Deflectable Catheter System for left-heart delivery
- Compatible transvenous devices:
- Leads 2 mm (6 Fr) max diameter

DEFLECTABLE CATHETER

- Material: Polyether block amide

CATHETER DILATOR

- Material: Polyethylene
- Length: 60 cm
- Outer diameter: 2.3 mm (7.0 Fr)

GUIDE WIRE

- Material: Stainless Steel
- Length: 120 cm
- Outer diameter: 0.09 cm (0.035 in)

ADJUSTABLE HEMOSTASIS VALVE

- Inner Diameter: 15 Fr max

MEDTRONIC UNIVERSAL SLITTER 6230UNI

- Material: Stainless steel, polycarbonate

NEEDLE

- Dimensions: 18 gauge, 1.2 mm

SYRINGE

- Volume: 12 cc

Model	6227DEF04
Usable Length	Deflectable
Inner Diameter (cm)	45
Outer Diameter (mm (Fr))	2.4 (7.2)
Insulation (mm (Fr))	3.3 (9.9)



Model 6227DEF04

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



ATTAIN[®]

VENOGRAM BALLOON

LEFT-HEART LEADS AND DELIVERY SYSTEMS

GENERAL

- Venogram balloon catheter for coronary sinus
- Package includes:
 - Venogram balloon catheter
 - 1.25 cc syringe

DIAMETER

- Catheter Body: 1.9 mm

BALLOON

- Max Inflation Capacity: 1.25 cc
- Inflated Balloon Diameter: 10 mm

MATERIAL

- Catheter Body: Polyurethane
- Balloon: Latex

RECOMMENDED GUIDE WIRE

- Diameter: 0.025 in (0.64 mm)

Model	6215
Description	Venogram Balloon Catheter
Usable Length (cm)	80
Guide Catheter Size (Inner Diameter) (Fr)	7.0



restrictions (e.g. fever)

Model 6215

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



MEDTRONIC SLITTERS

LEFT-HEART LEADS AND DELIVERY SYSTEMS

GENERAL

- Slitter for LV guide catheters
- Slit two catheters in the same procedure
- Single use; Disposable

DEFLECTABLE CATHETER

- Handle: Polycarbonate
- Blade: Stainless Steel
- Trigger in 6232ADJ: ABS

Model	6232ADJ	6230UNI
Description	Medtronic Adjustable Slitter	Medtronic Universal II Slitter
Lead Stabilization	Lead mechanically secured in lead channel	Lead secured with thumb pressure

Model 6232ADJ



Model 6230UNI



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



ADJUSTABLE VALVE

LEFT-HEART LEADS AND DELIVERY SYSTEMS

GENERAL

- Adjustable Hemostasis Valve for use with LV delivery systems
- Rotating luer lock for variable positioning of side port
- Hemostatic to 103 kPa (15 PSI)

Model	6248VAL
Description	Medtronic Adjustable Valve
Max. Inner Diameter (Fr)	15



Model 6248VAL

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



ATTAIN HYBRID[®]

GUIDE WIRE

LEFT-HEART LEADS AND DELIVERY SYSTEMS

GENERAL

- Guide wire with stylet features
- Straightens the cants of the Attain OTW leads
- Optimizes lead trackability

DIAMETER

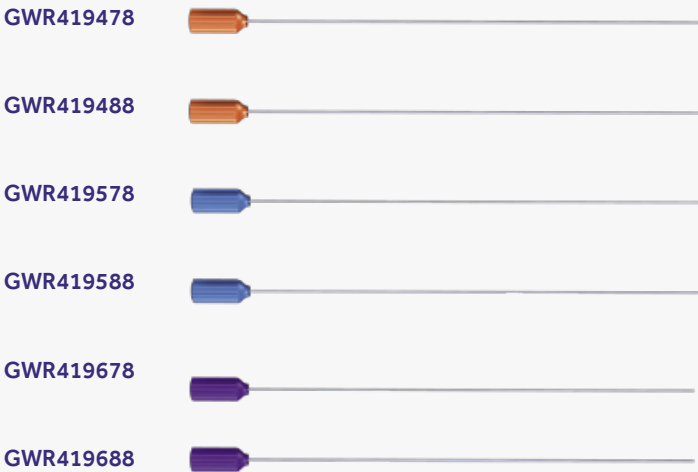
- Body: 0.014 in

MATERIAL

- Core wire: Stainless Steel
- Sleeve: PET
- Coating: Lubricious Pro/Pel[®] silicone

Model	GWR419478	GWR419488	GWR419578
Knob Color	Orange	Orange	Blue
Support			
Length (cm)	98	108	98
Recommended Lead Models	4298, 4398	4298, 4398	4195, 4598
Lead Length (cm)	78	88	78

Model	GWR419588	GWR419678	GWR419688
Knob Color	Blue	Purple	Purple
Support			
Length (cm)	108	98	108
Recommended Lead Models	4195, 4598	4196, 4296, 4396	4196, 4296, 4396
Lead Length (cm)	88	78	88



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



ACCESSORIES



MEDTRONIC STYLETS

ACCESSORIES

GENERAL

- Stylets for use with transvenous leads
- Package includes:
 - 2 straight stylets (sterile)
 - 2 stylet guides (sterile)

MATERIAL

- Wire: Stainless Steel
- Knob: Plastic

Model	6057	6082	6054	6093
Knob Color	Blue	Gray	Rust	Purple
Shape				
Diameter (in)	0.014	0.014	0.016	0.016
Distal End	Ball-tipped	Extended taper, Ball-tipped	Tapered, Ball-tipped	Extended-taper, Ball-tipped
# in kit	2	2	2	2
Lengths (cm)	45, 52, 58, 65, 75, 110	45, 52, 55, 58, 62, 65, 72, 75, 97, 110	45, 52, 53, 58, 65, 75, 85, 110	52, 58, 65, 75, 85, 100

Model	6282*	6052	6091	6094
Knob Color	Gray	White	Gray	Blue
Shape				
Diameter (in)	0.014	0.014	0.014	0.014
Distal End	Extended taper, Ball-tipped	Blunt	Extended taper, Ball-tipped	
# in kit	15	2	2	2
Lengths (cm)	75, 85	45, 53, 58	45, 53, 58, 65	45, 52, 58

* Hemostasis valve compatible (downsized knobs)

NOTE: This is not intended to be a full product description. For full description, refer to the Device Specification Sheet and/or Manual.



PEELABLE

INTRODUCERS

ACCESSORIES

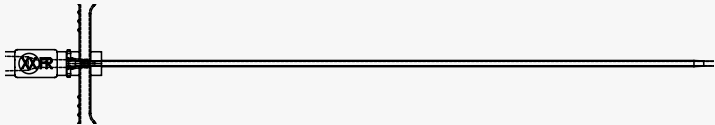
GENERAL

- Peelable Percutaneous Lead Introducers (PLI) for use with transvenous leads

PACKAGE INCLUDES:

- 1 introducer sheath with tapered vessel dilator
- 1 thin-wall needle (18 gauge)
- 1 disposable syringe
- 1 flexible J guide wire with tip straightener:
 - Diameter: 1 mm (0.035 in)
 - Length: 60 cm (23.6 in)

Model	6207-S1	6208-S1	6209-S1	6210-S1	6211-S1	6212-S1	6214-S1
Size (Fr)	7	8	9	10.5	11	12	14
# of kits	1						



Model 62xx-S1

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



SAFESHEATH CSG®

WORLEY BRAIDED CORE INTRODUCERS

ACCESSORIES

GENERAL

- SafeSheath CSG® Worley Braided Core Introducer System for Coronary Sinus Access

PACKAGE INCLUDES:

- 1 tear-away sheath w/side port
- 1 dilator
- 1 needle (18 gauge)
- 1 syringe (12 cc)
- 1 guidewire (135 cm)
- 1 curved guiding core
- 1 transvalvular insertion tool (TVI) (7 Fr)

Model	CSGWORB C19M	CSGWORL BC19M	CSGWORB C29M
Size (Fr)		9	
# of kits		5	
Lenght (cm)	40	50	50



Model CSGWORLBC19M

Model CSGWORBC19M

Model CSGWORBC29M

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



SAFESHEATH CSG®

EXTRUDED CORE INTRODUCERS

ACCESSORIES

GENERAL

- SafeSheath CSG® Worley Braided Core Introducer System for Coronary Sinus Access

PACKAGE INCLUDES:

- 1 tear-away sheath w/side port
- 1 dilator
- 1 needle (18 gauge)
- 1 guidewire (135 cm)
- 1 curved guiding core
- 1 transvalvular insertion tool (TVI) (7 Fr)

Model	CSGWORLEY109M	CSGWORL19M
Size (Fr)	9	
# of kits	5	
Length (cm)	40	50



Model CSGWORLEY109M



Model CSGWORL19M

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



SAFESHEATH II®

LEAD INTRODUCERS

ACCESSORIES

GENERAL

- SafeSheath II® Hemostatic Peel-away Introducer System for Vascular Access with
- low insertion/withdrawal force lubricated valve
- ergonomically-designed, easy-splitting hub
- extruded score line sheath
- infusion side port
- snap-fit dilator

PACKAGE INCLUDES:

- 1 tear-away sheath w/side port
- 1 dilator
- 1 needle (18 gauge)
- 1 syringe (12 cc)
- 1 guidewire (Standard-50cm / Long-60cm)

Model	SS5	SS6	SS7	SS8	SS85
Knob Color	5	6	7	8	8.5

# in kit	5				
Lengths (cm)	13				

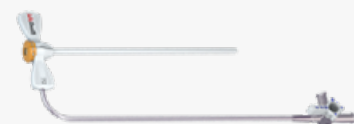
Model	SS9	SS95	SS10	SS105	SS11
Knob Color	9	9.5	10	10.5	11

# in kit	5				
Lengths (cm)	13				

Model	SS12	SS125	SSL6	SSL7	SSL8
Knob Color	12	12.5	6	7	8

# in kit	5				
Lengths (cm)	13	13	23	23	23

Model	SSL9	SSL10	SSL105	SSL11
Knob Color	9	10	10.5	11
# in kit	5			
Lengths (cm)	23			



Model SSx



Model SSLx

NOTE: This is not intended to be a full product description. For full description, refer to the Device Specification Sheet and/or Manual.



FLOWGUARD®

VALVED PEELABLE INTRODUCERS

ACCESSORIES

GENERAL

- FlowGuard® Valved Peelable Introducers for use with transvenous leads
- Sliding valve feature for procedural flexibility
- Low-profile handle and interlock system to prevent dilator pop-out during insertion

Model	10729-001	10729-002	10729-003	10729-004
Size (Fr)	7.0	8.0	9.0	10.5
# of kits	1			
Sheath Length (cm)	13	15	15	15
Dilator Length (cm)	18	21.5	21.5	21.5

Model	10730-001	10730-002	10730-003	10730-004
Size (Fr)	7.0	8.0	9.0	10.5
# of kits	5			
Sheath Length (cm)	13	15	15	15
Dilator Length (cm)	18	21.5	21.5	21.5



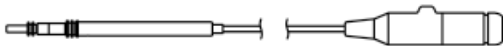
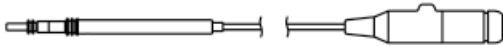
Model 10729-00x
Model 10730-00x

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



PACING LEAD ADAPTORS

ACCESSORIES

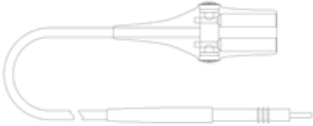
Model	Description	
BLV-BIS-10	LV-1 Bipolar Lead to IS-1 Bipolar IPG - 10cm	
BLV-BIS-40	LV-1 Bipolar Lead to IS-1 Bipolar IPG - 40cm	
B-IS-15SS2	5mm Bifurcated Bipolar Lead or two 5mm Unipolar Leads to IS-1 Bipolar IPG	
BIS-IS-15	Two IS-1 UNI Leads to IS-1 BI IPG	
BIS-BIS-17	3.2mm Low Profile Bipolar Lead to IS-1 BI IPG - Permanent Extension	
BIS-BIS-40	IS-1 BI Lead to IS-1 BI IPG - Permanent Lead Extension	

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



ICD LEAD ADAPTORS

ACCESSORIES

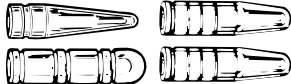
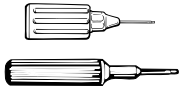
Model	Description	
6726	DF-1 Y Adaptor/Extender – 25cm or 37cm	
6707	6,5 mm to DF-1 - Adaptor Kit – 15cm	
6920	Upsizing Sleeve for HV Leads 3,2mm LP or DF-1 to 6,5mm 3 Units per Kit	
5019	DF-4 Adapter - Removes SVC coil from shock path and allows use of additional defibrillation DF-1 lead/ patch	

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



ADDITIONAL ACCESSORIES

ACCESSORIES

Model	Description	
5867-3M	Lead End Cap Kit	
6056	Pinch-on Tool 6056 for Medtronic Screw-in Leads	
6056M	Individual package for AccuRead 2.0 tool	
5873C	Lead Service Installation Kit	
5873W	Lead wrench kit	
80118	Medical adhesive	
6717	6.5mm Unipolar Connector Port Pin Plug, 1 per kit	
6719	DF-1 unipolar connector Port Pin Plug, 1 per kit	
6725	IS-1 connector port pin plug, 1 per kit - may be used as a part of the MRI CRT-D SureScan systems in place of a right atrial lead	
6177	Sterile Programming Head Cover - 10 per kit	
9466	Patient Magnet - 4 per kit	

NOTE: This is not intended to be a full product description. For full description, refer to the Device Specification Sheet and/or Manual.



INSERTABLE CARDIAC MONITORS (ICM)



LINQ II™

INSERTABLE CARDIAC MONITORS (ICM)

GENERAL

- Insertable Cardiac Monitor (ICM) with 4.5 years longevity*
- TruRhythm™ Detection
- Pause Detection Algorithm
- PVC Detection Algorithm
- Automatically Detected Episodes: up to 27 min
- Patient-Activated Symptom: up to 30 min
- Symptom/Auto Correlated Episodes: up to 4 min
- CareLink connectivity
- Smart Memory Management
- Bluetooth® Wireless Telemetry (BlueSync™ Technology): two-way communication
- Remote programming capability

ARRHYTHMIA DETECTION

- Pause/Asystole
- Bradycardia
- Tachycardia (VT/FVT)
- Atrial Tachycardia (AT) / Atrial Fibrillation (AF) with enhanced detection

DIAGNOSTICS

- Quick Look
- Cardiac Compass:
 - Programming and interrogation events
 - Patient symptoms
 - AT/AF total time per day
 - Ventricular rate during AT/AF
 - Average ventricular rate
 - Patient activity
 - Heart rate variability
 - Ventricular rate during AT/AF histogram (time in or out of AT/AF)
 - PVC

COMPATIBLE DEVICES

- In-clinic Programmer
 - Reveal LINQ™ Mobile Manager
- Patient Monitor
 - MyCareLink Heart™ Mobile App, or MyCareLink Relay™ Home Communicator
- Symptom Marker
 - MyCareLink Heart™ Mobile App, or Patient Assistant PA97000 (for MyCareLink Relay™ Home Communicator)

PACKAGE CONTENT

- LINQ II™ Insertable Cardiac Monitor (preloaded in the included insertion tool handle)
- Incision tool
- Insertion tool plunger
- Insertion tool handle
- Product documentation

* Nominal settings

Model	LNQ22
M (g)	3.4
V (cc)	1.4
Size (mm)	45.1 x 8.0 x 4.2

MRI Compatibility

- MR-Conditional at 3.0 and 1.5 Tesla
- No-post insertion waiting period



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



REVEAL LINQ™

INSERTABLE CARDIAC MONITORS (ICM)

GENERAL

- Insertable Cardiac Monitor (ICM) with 3 years life*
- TruRhythm™ Detection
- Auto-activated events: 29 min of ECG
- Patient-activated events: 30 min of ECG
 - Up to 14 min of ECG prior to activation
- CareLink connectivity

ARRHYTHMIA DETECTION

- Pause/Asystole
- Bradycardia
- Tachycardia (VT/FVT)
- Atrial Tachycardia (AT) / Atrial Fibrillation (AF) with enhanced detection

DIAGNOSTICS

- Quick Look
- Cardiac Compass Trends:
 - AT/AF burden
 - Ventricular rate during AT/AF
 - Day and night average ventricular rate
 - Daily activity
 - Heart rate variability
- AT/AF summary
- Rate histograms
- Episode list
- Episode counters

PATIENT ASSISTANT – MODEL PA96000

- 10cmx4cmx1cm
- Record button - captures patient-activated episodes
- Non-replaceable battery chosen for size, cost, and energy capacity
- Designed to operate at least 200 operations over 3 years plus shelf life and leakage

PACKAGE CONTENT

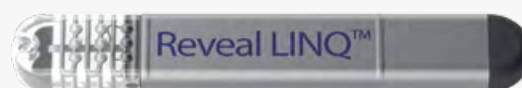
- Reveal LINQ™ ICM (preloaded in the included insertion tool)
- Incision tool
- Insertion tools
- Reveal PA96000

* Nominal settings

Model	LNQ11
M (g)	2.5 ± 0.5
V (cc)	1.2
Size (mm)	44.8 x 7.2 x 4.0

MRI Compatibility

- MR-Conditional at 3.0 and 1.5 Tesla
- No-post insertion waiting period



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



REVEAL[®] XT

INSERTABLE CARDIAC MONITORS (ICM)

GENERAL

- Insertable Cardiac Monitor (ICM) with 3 years life*
- Auto-activated events: 27 min of ECG
- Patient-activated events: 22.5 min of ECG
 - Up to 14 min of ECG prior to activation
- Up to 30 events in total
- CareLink connectivity
- Reveal Vector Check for optimal positioning

ARRHYTHMIA DETECTION

- Asystole
- Bradycardia
- Ventricular Tachycardia (VT) / Fast Ventricular Tachycardia (FVT)
- Atrial Tachycardia (AT) / Atrial Fibrillation (AF)

DIAGNOSTICS

- Quick Look
- Cardiac Compass Trends:
 - AT/AF total time per day
 - Ventricular rate during AT/AF
 - Day and night average ventricular rate
 - Patient activity
 - Heart rate variability
- AT/AF summary
- Rate histograms
- Episode list
- Episode counters

PATIENT ASSISTANT – MODEL PA96000

- 10cmx4cmx1cm
- Record button - captures patient-activated episodes
- Non-replaceable battery chosen for size, cost, and energy capacity
- Designed to operate at least 200 operations over 3 years plus shelf life and leakage

PACKAGE CONTENT

- Reveal XT ICM
- Conductive patches for Vector Check
- Reveal PA96000

* Nominal settings

Model	9529
M (g)	15
V (cc)	9
Size (mm)	62 x 19 x 8

MRI SureScan

- MR-Conditional at 3.0 and 1.5 Tesla
- 6-week post-insertion waiting period



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



CARELINK™ NETWORK

PATIENT MANAGEMENT SOLUTIONS

GENERAL

The CareLink™ Network is a remote monitoring service for patients with Medtronic implanted cardiac devices. The service allows patients to send full device data to their clinic from home or away. The monitoring solution collects patients' device data and sends it to a secure sever.

Healthcare providers can analyze the patient device diagnostic data via the CareLink™ Network Clinician Website through their internet browser. The site is also used to enroll clinic users, enroll patients, and perform other administrative duties.

- Compatible with 99.9% Medtronic implantable devices.
- Operates on the Microsoft™ Windows™ operating system with database support based on Microsoft's SQL (Structured Query Language) Server software
- Administration for hospital CareLink network service set-up
- Access to secure server space for data hosting of active patient data using CareLink
- Unlimited healthcare professional users per hospital
- Access to Vodafone worldwide data network and their roaming partners
- Patient transmissions:
 - Scheduled
 - Customizable color-coded CareAlerts
 - Patient-initiated transmissions
- Technical support
- CareLink clinician website upgrades
- CareLink monitor software upgrades
- Training of healthcare professionals and patient groups
- Online access for healthcare professionals to the Medtronic Academy for training on website
- CareLink Mobile Application for clinicians
- Updates

SECURITY MEASURES

- ISO 27001 and SOC II-certified
- Hosted in Europe at SAS70
- Certified site
- Managed by Medtronic personnel

DIEN CODE	SSA4-CLNETSERVICE (varies per country)
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NOTE: This is not intended to be a full product description. For full description, refer to the Device Specification Sheet and/or Manual.



MYCARELINK HEART™ MOBILE APP

PATIENT MANAGEMENT SOLUTIONS

GENERAL

- Patient app for remote monitoring of Medtronic BlueSync™ enabled cardiac implantable devices in the Medtronic CareLink™ Network
- Replaces the traditional bedside monitor to securely transfer heart device data using patient smartphone or tablet
- Best option for patients owning compatible iOS and Android smart device¹ and comfortable with using apps or smart technology

MAIN FEATURES

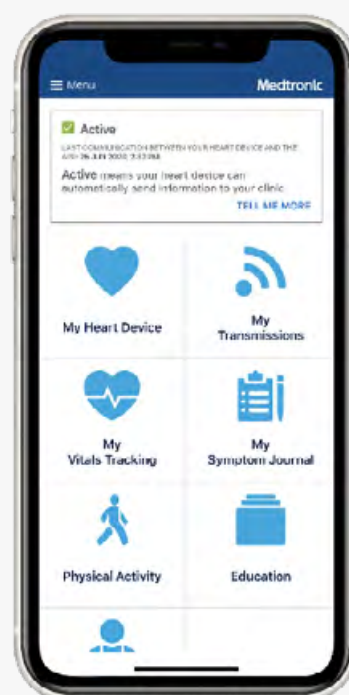
- Cellular or Wi-Fi connectivity through patient's smart device
- Bluetooth® Low Energy is designed to minimize battery drain of the implantable device
- Enhanced security with data encryption from end to end
- Automatic notifications help patients stay connected
- Upgradable throughout lifetime of the device
- Allows patients to view select device data such as battery life and access in-app education content

¹ Please visit www.MCLHeart.com for a list of compatible smartphones and tablets

Model Patient app	27000
Model Application for IOS	MSW003
Application for Android	MSW004



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



MYCARELINK RELAY™ HOME COMMUNICATOR

PATIENT MANAGEMENT SOLUTIONS

GENERAL

- Patient bedside communicator for remote monitoring of Medtronic BlueSync™ enabled cardiac implantable devices in the Medtronic CareLink™ Network
- Best option for patients that rarely carry a mobile device or not comfortable with using apps or smart technology

MAIN FEATURES

- Integrated cellular 4G LTE connectivity with international coverage and Wi-Fi connectivity
- Bluetooth® Low Energy is designed to minimize battery drain of the implantable device
- Enhanced security with data encryption from end to end
- Optimized Bluetooth® & cellular antenna design
- Requires little to no user interaction

POWER SUPPLY

- AC powered, 100-240 V, 50-60 Hz, 0.5 A Max

PHYSICAL CHARACTERISTICS

- Ambient light sensor automatically turns off lights in the dark
- Light Ring to show activity
- Progress bar to display transmission status
- Button to checks status or send patient-initiated transmissions

Model	24960
M (g)	N/A
Size (mm)	N/A



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



MYCARELINK SMART™ MONITOR

PATIENT MANAGEMENT SOLUTIONS

GENERAL

- Patient monitor for remote monitoring of Medtronic cardiac implantable devices in the Medtronic CareLink™ Network
- Designed to be paired with one single implantable device
- Designed to be paired with IPGs, CRT-Ps and Micra TPS devices

CONNECTIVITY AND TRANSMISSIONS

- Transmission data sent via MCL Smart App installed on patient's / caregiver's smart device
- Bluetooth connection between the reader and the smart device
- Inductive telemetry between the implanted device and the reader
- Designed for manual transmissions
- Intended to support non-wireless implantable devices

POWER SUPPLY

- Battery powered
 - 3x AA alkaline batteries

PHYSICAL CHARACTERISTICS

- Reader with 3 indicator LED lights
- App installed on a smart device

Model	25000
M (g)	164 (without batteries)
Size (mm)	155 x 80 x 30



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



MYCARELINK™ MONITOR

PATIENT MANAGEMENT SOLUTIONS

GENERAL

- Patient monitor for remote monitoring of Medtronic cardiac implantable devices in the Medtronic CareLink™ Network
- Designed to be paired with one single implantable device

CONNECTIVITY AND TRANSMISSIONS

- Cellular technology, with international coverage
- Supports wireless data transmissions (when paired to wireless implantable device)
- Can send the wireless transmission when in range of up to 3 m from the implanted device
- Designed for automatic as well as manual transmissions

POWER SUPPLY

- AC powered, 100-240V, 50-60Hz

PHYSICAL CHARACTERISTICS

- Reader with 3 indicator LED lights
- Docking station with animated LCD display

Model	24952
M (g)	N/A
Size (mm)	207 x 153 x 66



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



SMARTSYNC™ DEVICE MANAGER

PATIENT MANAGEMENT SOLUTIONS

GENERAL

- Tablet-Based programmer for interrogating and programming compatible Medtronic cardiac implantable devices*
- Includes the Pacing System Analyzer (PSA)
- Intended to support implants and follow-ups
- Enables wireless, streamlined and secure digital workflow

MAIN FEATURES

- Free iOS Application, is compatible with certain models of the Apple iPad Pro and iPad Air**
- Pacing System Analyzer integrated in the Base Station
- Telemetry B (inductive), BlueSync™ Technology (wireless)
- E-strip recorder, with annotating options
- Report Exporting options: save to network folder, USB***
- Possibility to connect to external printer via WiFi

POWER SUPPLY

- Patient Connector: AC powered with 3 hours of battery back-up
- Base Unit: AC powered
- PSA: powered separately from the base, using 2 AA batteries

COMPONENTS AND ACCESSORIES

- 24970A Base unit
- 24967 Patient Connector
- 249705 Power cord
- 2090 EC/ECL ECG cable with plug and leadwires
- 2292 surgical cables
- 249704 Carry case

SYSTEM COMPONENTS

- SmartSync iOS application
- Base unit:
 - Including the Pacing System Analyzer
 - Communicating via Bluetooth® with tablet
- Patient connector:
 - Communicating via Tel B with Astra™ Pacemakers; via Bluetooth Low energy with BlueSync™ enabled devices
 - Communicating via Bluetooth® with tablet
- Tablet
 - Apple iPad Pro and iPad Air**
 - Hospital owned or Medtronic Managed Tablet (MMT)

* More information on compatible devices can be found in the CareLink SmartSync Device Manager materials

** More information on compatible iPad models can be found in the CareLink SmartSync Device Manager materials

*** Depending on Country and tablet option

Model Base unit	24970A
Weight (kg)	0.91
Size (cm)	4.6 x 24 x 20.8
Model Patient connector	24967
Weight (kg)	0.25
Size (cm)	16.7 x 7.3 x 3.0



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



REVEAL LINQ™ MOBILE MANAGER

PATIENT MANAGEMENT SOLUTIONS

GENERAL

- The Reveal LINQ™ Mobile Manager is an innovative, app-based device management system for Reveal LINQ™ and LINQ II™ insertable cardiac monitor (ICM).
It enables procedure simplicity and programmer portability for device activation, programming, CareLink™ Network pre-enrollment and follow-up checks - all from the same tablet.
- Generate reports quickly and simply
- Simplify staff training with guided animations
- Easily access patient education modules directly from the app*
- Streamline workflows for initial device activation or follow-up
- Access a built-in Help Menu to answer device activation and follow-up device check questions
- Setting up patients up to 7 days prior to implant
- Automatically pre-enroll your patients in the Medtronic CareLink™ Network
- Access data on the CareLink™ Network within minutes after device activation or follow-up device checks, while connectivity with the CareLink™ Network is established

MAIN FEATURES

- The LMM application is a free iOS application
- www.LINQMobileManager.com - follow the links to download the app

POWER SUPPLY

- Patient connector: AC powered with 3 hours of battery back-up

SYSTEM COMPONENTS

- LMM iOS application
- Patient connector:
 - Communicating via Tel B with Reveal LINQ™
 - Communicating via Bluetooth® with LINQ II™ and tablet
- Reveal LINQ™ and LINQ II™ ICMs
- Tablet – hospital-owned or Medtronic Managed Tablet (MMT)

* May vary based on geography

Model	24967
Patient connector	



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



CARELINK EXPRESS™ MOBILE SYSTEM

PATIENT MANAGEMENT SOLUTIONS

GENERAL

- The CareLink Express™ Mobile System allows the interrogation of any compatible Medtronic cardiac Implantable device, with secure and rapid transfer of the data to the CareLink™ Network for remote interpretation.
- The CareLink Express™ System provides secure access and transfer of data, seamlessly integrating into a follow-up clinic's CareLink system.

MAIN FEATURES

- Compatible with 99% of Medtronic cardiac devices supported on the CareLink™ Network¹
- The CareLink Express™ Mobile application is a free iOS application

POWER SUPPLY

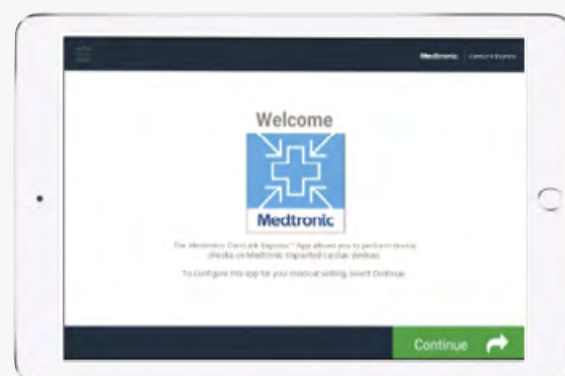
- Patient connector: AC powered with 3 hours of battery back-up

SYSTEM COMPONENTS

- CareLink Express™ Mobile iOS application
- Patient connector (Tel A/B):
 - Communicating via Tel B with all devices
 - Communicating via Bluetooth with tablet
- Tablet – hospital-owned or Medtronic-supplied tablet
- CareLink Express™ Website
- Carrying Case for patient connector and the tablet (ordered separately)

¹ Supported devices on CareLink™ Network - Data on File (Jan 2014)

Model Patient connector	24967
Model Application for IOS	31302
Carrying Case	249653



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



CARELINK ENCORE™ PROGRAMMER

PATIENT MANAGEMENT SOLUTIONS

GENERAL

- System for interrogating and programming Medtronic and Vitatron cardiac implantable devices
- Intended to support follow-ups

MAIN FEATURES

- Built in WiFi and ethernet
- keyboard
- Resistive touch screen
- PDF viewer
- Electronic strip recorder
- USB printing (no integrated printer available)
- Telemetry A and B (no wireless)
- Emergency button for VVI pacing

POWER SUPPLY

- AC powered with 2 hours of battery back-up

ACCESSORIES (IN THE PACKAGE)

- 26901 Programming head
- 26902 Rechargeable battery
- 26905 Stylus
- 26906 Power cord
- 26907 Power supply

Model	29901
M (g)	4.94
Size (mm)	35.5 x 35.5 x 10.2



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



CARELINK® 2090 PROGRAMMER

PATIENT MANAGEMENT SOLUTIONS

GENERAL

- System for interrogating and programming Medtronic, Vitatron and NayaMed cardiac implantable devices
- Intended to support implants and follow-ups

MAIN FEATURES

- Ethernet card
- Mechanical keyboard
- Display screen
- Integrated printer - possibility to connect to external printer via parallel port or USB
- Telemetry A, B (inductive) and C (wireless)
- Emergency button for VVI pacing

POWER SUPPLY

- AC powered

ACCESSORIES

- 2290 Medtronic Analyzer
- 2067/L Programmer head
- 2090TPS/XS Touch pen
- 2090EC/ECL ECG cable with plug and leadwires
- 6092 Printer paper

PACKAGE CONTENTS

- 2090 CareLink Programmer
- 2090TPS/XS Touch pen
- 2090EC/ECL ECG cable with plug and leadwires
- 6092 Printer paper

Model	2090
M (kg)	11.3
Size (mm)	12.7 x 40.6 x 55.8



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



CARELINK® 2290 ANALYZER

PATIENT MANAGEMENT SOLUTIONS

GENERAL

- Accessory that installs into the Medtronic CareLink® 2090 Programmer
- Designed to analyze the electrical performance of a cardiac lead system
- Uses the programmer as a control and display platform

MAIN FEATURES

- Automatic measurement of P- and R-wave amplitudes and slew rates
- Automatic lead impedance measurement
- Real-time display of atrial and ventricular EGM
- Rapid atrial stimulation to 800 min⁻¹ (ppm)
- Advanced analysis features, including antegrade and retrograde conduction tests, and a pulse width versus amplitude threshold analysis
- Measurement reports
- Backup battery in the event of a power loss
- Electrical isolation from the programmer
- Emergency VVI pacing

PACKAGE CONTENTS

- 2290 Analyzer
- 2292 Analyzer surgical cable
- 9 V Battery
- Screwdriver
- Product literature

Model	2290
M (kg)	N/A
Size (mm)*	N/A

* installs into the Medtronic CareLink® 2090 Programmer



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



FOCUSON™

MONITORING AND TRIAGING SERVICE

PATIENT MANAGEMENT SOLUTIONS

GENERAL

- FocusOn™ is a service that monitors and triages CareLink™ transmissions from all Medtronic implantable cardiac devices.
- All incoming data is reviewed and classified based on its clinical relevance (colour-code classification), according to a customized protocol instructed by the treating physicians.
- The FocusOn™ Team notifies the hospital clinical teams via email and/or phone /SMS and according to the customized colour-coding classification.
- All FocusOn™ triaged data and transmissions are accessible via the FocusOn™ platform.
- Available for:
 - IPG, CRT-P
 - ICD, CRT-D
 - ICM

QUALITY PROCESS

- All the data is reviewed by two different certified ECG/ cardiac device specialists to maximize accuracy and quality control through redundancy.
- The ECG specialists are supervised by cardiologists.

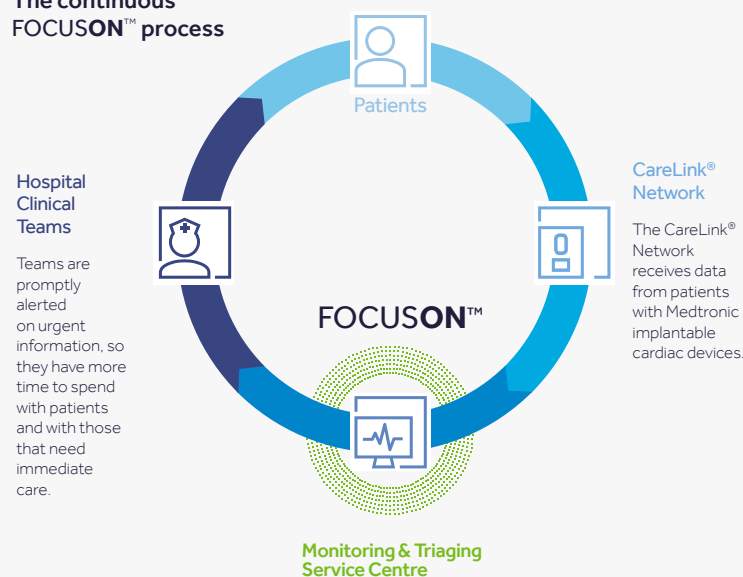
Service Time

Days	Mon-Fri (no bank holidays)
Hours	7am – 6pm CET

Service Level Agreement and escalation methods

Days	Phone/SMS and e-mail	Same working day
Days	E-mail	Next working day
Hours	Weekly e-mail	Once a week

The continuous FOCUSON™ process



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



BECONNECTED SERVICE

PATIENT MANAGEMENT SOLUTIONS

GENERAL

BECONNECTED is a patient support service designed to free up clinic time by directing patients to the experienced BeConnected team:

- Helping patients onboard with their optimal monitoring solution:
 - Education on remote monitoring
 - Screening for optimal monitoring solution with the ability to ship bedside monitor to patient home address
 - Set-up of patient monitoring solution.
- Helping patients with general device & remote monitoring questions.

SCOPE

- Service offered in local language

CONTACT NUMBER

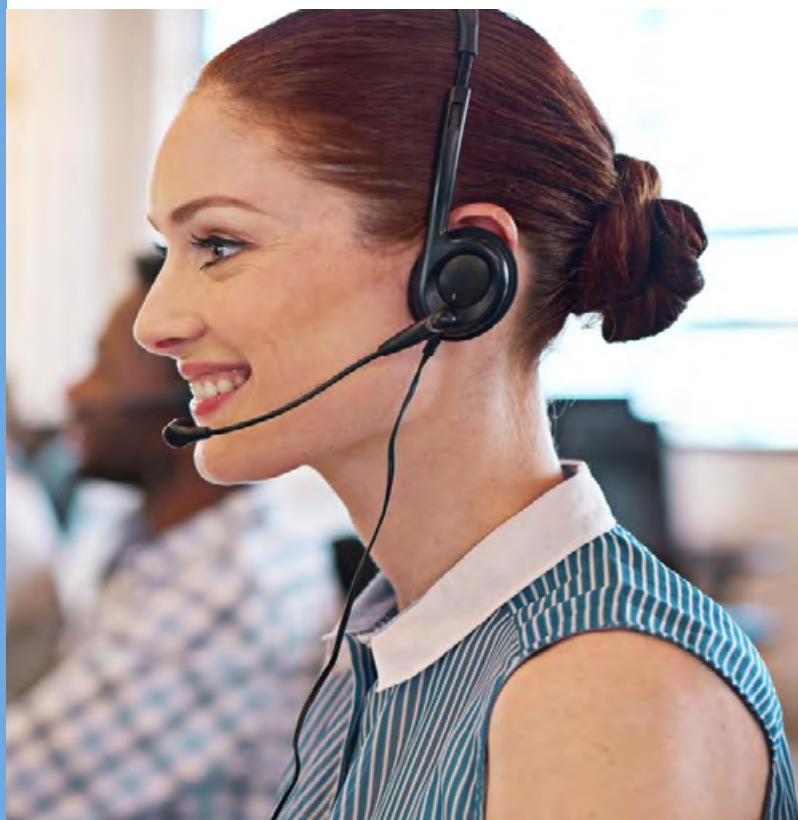
Austria	00800-26663282
Belgium	00800-26663282
Finland	990800-26663282
Ireland	00800-26663282
Netherlands	00800-26663282
Portugal	00800-26663282
Spain	00800-26663282
Sweden	00800-26663282
Switzerland	00800-26663282
United Kingdom	00800-26663282

Service hours*

Monday- Friday 8am – 4pm
Ability to leave voicemail outside
of office hours

*Service hours may vary

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



PROCEDURE INNOVATIONS



TYRX™

ABSORBABLE ANTIBACTERIAL ENVELOPE

PROCEDURE INNOVATIONS

GENERAL

The TYRX Envelope is a fully absorbable sterile device designed to hold a Cardiac Implantable Electronic Device (CIED) securely in place to create a stable environment when implanted in the body. The envelope's bioabsorbable polymer coating contains antibacterial agents Minocycline and Rifampin.

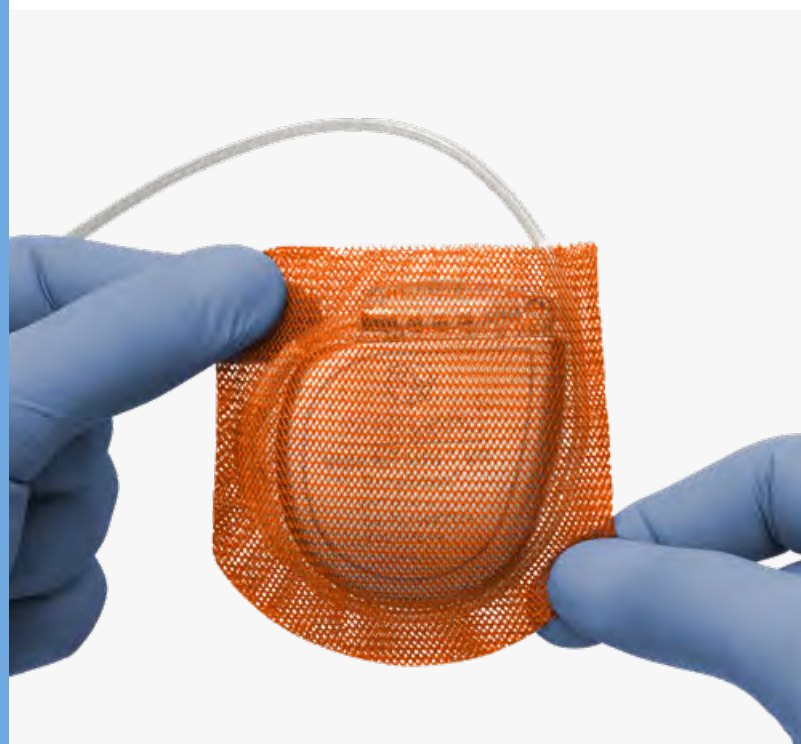
- Fully absorbs into the body in ~9 weeks
- Large pore mesh:
 - Knitted from absorbable filaments (glycolide, caprolactone and trimethylene carbonate)
 - Filaments coated with a bioabsorbable polymer containing antibacterial agents
- Single Use Only
- Storage: between 2 - 25° C

ANTIBIOTICS

- Minocycline and Rifampin have been shown to reduce infection in an in vivo model of bacterial challenge following surgical implantation of the generator or defibrillator.¹
- Locally delivered Minocycline and Rifampin sustained for 7 days
- Minocycline has been shown to be effective against:
 - Gram-positive bacteria such as *S aureus*
 - Gram-negative bacteria such as *E coli*, *E aerogenes*, *H influenzae* and *A baumannii*
- Rifampicin has been shown to be effective against:
 - Gram-positive bacteria such as *S aureus* (including MRSA) and *S epidermidis*
 - Gram-negative bacteria such as *H influenzae*

¹ Huntingdon Life Sciences Studies TR-2011-043, TR-2011-044, TR-2011-045, TR-2011-047, TR-2011-056.

Model	CMRM6122INT	CMRM6133INT
Description	TYRX Absorbable Antibacterial Envelope (Medium)	TYRX Absorbable Antibacterial Envelope (Large)
Size (cm)	6.3 x 6.9	7.4 x 8.5
Minocycline dose (mg)	5.1	7.6
Rifampin dose (mg)	8.0	11.9



NOTE: This is not intended to be a full product description. For full description, refer to the Device Specification Sheet and/or Manual.



EXTERNAL PACEMAKER

SINGLE CHAMBER

PROCEDURE INNOVATIONS

GENERAL

- Battery Powered External Temporary Pacemaker
- Pacing Continuation upon Battery Removal
- Compatible with Medtronic cables 5832, 5833, 5487, 5433A/V and 5846A/V
- NO direct connection of heart wires

PACING FEATURES

- Pacing Modes: AAI, AOO, VVI, VOO
- Basic Pacing Rate: 30 – 200 ppm
- Rapid Atrial Pacing Rate: 80 – 800 ppm

ADDITIONAL PROGRAMMABLE PARAMETERS

- Output Amplitude
- Pulse Width
- Sensitivity
- Ventricular Blanking

PACKAGE CONTENT

- Single Chamber External Temporary Pacemaker Model 53401
- Two AA 1.5 V alkaline batteries
- Carrying case Model 53409

ACCESSORIES (NOT INCLUDED)

- 5409 Disposable Pouch: 5 units in package
- 53408 Replacement Covers (Main Covers and Rapid Atrial Pacing Cover)
- 53409 Carrying Case
- 53407 IV Pole Replacement Hook and Replacement Knobs

Model	53401
M (g)	499
Dimension (cm)	20.2 x 6.6 x 4.1
Battery	Two IEC type LR6-sized (AA-sized) 1.5 V alkaline batteries (Duracell MN1500, Eveready E91 or equivalent)



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



EXTERNAL PACEMAKER

DUAL CHAMBER

PROCEDURE INNOVATIONS

GENERAL

- Battery Powered External Temporary Pacemaker
- Pacing Continuation upon Battery Removal
- Compatible with Medtronic cables 5832, 5833, 5487, 5433A/V and 5846A/V
- NO direct connection of heart wires

PACING FEATURES

- Pacing Modes: DDD, DOO, DDI, AAI, AOO, VVI, VOO
- Basic Pacing Rate: 30 – 200 ppm
- Upper Rate: 80 – 230 ppm
- Rapid Atrial Pacing Rate: 80 – 800 ppm

ADDITIONAL PROGRAMMABLE PARAMETERS

- Output Amplitude
- Pulse Width
- Sensitivity
- AV Interval
- PVARP
- Ventricular Blanking

PACKAGE CONTENT

- Dual Chamber External Temporary Pacemaker Model 5392
- Two AA 1.5 V alkaline batteries

ACCESSORIES (NOT INCLUDED)

- 5409 Disposable Pouch: 5 units in package
- 53922 Disposable Cover: 3 units in package
- 53923 Carrying Case
- 53921GLBL IV Pole Replacement

Model	5392
M (g)	680
Dimension (cm)	20.3 x 8.6 x 4.45
Battery	Two IEC type LR6-sized (AA-sized) 1.5 V alkaline batteries



NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



EPG PATIENT AND SURGICAL CABLES

PROCEDURE INNOVATIONS

Model	Description	Channel	Lenght (m)	
5832S	Surgical Cable, Reusable, One channel, Small Clips	A or V	1.83	
2292	Surgical Cable, Reusable, Two channels	A and V	3.66	
5833S / 5833SL	Surgical Cable, Disposable, Small Clips	A or V	1.83 / 3.66	
5487 / 5487L	Surgical Cable, Disposable	A or V	1.83 / 3.66	
5433A / 5433AL	Patient Cable, Reusable	A	1.83 / 3.66	
5433V / 5433VL	Patient Cable, Reusable	V	1.83 / 3.66	
5846A / 5846AL	Patient Cable, Disposable	A	1.83 / 3.66	
5846V / 5846VL	Patient Cable, Disposable	V	1.83 / 3.66	

NOTE: This is not intended to be a full product description.
For full description, refer to the Device Specification Sheet and/or Manual.



GLOSSARY



GLOSSARY

2:1 block rate – a conduction ratio in which every second atrial event is refractory. This results in a ventricular pacing rate that is one half as fast as the atrial rate. Also known as second-degree Mobitz Type II AV block.

Active Can – option to select the device case as an active electrode for delivering defibrillation and cardioversion therapies.

activities of daily living rate (ADL Rate) – the approximate target rate that the patient's heart rate is expected to reach during activities of daily living.

activities of daily living response (ADL response) – a programmable parameter that alters the slope of the rate response curve to adjust the targeted rate distribution in the submaximal rate range to match the patient's activity level.

activity sensor – accelerometer in the device that detects the patient's body movement.

AdaptivCRT – algorithm that enhances cardiac resynchronization therapy (CRT) by adjusting CRT parameter values automatically while the patient is ambulatory.

AF/Afl feature – PR Logic feature designed to discriminate between rapidly conducted atrial fibrillation or atrial flutter and ventricular tachyarrhythmia.

Antitachycardia pacing (ATP) – therapies that deliver rapid sequences of pacing pulses to terminate tachyarrhythmias.

Arrhythmia episode data – system that compiles an arrhythmia episode log that the clinician can use to view summary and detailed diagnostic data quickly, including stored EGM, for the selected arrhythmia episode.

AT/AF detection – feature that analyzes the atrial rate and its effect on the ventricular rhythm to determine whether the patient is currently experiencing an atrial tachyarrhythmia. Depending on programming, the device delivers a programmed sequence of atrial therapies or continues monitoring without delivering therapy.

AT/AF Interval – programmable interval used to define the AT/AF detection zone. The median atrial interval must be shorter than this value to detect an AT/AF episode.

ATP During Charging – device delivers a ventricular antitachycardia therapy sequence while the device charges its capacitors for the first defibrillation therapy during a VF episode.

Atrial antitachycardia pacing (ATP) – therapies that respond to an AT/AF episode or a Fast AT/AF episode with rapid sequences of pacing pulses to terminate detected atrial tachyarrhythmias.

Atrial cardioversion – therapy that delivers a high-voltage shock to treat an AT/AF episode or a Fast AT/AF episode. Atrial cardioversion delivery is synchronized to a sensed ventricular event and cannot exceed a programmable daily limit within programmable times.

Atrial Preference Pacing – atrial rhythm management feature that adapts the pacing rate to slightly higher than the intrinsic sinus rate.

Atrial Preference Pacing (APP) – atrial rhythm management feature that adapts the pacing rate to slightly higher

GLOSSARY

than the intrinsic sinus rate.

Atrial Rate Stabilization (ARS) – atrial rhythm management feature that eliminates a prolonged pause following a premature atrial contraction (PAC).

atrial refractory period – interval that follows an atrial paced or sensed event during which the device senses events but responds to them in a limited way. This interval is applied when the device is operating in a single chamber, atrial pacing mode.

Atrial therapy scheduling – feature that enables the clinician to program the delivery of automatic atrial therapies. Each time that an AT/AF therapy is needed, the device schedules one of the available therapies based on clinician programming.

atrial tracking – dual chamber pacing operation that paces the ventricle in response to atrial events.

Atrial Tracking Recovery (ATR) – feature that helps to restore atrial tracking if it is lost due to successive atrial events falling in the refractory period following ventricular senses.

Auto PVARP – Adjusts PVARP (Post-Ventricular Atrial Refractory Period) in response to changes in the patient's heart rate or pacing rate. PVARP is longer at lower tracking rates to prevent pacemaker-mediated tachycardia (PMT) and shorter at higher rates to maintain 1:1 tracking.

AV synchrony – coordinated contraction of the atria and ventricles for most effective cardiac output.

blanking period – time interval during which sensing in a chamber is disabled to avoid oversensing.

Burst+ pacing – antitachycardia pacing (ATP) therapy that delivers sequences of atrial pacing pulses with an interval that is a programmable percentage of the tachycardia cycle length, followed by up to 2 premature stimuli delivered at programmable intervals. With each sequence of Burst+ pacing delivered; the device shortens the pacing interval by a programmable interval.

Burst pacing – antitachycardia pacing (ATP) therapy that delivers sequences of ventricular pacing pulses with an interval that is a programmable percentage of the tachycardia cycle length. With each sequence of Burst pacing delivered, the device shortens the pacing interval by a programmable interval.

Capture Management – feature that monitors pacing thresholds with daily pacing threshold searches and, if programmed to do so, adjusts the pacing amplitudes toward a target amplitude.

Cardiac Compass Trends – overview of the patient's condition over the last 14 months with graphs that display long-term clinical trends in heart rhythm, such as frequency of arrhythmias, heart rates, and device therapies.

cardiac resynchronization therapy (CRT) – delivery of coordinated pacing pulses to the left and right ventricles designed to treat ventricular dysynchrony.

Combined Count detection – feature designed to prevent a delay in VF detection when ventricular tachyarrhythmia fluctuates between the VF and VT zones.

Conducted AF Response – feature that adjusts the pacing rate to help promote a regular ventricular rate during

GLOSSARY

AT/AF episodes.

crosstalk – condition when pacing in one chamber is sensed as intrinsic activity in another chamber.

Decision Channel annotations – annotations to stored and telemetered EGM that document details about tachyarrhythmia detection operations.

device reset – automatic device operation to recover from a disruption in device memory and control circuitry. Programmed parameters may be set to default reset values. This operation triggers a device status indicator.
device status indicators – warnings that describe problems with device memory or operation.

EffectivCRT Diagnostic – feature that determines the percentage of effective CRT pacing. It provides data about the effectiveness of CRT pacing on the Quick Look screen and in RATE HISTOGRAMS, Cardiac Compass TRENDS, and EffectivCRT EPISODES.

EffectivCRT During AF – algorithm that dynamically adjusts the pacing rate in response to changes in the percentage of effective CRT pacing to promote CRT delivery in non-tracking modes.

EffectivCRT episodes data – feature that compiles diagnostic information to help the clinician identify the cause of ineffective CRT pacing and reprogram the device to avoid it.

electromagnetic interference (EMI) – energy transmitted from external sources by radiation, conduction, or induction that can interfere with device operations, such as sensing, or can potentially damage device circuitry.

EOS (End of Service) – battery status indicator displayed by the implantable device app to indicate that the device should be replaced immediately and that it may not operate per specifications.

event – a sensed or paced beat.

evoked response detection – the act of detecting the electrical signal generated by the contracting myocardium immediately following a pacing pulse.

exertion rate range – rates at or near the Upper Sensor Rate that are achieved during vigorous exercise.

Flashback – diagnostic feature that records the intervals that immediately preceded tachyarrhythmia episodes or that preceded the last interrogation of the device and plots the interval data over time.

Heart Failure Management Report – report that summarizes the patient's clinical status and observations since the last follow-up appointment and provides graphs that show trends in heart rates, arrhythmias, and fluid accumulation indicators over the last 14 months.

High Rate Timeout – feature that allows the device to delivery therapy for any ventricular tachyarrhythmia that continues beyond the programmed length of time.

Holter telemetry – telemetry feature that transmits EGM and marker data continuously for a programmable number of hours, regardless of whether telemetry actually exists between the device and device manager.

Home communicator – instrument that wirelessly receives information from a patient's implanted device and then

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transmits the information to the Medtronic CareLink Network via a cellular phone network or a home WiFi network. This dedicated instrument is placed within range of where the patient sleeps.

last session – refers to the last time the device was successfully interrogated before the current interrogation. A session ends 8 hours after the last interrogation.

median atrial interval – the seventh in a numerically ordered list of the 12 most recent A-A intervals.

median ventricular interval – the seventh in a numerically ordered list of the 12 most recent V-V intervals.

Medtronic CareAlert Monitoring – the continuous monitoring for, and silent, wireless transmission of, alert data between an implanted device and the Medtronic CareLink Network.

Medtronic CareAlert notifications – alert information sent via the Medtronic CareLink Network that notifies clinics and clinicians of events that impact patients or their implanted devices.

Medtronic CareLink Network – Internet-based service that allows a patient to transmit cardiac device information from home or other locations to the physician over a secure server. The CareLink Network may be unavailable in some geographic locations.

Mode Switch – feature that switches the device pacing mode from a dual-chamber atrial tracking mode to a non-tracking mode during an atrial tachyarrhythmia. This feature prevents rapid ventricular pacing that may result from tracking a high atrial rate and restores the programmed pacing mode when the atrial tachyarrhythmia ends.

MR Conditional – an item that has been demonstrated to pose no known hazards in a specified MR environment with specified conditions for use.

MRI SureScan – a feature that permits a mode of operation that allows a patient with a SureScan system to be safely scanned by an MRI machine while the device continues to provide appropriate pacing.

Multiple point pacing (MPP) – feature that allows the device to deliver a second, separately programmed LV pacing pulse during CRT pacing.

MVP (Managed Ventricular Pacing) – atrial-based pacing mode that is designed to switch to a dual chamber pacing mode in the presence of AV block. The MVP feature is intended to reduce unnecessary right ventricular pacing by promoting intrinsic conduction. The MVP modes are AAIR $\Rightarrow$ DDDR and AAI $\Rightarrow$ DDD.

Non-Competitive Atrial Pacing (NCAP) – programmable pacing feature that prohibits atrial pacing within a programmable interval after a refractory atrial event.

non-sustained VT (VT-NS) – ventricular rhythm that is fast enough to fall within the programmed VT and VF zones for at least 5 beats but does not meet any episode detection criteria.

Onset – feature that helps prevent detection of sinus tachycardia as VT by evaluating the acceleration of the ventricular rate.

OptiVol 2.0 fluid status monitoring – feature that identifies a potential increase in thoracic fluid, which may indicate lung congestion, by monitoring changes in thoracic impedance.

GLOSSARY

OptiVol event – an occurrence of the OptiVol 2.0 Fluid Index exceeding the programmed OptiVol Threshold, which may indicate fluid accumulation in the patient's thoracic cavity.

OptiVol Threshold – a programmable value of the OptiVol 2.0 Fluid Index. Values above this threshold may indicate fluid accumulation in the patient's thoracic cavity and define the occurrence of an OptiVol event.

Other 1:1 SVTs feature – PR Logic feature designed to withhold ventricular detection for supraventricular tachycardias that exhibit nearly simultaneous atrial and ventricular activation.

oversensing – inappropriate sensing of cardiac events or noncardiac signals. Examples include far-field R-waves, T-waves, myopotentials, and electromagnetic interference.

Paced AV (PAV) interval – programmable delay between an atrial pace and its corresponding scheduled ventricular pace.

pacemaker-mediated tachycardia (PMT) – a rapid, inappropriately paced rhythm that can occur with atrial tracking modes. PMT results when a device senses and tracks retrograde P-waves in the DDD mode or the DDDR mode.

pacing threshold – minimum pacing output that consistently captures the heart.

patient alert – a tone emitted from an implanted device to notify the patient of an alert condition.

Patient app – application that automatically gathers information from a patient's implanted device and transmits it to clinicians through the Medtronic CareLink Network. This application is installed on a patient-owned tablet or smart phone and communicates with the implanted device via Bluetooth® wireless technology.

PMOP (Post Mode Switch Overdrive Pacing) – atrial intervention feature that works with the Mode Switch feature to deliver overdrive atrial pacing during the vulnerable phase following an AT/AF episode termination.

Post Shock Pacing – feature that provides temporary pacing support after a high-voltage therapy by increasing the pacing amplitude and pulse width to prevent loss of capture.

Post VT/VF Shock Pacing – feature that provides temporary overdrive pacing that may improve cardiac output after a high-voltage therapy.

Pre-arrhythmia EGM storage – programmable option to record EGM from before the onset or detection of a tachyarrhythmia. While this feature is operating, the device records EGM continuously. If a tachyarrhythmia episode occurs, the most recently collected EGM is added to the episode record to document the rhythm at onset.

PR Logic – set of features that uses pattern and rate analysis to discriminate between supraventricular tachycardias (SVTs) and true ventricular tachyarrhythmias.

Progressive Episode Therapies – feature that causes the device to skip therapies or modify high-voltage energy levels to ensure that each therapy delivered during an episode is at least as aggressive as the previous therapy.

PVAB (Post-Ventricular Atrial Blanking) – interval after ventricular events during which atrial events are ignored by bradycardia pacing features or are not sensed by the device, depending on the programmed PVAB method.

GLOSSARY

PVARP (Post Ventricular Atrial Refractory Period) – atrial refractory period following a ventricular event used to prevent inhibition or pacemaker-mediated tachycardias (PMTs) in dual chamber pacing modes.

PVC (premature ventricular contraction) – a sensed ventricular event that directly follows any other ventricular event with no atrial event between them.

PVC Response – feature that extends PVARP following a premature ventricular contraction (PVC) to avoid tracking a retrograde P-wave and to prevent retrograde conduction from inhibiting an atrial pace.

Quick Look – implantable device app screen that presents overview data about device operation and patient rhythms collected since the last patient session. It includes links to more detailed status and diagnostic information stored in the device, such as arrhythmia episodes and therapies provided.

Ramp pacing – antitachycardia pacing (ATP) therapy that delivers pacing pulses with progressively shorter pacing intervals per pulse. Each sequence of Ramp pacing that is delivered during a therapy includes an additional pacing pulse.

Rate Adaptive AV (RAAV) – dual chamber pacing feature that varies the Paced AV (PAV) and Sensed AV (SAV) intervals as the heart rate increases or decreases to maintain 1:1 tracking and AV synchrony.

Rate Drop Response – feature that monitors the heart for a significant drop in rate and responds by pacing the heart at an elevated rate for a programmed duration.

Rate Drop Response episodes data – feature that displays beat-to-beat data that is useful in analyzing Rate Drop Response episodes and the events leading up to those episodes.

Rate Histograms – diagnostic feature that shows range distributions for a patient's heart rate.

rate profile – rate histogram of the sensor rates used by Rate Profile optimization to automatically adjust Rate Response settings.

Rate Profile Optimization – feature that monitors the patient's daily and monthly sensor rate profiles and adjusts the rate response curves over time to achieve a prescribed target rate profile.

Rate Response – feature that adjusts the cardiac pacing rate in response to changes in sensed patient activity.

Reactive ATP – algorithm that allows the device to repeat programmed atrial antitachycardia pacing (ATP) therapies during long AT/AF episodes. Therapies are repeated after a programmed time interval or when the atrial rhythm changes in regularity or cycle length.

reference impedance – a baseline against which daily thoracic impedance is compared to determine if thoracic fluid is increasing.

refractory period – time interval during which the device senses events normally but classifies them as refractory and responds to them in a limited way.

Remaining longevity estimate – an estimate of remaining device longevity that is displayed on the Quick Look screen and the BATTERY AND LEAD MEASUREMENTS window. This information includes a graphical display for

GLOSSARY

easy reference and the estimated number of years or months of remaining longevity. In the battery and lead measurements window, the minimum and maximum number of years or months of remaining device longevity are also provided. The remaining longevity estimate is updated when parameters are reprogrammed and when the device is interrogated.

RESUME – programming command that reinstates automatic tachyarrhythmia detection.

retrograde conduction – electrical conduction from the ventricles to the atria.

RRT (Recommended Replacement Time) – battery status indicator displayed by the implantable device app to indicate when replacement of the device is recommended.

RV Lead Integrity Alert – feature that sounds an alert tone to warn the patient that a potential RV lead problem is suspected, which could indicate a lead fracture.

RV Lead Noise Alert – feature that sounds an alert tone when RV Lead Noise Discrimination withholds VT/VF detection because of the presence of noise on the RV lead. Noise could indicate lead fracture, breached lead insulation, lead dislodgment, or improper lead connection.

RV Lead Noise Discrimination – feature that compares a far-field EGM signal to the near-field sensing signal to differentiate RV lead noise from VT/VF. If lead noise is identified when these signals are compared, the device withholds VT/VF detection and therapy and triggers an RV Lead Noise Alert.

Sensed AV (SAV) interval – programmable delay following an atrial sensed event that schedules a corresponding ventricular pace.

sensed event – electrical activity across the sensing electrodes that exceeds the programmed sensitivity threshold and is identified by the device as a cardiac event.

Sensing Integrity Counter – diagnostic counter that records the number of short ventricular intervals that occur between patient sessions. A large number of short ventricular intervals may indicate double-counted R-waves, lead fracture, or a loose setscrew.

sensor rate – the pacing rate determined by the level of patient activity and the programmed rate response parameters; this rate is adjusted between the Upper Sensor Rate and the operating Lower Rate.

sequence, ATP – one programmable set of antitachycardia pacing (ATP) therapy pulses.

Sinus Tach feature – PR Logic feature designed to discriminate between high rate sinus tachycardia and ventricular tachyarrhythmia.

Sleep – feature that causes the device to pace at a slower rate during a programmed sleep period.

Smart Mode – feature that disables an ATP therapy that has been unsuccessful in 4 consecutive episodes so the device can treat subsequent episodes more quickly with therapies that have been effective.

Stability – feature that helps prevent detection of atrial fibrillation as ventricular tachyarrhythmia by evaluating the stability of the ventricular rate. If the device determines that the ventricular rate is not stable, it withholds VT detection.

GLOSSARY

SUSPEND – programming command that temporarily deactivates the tachyarrhythmia detection functions.

SVT V. Limit – feature that allows you to program a highest rate for which PR Logic and Wavelet can withhold detection and therapy.

synchronization – period during defibrillation and cardioversion therapies when the device attempts to deliver the therapy shock simultaneously with a sensed ventricular event.

thoracic impedance – impedance across the thorax as measured from 2 points within the thorax.

TWave Discrimination – feature that withholds VT/VF detection when a fast ventricular rate is detected because of oversensed T-waves.

undersensing – failure of the device to sense intrinsic cardiac activity.

ventricular antitachycardia pacing (ATP) – therapies that respond to a VT episode or an FVT episode with rapid sequences of pacing pulses to end detected ventricular tachyarrhythmias.

ventricular cardioversion – therapy that delivers a high-voltage shock to treat a VT or an FVT episode. Therapy is synchronized to a sensed ventricular event.

ventricular fibrillation (VF) therapies – therapies that deliver automatic defibrillation shocks to treat VF episodes. The first defibrillation therapy requires VF confirmation before delivery. After the first shock has been delivered, shocks are delivered asynchronously if synchronization fails.

Ventricular Rate Stabilization (VRS) – ventricular rhythm management feature that adjusts the pacing rate dynamically to eliminate the long pause that typically follows a premature ventricular contraction (PVC).

Ventricular Safety Pacing (VSP) – pacing therapy feature that prevents inappropriate inhibition of ventricular pacing caused by crosstalk or ventricular oversensing.

Ventricular Sense Response (VSR) – feature intended to promote continuous CRT pacing by providing ventricular pacing in response to ventricular sensed events.

Ventricular sensing episodes data – feature that compiles diagnostic information to help the clinician identify the cause of ventricular sensing episodes and reprogram the device to avoid these episodes.

VF confirmation – device operation that confirms the presence of VF after initial detection but before a defibrillation therapy is delivered. This feature applies only to the first programmed VF therapy.

VT/VF detection – feature that uses programmable detection zones to classify ventricular events. Depending on programming, the device delivers a scheduled therapy, re-evaluates the patient's heart rhythm, and ends or re-detects the episode.

VT monitoring – programmable option that allows the device to detect fast rhythms as VT and record episode data without delivering VT therapy.

GLOSSARY

Wavelet – feature designed to prevent detection of rapidly conducted SVTs as ventricular tachyarrhythmias by comparing the shape of each QRS complex during a fast ventricular rate to a template.

Brief Statement

See the device manual for detailed information regarding the instructions for use, the implant procedure, indications, contraindications, warnings, precautions, and potential adverse events. If using an MRI SureScan™ device, see the MRI SureScan™ technical manual before performing an MRI. For further information, contact your local Medtronic representative and/or consult the Medtronic website at [medtronic.eu](https://www.medtronic.eu).

For applicable products, consult instructions for use on www.medtronic.com/manuals.

Manuals can be viewed using a current version of any major internet browser.

For best results, use Adobe Acrobat® Reader with the browser.

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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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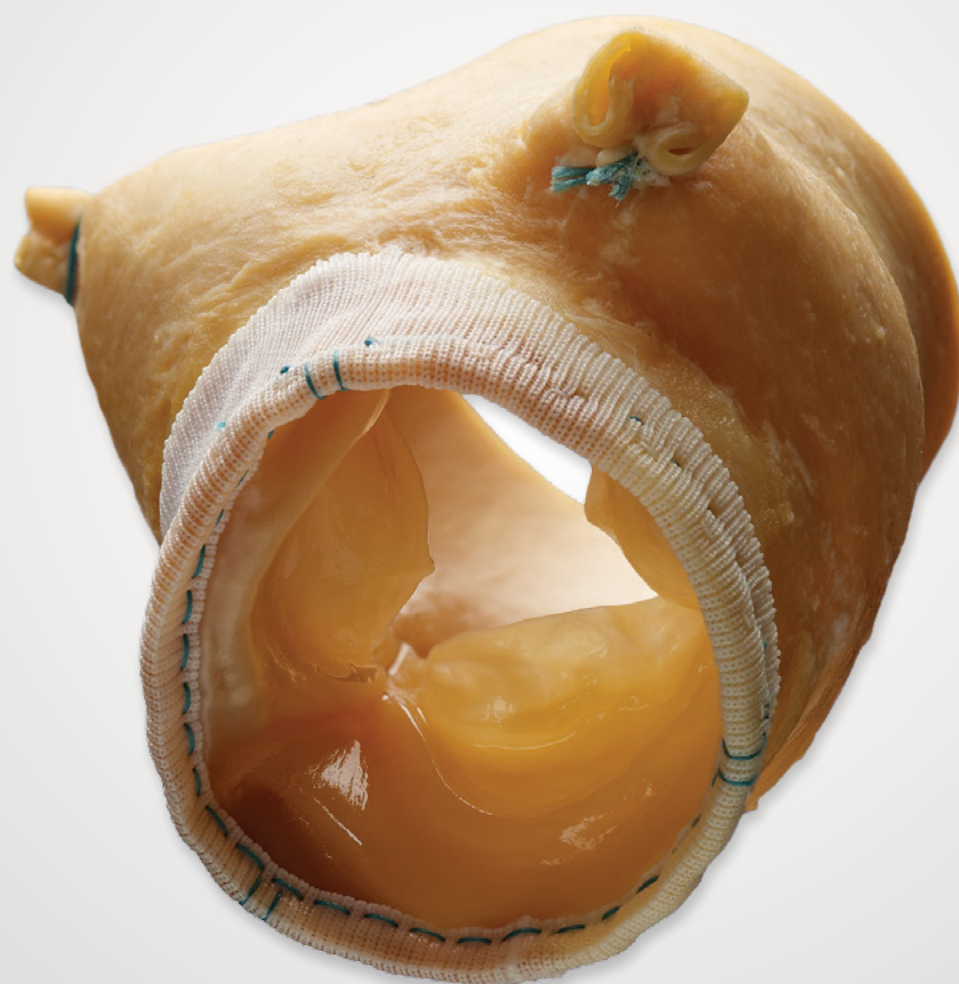
Superior Hemodynamics^{1,2,3}

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.
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3. Silberman S, et al. Exercise hemodynamics of aortic prostheses: Comparison between stentless bioprostheses and mechanical valves. *Ann Thorac Surg* 2001;72:1217-21.
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Freestyle™

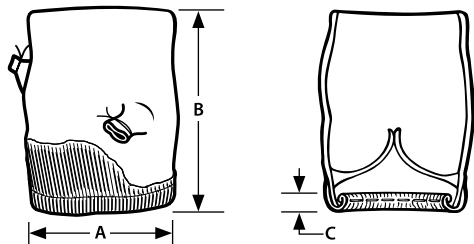
Aortic Root Bioprosthesis

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

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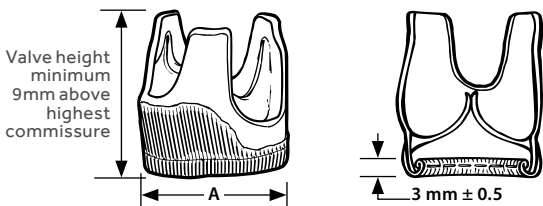
Freestyle Full Root Bioprosthesis

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



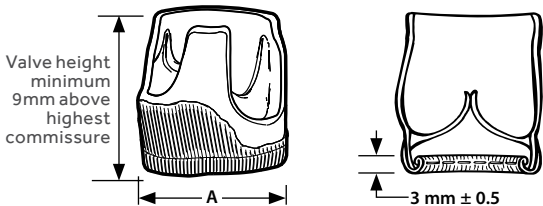
Prestyled Freestyle Complete Subcoronary Bioprosthesis

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



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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

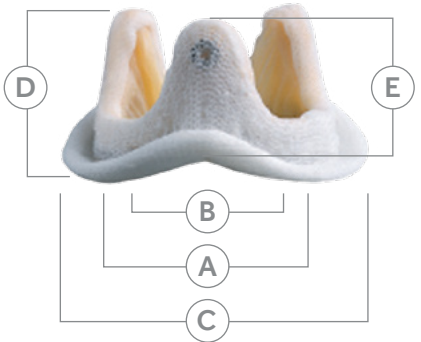
Bioprosthetic Valve

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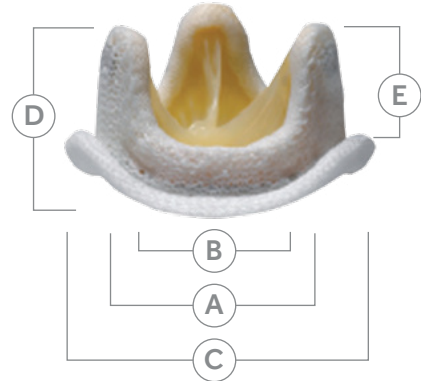
Hancock II Aortic Heart Valve

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



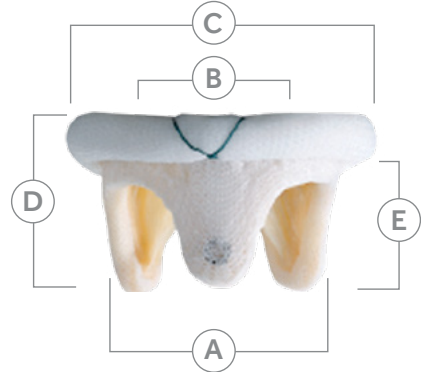
Hancock II Ultra™ Aortic Heart Valve

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



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

Mosaic™

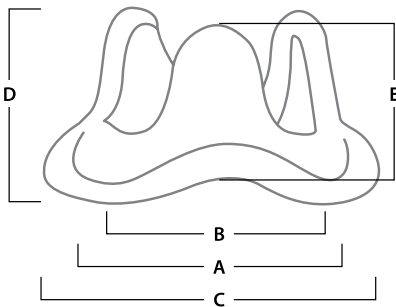
Bioprosthesis

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

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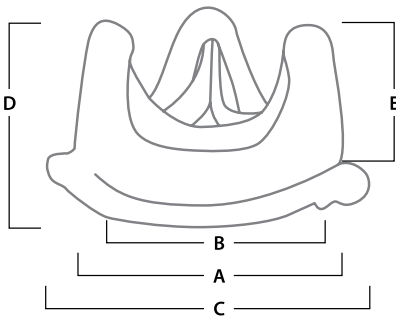
Mosaic Aortic Valve, Model 305

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



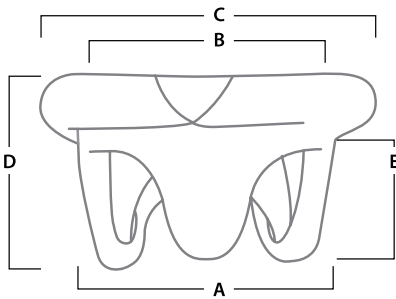
Mosaic Ultra Aortic Valve, Model 305

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}



References

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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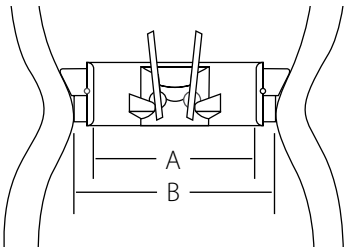
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Open Pivot Standard Heart Valve Aortic

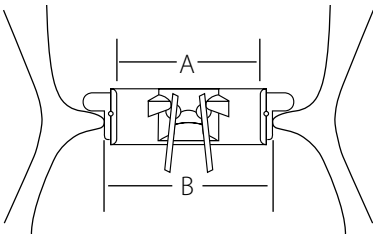
Order Number	Valve Size (mm)	A Orifice Inner Diameter (mm)	B Tissue Annulus (mm)	Geometric Orifice Area (cm ²)
500FA19	19	14.8	19.5	1.55
500FA21	21	16.8	21.5	2.02
500FA23	23	18.8	23.5	2.56
500FA25	25	20.8	25.5	3.17
500FA27	27	22.8	27.5	3.84
500FA29	29	24.8	29.5	4.59
500FA31	31	26.8	31.5	5.35



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



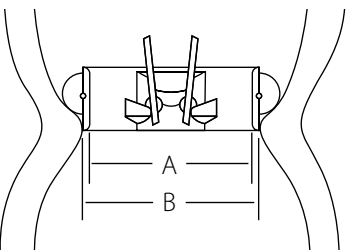
Standard Mitral

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

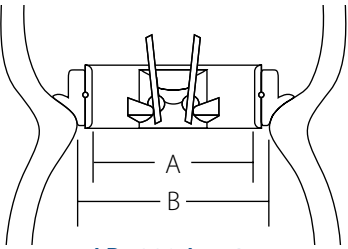
Order Number	Valve Size (mm)	A Orifice Inner Diameter (mm)	B Tissue Annulus (mm)	Geometric Orifice Area (cm ²)
501DA16/505DA16	16	14.8	16.2	1.55
501DA18/505DA18	18	16.8	18.2	2.02
501DA20/505DA20	20	18.8	20.2	2.56
501DA22/505DA22	22	20.8	22.2	3.17
501DA24/505DA24	24	22.8	24.2	3.84
501DA26/505DA26	26	24.8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



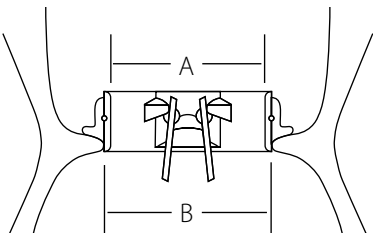
AP Aortic

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

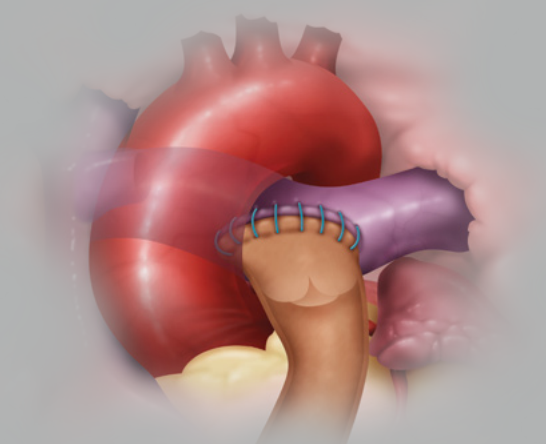
- Available in supported and unsupported models
- Preserved in buffered glutaraldehyde
- Readily available—no thawing or preclotting required



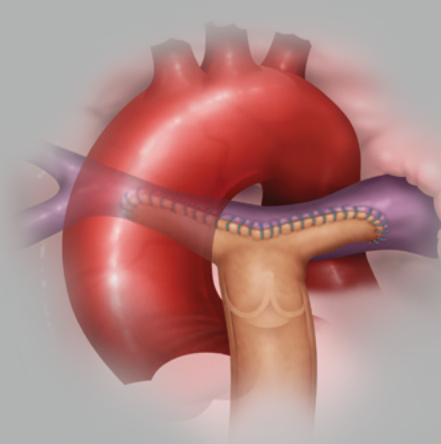
No discontinuity between the lumen and valve



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

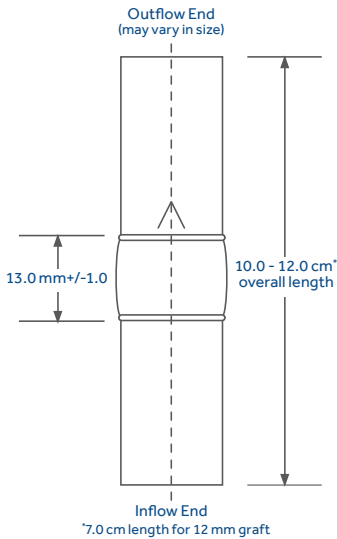
Order Number	Internal Diameter (Inflow End) (mm)
200SH12	12
200SH14	14
200SH16	16
200SH18	18

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

Storage Temperature

+15 °C
+59 °F

+25 °C
+77 °F



Contegra Pulmonary Valve Conduit - Unsupported

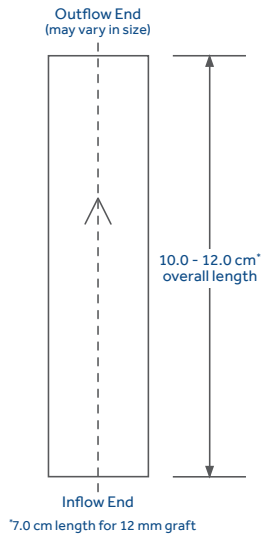
Order Number	Internal Diameter (Inflow End) (mm)
200H12	12
200H14	14
200H16	16
200H18	18

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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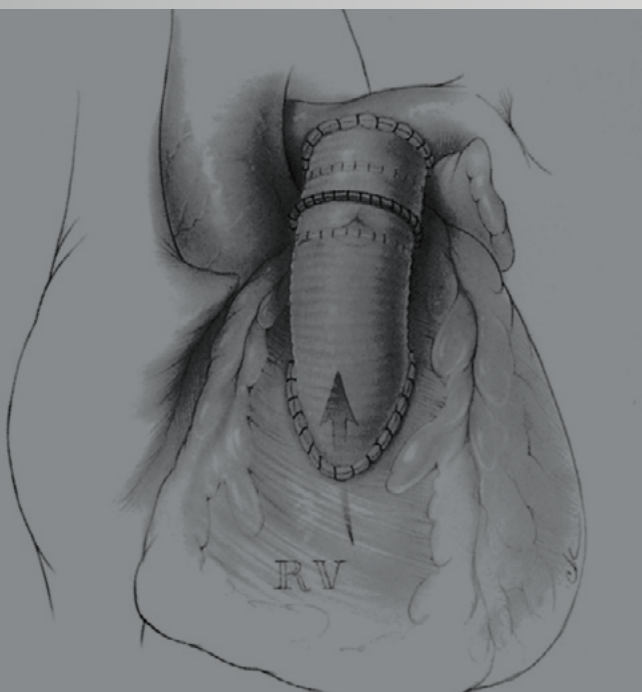
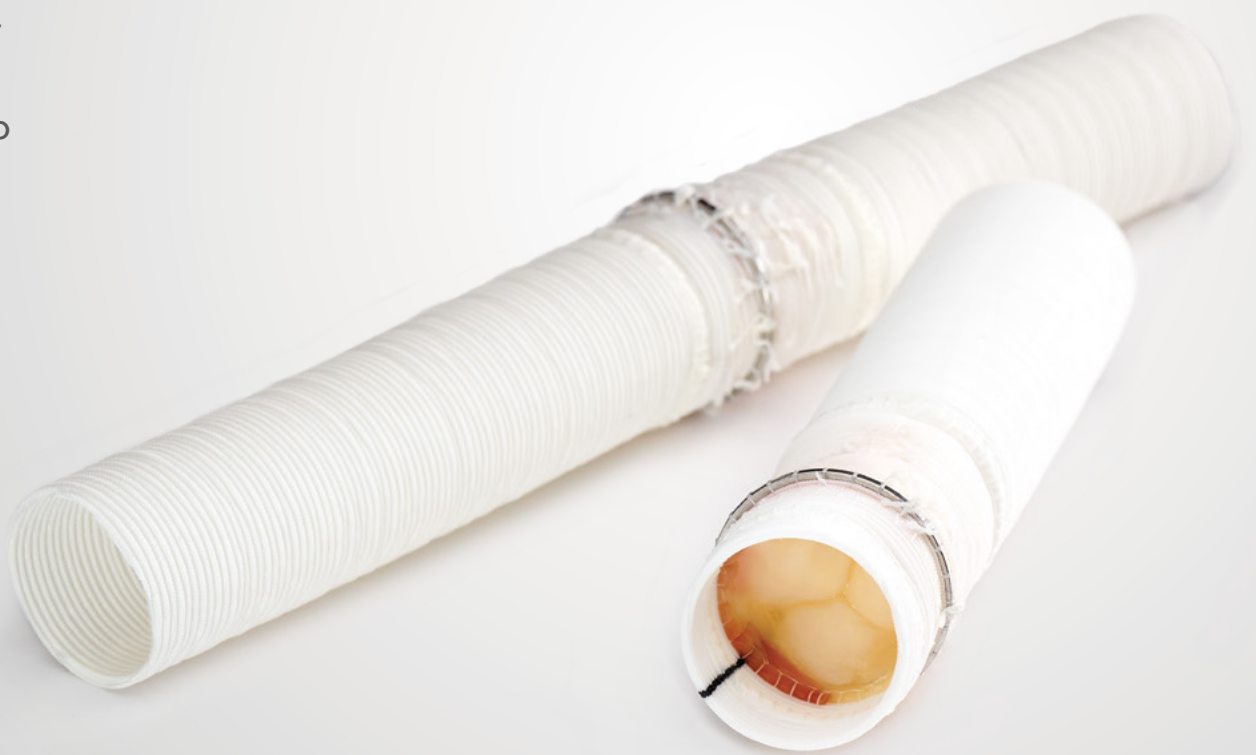
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A Proven Alternative

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

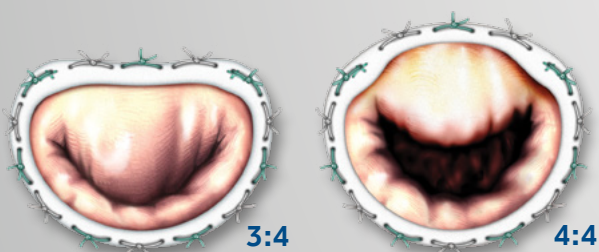
Order Number	Valve Size (mm)
HC05012	12
HC05014	14
HC05016	16
HC05018	18
HC05020	20
HC05022	22
HC05025 	26

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™

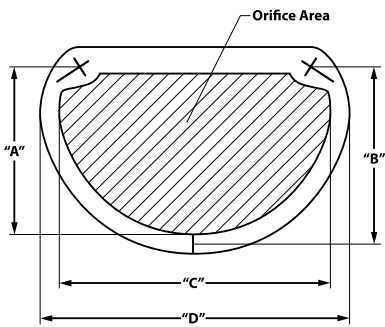
Semi-Rigid Annuloplasty Ring and Band

More physiologically-based mitral solutions.

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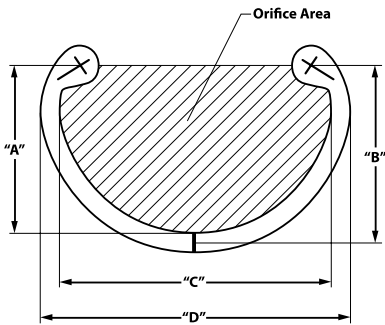
CG Future Annuloplasty Ring, Model 638R

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

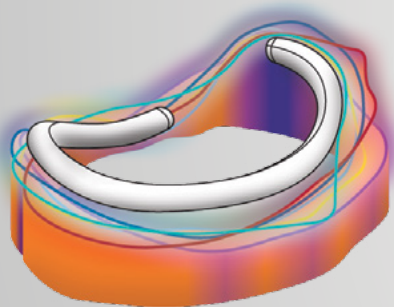
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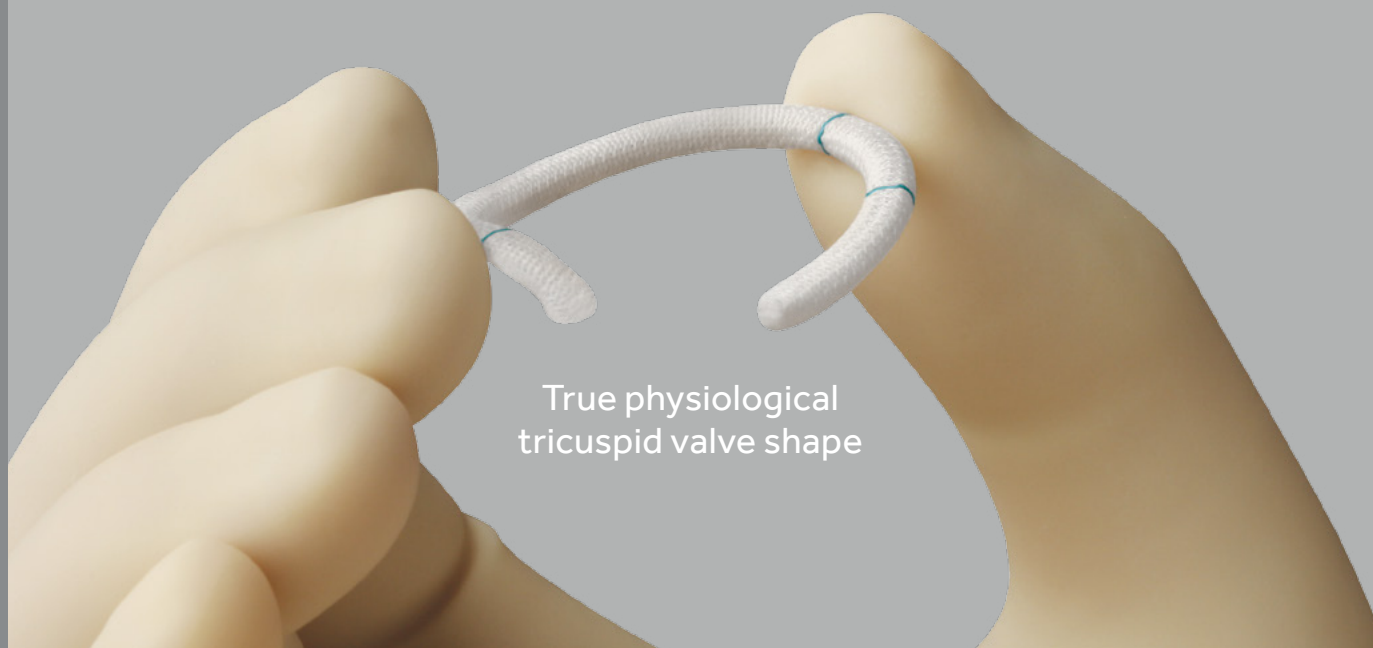
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Restores Anatomic 3D Shape

- 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™

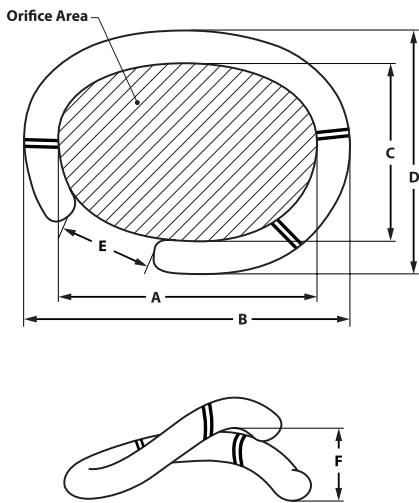
Tricuspid Annuloplasty Ring

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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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

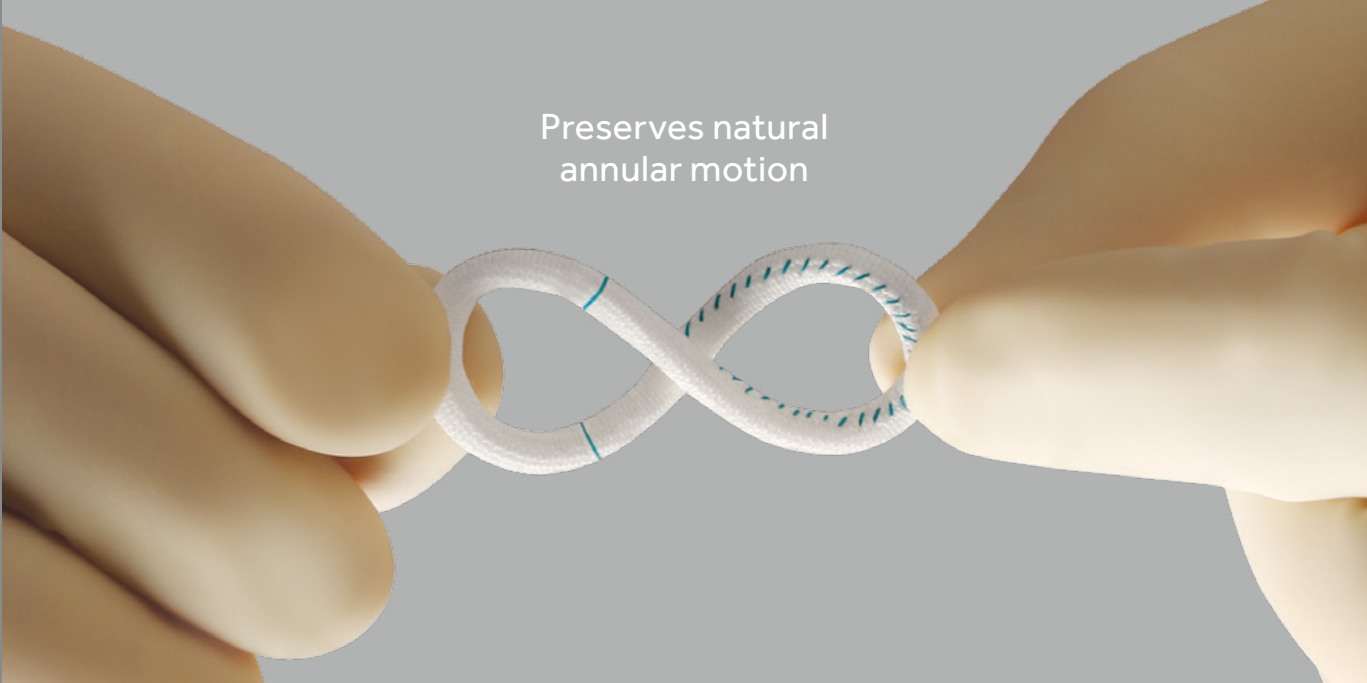
Ease of Implant

- 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™

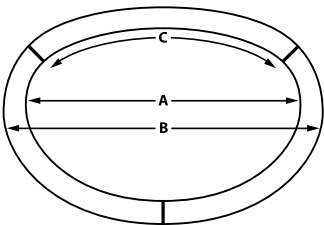
Flexible Annuloplasty Ring and Band

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

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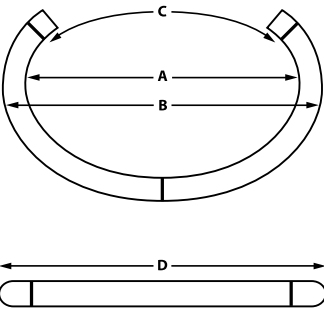
Duran AnCore Annuloplasty Ring, Model 620R

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.

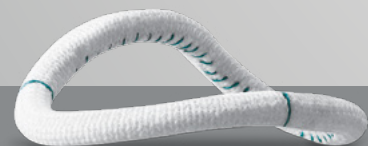
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Restoring Annular Geometry

- 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™

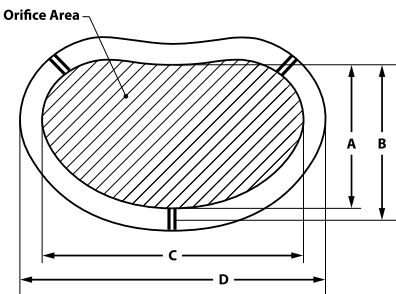
Rigid Annuloplasty Ring

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

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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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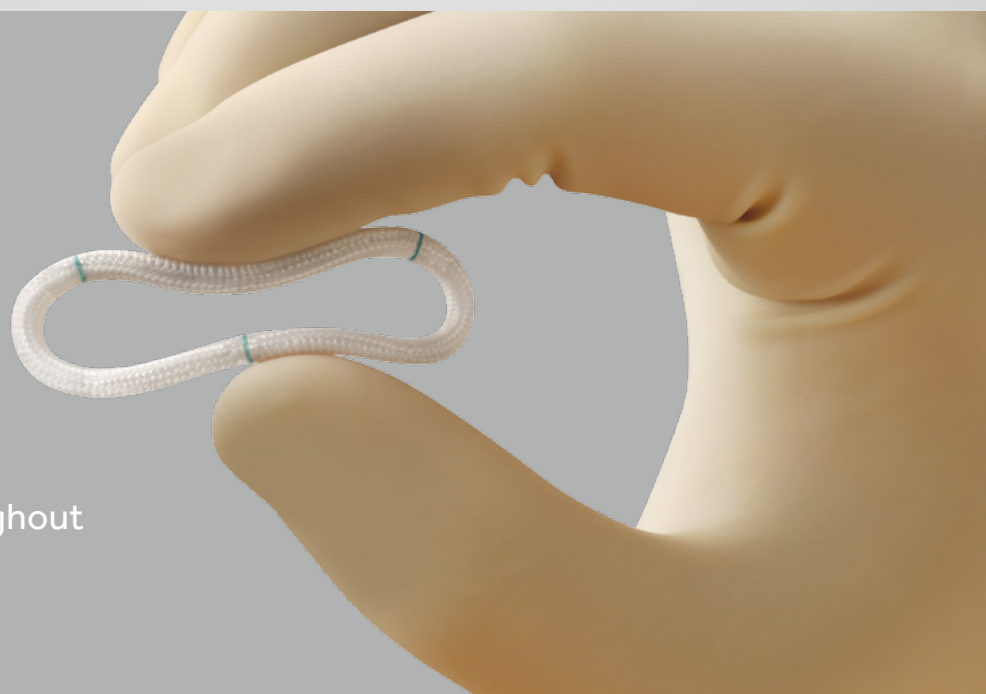
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Unique Braided Polyester

- 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™

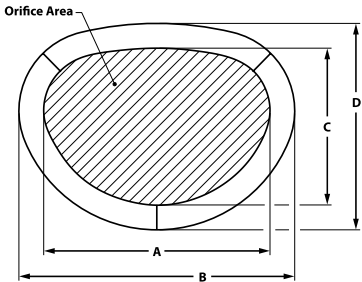
Flexible Annuloplasty Ring and Band

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

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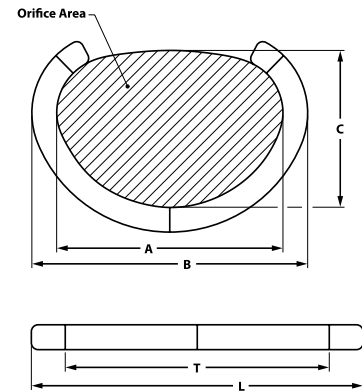
Simulus Flexible Annuloplasty Ring, Model 700FF

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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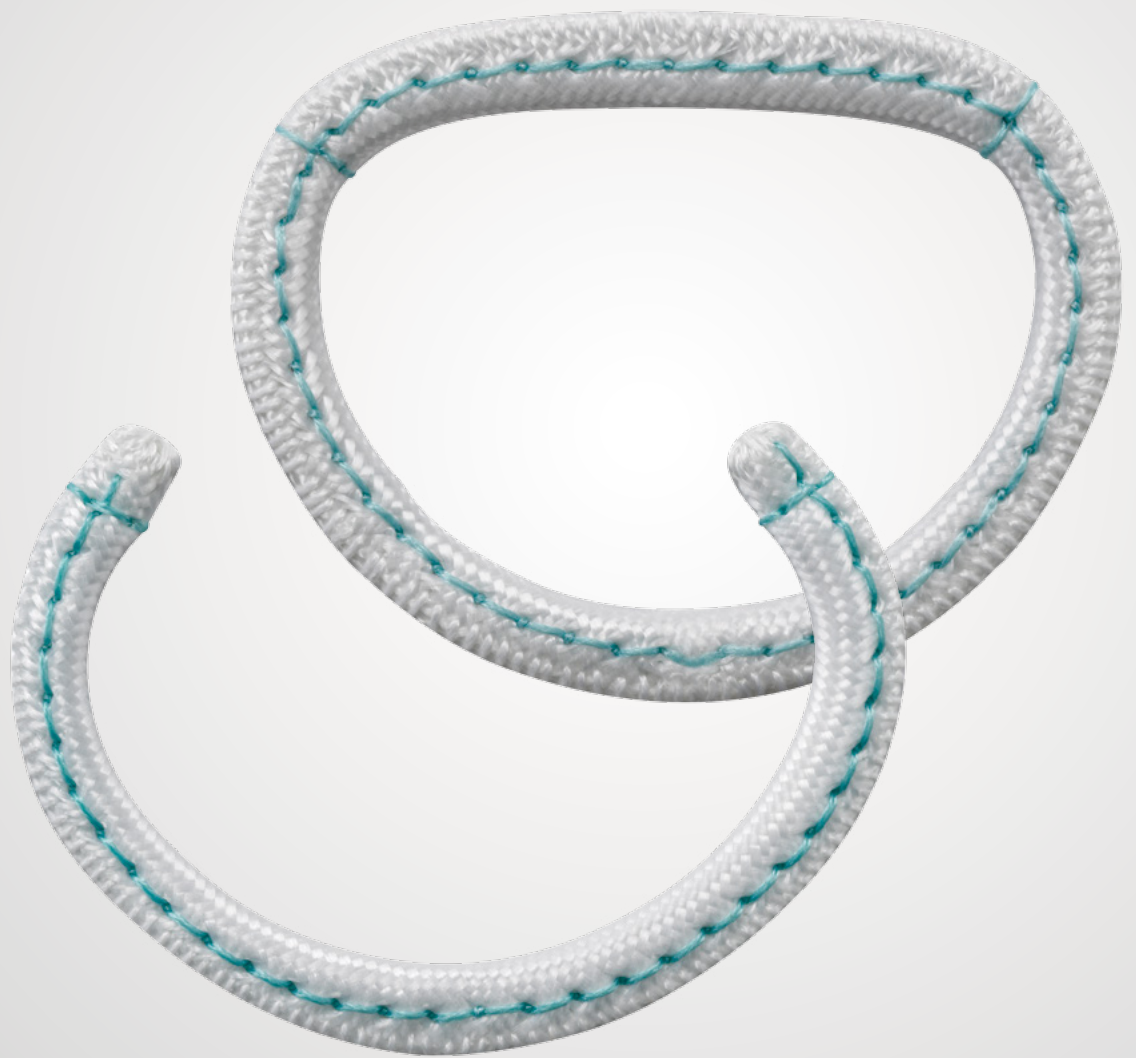
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Saddle and Flat Shape

- 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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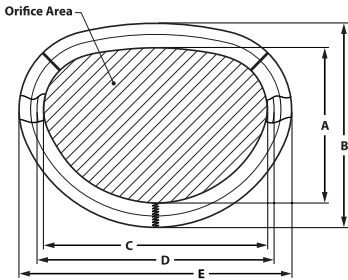
HEART VALVES

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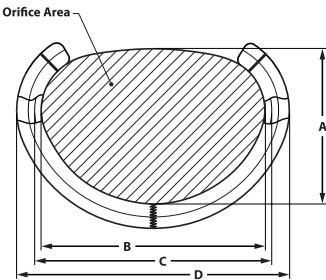
Simulus Semi-Rigid Annuloplasty Ring, Model 800SR

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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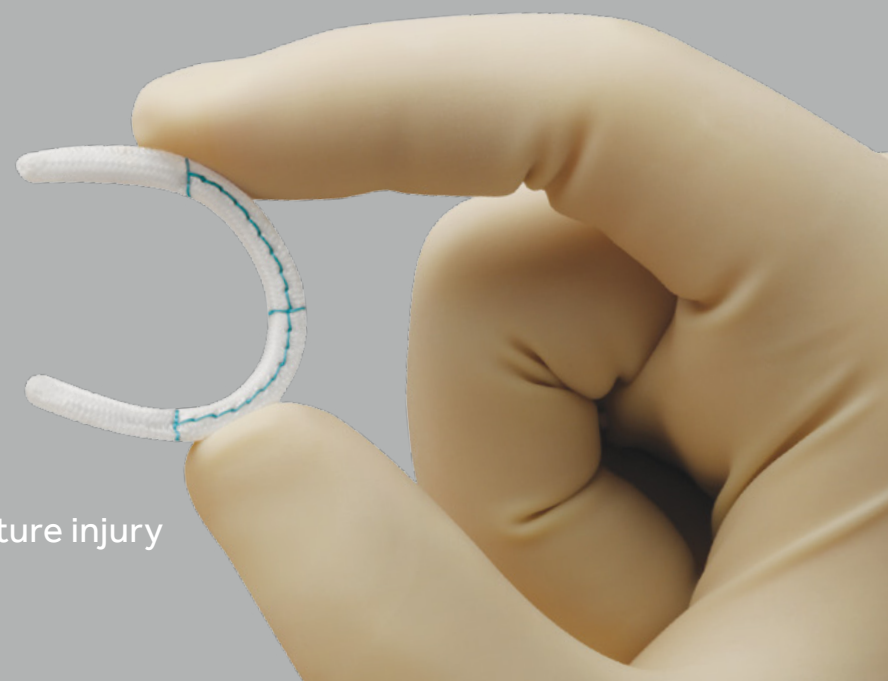
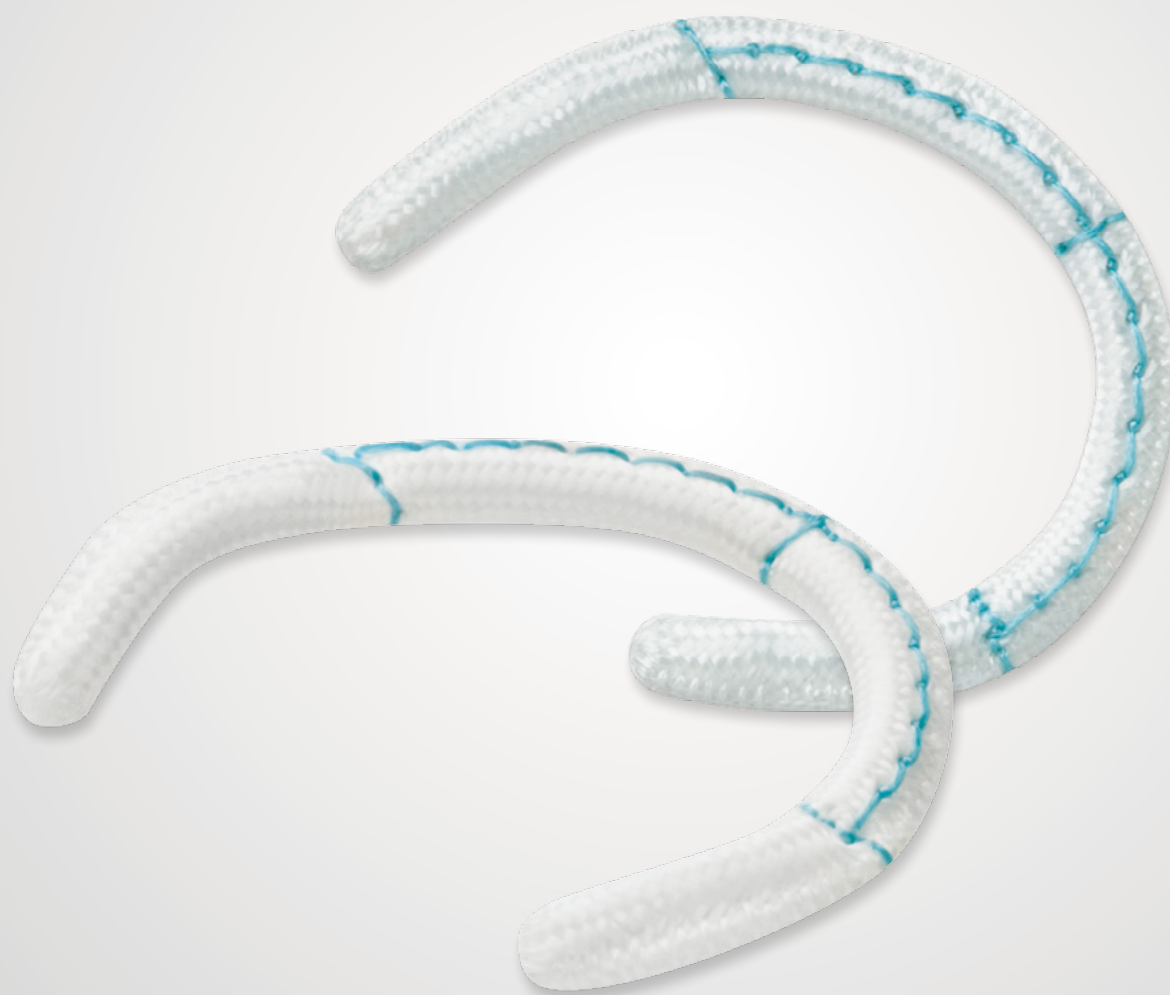
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Smooth Implantation

- 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

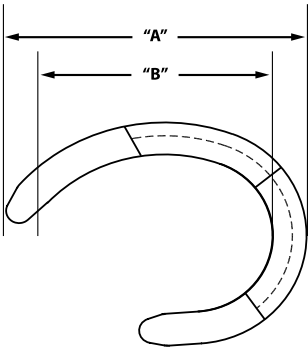
Adams Tricuspid Annuloplasty Ring

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

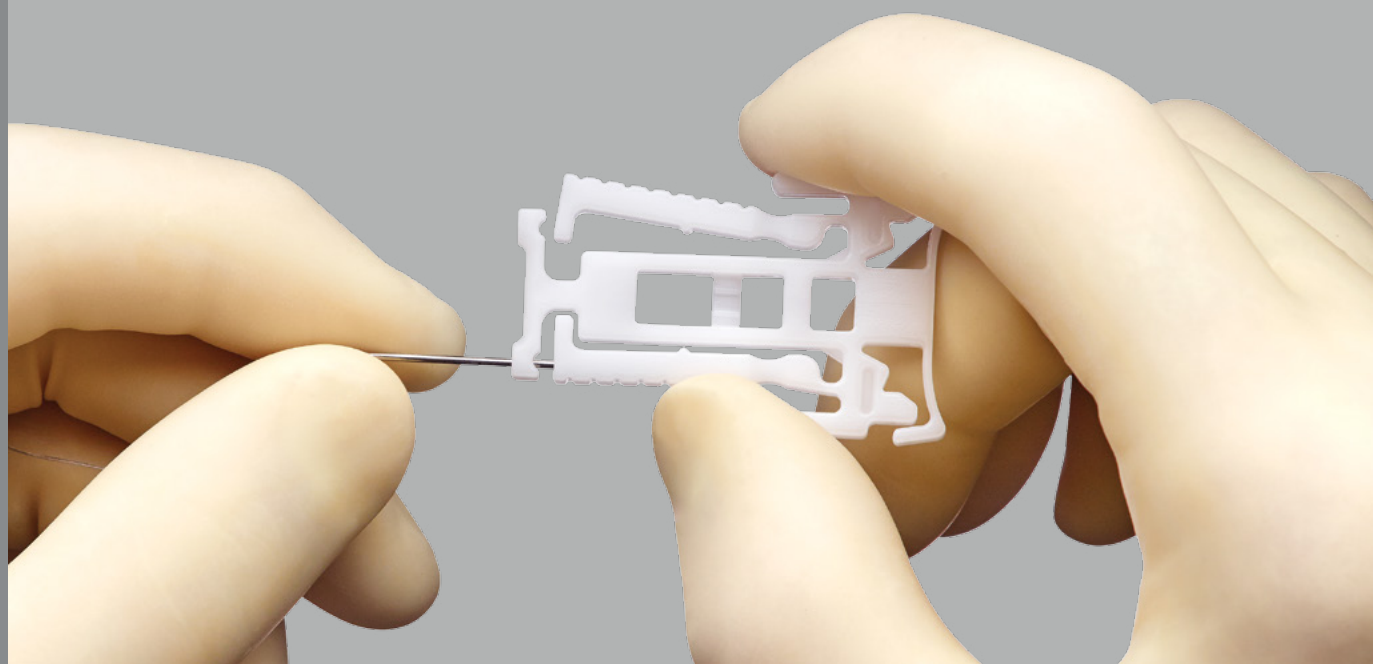
The Streamline family is the gold standard in temporary pacing leads.

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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

Cardioblate™ iRF

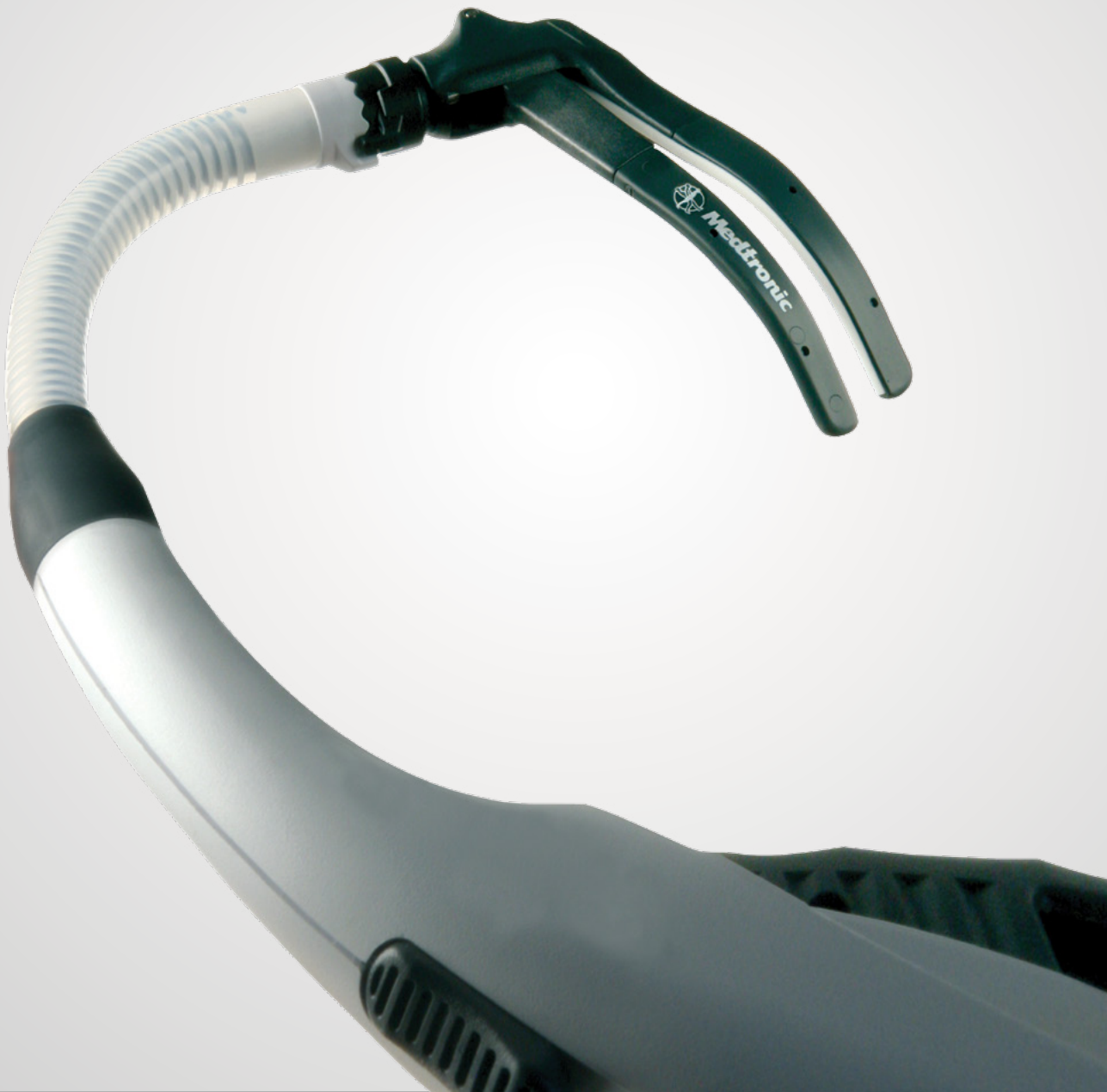
Surgical Ablation System

Unique malleability delivers irrigated RF to confidently create transmural lesions.

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Designed For Easy Access

Cardioblate 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.

Cardioblade™ iRF

Surgical Ablation System

Unique malleability delivers irrigated RF to confidently create transmural lesions.

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Cardioblade iRF Surgical Ablation Systems

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



Cardioblade 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	Cardioblade Gemini-s Surgical Ablation Device & Cardioblade MAPS Device (1 each packed and shipped separately)



Cardioblade 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



CryoFlex Control Console

CryoFlex Probe

OPCAB

Conventional Beating Heart Surgery

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

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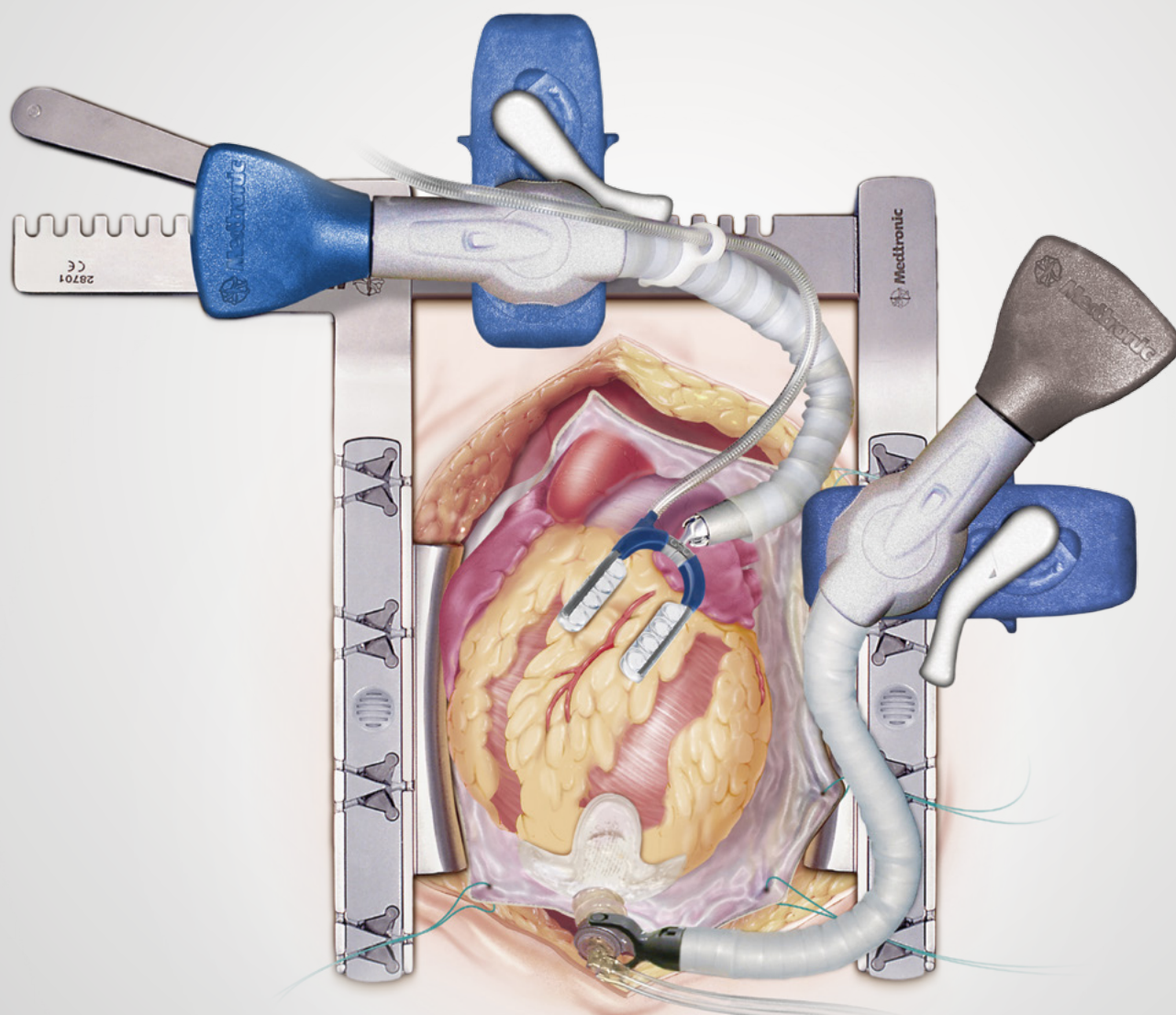
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Facilitating Solutions

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

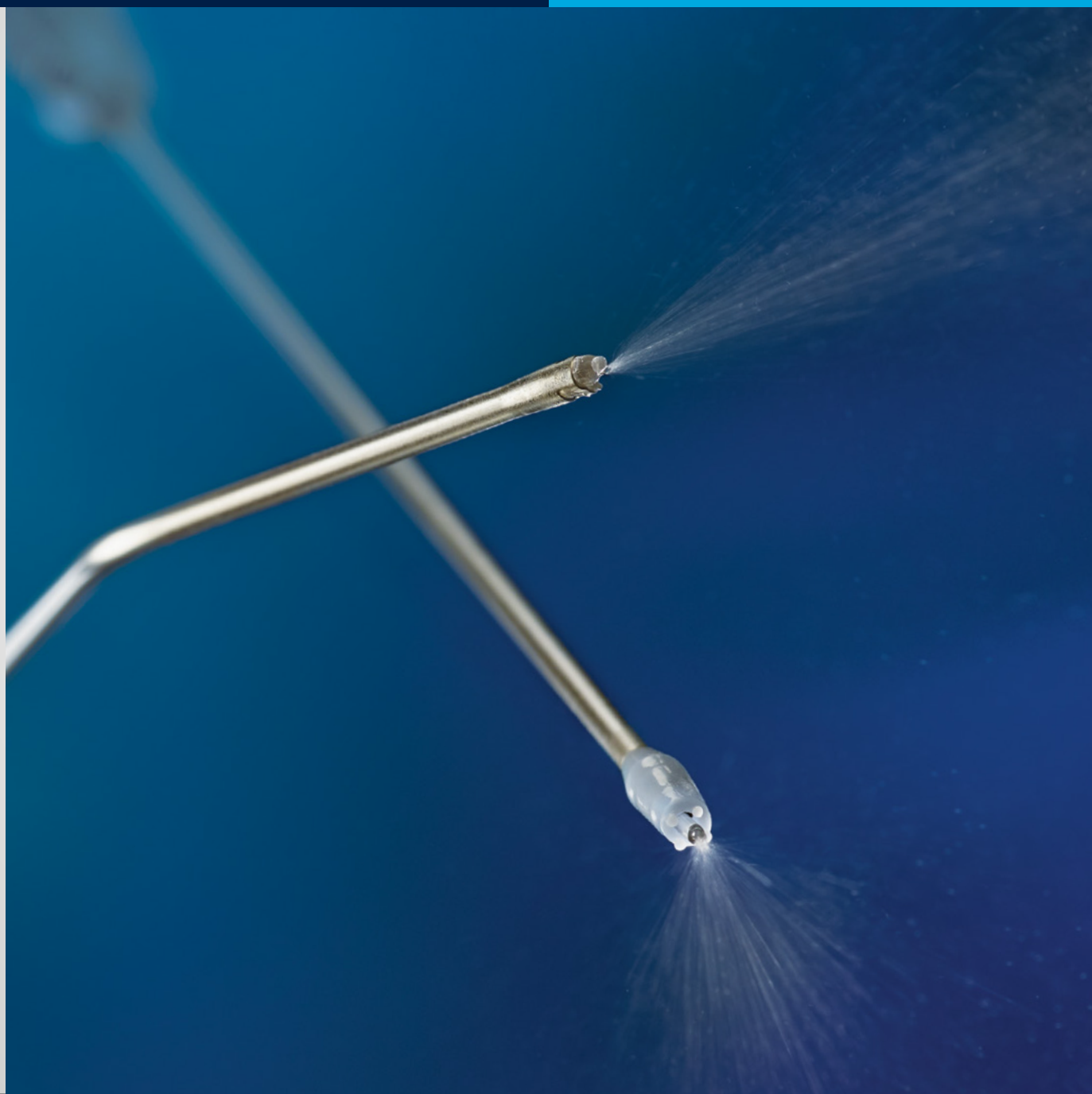
Contributing to the ease and success of your procedures.

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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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TRUE DILATATION™

Balloon Valvuloplasty Catheter

Bard Peripheral Vascular

2014 PRODUCT LIST

CONQUEST® 40

PTA Dilatation Catheter

ATLAS® GOLD
PTA Dilatation Catheter

SIDEKICK®

Support Catheter

BARD®

Snare Retrieval Kit

DENALI®

Vena Cava Filter

USHER®

Support Catheter

VIDA™

PTV Dilatation Catheter

POWERPORT® CLEARVUE®

Implantable Port

BARD

**PERIPHERAL
VASCULAR**

TERMS AND CONDITIONS OF SALE

The following terms and conditions of sale constitute an integral part of this Bard Peripheral Vascular, Inc. ("BPV") product price list (the "Price List") and are applicable to all purchase orders. All prices and terms are subject to change.

I. Acceptance of Purchase Orders

All purchase orders are subject to acceptance at BPV's customer service department located in Tempe, Arizona and will be deemed accepted only when confirmed in writing or upon BPV's commencement of performance. For convenience, customers may place purchase orders or make inquiries (between the hours of 6:00 a.m. – 4:30 p.m. Arizona Time, Monday – Friday, exclusive of all federal and state holidays) by calling toll free at 1-800-321-4254 or by toll free fax at 1-800-440-5376.

Mail purchase orders to:

Bard Peripheral Vascular, Inc.
P.O. Box 1740
Tempe, AZ 85280-1740
Attn: Customer Service

II. Payment Terms

Payment is due no later than 30 days from the date of the invoice.

III. Additional Charges

All applicable excise, sales, or other taxes will be invoiced to customer and are not included in product prices.

IV. Shipping and Related Charges

Standard Shipments: Terms of sale on all purchase orders are F.O.B. shipping point. Each purchase order will incur a shipping and handling charge of \$30.00. All shipments of product will be placed with the carrier for requested 2-day delivery.

Expedited Shipments: Customers requiring expedited delivery will be invoiced for the charge associated with the expedited delivery, but not less than \$40.00.

Shipping Damage: Although BPV takes special care in the packaging of its products, damage may occur in transit. All products must be inspected and any damage noted on the freight bill and reported to the carrier, upon receipt of product. Although BPV's responsibility for damage ceases upon deposit with carrier, BPV may extend assistance in helping customers settle damage claims.

V. Return Goods and Allowance Policy

Return Authorization/Repairs: Customer must obtain a return authorization number from BPV before any BPV product can be returned for repair, replacement, refund, or credit. To obtain a return authorization number, customer must provide BPV with: (1) the BPV catalog number and quantity of BPV product to be returned; (2) the reason for the return/repair; (3) a description of the BPV product being returned for repair; (4) the name and telephone number of a customer contact who may be called if BPV requires further information; and (5) at least one of the following: (i) the applicable customer purchase order number; (ii) the applicable BPV invoice number; or (iii) the applicable BPV product lot or serial number. A purchase order is required for all repairs even in situations where there is no charge. If the BPV product to be repaired is covered by a written limited product warranty, a copy of the original invoice must be sent with the BPV product. The cost of any repair not covered by a written limited product warranty must be paid by the customer.

Non-Returnable Products: Customer is not entitled to return, and is not eligible to receive repair, replacement, refund, or credit for any BPV product described below (collectively, "Non-Returnable Products"):

- product damaged in transit;
- product shipped in error and returned more than 30 days after the date of the applicable BPV invoice (unless such product is subject to a recall arising out of the negligent acts or omissions of BPV (a "Qualified Recall"));
- non-defective product returned in a quantity less than BPV's original unit of sale;
- non-defective product returned more than 90 days after date of applicable BPV invoice (unless part of a Qualified Recall);
- defective product returned after expiration of the applicable warranty period (unless part of a Qualified Recall);
- product sold non-sterile that has been subjected to sterilization processing;
- product sold for single use that has been re-used or re-processed;
- product that has been altered, further manufactured, packaged, processed, abused, or misused;
- product that has been adjusted or repaired by anyone other than BPV or a person or entity authorized in writing by BPV; or
- product that is a "custom" device unless such product is defective for a reason other than manufacture to customer's specifications.

Authorized Return Products and Freight Charges: With regard to those BPV products (other than Non-Returnable Products) for which customer has obtained a return authorization number, BPV will accept returns of such products if they are: (1) determined by BPV to be defective and returned within the applicable warranty period; (2) not defective, in saleable condition and returned within 90 days of the corresponding BPV invoice date; (3) subject to a Qualified Recall; or (4) returned within 30 days of the corresponding BPV invoice date and represent product shipped in error by BPV (such products, collectively, "Authorized Return Products"). All Authorized Return Products must be returned freight prepaid by customer. Any Authorized Return Product returned freight collect will be refused by BPV and returned to customer at its expense. BPV will, at its option, refund or credit customer for all freight charges incurred in connection with returning to BPV any Authorized Return Product.

Allowance Schedule for Authorized Return Products: For those Authorized Return Products that BPV has elected to provide a refund or credit, BPV will pay a refund or issue a credit to customer within 30 days of BPV's receipt of the Authorized Return Product, based on the original purchase price, in accordance with the following:

Condition	Credit
Defective product returned within the applicable product warranty period	Full Credit*
Non-defective product returned in saleable condition within 45 days of corresponding BPV invoice date	Full Credit*
Non-defective product returned in saleable condition within 46-90 days of corresponding BPV invoice date	Full Credit* minus 20% reprocessing charge (minimum \$10.00 charge)
Product shipped in error by BPV and returned in saleable condition within 30 days of corresponding BPV invoice date	Full Credit*
Product subject to a Qualified Recall	Full Credit*

*Less any credits issued by BPV to customer with respect to such product.

VI. Confidentiality

Customer will not disclose to any third party these terms and conditions, including the Price List, or any other information provided by BPV to customer, without BPV's prior written approval, except as may be required by law or by lawful order of any applicable government agency.

VII. Limited Product Warranty; Disclaimer and Limitation of Liability

BPV warrants to the original purchaser that each BPV product set forth in the Price List will be free from defects in material and workmanship for the period set forth in the labeling of the particular BPV product or, if no such period is set forth in the labeling, for a period of one (1) year from the date of purchase. Defective BPV product may be returned to BPV for repair, replacement, refund or credit, at BPV's option, in accordance with BPV's return goods and allowance policy. Any alteration, abuse, misuse, further manufacture, packaging, processing, adjustment or repair by any person or entity other than BPV or a person or entity authorized in writing by BPV shall void this limited product warranty ab initio. THIS LIMITED PRODUCT WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE LIABILITY AND REMEDY STATED IN THIS LIMITED PRODUCT WARRANTY WILL BE THE SOLE LIABILITY OF BPV, AND REMEDY AVAILABLE TO CUSTOMER, FOR BPV PRODUCTS WHETHER IN CONTRACT, TORT (INCLUDING NEGLIGENCE) OR OTHERWISE, AND BPV WILL NOT BE LIABLE TO CUSTOMER FOR ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE HANDLING OR USE OF BPV PRODUCTS EVEN IF BPV HAS BEEN ADVISED OF THE POSSIBILITY OR LIKELIHOOD OF SUCH DAMAGES. IN NO EVENT WILL BPV BE LIABLE FOR ANY CLAIM, LOSS OR DAMAGE ARISING OUT OF OR RELATING TO, IN WHOLE OR IN PART, ANY PURCHASE ORDER, THESE TERMS AND CONDITIONS OF SALE, OR ANY BPV PRODUCT, WHETHER IN CONTRACT, TORT, NEGLIGENCE OR OTHERWISE, IN EXCESS OF THE AMOUNT PAID BY CUSTOMER TO BPV PURSUANT TO THE PURCHASE ORDER TO WHICH SUCH CLAIM, LOSS OR DAMAGE RELATES.

VIII. Product Changes

All products and product specifications identified in the Price List are based upon the information available to BPV at the time of publication. BPV reserves the right to discontinue any product or to change any product specifications without notice.

IX. Termination

Any customer purchase order may be terminated by BPV as follows: (1) upon 30 days' prior written notice to customer; (2) effective immediately, if customer commits a material breach of any provision of the purchase order or these terms and conditions and such breach continues for a period of 30 days following written notice; or (3) effective immediately, if the customer files, or has filed against it, a petition for voluntary or involuntary bankruptcy or pursuant to any other insolvency law or makes or seeks to make a general assignment for the benefit of its creditors or applies for or consents to the appointment of a trustee, receiver, or custodian for its or a substantial part of its property.

X. Force Majeure

BPV will not be liable for its failure to perform, or any delay in performance, due to strikes, fire, explosion, flood, riot, lock out, injunction, interruption of transportation, unavoidable accidents, acts of government or a public enemy, terrorism, inability to obtain supplies at reasonable prices, or any other causes beyond its control.

XI. Choice of Law

These terms and conditions shall be governed by and construed in accordance with the laws of the State of Arizona as applicable to contracts made and to be performed in that state, without regard to conflicts of laws principles.

XII. General

NONE OF THE FOREGOING TERMS AND CONDITIONS MAY BE MODIFIED EXCEPT UPON BPV'S EXPRESS WRITTEN CONSENT STATING THAT IT IS AN AMENDMENT OR MODIFICATION THERETO.

In the event of any inconsistency between these terms and conditions of sale and those contained in any purchase order, purchase order release, confirmation, acceptance, or any similar document, these terms and conditions of sale shall prevail.

These terms and conditions of sale constitute the entire understanding between BPV and customer and supersede all prior terms and conditions of sale published by BPV, in each case, related to the subject matter hereof.

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ANGIOPLASTY

ATLAS® PTA* Balloon Dilatation Catheters

PRODUCT CODE	BALLOON		SHAFT LENGTH (CM)	NOMINAL PRESSURE (ATM)	RATED BURST PRESSURE (ATM)	SHEATH SIZE (F)	UNITS/EACH
	DIAMETER (MM)	LENGTH (CM)					
AT75122	12	2	75	6	18	7	1
AT120122	12	2	120	6	18	7	1
AT75124	12	4	75	6	18	7	1
AT120124	12	4	120	6	18	7	1
AT75126	12	6	75	6	18	7	1
AT75142	14	2	75	6	18	7	1
AT120142	14	2	120	6	18	7	1
AT75144	14	4	75	6	18	7	1
AT120144	14	4	120	6	18	7	1
AT75146	14	6	75	6	18	8	1
AT75162	16	2	75	6	18	8	1
AT120162	16	2	120	6	18	8	1
AT75164	16	4	75	6	18	8	1
AT120164	16	4	120	6	18	8	1
AT75166	16	6	75	6	16	8	1
AT75182	18	2	75	6	16	8	1
AT120182	18	2	120	6	16	8	1
AT75184	18	4	75	6	16	8	1
AT120184	18	4	120	6	16	8	1
AT75186	18	6	75	6	16	9	1
AT75202	20	2	75	6	16	9	1
AT120202	20	2	120	6	16	9	1
AT75204	20	4	75	6	16	9	1
AT120204	20	4	120	6	16	9	1
AT75222	22	2	75	4	14	10	1
AT75224	22	4	75	4	14	10	1
AT75242	24	2	75	4	14	10	1
AT75244	24	4	75	4	14	10	1
AT75262	26	2	75	4	12	12	1
AT75264	26	4	75	4	12	12	1

0.035" guidewire compatible

*Percutaneous Transluminal Angioplasty

ANGIOPLASTY

ATLAS® GOLD PTA* Balloon Dilatation Catheters

PRODUCT CODE	BALLOON		SHAFT LENGTH (CM)	NOMINAL PRESSURE (ATM)	RATED BURST PRESSURE (ATM)	SHEATH SIZE (F)	UNITS/EACH
	DIAMETER (MM)	LENGTH (CM)					
ATG80122	12	2	80	6	18	7	1
ATG120122	12	2	120	6	18	7	1
ATG80124	12	4	80	6	18	7	1
ATG120124	12	4	120	6	18	7	1
ATG80126	12	6	80	6	18	7	1
ATG120126	12	6	120	6	18	7	1
ATG80142	14	2	80	6	18	7	1
ATG120142	14	2	120	6	18	7	1
ATG80144	14	4	80	6	18	7	1
ATG120144	14	4	120	6	18	7	1
ATG80146	14	6	80	6	18	8	1
ATG120146	14	6	120	6	18	8	1
ATG80162	16	2	80	6	18	8	1
ATG120162	16	2	120	6	18	8	1
ATG80164	16	4	80	6	18	8	1
ATG120164	16	4	120	6	18	8	1
ATG80166	16	6	80	6	16	8	1
ATG120166	16	6	120	6	16	8	1
ATG80182	18	2	80	6	16	8	1
ATG120182	18	2	120	6	16	8	1
ATG80184	18	4	80	6	16	8	1
ATG120184	18	4	120	6	16	8	1
ATG80186	18	6	80	6	16	9	1
ATG120186	18	6	120	6	16	9	1

0.035" guidewire compatible

*Percutaneous Transluminal Angioplasty

ANGIOPLASTY

ATLAS® GOLD PTA* Balloon Dilatation Catheters

PRODUCT CODE	BALLOON		SHAFT LENGTH (CM)	NOMINAL PRESSURE (ATM)	RATED BURST PRESSURE (ATM)	SHEATH SIZE (F)	UNITS/EACH
	DIAMETER (MM)	LENGTH (CM)					
ATG80202	20	2	80	6	16	9	1
ATG120202	20	2	120	6	16	9	1
ATG80204	20	4	80	6	16	9	1
ATG120204	20	4	120	6	16	9	1
ATG80222	22	2	80	4	14	10	1
ATG120222	22	2	120	4	14	10	1
ATG80224	22	4	80	4	14	10	1
ATG120224	22	4	120	4	14	10	1
ATG80242	24	2	80	4	14	10	1
ATG120242	24	2	120	4	14	10	1
ATG80244	24	4	80	4	14	10	1
ATG120244	24	4	120	4	14	10	1
ATG80262	26	2	80	4	12	12	1
ATG120262	26	2	120	4	12	12	1
ATG80264	26	4	80	4	12	12	1
ATG120264	26	4	120	4	12	12	1

0.035" guidewire compatible

*Percutaneous Transluminal Angioplasty

ANGIOPLASTY

CALIBER® Inflation Device

PRODUCT CODE	DESCRIPTION	UNITS/CASE
CL3030	(Sterile - Disposable with 30 cc barrel)	6

ANGIOPLASTY

CONQUEST® PTA* Balloon Dilatation Catheters

PRODUCT CODE	BALLOON		SHAFT LENGTH (CM)	NOMINAL PRESSURE (ATM)	RATED BURST PRESSURE (ATM)	SHEATH SIZE (F)	UNITS/EACH
	DIAMETER (MM)	LENGTH (CM)					
CQ5052	5	2	50	8	30	6	1
CQ7552	5	2	75	8	30	6	1
CQ12054	5	2	120	8	30	6	1
CQ5054	5	4	50	8	30	6	1
CQ7554	5	4	75	8	30	6	1
CQ5058	5	8	50	8	27	6	1
CQ7558	5	8	75	8	27	6	1
CQ5062	6	2	50	8	30	6	1
CQ7562	6	2	75	8	30	6	1
CQ12062	6	2	120	8	30	6	1
CQ5064	6	4	50	8	30	6	1
CQ7564	6	4	75	8	30	6	1
CQ12064	6	4	120	8	30	6	1
CQ5068	6	8	50	8	27	6	1
CQ7568	6	8	75	8	27	6	1
CQ5072	7	2	50	8	30	6	1
CQ7572	7	2	75	8	30	6	1
CQ12072	7	2	120	8	30	6	1
CQ5074	7	4	50	8	30	6	1
CQ7574	7	4	75	8	30	6	1
CQ12074	7	4	120	8	30	6	1
CQ5076	7	6	50	8	27	6	1
CQ7576	7	6	75	8	27	6	1
CQ5078	7	8	50	8	27	6	1
CQ7578	7	8	75	8	27	6	1
CQ5082	8	2	50	8	27	6	1
CQ7582	8	2	75	8	27	6	1
CQ12082	8	2	120	8	27	6	1
CQ5083	8	3	50	8	27	6	1
CQ7583	8	3	75	8	27	6	1
CQ5084	8	4	50	8	27	6	1
CQ7584	8	4	75	8	27	6	1
CQ12084	8	4	120	8	27	6	1
CQ5086	8	6	50	8	25	6	1
CQ7586	8	6	75	8	25	6	1
CQ5088	8	8	50	8	25	6	1
CQ7588	8	8	75	8	25	6	1

0.035" guidewire compatible

*Percutaneous Transluminal Angioplasty

ANGIOPLASTY

CONQUEST® PTA* Balloon Dilatation Catheters

PRODUCT CODE	BALLOON		SHAFT LENGTH (CM)	NOMINAL PRESSURE (ATM)	RATED BURST PRESSURE (ATM)	SHEATH SIZE (F)	UNITS/EACH
	DIAMETER (MM)	LENGTH (CM)					
CQ5092	9	2	50	8	26	7	1
CQ7592	9	2	75	8	26	7	1
CQ5094	9	4	50	8	26	7	1
CQ7594	9	4	75	8	26	7	1
CQ12094	9	4	120	8	26	7	1
CQ75102	10	2	75	8	24	7	1
CQ75104	10	4	75	8	24	7	1
CQ120104	10	4	120	8	24	7	1
CQ75122	12	2	75	8	20	8	1
CQ75124	12	4	75	8	20	8	1

0.035" guidewire compatible

*Percutaneous Transluminal Angioplasty

ANGIOPLASTY

CONQUEST® 40 PTA* Balloon Dilatation Catheters

PRODUCT CODE	BALLOON		SHAFT LENGTH (CM)	NOMINAL PRESSURE (ATM)	RATED BURST PRESSURE (ATM)	SHEATH SIZE (F)	UNITS/EACH
	DIAMETER (MM)	LENGTH (CM)					
CQF5042	4	2	50	8	40	6	1
CQF7542	4	2	75	8	40	6	1
CQF5044	4	4	50	8	40	6	1
CQF7544	4	4	75	8	40	6	1
CQF5046	4	6	50	8	40	6	1
CQF7546	4	6	75	8	40	6	1
CQF5048	4	8	50	8	40	6	1
CQF7548	4	8	75	8	40	6	1
CQF50410	4	10	50	8	40	6	1
CQF75410	4	10	75	8	40	6	1
CQF5052	5	2	50	8	40	6	1
CQF7552	5	2	75	8	40	6	1
CQF5054	5	4	50	8	40	6	1
CQF7554	5	4	75	8	40	6	1
CQF5056	5	6	50	8	40	6	1
CQF7556	5	6	75	8	40	6	1
CQF5058	5	8	50	8	40	6	1
CQF7558	5	8	75	8	40	6	1
CQF50510	5	10	50	8	40	6	1
CQF75510	5	10	75	8	40	6	1
CQF5062	6	2	50	8	40	6	1
CQF7562	6	2	75	8	40	6	1
CQF5064	6	4	50	8	40	6	1
CQF7564	6	4	75	8	40	6	1
CQF5066	6	6	50	8	40	6	1
CQF7566	6	6	75	8	40	6	1
CQF5068	6	8	50	8	40	6	1
CQF7568	6	8	75	8	40	6	1
CQF50610	6	10	50	8	40	6	1
CQF75610	6	10	75	8	40	6	1

0.035" guidewire compatible

*Percutaneous Transluminal Angioplasty

ANGIOPLASTY

CONQUEST® 40 PTA* Balloon Dilatation Catheters

PRODUCT CODE	BALLOON		SHAFT LENGTH (CM)	NOMINAL PRESSURE (ATM)	RATED BURST PRESSURE (ATM)	SHEATH SIZE (F)	UNITS/EACH
	DIAMETER (MM)	LENGTH (CM)					
CQF5072	7	2	50	8	40	6	1
CQF7572	7	2	75	8	40	6	1
CQF5074	7	4	50	8	40	6	1
CQF7574	7	4	75	8	40	6	1
CQF5076	7	6	50	8	40	6	1
CQF7576	7	6	75	8	40	6	1
CQF5078	7	8	50	8	40	6	1
CQF7578	7	8	75	8	40	6	1
CQF50710	7	10	50	8	40	6	1
CQF75710	7	10	75	8	40	6	1
CQF5082	8	2	50	8	40	6	1
CQF7582	8	2	75	8	40	6	1
CQF5083	8	3	50	8	40	6	1
CQF7583	8	3	75	8	40	6	1
CQF5084	8	4	50	8	40	6	1
CQF7584	8	4	75	8	40	6	1
CQF5086	8	6	50	8	35	6	1
CQF7586	8	6	75	8	35	6	1
CQF5088	8	8	50	8	35	6	1
CQF7588	8	8	75	8	35	6	1
CQF50810	8	10	50	8	35	6	1
CQF75810	8	10	75	8	35	6	1
CQF5092	9	2	50	8	35	7	1
CQF7592	9	2	75	8	35	7	1
CQF5094	9	4	50	8	35	7	1
CQF7594	9	4	75	8	35	7	1
CQF5098	9	8	50	8	35	7	1
CQF7598	9	8	75	8	35	7	1
CQF75102	10	2	75	8	35	7	1
CQF75104	10	4	75	8	35	7	1
CQF75108	10	8	75	8	35	7	1
CQF75122	12	2	75	8	30	8	1
CQF75124	12	4	75	8	30	8	1

0.035" guidewire compatible

*Percutaneous Transluminal Angioplasty

ANGIOPLASTY

DORADO® PTA* Balloon Dilatation Catheters

PRODUCT CODE	BALLOON		SHAFT LENGTH (CM)	NOMINAL PRESSURE (ATM)	RATED BURST PRESSURE (ATM)	SHEATH SIZE (F)	UNITS/EACH
	DIAMETER (MM)	LENGTH (CM)					
DR8032	3	2	80	8	24	5	1
DR13532	3	2	135	8	24	5	1
DR8034	3	4	80	8	24	5	1
DR13534	3	4	135	8	24	5	1
DR80310	3	10	80	8	24	5	1
DR135310	3	10	135	8	24	5	1
DR4042	4	2	40	8	24	5	1
DR8042	4	2	80	8	24	5	1
DR13542	4	2	135	8	24	5	1
DR4044	4	4	40	8	24	5	1
DR8044	4	4	80	8	24	5	1
DR12044	4	4	120	8	24	5	1
DR13544	4	4	135	8	24	5	1
DR80410	4	10	80	8	24	5	1
DR120410	4	10	120	8	24	5	1
DR135410	4	10	135	8	24	5	1
DR135412	4	12	135	8	24	5	1
DR135415	4	15	135	8	24	5	1
DR135417	4	17	135	8	24	5	1
DR135420	4	20	135	8	24	5	1
DR4052	5	2	40	8	24	5	1
DR8052	5	2	80	8	24	5	1
DR12052	5	2	120	8	24	5	1
DR13552	5	2	135	8	24	5	1
DR4054	5	4	40	8	24	5	1
DR8054	5	4	80	8	24	5	1
DR12054	5	4	120	8	24	5	1
DR13554	5	4	135	8	24	5	1
DR8056	5	6	80	8	24	5	1
DR13556	5	6	135	8	24	5	1
DR8058	5	8	80	8	24	5	1
DR13558	5	8	135	8	24	5	1

0.035" guidewire compatible

*Percutaneous Transluminal Angioplasty



ANGIOPLASTY

DORADO® PTA* Balloon Dilatation Catheters

PRODUCT CODE	BALLOON		SHAFT LENGTH (CM)	NOMINAL PRESSURE (ATM)	RATED BURST PRESSURE (ATM)	SHEATH SIZE (F)	UNITS/EACH
	DIAMETER (MM)	LENGTH (CM)					
DR80510	5	10	80	8	24	5	1
DR120510	5	10	120	8	24	5	1
DR135510	5	10	135	8	24	5	1
DR135512	5	12	135	8	24	6	1
DR135515	5	15	135	8	24	6	1
DR135517	5	17	135	8	24	6	1
DR135520	5	20	135	8	24	6	1
DR4062	6	2	40	8	24	6	1
DR8062	6	2	80	8	24	6	1
DR12062	6	2	120	8	24	6	1
DR13562	6	2	135	8	24	6	1
DR4064	6	4	40	8	24	6	1
DR8064	6	4	80	8	24	6	1
DR12064	6	4	120	8	24	6	1
DR13564	6	4	135	8	24	6	1
DR8066	6	6	80	8	24	6	1
DR13566	6	6	135	8	24	6	1
DR8068	6	8	80	8	24	6	1
DR13568	6	8	135	8	24	6	1
DR80610	6	10	80	8	22	6	1
DR120610	6	10	120	8	22	6	1
DR135610	6	10	135	8	22	6	1
DR80612	6	12	80	8	24	6	1
DR135612	6	12	135	8	24	6	1
DR80615	6	15	80	8	24	6	1
DR135615	6	15	135	8	24	6	1
DR80617	6	17	80	8	24	6	1
DR135617	6	17	135	8	24	6	1
DR80620	6	20	80	8	24	6	1
DR135620	6	20	135	8	24	6	1
DR4072	7	2	40	8	22	6	1
DR8072	7	2	80	8	22	6	1
DR13572	7	2	135	8	22	6	1

0.035" guidewire compatible

*Percutaneous Transluminal Angioplasty

ANGIOPLASTY

DORADO® PTA* Balloon Dilatation Catheters

PRODUCT CODE	BALLOON		SHAFT LENGTH (CM)	NOMINAL PRESSURE (ATM)	RATED BURST PRESSURE (ATM)	SHEATH SIZE (F)	UNITS/EACH
	DIAMETER (MM)	LENGTH (CM)					
DR4074	7	4	40	8	22	6	1
DR8074	7	4	80	8	22	6	1
DR12074	7	4	120	8	22	6	1
DR13574	7	4	135	8	22	6	1
DR8076	7	6	80	8	22	6	1
DR8078	7	8	80	8	22	6	1
DR80710	7	10	80	8	22	6	1
DR120710	7	10	120	8	22	6	1
DR135710	7	10	135	8	22	6	1
DR80712	7	12	80	8	24	5	1
DR135712	7	12	135	8	24	5	1
DR80715	7	15	80	8	24	5	1
DR135715	7	15	135	8	24	5	1
DR80717	7	17	80	8	24	5	1
DR135717	7	17	135	8	24	5	1
DR80720	7	20	80	8	24	5	1
DR135720	7	20	135	8	24	5	1
DR4082	8	2	40	8	22	6	1
DR8082	8	2	80	8	22	6	1
DR13582	8	2	135	8	22	6	1
DR4084	8	4	40	8	22	6	1
DR8084	8	4	80	8	22	6	1
DR12084	8	4	120	8	22	6	1
DR13584	8	4	135	8	22	6	1
DR8086	8	6	80	8	22	6	1
DR8088	8	8	80	8	22	6	1
DR80810	8	10	80	8	20	6	1
DR135810	8	10	135	8	20	6	1

0.035" guidewire compatible

*Percutaneous Transluminal Angioplasty

ANGIOPLASTY

DORADO® PTA* Balloon Dilatation Catheters

PRODUCT CODE	BALLOON		SHAFT LENGTH (CM)	NOMINAL PRESSURE (ATM)	RATED BURST PRESSURE (ATM)	SHEATH SIZE (F)	UNITS/EACH
	DIAMETER (MM)	LENGTH (CM)					
DR8092	9	2	80	8	20	6	1
DR4094	9	4	40	8	20	6	1
DR8094	9	4	80	8	20	6	1
DR13594	9	4	135	8	20	6	1
DR8098	9	8	80	8	20	6	1
DR80102	10	2	80	8	20	6	1
DR135102	10	2	135	8	20	6	1
DR80104	10	4	80	8	20	6	1
DR120104	10	4	120	8	20	6	1
DR135104	10	4	135	8	20	6	1
DR80108	10	8	80	8	20	7	1

0.035" guidewire compatible

*Percutaneous Transluminal Angioplasty

ANGIOPLASTY

RIVAL® PTA* Balloon Dilatation Catheters

PRODUCT CODE	BALLOON		SHAFT LENGTH (CM)	NOMINAL PRESSURE (ATM)	RATED BURST PRESSURE (ATM)	SHEATH SIZE (F)	UNITS/EACH
	DIAMETER (MM)	LENGTH (CM)					
RV8032	3	2	80	8	16	5	1
RV13532	3	2	135	8	16	5	1
RV8034	3	4	80	8	16	5	1
RV13534	3	4	135	8	16	5	1
RV80310	3	10	80	8	16	5	1
RV135310	3	10	135	8	16	5	1
RV8042	4	2	80	8	14	5	1
RV13542	4	2	135	8	14	5	1
RV8044	4	4	80	8	14	5	1
RV13544	4	4	135	8	14	5	1
RV80410	4	10	80	8	12	5	1
RV135410	4	10	135	8	12	5	1
RV80415	4	15	80	8	12	5	1
RV135415	4	15	135	8	12	5	1
RV8052	5	2	80	8	14	5	1
RV13552	5	2	135	8	14	5	1
RV8054	5	4	80	8	14	5	1
RV13554	5	4	135	8	14	5	1
RV8056	5	6	80	8	14	5	1
RV13556	5	6	135	8	14	5	1
RV8058	5	8	80	8	14	5	1
RV13558	5	8	135	8	14	5	1
RV80510	5	10	80	8	12	5	1
RV135510	5	10	135	8	12	5	1
RV80515	5	15	80	8	12	5	1
RV135515	5	15	135	8	12	5	1
RV8062	6	2	80	8	14	5	1
RV13562	6	2	135	8	14	5	1
RV8064	6	4	80	8	14	5	1
RV13564	6	4	135	8	14	5	1
RV8066	6	6	80	8	14	5	1
RV13566	6	6	135	8	14	5	1
RV8068	6	8	80	8	14	5	1
RV13568	6	8	135	8	14	5	1
RV80610	6	10	80	8	12	5	1
RV135610	6	10	135	8	12	5	1
RV80615	6	15	80	8	12	6	1
RV135615	6	15	135	8	12	6	1

0.035" guidewire compatible

*Percutaneous Transluminal Angioplasty

ANGIOPLASTY

RIVAL® PTA* Balloon Dilatation Catheters

PRODUCT CODE	BALLOON		SHAFT LENGTH (CM)	NOMINAL PRESSURE (ATM)	RATED BURST PRESSURE (ATM)	SHEATH SIZE (F)	UNITS/EACH
	DIAMETER (MM)	LENGTH (CM)					
RV8072	7	2	80	8	14	6	1
RV13572	7	2	135	8	14	6	1
RV8074	7	4	80	8	14	6	1
RV13574	7	4	135	8	14	6	1
RV8076	7	6	80	8	14	6	1
RV13576	7	6	135	8	14	6	1
RV8078	7	8	80	8	14	6	1
RV13578	7	8	135	8	14	6	1
RV8082	8	2	80	6	14	6	1
RV13582	8	2	135	6	14	6	1
RV8084	8	4	80	6	14	6	1
RV13584	8	4	135	6	14	6	1
RV8086	8	6	80	6	14	6	1
RV13586	8	6	135	6	14	6	1
RV8088	8	8	80	6	14	6	1
RV13588	8	8	135	6	14	6	1
RV8092	9	2	80	6	12	6	1
RV13592	9	2	135	6	12	6	1
RV8094	9	4	80	6	12	6	1
RV13594	9	4	135	6	12	6	1
RV80102	10	2	80	6	10	7	1
RV135102	10	2	135	6	10	7	1
RV80104	10	4	80	6	10	7	1
RV135104	10	4	135	6	10	7	1

0.035" guidewire compatible

*Percutaneous Transluminal Angioplasty

ANGIOPLASTY

ULTRAVERSE® 014 PTA* Balloon Dilatation Catheters

PRODUCT CODE	BALLOON		CATHETER LENGTH (CM)	SHEATH SIZE (F)	UNITS/EACH
	DIAMETER (MM)	LENGTH (CM)			
U41501H2	1.5	2	150	4F	1
U41501H4	1.5	4	150	4F	1
U41501H12	1.5	12	150	4F	1
U415022	2	2	150	4F	1
U415024	2	4	150	4F	1
U415028	2	8	150	4F	1
U4150210	2	10	150	4F	1
U4150212	2	12	150	4F	1
U4150215	2	15	150	4F	1
U4150222	2	22	150	4F	1
U4150230	2	30	150	4F	1
U41502H2	2.5	2	150	4F	1
U41502H4	2.5	4	150	4F	1
U41502H8	2.5	8	150	4F	1
U41502H10	2.5	10	150	4F	1
U41502H12	2.5	12	150	4F	1
U41502H15	2.5	15	150	4F	1
U41502H22	2.5	22	150	4F	1
U41502H30	2.5	30	150	4F	1
U415032	3	2	150	4F	1
U415034	3	4	150	4F	1
U415038	3	8	150	4F	1
U4150310	3	10	150	4F	1
U4150312	3	12	150	4F	1
U4150315	3	15	150	4F	1
U4150322	3	22	150	4F	1
U4150330	3	30	150	4F	1
U41503H2	3.5	2	150	4F	1
U41503H4	3.5	4	150	4F	1
U41503H8	3.5	8	150	4F	1
U41503H10	3.5	10	150	4F	1
U41503H12	3.5	12	150	4F	1
U41503H15	3.5	15	150	4F	1
U41503H22	3.5	22	150	4F	1
U41503H30	3.5	30	150	4F	1

0.014" guidewire compatible

*Percutaneous Transluminal Angioplasty

ANGIOPLASTY

ULTRAVERSE® 014 PTA* Balloon Dilatation Catheters

PRODUCT CODE	BALLOON		CATHETER LENGTH (CM)	SHEATH SIZE (F)	UNITS/EACH
	DIAMETER (MM)	LENGTH (CM)			
U415042	4	2	150	4F	1
U415044	4	4	150	4F	1
U415048	4	8	150	4F	1
U4150410	4	10	150	4F	1
U4150412	4	12	150	4F	1
U4150415	4	15	150	5F	1
U4150422	4	22	150	5F	1
U4150430	4	30	150	5F	1
U415052	5	2	150	5F	1
U415054	5	4	150	5F	1
U415058	5	8	150	5F	1
U4150510	5	10	150	5F	1
U4150512	5	12	150	5F	1
U4150515	5	15	150	5F	1
U4150522	5	22	150	5F	1
U4150530	5	30	150	5F	1

0.014" guidewire compatible

*Percutaneous Transluminal Angioplasty

ANGIOPLASTY

ULTRAVERSE® 018 PTA* Balloon Dilatation Catheters

PRODUCT CODE	BALLOON		CATHETER LENGTH (CM)	SHEATH SIZE (F)	UNITS/EACH
	DIAMETER (MM)	LENGTH (CM)			
U87522	2	2	75	4F	1
U87524	2	4	75	4F	1
U875210	2	10	75	4F	1
U875212	2	12	75	4F	1
U875215	2	15	75	4F	1
U875222	2	22	75	4F	1
U8752H2	2.5	2	75	4F	1
U8752H4	2.5	4	75	4F	1
U8752H10	2.5	10	75	4F	1
U8752H15	2.5	15	75	4F	1
U87532	3	2	75	4F	1
U87534	3	4	75	4F	1
U875310	3	10	75	4F	1
U875312	3	12	75	4F	1
U875315	3	15	75	4F	1
U875322	3	22	75	4F	1
U8753H2	3.5	2	75	4F	1
U8753H4	3.5	4	75	4F	1
U8753H10	3.5	10	75	4F	1
U8753H15	3.5	15	75	4F	1
U87542	4	2	75	4F	1
U87544	4	4	75	4F	1
U87546	4	6	75	4F	1
U875410	4	10	75	4F	1
U875412	4	12	75	4F	1
U875415	4	15	75	5F	1
U875422	4	22	75	5F	1
U87552	5	2	75	5F	1
U87554	5	4	75	5F	1
U87556	5	6	75	5F	1
U875510	5	10	75	5F	1
U875512	5	12	75	5F	1
U875515	5	15	75	5F	1
U875522	5	22	75	5F	1
U87562	6	2	75	5F	1
U87564	6	4	75	5F	1
U87566	6	6	75	5F	1
U875610	6	10	75	5F	1
U875612	6	12	75	5F	1
U875615	6	15	75	5F	1
U875622	6	22	75	5F	1

0.018" guidewire compatible

*Percutaneous Transluminal Angioplasty

ANGIOPLASTY

ULTRAVERSE® 018 PTA* Balloon Dilatation Catheters

PRODUCT CODE	BALLOON		CATHETER LENGTH (CM)	SHEATH SIZE (F)	UNITS/EACH
	DIAMETER (MM)	LENGTH (CM)			
U87574	7	4	75	5F	1
U87584	8	4	75	6F	1
U87594	9	4	75	6F	1
U813022	2	2	130	4F	1
U813024	2	4	130	4F	1
U813026	2	6	130	4F	1
U813028	2	8	130	4F	1
U8130210	2	10	130	4F	1
U8130212	2	12	130	4F	1
U8130215	2	15	130	4F	1
U8130222	2	22	130	4F	1
U8130230	2	30	130	4F	1
U81302H2	2.5	2	130	4F	1
U81302H4	2.5	4	130	4F	1
U81302H6	2.5	6	130	4F	1
U81302H8	2.5	8	130	4F	1
U81302H10	2.5	10	130	4F	1
U81302H12	2.5	12	130	4F	1
U81302H15	2.5	15	130	4F	1
U81302H22	2.5	22	130	4F	1
U81302H30	2.5	30	130	4F	1
U813032	3	2	130	4F	1
U813034	3	4	130	4F	1
U813036	3	6	130	4F	1
U813038	3	8	130	4F	1
U8130310	3	10	130	4F	1
U8130312	3	12	130	4F	1
U8130315	3	15	130	4F	1
U8130322	3	22	130	4F	1
U8130330	3	30	130	4F	1
U81303H2	3.5	2	130	4F	1
U81303H4	3.5	4	130	4F	1
U81303H6	3.5	6	130	4F	1
U81303H8	3.5	8	130	4F	1
U81303H10	3.5	10	130	4F	1
U81303H12	3.5	12	130	4F	1
U81303H15	3.5	15	130	4F	1
U81303H22	3.5	22	130	4F	1
U81303H30	3.5	30	130	4F	1

0.018" guidewire compatible

*Percutaneous Transluminal Angioplasty

For Ordering or Information: **1.800.321.4254**

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Please consult package inserts for more detailed safety information and instructions for use.

ANGIOPLASTY

ULTRAVERSE® 018 PTA* Balloon Dilatation Catheters

PRODUCT CODE	BALLOON		CATHETER LENGTH (CM)	SHEATH SIZE (F)	UNITS/EACH
	DIAMETER (MM)	LENGTH (CM)			
U813042	4	2	130	4F	1
U813044	4	4	130	4F	1
U813046	4	6	130	4F	1
U813048	4	8	130	4F	1
U8130410	4	10	130	4F	1
U8130412	4	12	130	4F	1
U8130415	4	15	130	5F	1
U8130422	4	22	130	5F	1
U8130430	4	30	130	5F	1
U813052	5	2	130	5F	1
U813054	5	4	130	5F	1
U813056	5	6	130	5F	1
U813058	5	8	130	5F	1
U8130510	5	10	130	5F	1
U8130512	5	12	130	5F	1
U8130515	5	15	130	5F	1
U8130522	5	22	130	5F	1
U8130530	5	30	130	5F	1
U813062	6	2	130	5F	1
U813064	6	4	130	5F	1
U813066	6	6	130	5F	1
U813068	6	8	130	5F	1
U8130610	6	10	130	5F	1
U8130612	6	12	130	5F	1
U8130615	6	15	130	5F	1
U8130622	6	22	130	5F	1
U8130630	6	30	130	5F	1
U813074	7	4	130	5F	1
U813084	8	4	130	6F	1
U813094	9	4	130	6F	1

0.018" guidewire compatible

*Percutaneous Transluminal Angioplasty

ANGIOPLASTY

ULTRAVERSE® 018 PTA* Balloon Dilatation Catheters

PRODUCT CODE	BALLOON		CATHETER LENGTH (CM)	SHEATH SIZE (F)	UNITS/EACH
	DIAMETER (MM)	LENGTH (CM)			
U815022	2	2	150	4F	1
U815024	2	4	150	4F	1
U815026	2	6	150	4F	1
U815028	2	8	150	4F	1
U8150210	2	10	150	4F	1
U8150212	2	12	150	4F	1
U8150215	2	15	150	4F	1
U8150222	2	22	150	4F	1
U8150230	2	30	150	4F	1
U81502H2	2.5	2	150	4F	1
U81502H4	2.5	4	150	4F	1
U81502H6	2.5	6	150	4F	1
U81502H8	2.5	8	150	4F	1
U81502H10	2.5	10	150	4F	1
U81502H12	2.5	12	150	4F	1
U81502H15	2.5	15	150	4F	1
U81502H22	2.5	22	150	4F	1
U81502H30	2.5	30	150	4F	1
U815032	3	2	150	4F	1
U815034	3	4	150	4F	1
U815036	3	6	150	4F	1
U815038	3	8	150	4F	1
U8150310	3	10	150	4F	1
U8150312	3	12	150	4F	1
U8150315	3	15	150	4F	1
U8150322	3	22	150	4F	1
U8150330	3	30	150	4F	1
U81503H2	3.5	2	150	4F	1
U81503H4	3.5	4	150	4F	1
U81503H6	3.5	6	150	4F	1
U81503H8	3.5	8	150	4F	1
U81503H10	3.5	10	150	4F	1
U81503H12	3.5	12	150	4F	1
U81503H15	3.5	15	150	4F	1
U81503H22	3.5	22	150	4F	1
U81503H30	3.5	30	150	4F	1

0.018" guidewire compatible

*Percutaneous Transluminal Angioplasty

ANGIOPLASTY

ULTRAVERSE® 018 PTA* Balloon Dilatation Catheters

PRODUCT CODE	BALLOON		CATHETER LENGTH (CM)	SHEATH SIZE (F)	UNITS/EACH
	DIAMETER (MM)	LENGTH (CM)			
U815042	4	2	150	4F	1
U815044	4	4	150	4F	1
U815046	4	6	150	4F	1
U815048	4	8	150	4F	1
U8150410	4	10	150	4F	1
U8150412	4	12	150	4F	1
U8150415	4	15	150	5F	1
U8150422	4	22	150	5F	1
U8150430	4	30	150	5F	1
U815052	5	2	150	5F	1
U815054	5	4	150	5F	1
U815056	5	6	150	5F	1
U815058	5	8	150	5F	1
U8150510	5	10	150	5F	1
U8150512	5	12	150	5F	1
U8150515	5	15	150	5F	1
U8150522	5	22	150	5F	1
U8150530	5	30	150	5F	1

0.018" guidewire compatible

*Percutaneous Transluminal Angioplasty

ANGIOPLASTY

ULTRAVERSE® RX PTA* Balloon Dilatation Catheters

PRODUCT CODE	BALLOON		CATHETER LENGTH (CM)	SHEATH SIZE (F)	UNITS/EACH
	DIAMETER (MM)	LENGTH (CM)			
U41501Q1HRX	1.25	1.5	150	4F	1
U41501Q2RX	1.25	2	150	4F	1
U41501Q4RX	1.25	4	150	4F	1
U41501H1HRX	1.5	1.5	150	4F	1
U41501H2RX	1.5	2	150	4F	1
U41501H4RX	1.5	4	150	4F	1
U41501H8RX	1.5	8	150	4F	1
U41501H12RX	1.5	12	150	4F	1
U415021HRX	2	1.5	150	4F	1
U415022RX	2	2	150	4F	1
U415024RX	2	4	150	4F	1
U415026RX	2	6	150	4F	1
U415028RX	2	8	150	4F	1
U4150210RX	2	10	150	4F	1
U4150212RX	2	12	150	4F	1
U4150215RX	2	15	150	4F	1
U4150220RX	2	20	150	4F	1
U4150225RX	2	25	150	4F	1
U4150230RX	2	30	150	4F	1
U41502H1HRX	2.5	1.5	150	4F	1
U41502H2RX	2.5	2	150	4F	1
U41502H4RX	2.5	4	150	4F	1
U41502H6RX	2.5	6	150	4F	1
U41502H8RX	2.5	8	150	4F	1
U41502H10RX	2.5	10	150	4F	1
U41502H12RX	2.5	12	150	4F	1
U41502H15RX	2.5	15	150	4F	1
U41502H20RX	2.5	20	150	4F	1
U41502H25RX	2.5	25	150	4F	1
U41502H30RX	2.5	30	150	4F	1
U415031HRX	3	1.5	150	4F	1
U415032RX	3	2	150	4F	1
U415034RX	3	4	150	4F	1
U415036RX	3	6	150	4F	1
U415038RX	3	8	150	4F	1
U4150310RX	3	10	150	4F	1
U4150312RX	3	12	150	4F	1
U4150315RX	3	15	150	4F	1
U4150320RX	3	20	150	4F	1
U4150325RX	3	25	150	4F	1
U4150330RX	3	30	150	4F	1

0.014" guidewire compatible

*Percutaneous Transluminal Angioplasty

For Ordering or Information: **1.800.321.4254**

CONFIDENTIAL AND PROPRIETARY 25

Please consult package inserts for more detailed safety information and instructions for use.

ANGIOPLASTY

ULTRAVERSE® RX PTA* Balloon Dilatation Catheters

PRODUCT CODE	BALLOON		CATHETER LENGTH (CM)	SHEATH SIZE (F)	UNITS/EACH
	DIAMETER (MM)	LENGTH (CM)			
U41503H1HRX	3.5	1.5	150	4F	1
U41503H2RX	3.5	2	150	4F	1
U41503H4RX	3.5	4	150	4F	1
U41503H6RX	3.5	6	150	4F	1
U41503H8RX	3.5	8	150	4F	1
U41503H10RX	3.5	10	150	4F	1
U41503H12RX	3.5	12	150	4F	1
U41503H15RX	3.5	15	150	4F	1
U41503H20RX	3.5	20	150	4F	1
U41503H25RX	3.5	25	150	4F	1
U41503H30RX	3.5	30	150	4F	1
U415041HRX	4	1.5	150	4F	1
U415042RX	4	2	150	4F	1
U415044RX	4	4	150	4F	1
U415046RX	4	6	150	4F	1
U415048RX	4	8	150	4F	1
U4150410RX	4	10	150	4F	1
U4150412RX	4	12	150	4F	1
U4150415RX	4	15	150	5F	1
U4150420RX	4	20	150	5F	1
U4150425RX	4	25	150	5F	1
U4150430RX	4	30	150	5F	1
U415051HRX	5	1.5	150	5F	1
U415052RX	5	2	150	5F	1
U415054RX	5	4	150	5F	1
U415056RX	5	6	150	5F	1
U415058RX	5	8	150	5F	1
U4150510RX	5	10	150	5F	1
U4150512RX	5	12	150	5F	1
U4150515RX	5	15	150	5F	1
U4150520RX	5	20	150	5F	1
U4150525RX	5	25	150	5F	1
U4150530RX	5	30	150	5F	1
U415064RX	6	4	150	5F	1
U415066RX	6	6	150	5F	1
U415074RX	7	4	150	5F	1
U415076RX	7	6	150	5F	1

0.014" guidewire compatible

*Percutaneous Transluminal Angioplasty

ANGIOPLASTY

ULTRAVERSE® RX PTA* Balloon Dilatation Catheters

PRODUCT CODE	BALLOON		CATHETER LENGTH (CM)	SHEATH SIZE (F)	UNITS/EACH
	DIAMETER (MM)	LENGTH (CM)			
U42001Q1HRX	1.25	1.5	200	4F	1
U42001Q2RX	1.25	2	200	4F	1
U42001Q4RX	1.25	4	200	4F	1
U42001H1HRX	1.5	1.5	200	4F	1
U42001H2RX	1.5	2	200	4F	1
U42001H4RX	1.5	4	200	4F	1
U420021HRX	2	1.5	200	4F	1
U420022RX	2	2	200	4F	1
U420024RX	2	4	200	4F	1
U4200210RX	2	10	200	4F	1
U4200220RX	2	20	200	4F	1
U4200230RX	2	30	200	4F	1
U42002H1HRX	2.5	1.5	200	4F	1
U42002H2RX	2.5	2	200	4F	1
U42002H4RX	2.5	4	200	4F	1
U42002H10RX	2.5	10	200	4F	1
U42002H20RX	2.5	20	200	4F	1
U42002H30RX	2.5	30	200	4F	1
U420031HRX	3	1.5	200	4F	1
U420032RX	3	2	200	4F	1
U420034RX	3	4	200	4F	1
U4200310RX	3	10	200	4F	1
U4200320RX	3	20	200	4F	1
U4200330RX	3	30	200	4F	1
U42003H1HRX	3.5	1.5	200	4F	1
U42003H2RX	3.5	2	200	4F	1
U42003H4RX	3.5	4	200	4F	1
U42003H10RX	3.5	10	200	4F	1
U42003H20RX	3.5	20	200	4F	1
U42003H30RX	3.5	30	200	4F	1
U420041HRX	4	1.5	200	4F	1
U420042RX	4	2	200	4F	1
U420044RX	4	4	200	4F	1
U4200410RX	4	10	200	4F	1
U4200420RX	4	20	200	5F	1
U4200430RX	4	30	200	5F	1

0.014" guidewire compatible

*Percutaneous Transluminal Angioplasty

ANGIOPLASTY

VASCUTrak® PTA* Balloon Dilatation Catheters

PRODUCT CODE	BALLOON		CATHETER LENGTH (CM)	SHEATH SIZE (F)	UNITS/EACH
	DIAMETER (MM)	LENGTH (CM)			
V142020	2	2	140	5F	1
V142040	2	4	140	5F	1
V142060	2	6	140	5F	1
V142080	2	8	140	5F	1
V1420100	2	10	140	5F	1
V1420120	2	12	140	5F	1
V1420150	2	15	140	5F	1
V1420200	2	20	140	5F	1
V1420250	2	25	140	5F	1
V1420300	2	30	140	5F	1
V142520	2.5	2	140	5F	1
V142540	2.5	4	140	5F	1
V142560	2.5	6	140	5F	1
V142580	2.5	8	140	5F	1
V1425100	2.5	10	140	5F	1
V1425120	2.5	12	140	5F	1
V1425150	2.5	15	140	5F	1
V1425200	2.5	20	140	5F	1
V1425250	2.5	25	140	5F	1
V1425300	2.5	30	140	5F	1
V143020	3	2	140	5F	1
V143040	3	4	140	5F	1
V143060	3	6	140	5F	1
V143080	3	8	140	5F	1
V1430100	3	10	140	5F	1
V1430120	3	12	140	5F	1
V1430150	3	15	140	5F	1
V1430200	3	20	140	5F	1
V1430250	3	25	140	5F	1
V1430300	3	30	140	5F	1

0.014" guidewire compatible

*Percutaneous Transluminal Angioplasty

ANGIOPLASTY

VASCUTrak® PTA* Balloon Dilatation Catheters

PRODUCT CODE	BALLOON		CATHETER LENGTH (CM)	SHEATH SIZE (F)	UNITS/EACH
	DIAMETER (MM)	LENGTH (CM)			
V143520	3.5	2	140	5F	1
V143540	3.5	4	140	5F	1
V143560	3.5	6	140	5F	1
V143580	3.5	8	140	5F	1
V1435100	3.5	10	140	5F	1
V1435120	3.5	12	140	5F	1
V1435150	3.5	15	140	5F	1
V1435200	3.5	20	140	5F	1
V1435250	3.5	25	140	5F	1
V1435300	3.5	30	140	5F	1

0.014" guidewire compatible

V184020	4	2	140	5F	1
V184040	4	4	140	5F	1
V184060	4	6	140	5F	1
V184080	4	8	140	5F	1
V1840100	4	10	140	5F	1
V1840150	4	15	140	5F	1
V1840200	4	20	140	5F	1
V1840300	4	30	140	5F	1

V185020	5	2	140	6F	1
V185040	5	4	140	6F	1
V185060	5	6	140	6F	1
V185080	5	8	140	6F	1
V1850100	5	10	140	6F	1
V1850120	5	12	140	6F	1
V1850150	5	15	140	6F	1
V1850200	5	20	140	6F	1
V1850250	5	25	140	6F	1
V1850300	5	30	140	6F	1

0.018" guidewire compatible

*Percutaneous Transluminal Angioplasty

ANGIOPLASTY

VASCUTrak® PTA* Balloon Dilatation Catheters

PRODUCT CODE	BALLOON		CATHETER LENGTH (CM)	SHEATH SIZE (F)	UNITS/EACH
	DIAMETER (MM)	LENGTH (CM)			
V186020	6	2	140	7F	1
V186040	6	4	140	7F	1
V186060	6	6	140	7F	1
V186080	6	8	140	7F	1
V1860100	6	10	140	7F	1
V1860120	6	12	140	7F	1
V1860150	6	15	140	7F	1
V1860200	6	20	140	7F	1
V1860250	6	25	140	7F	1
V1860300	6	30	140	7F	1
V187020	7	2	140	7F	1
V187040	7	4	140	7F	1
V187060	7	6	140	7F	1
V187080	7	8	140	7F	1
V1870100	7	10	140	7F	1
V1870120	7	12	140	7F	1
V1870150	7	15	140	7F	1
V1870200	7	20	140	7F	1
V1870250	7	25	140	7F	1
V1870300	7	30	140	7F	1

0.018" guidewire compatible

*Percutaneous Transluminal Angioplasty

ANGIOPLASTY

VASCUTrak® PTA* Balloon Dilatation Catheters

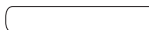
PRODUCT CODE	BALLOON		CATHETER LENGTH (CM)	SHEATH SIZE (F)	UNITS/EACH
	DIAMETER (MM)	LENGTH (CM)			
V184020S	4	2	80	5F	1
V184040S	4	4	80	5F	1
V184060S	4	6	80	5F	1
V184080S	4	8	80	5F	1
V1840100S	4	10	80	5F	1
V1840150S	4	15	80	5F	1
V1840200S	4	20	80	5F	1
V1840300S	4	30	80	5F	1
V185020S	5	2	80	6F	1
V185040S	5	4	80	6F	1
V185060S	5	6	80	6F	1
V185080S	5	8	80	6F	1
V1850100S	5	10	80	6F	1
V1850150S	5	15	80	6F	1
V1850200S	5	20	80	6F	1
V1850300S	5	30	80	6F	1
V186020S	6	2	80	7F	1
V186040S	6	4	80	7F	1
V186060S	6	6	80	7F	1
V186080S	6	8	80	7F	1
V1860100S	6	10	80	7F	1
V1860150S	6	15	80	7F	1
V1860200S	6	20	80	7F	1
V1860300S	6	30	80	7F	1
V187020S	7	2	80	7F	1
V187040S	7	4	80	7F	1
V187060S	7	6	80	7F	1
V187080S	7	8	80	7F	1
V1870100S	7	10	80	7F	1

0.018" guidewire compatible

*Percutaneous Transluminal Angioplasty

CARDIOVASCULAR PATCHES, FABRICS, FELTS AND PLEDGETS

Cardiovascular Patches - ePTFE

PRODUCT CODE	DIMENSIONS	UNITS/EACH	
ePTFE Cardiovascular Patch – 0.4 mm Thickness (Oval Shaped)			
10P9004	10 mm x 90 mm	1	Thinwall 
20P9004	20 mm x 90 mm	1	
30P6004	30 mm x 60 mm	1	
ePTFE Cardiovascular Patch – 0.6 mm Thickness (Rectangular Shaped)			
30P3006	30 mm x 30 mm	1	Regular Wall 
50P7506	50 mm x 75 mm	1	
25P15006	25 mm x 150 mm	1	
50P15006	50 mm x 150 mm	1	
100P15006	100 mm x 150 mm	1	

Fabrics - Polyester and PTFE

DIMENSIONS			
PRODUCT CODE	DIAMETER	LENGTH	UNITS/CASE
BARD® SAUVAGE® Filamentous Fabric (Nominal Thickness 0.61 mm)			
007942	1" x 4"	2.5 cm x 10 cm	10
007943	2" x 2"	5 cm x 5 cm	10
007944	2" x 4"	5 cm x 10 cm	10
007828	4" x 4"	10 cm x 10 cm	5
007829	6" x 6"	15 cm x 15 cm	5
007940	3/8" x 6"	1 cm x 15.2 cm	10
BARD® DeBAKEY® Double Velour Fabric (Nominal Thickness 1.50 mm)			
007937	1" x 4"	2.5 cm x 10 cm	10
007939	2" x 4"	5 cm x 10 cm	10
007826	4" x 4"	10 cm x 10 cm	5
007827	6" x 6"	15 cm x 15 cm	5
BARD® DeBAKEY® Elastic Knit Fabric (Nominal Thickness 0.57 mm)			
007830	4" x 4"	10 cm x 10 cm	5
007831	6" x 6"	15 cm x 15 cm	5
BARD® DeBAKEY® Woven Fabric (Nominal Thickness 0.25 mm)			
007957	2" x 4"	5 cm x 10 cm	10
007955	4" x 4"	10 cm x 10 cm	5
007956	6" x 6"	15 cm x 15 cm	5
BARD® Edwards Outflow Tract Fabric (Nominal Thickness 0.91 mm)			
007979	2" x 4"	5 cm x 10 cm	10
007834	4" x 4"	10 cm x 10 cm	5
007835	6" x 6"	15 cm x 15 cm	5

Polyester Fabrics



Polyester Fabrics



Polyester Fabrics



Polyester Fabrics



PTFE Fabrics



CARDIOVASCULAR PATCHES, FABRICS, FELTS AND PLEDGETS

Felts - PTFE and Polyester

PRODUCT CODE	DIMENSIONS		UNITS/CASE
	DIAMETER	LENGTH	
PTFE Felts (Nominal Thickness 1.65 mm)			
007975	1/2" x 4"	1.2 cm x 10 cm	10
007973	1" x 1"	2.5 cm x 2.5 cm	10
007968	1" x 4"	2.5 cm x 10.2 cm	10
007976	1" x 6"	2.5 cm x 15 cm	10
007974	1/4" x 2"	6 mm x 5.1 cm	10
007977	2" x 2"	5 cm x 5 cm	10
007836	4" x 4"	10 cm x 10 cm	5
007837	6" x 6"	15 cm x 15 cm	5
PTFE Felts (Thick) (Nominal Thickness 2.87 mm)			
007018	3/8" x 6"	1 cm x 15.2 cm	20
007019	1" x 1"	2.5 cm x 2.5 cm	5
007958	4" x 4"	10 cm x 10 cm	5
007959	6" x 6"	15 cm x 15 cm	5
Low Porosity PTFE Felts (Nominal Thickness 1.85 mm)			
007021	1" x 1"	2.5 cm x 2.5 cm	5
007838	4" x 4"	10 cm x 10 cm	5
007839	6" x 6"	15 cm x 15 cm	5
Polyester Felts (Nominal Thickness 1.65 mm)			
008972	6" x 6"	15 cm x 15 cm	5

PTFE Felts

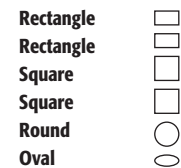


Polyester Felts



Pledgets - PTFE

DIMENSIONS			
PRODUCT CODE	DIAMETER	LENGTH	UNITS/CASE
BARD® PTFE Felt Pledgets (Nominal Thickness 1.65 mm)			
007970	3/16" X 1/4"	4.8 mm x 6 mm	250
007963	3/16" X 3/8"	4.8 mm x 9.5 mm	250
007965	1/4" X 1/4"	6 mm x 6 mm	250
007972	5/16" X 5/16"	8 mm x 8 mm	250
007984	3/16"	4.8 mm	250
007969	3/16" X 1/4"	4.8 mm x 6 mm	250
BARD® PTFE Thick Felt Pledgets (Nominal Thickness 2.87 mm)			
007971	1/4"	6 mm	250

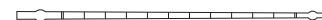
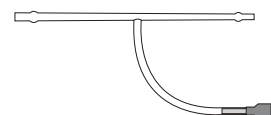
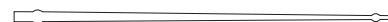


PTFE Pledgets are packed 10 per sterile pouch, 25 pouches per box.

CAROTID SHUNTS

Carotid Shunts

PRODUCT CODE	DIMENSIONS		UNITS/CASE
	DIAMETER	LENGTH	
BARD® Carotid Bypass Shunt (Straight), No Side Hole, Type 1885			
S11885003	8F	10 cm	5
S11885004	8F	13 cm	5
S11885001	10F	10 cm	5
000671	10F	13 cm	5
000673	12F	13 cm	5
000675	14F	13 cm	5
000677	16F	13 cm	5
BARD® Carotid Bypass Shunt (Straight), One Side Hole Each End, Type 1886			
S11886001	8F	13 cm	5
000679	10F	13 cm	5
S11886006	11F	13 cm	5
S11886003	12F	10 cm	5
000681	12F	13 cm	5
000683	14F	13 cm	5
000685	16F	13 cm	5
BARD® JAVID™ Carotid Bypass Shunt, Type 1852			
007714	17F Tapered to 10F	27.5 cm	5
SGA155001	14F Tapered to 8F	13 cm	5
BARD® BRENER™ Carotid Bypass Shunt, Type 1887			
007755 with access "T" side arm	14F Tapered to 8F	13 cm	5
S11887002 with access "T" side arm	17F Tapered to 10F	13 cm	5
BARD® BURBANK™ Carotid Bypass Shunt			
SGA149001	15F Tapered to 10F	15.5 cm	5
SGA150001	12F Tapered to 9F	15.5 cm	5
SGA162001	18F Tapered to 12F	15.5 cm	5
BARD® Carotid Bypass Shunt (Straight), One Side Hole at One End			
SGA240001	12F	15.5 cm	5



CENTRAL VENOUS CATHETERS

BROVIAC® Central Venous Catheter

PRODUCT CODE	FRENCH SIZE	TOTAL LENGTH	VOLUME	LUMEN SIZE (OD/ID)	REPAIR KIT	UNITS/EACH
Single Lumen, Cutdown Introducer						
0600040	2.7 F	71 cm	0.15 ml	0.9 mm / 0.5 mm	0601600	1

BROVIAC® Central Venous Catheter Repair Kits

PRODUCT CODE	FRENCH SIZE	LUMEN SIZE (OD/ID)	COLOR	UNITS/EACH
Single Lumen				
0601600	2.7 F	0.9 mm / 0.5 mm	White	1
0601610	4.2 F	1.4 mm / 0.7 mm	White	1
0601620	6.6 F	2.2 mm / 1.0 mm	White	1

For additional accessories, see page 41.

CENTRAL VENOUS CATHETERS

GROSHONG® Central Venous Catheter

PRODUCT CODE	FRENCH SIZE	REPAIR KIT	UNITS/CASE
Single Lumen, Peel-Apart Introducer			
7711700	7 F	7741700	5
7711800	8 F	7741800	5
Dual Lumen, Peel-Apart Introducer			
7726950	9.5 F	7742000 body 7740000 red and white legs	5

GROSHONG® Central Venous Catheter Repair Kits

PRODUCT CODE	FRENCH SIZE	COLOR	UNITS/CASE
Single Lumen			
7741550	5.5 F	Yellow	5
7741700	7 F	Pink	5
7741800	8 F	Orange	5
Dual Lumen			
7742000	9.5 F	Red/White	5

GROSHONG® Central Venous Catheter Replacement Connectors

PRODUCT CODE	FRENCH SIZE	COLOR	UNITS/CASE
Single Lumen			
7712550	5.5 F	Yellow	10
7712700	7 F	Pink	10
7712800	8 F	Orange	10
Dual Lumen			
7712500	9.5 / 5 F	Red	10
7712510	9.5 / 5 F	White	10

GROSHONG® Central Venous Catheter Additional Accessories

PRODUCT CODE	DESCRIPTION	UNITS/CASE
7740100	Injection Cap	25
0601940	Stainless Steel Tunneler	5

For additional accessories, see page 41.

CENTRAL VENOUS CATHETERS

HICKMAN® Central Venous Catheter

PRODUCT CODE	FRENCH SIZE	TOTAL LENGTH	VOLUME	LUMEN SIZE (OD/ID)	REPAIR KIT	UNITS/ EACH
Single Lumen, Peel-Apart Introducer						
0600560	9.6 F	90 cm	1.8 ml	3.2 mm / 1.6 mm	0601630	1
Dual Lumen, Peel-Apart Introducer						
0600570	7 F	65 cm	0.8 ml red 0.6 ml white	2.3 mm 1.0 mm red 0.8 mm white	0601690 red 0601680 white	1
0600580	9 F	65 cm	1.3 ml red 0.6 ml white	3.0 mm 1.3 mm red 0.7 mm white	0601700 body 0601690 red 0601680 white	1
0600600	9 F	90 cm	1.3 ml red 0.6 ml white	3.0 mm 1.3 mm red 0.7 mm white	0601700 body 0601690 red 0601680 white	1
0600620	12 F	90 cm	1.8 ml red 1.8 ml white	4.0 mm 1.6 mm red 1.6 mm white	0601710 body 0601690 red 0601680 white	1
Triple Lumen, Peel-Apart Introducer						
0606560	10 F	97 cm	1.4 ml red 0.8 ml white 0.8 ml blue	3.3 mm 1.5 mm red 0.8 mm white 0.8 mm blue	0601790 body 0601690 red 0601680 white 0601730 blue	1
0600650	12.5 F	90 cm	1.6 ml red 0.7 ml white 0.7 ml blue	4.2 mm 1.5 mm red 1.0 mm white 1.0 mm blue	0601740 body 0601690 red 0601680 white 0601730 blue	1

HICKMAN® TRIFUSION® Central Venous Catheter

PRODUCT CODE	FRENCH SIZE	LENGTH (TIP TO CUFF)	TOTAL LENGTH	UNITS/ EACH
Triple Lumen, Intermediate Tray				
0609190	12 F	19 cm	24 cm	1
0609230	12 F	23 cm	28 cm	1
0609270	12 F	27 cm	32 cm	1
Triple Lumen, Microintroducer Tray				
0659190	12 F	19 cm	24 cm	1
0659230	12 F	23 cm	28 cm	1
0659270	12 F	27 cm	32 cm	1

CENTRAL VENOUS CATHETERS

HICKMAN® Central Venous Catheter Repair Kits

PRODUCT CODE	FRENCH SIZE	COLOR	UNITS/EACH
Single Lumen			
0601630	9.6 F	White	1
Dual Lumen			
0601760	7 F	Red/White	1
0601700	9 F	Red/White	1
0601710	12 F	Red/White	1
0601770	13.5 F	Blue	1
0601780	13.5 F	Red	1
Triple Lumen			
0601730	All except 13.5 F	Blue	1
0601790	10 F	Red/White/Blue	1
0601740	12.5 F	Red/White/Blue	1

HICKMAN® / LEONARD® Central Venous Catheter Repair Kit

PRODUCT CODE	FRENCH SIZE	COLOR	UNITS/EACH
Dual/Triple Lumen			
0601680	All except 13.5 F	White	1
0601690	All except 13.5 F	Red	1

HICKMAN® Central Venous Catheter Additional Accessories

PRODUCT CODE	DESCRIPTION	UNITS/EACH
0601720	Adhesive Kit	1
0601860	Injection Cap	50

For additional accessories, see page 41.

CENTRAL VENOUS CATHETERS

LEONARD® Central Venous Catheter

PRODUCT CODE	FRENCH SIZE	TOTAL LENGTH	VOLUME	LUMEN SIZE (OD/ID)	REPAIR KIT	UNITS/ EACH
Dual Lumen, Peel-Apart Introducer						
0600630	10 F	90 cm	1.3 ml red 1.3 ml white	3.3 mm 1.3 mm red 1.3 mm white	0601750 body 0601690 red 0601680 white	1

LEONARD® Central Venous Catheter Repair Kit

PRODUCT CODE	FRENCH SIZE	COLOR	UNITS/ EACH
Dual Lumen			
0601750	10 F	Red/White	1

For additional accessories, see page 41.

CENTRAL VENOUS CATHETERS

POWERHICKMAN® Central Venous Catheter*

PRODUCT CODE	FRENCH SIZE	GAUGE SIZE	AVERAGE GRAVITY FLOW RATE	PRIMING VOLUME	LENGTH BIFURCATION TO TIP	LUMEN SIZE (ID)	CUFF POSITION	UNITS/CASE
Single Lumen, Intermediate Tray, Peel-Apart Introducer								
0805810	8 F	14 Ga	6780 ml/hr	1.5 ml	47 cm	.060 ID	Cuff at 5 cm	5
Single Lumen, Microintroducer Tray, Microintroducer								
0802815	8 F	14 Ga	6780 ml/hr	1.5 ml	47 cm	.060 ID	Cuff at 2 cm	5
0805815	8 F	14 Ga	6780 ml/hr	1.5 ml	47 cm	.060 ID	Cuff at 5 cm	5
Dual Lumen, Intermediate Tray, Peel-Apart Introducer								
0805910	9.5 F	15 Ga 15 Ga	3505 ml/hr 3505 ml/hr	1.3 ml 1.3 ml	47 cm	.036 ID	Cuff at 5 cm	5
Dual Lumen, Microintroducer Tray, Microintroducer								
0802915	9.5 F	15 Ga 15 Ga	3505 ml/hr 3505 ml/hr	1.3 ml 1.3 ml	47 cm	.036 ID	Cuff at 2 cm	5
0805915	9.5 F	15 Ga 15 Ga	3505 ml/hr 3505 ml/hr	1.3 ml 1.3 ml	47 cm	.036 ID	Cuff at 5 cm	5

*Maximum Power Injector Pressure Setting is 300 psi, Maximum Power Injection Flow Rate is 5 ml/sec.

POWERLINE® Central Venous Catheter

PRODUCT CODE	FRENCH SIZE	AVERAGE GRAVITY FLOW RATE	PRIMING VOLUME	UNITS/CASE
Single Lumen, Microintroducer Tray, MicroEZ® Introducer				
0700515	5 F	1245 ml/hr	0.62 ml	5
Dual Lumen, Intermediate Tray, Peel-Apart Introducer				
0700610	6 F	981 ml/hr 981 ml/hr	0.61 ml 0.61 ml	5
Dual Lumen, Microintroducer Tray, MicroEZ® Introducer				
0700615	6 F	981 ml/hr 981 ml/hr	0.61 ml 0.61 ml	5
0720515	5 F	577 ml/hr 577 ml/hr	0.55 ml 0.55 ml	5
Triple Lumen, Intermediate Tray, Peel-Apart Introducer				
0730610	6 F	924 ml/hr 360 ml/hr 360 ml/hr	0.67 ml 0.45 ml 0.45 ml	5
Triple Lumen, Microintroducer Tray, MicroEZ® Introducer				
0730615	6 F	924 ml/hr 360 ml/hr 360 ml/hr	0.67 ml 0.45 ml 0.45 ml	5

CENTRAL VENOUS CATHETERS

Catheter Clamp

PRODUCT CODE	DESCRIPTION	UNITS/CASE
0601870	Non-Sterile Catheter Clamps	3

PTFE Peel-Apart Introducers

PRODUCT CODE	FRENCH SIZE	TOTAL LENGTH	UNITS/EACH
0601150	5 F	10.5 cm	1
0601165	6.5 F	15 cm	1
0601170	7 F	13 cm	1
0607770	7 F	15 cm	1
0607780	8 F	15 cm	1
0601110	10 F	15 cm	1
0607710	10 F	15 cm	1
0601113	13 F	15 cm	1
0601114	14 F	14 cm	1
0601115	15 F	14 cm	1

Tunnelers for HICKMAN® / BROVIAC® / LEONARD®

PRODUCT CODE	DESCRIPTION	UNITS/CASE
0601930	Plastic Tunneler	5

CTO CATHETERS

CROSSER® CTO Recanalization Catheters

PRODUCT CODE	DESCRIPTION	LENGTH (cm)	PLATFORM	UNITS/EACH
CROSSER® Catheters - Peripheral				
CRUS6106	CROSSER® Catheter S6	106	no wire	1
CRUS6A	CROSSER® Catheter S6	154	no wire	1
CRUP106	CROSSER® Catheter 14P	106	RX	1
CRUOP106	CROSSER® Catheter 14P	106	OTW	1
CRU14PA	CROSSER® Catheter 14P	146	RX	1
CRUO14PA	CROSSER® Catheter 14P	146	OTW	1
CRUS106	CROSSER® Catheter 14S	106	RX	1
CRUOS106	CROSSER® Catheter 14S	106	OTW	1
CRU14SA	CROSSER® Catheter 14S	146	RX	1
CRUO14SA	CROSSER® Catheter 14S	146	OTW	1
CRU18A	CROSSER® Catheter 18	125	RX	1
CROSSER® Catheter System Electronics				
GEN200	CROSSER® Generator			1
INJ100	FLOWMATE® Injector			1
CROSSER® Catheter System Electronics - Recommended Adjunctive Devices				
INJKIT	FLOWMATE® Procedural Kit			5/case

CTO SUPPORT CATHETERS AND GUIDEWIRES

PORTER® Guidewires

PRODUCT CODE	DIAMETER	LENGTH (CM)	TIP STIFFNESS	UNITS/CASE
GWP1403	.014"	195	3 g	5/case
GWP1406	.014"	195	6 g	5/case
GWP1403X	.014"	300	3 g	5/case
GWP1406X	.014"	300	6 g	5/case
GWP1409X	.014"	300	9 g	5/case
GWP1412X	.014"	300	12 g	5/case

SIDEKICK® Support Catheters

PRODUCT CODE	LENGTH (CM)	SHAPE	UNITS/EACH
For Use with CROSSER® Catheters 14P and 14S			
SD70	70	Straight	1
SD70A	70	Angled	1
SD70T	70	Straight Tapered	1
SD70AT	70	Angled Tapered	1
SD110	110	Straight	1
SD110A	110	Tapered	1
SD110T	110	Straight Tapered	1
SD110AT	110	Angled Tapered	1

USHER® Support Catheters

PRODUCT CODE	LENGTH (CM)	SHAPE	UNITS/EACH
For Use with CROSSER® Catheter S6			
USH83T	83	Straight Tapered	1
USH83AT	83	Angled Tapered	1
USH130T	130	Straight Tapered	1
USH130AT	130	Angled Tapered	1

CROSSING SUPPORT CATHETERS

SEEKER® Crossing Support Catheters

PRODUCT CODE	WIRE COMPATIBILITY	CATHETER LENGTH	UNITS/CASE
SK13514	.014"	135 cm	5/case
SK15014	.014"	150 cm	5/case
SK9018	.018"	90 cm	5/case
SK13518	.018"	135 cm	5/case
SK15018	.018"	150 cm	5/case
SK6535M	.035"	65 cm	5/case
SK9035M	.035"	90 cm	5/case
SK13535M	.035"	135 cm	5/case
SK15035M	.035"	150 cm	5/case

HEMODIALYSIS CATHETERS (LONG-TERM)

DECATHLON® DF Long-Term Hemodialysis Catheter with AIRGUARD® Valved Introducer

PRODUCT CODE	CATHETER SIZE	INSERTION LENGTH (TIP TO CUFF)	CATHETER LENGTH	TIP STYLE	UNITS/CASE
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Straight, Polyurethane Catheter, Standard Kit

DF19SH24K	16 F	19 cm	24 cm	Tapered Split	5
DF23SH28K	16 F	23 cm	28 cm	Tapered Split	5
DF27SH32K	16 F	27 cm	32 cm	Tapered Split	5
DF31SH36K	16 F	31 cm	36 cm	Tapered Split	5
DF35SH40K	16 F	35 cm	40 cm	Tapered Split	5
DF50SH55K	16 F	50 cm	55 cm	Tapered Split	5

Straight, Polyurethane Catheter, Exchange Kit

DF19IT24K	16 F	19 cm	24 cm	Tapered Split	5
DF23IT28K	16 F	23 cm	28 cm	Tapered Split	5
DF27IT32K	16 F	27 cm	32 cm	Tapered Split	5
DF31IT36K	16 F	31 cm	36 cm	Tapered Split	5
DF35IT40K	16 F	35 cm	40 cm	Tapered Split	5
DF50IT55K	16 F	50 cm	55 cm	Tapered Split	5

DUET® Long-Term Hemodialysis Catheter with AIRGUARD® Valved Introducer

PRODUCT CODE	CATHETER SIZE	INSERTION LENGTH (TIP TO CUFF)	UNITS/CASE
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Polyurethane Catheter, Standard Kit

5223190	10 F	19 cm Arterial / 22 cm Venous	10
5223230	10 F	23 cm Arterial / 26 cm Venous	10
5223280	10 F	28 cm Arterial / 31 cm Venous	10

DUET® Repair Kit

PRODUCT CODE	DESCRIPTION	UNITS/CASE
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5581000	DUET® Repair Kit	5
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HEMODIALYSIS CATHETERS (LONG-TERM)

EQUISTREAM® Catheter with AIRGUARD® Valved Introducer

PRODUCT CODE	CATHETER SIZE	INSERTION LENGTH (TIP TO CUFF)	CATHETER LENGTH	TIP STYLE	STYLET	UNITS/ CASE
ALPHACURVE®, Polyurethane Catheter, Standard Kit						
5905190	14.5 F	19 cm	24 cm	Split	None	5
5905240	14.5 F	24 cm	29 cm	Split	None	5
5905280	14.5 F	28 cm	33 cm	Split	None	5
5905310	14.5 F	31 cm	36 cm	Split	None	5
Straight, Polyurethane Catheter, Standard Kit						
5903150	14.5 F	15 cm	19 cm	Split	Preloaded	5
5903190	14.5 F	19 cm	24 cm	Split	Preloaded	5
5903230	14.5 F	23 cm	28 cm	Split	Preloaded	5
5903270	14.5 F	27 cm	32 cm	Split	Preloaded	5
5903310	14.5 F	31 cm	36 cm	Split	Preloaded	5
5903350	14.5 F	35 cm	40 cm	Split	Preloaded	5
5903420	14.5 F	42 cm	47 cm	Split	Preloaded	5
Straight, Polyurethane Catheter, Microintroducer Kit						
5904190	14.5 F	19 cm	24 cm	Split	Preloaded	5
5904230	14.5 F	23 cm	36 cm	Split	Preloaded	5
5904270	14.5 F	27 cm	40 cm	Split	Preloaded	5
5904310	14.5 F	31 cm	55 cm	Split	Preloaded	5

EQUISTREAM® XK Catheter with AIRGUARD® Valved Introducer

PRODUCT CODE	CATHETER SIZE	INSERTION LENGTH (TIP TO CUFF)	CATHETER LENGTH	TIP STYLE	STYLET	UNITS/ CASE
ALPHACURVE®, Polyurethane Catheter, Standard Kit						
5915190	16 F	19 cm	24 cm	Split	None	5
5915240	16 F	24 cm	29 cm	Split	None	5
5915280	16 F	28 cm	33 cm	Split	None	5
5915310	16 F	31 cm	36 cm	Split	None	5
Straight, Polyurethane Catheter, Standard Kit						
5913190	16 F	19 cm	24 cm	Split	Preloaded	5
5913230	16 F	23 cm	28 cm	Split	Preloaded	5
5913270	16 F	27 cm	32 cm	Split	Preloaded	5
5913310	16 F	31 cm	36 cm	Split	Preloaded	5
5913350	16 F	35 cm	40 cm	Split	Preloaded	5
5913420	16 F	42 cm	47 cm	Split	Preloaded	5

HEMODIALYSIS CATHETERS (LONG-TERM)

GLIDEPATH™ Long-Term Hemodialysis Catheter with AIRGUARD® Valved Introducer

PRODUCT CODE	CATHETER SIZE	INSERTION LENGTH (TIP TO CUFF)	CATHETER LENGTH	TIP STYLE	STYLET	UNITS/ CASE
Straight, Polyurethane Catheter, Standard Kit						
5393150	14.5 F	15 cm	20 cm	Symmetric	Preloaded	5
5393190	14.5 F	19 cm	24 cm	Symmetric	Preloaded	5
5393230	14.5 F	23 cm	28 cm	Symmetric	Preloaded	5
5393270	14.5 F	27 cm	32 cm	Symmetric	Preloaded	5
5393310	14.5 F	31 cm	36 cm	Symmetric	Preloaded	5
5393350	14.5 F	35 cm	39 cm	Symmetric	Preloaded	5
5393420	14.5 F	42 cm	47 cm	Symmetric	Preloaded	5
5393500	14.5 F	50 cm	55 cm	Symmetric	Preloaded	5
ALPHACURVE®, Polyurethane Catheter, Standard Kit						
5396190	14.5 F	19 cm	25 cm	Symmetric	None	5
5396240	14.5 F	24 cm	29 cm	Symmetric	None	5
5396280	14.5 F	28 cm	33 cm	Symmetric	None	5
5396310	14.5 F	31 cm	37 cm	Symmetric	None	5
Straight, Polyurethane Catheter, Exchange Kit						
5397150	14.5 F	15 cm	20 cm	Symmetric	Preloaded	5
5397190	14.5 F	19 cm	24 cm	Symmetric	Preloaded	5
5397230	14.5 F	23 cm	28 cm	Symmetric	Preloaded	5
5397270	14.5 F	27 cm	32 cm	Symmetric	Preloaded	5
5397310	14.5 F	31 cm	36 cm	Symmetric	Preloaded	5
5397350	14.5 F	35 cm	40 cm	Symmetric	Preloaded	5
5397420	14.5 F	42 cm	47 cm	Symmetric	Preloaded	5
5397500	14.5 F	50 cm	55 cm	Symmetric	Preloaded	5

HEMODIALYSIS CATHETERS (LONG-TERM)

HEMOSPLIT® Catheter with AIRGUARD® Valved Introducer

PRODUCT CODE	CATHETER SIZE	INSERTION LENGTH (TIP TO CUFF)	CATHETER LENGTH	TIP STYLE	CUFF TAPERED	UNITS/ CASE
ALPHACURVE®, Polyurethane Catheter, Standard Kit						
5735150	14.5 F	19 cm	25 cm	Split	No	5
5735190	14.5 F	24 cm	29 cm	Split	No	5
5735230	14.5 F	28 cm	33 cm	Split	No	5
5735270	14.5 F	31 cm	37 cm	Split	No	5

Straight, Polyurethane Catheter, Standard Kit

5733694	14.5 F	19 cm	24 cm	Split	Yes	5
5733734	14.5 F	23 cm	28 cm	Split	Yes	5
5733274	14.5 F	27 cm	32 cm	Split	Yes	5
5733314	14.5 F	31 cm	36 cm	Split	Yes	5
5733150	14.5 F	15 cm	20 cm	Split	No	5
5733690	14.5 F	19 cm	24 cm	Split	No	5
5733730	14.5 F	23 cm	28 cm	Split	No	5
5733270	14.5 F	27 cm	32 cm	Split	No	5
5733310	14.5 F	31 cm	36 cm	Split	No	5
5733350	14.5 F	35 cm	40 cm	Split	No	5
5734420	14.5 F	42 cm	47 cm	Split	No	5

Straight, Polyurethane Catheter, Microintroducer Kit

5743690	14.5 F	19 cm	24 cm	Split	No	5
5743730	14.5 F	23 cm	28 cm	Split	No	5
5743270	14.5 F	27 cm	32 cm	Split	No	5
5743310	14.5 F	31 cm	36 cm	Split	No	5
5743350	14.5 F	35 cm	40 cm	Split	No	5
5744420	14.5 F	42 cm	47 cm	Split	No	5

Straight, Polyurethane Catheter, Standard Kit BioBloc® Silver Sulfadiazine Coating

5733153	14.5 F	15 cm	20 cm	Split	No	5
5733693	14.5 F	19 cm	24 cm	Split	No	5
5733733	14.5 F	23 cm	28 cm	Split	No	5
5733273	14.5 F	27 cm	32 cm	Split	No	5
5733313	14.5 F	31 cm	36 cm	Split	No	5
5733353	14.5 F	35 cm	40 cm	Split	No	5
5734423	14.5 F	42 cm	47 cm	Split	No	5

Straight, Polyurethane Catheter, Microintroducer Kit BioBloc® Silver Sulfadiazine Coating

5743693	14.5 F	19 cm	24 cm	Split	No	5
5743733	14.5 F	23 cm	28 cm	Split	No	5
5743273	14.5 F	27 cm	32 cm	Split	No	5
5743313	14.5 F	31 cm	36 cm	Split	No	5

HEMODIALYSIS CATHETERS (LONG-TERM)

HEMOPLIT® XK Catheter with AIRGUARD® Valved Introducer

PRODUCT CODE	CATHETER SIZE	INSERTION LENGTH (TIP TO CUFF)	CATHETER LENGTH	TIP STYLE	UNITS/CASE
ALPHACURVE®, Polyurethane Catheter, Standard Kit					
5685150	16 F	19 cm	25 cm	Split	5
5685190	16 F	24 cm	29 cm	Split	5
5685230	16 F	28 cm	33 cm	Split	5
5685270	16 F	31 cm	37 cm	Split	5
Straight, Polyurethane Catheter, Standard Kit					
5683690	16 F	19 cm	24 cm	Split	5
5683730	16 F	23 cm	28 cm	Split	5
5683270	16 F	27 cm	32 cm	Split	5
5683310	16 F	31 cm	36 cm	Split	5
5683350	16 F	35 cm	40 cm	Split	5
5684420	16 F	42 cm	47 cm	Split	5
Straight, Polyurethane Catheter, Microintroducer Kit					
5693690	16 F	19 cm	24 cm	Split	5
5693730	16 F	23 cm	28 cm	Split	5
5693270	16 F	27 cm	32 cm	Split	5
5693310	16 F	31 cm	36 cm	Split	5
Straight, Polyurethane Catheter, Standard Kit BioBloc® Silver Sulfadiazine Coating					
5683693	16 F	19 cm	24 cm	Split	5
5683733	16 F	23 cm	28 cm	Split	5
5683273	16 F	27 cm	32 cm	Split	5
5683313	16 F	31 cm	36 cm	Split	5
5683353	16 F	35 cm	40 cm	Split	5
5883353	16 F	35 cm	40 cm	Split	5
5684423	16 F	42 cm	47 cm	Split	5

HEMOPLIT® / HEMOPLIT® XK Tunnelers

PRODUCT CODE	DESCRIPTION	UNITS/CASE
5688000	Malleable Tapered Tunneler for use with HEMOPLIT® and HEMOPLIT® XK Catheters	10

HEMODIALYSIS CATHETERS (LONG-TERM)

HEMOSTAR® Catheter with AIRGUARD® Valved Introducer

PRODUCT CODE	CATHETER SIZE	INSERTION LENGTH (TIP TO CUFF)	CATHETER LENGTH	TIP STYLE	UNITS/CASE
ALPHACURVE®, Polyurethane Catheter, Standard Kit					
5835150	14.5 F	19 cm	25 cm	Staggered	5
5835190	14.5 F	24 cm	29 cm	Staggered	5
5835230	14.5 F	28 cm	33 cm	Staggered	5
5835270	14.5 F	31 cm	37 cm	Staggered	5
Straight, Polyurethane Catheter, Standard Kit					
5833150	14.5 F	15 cm	20 cm	Staggered	5
5833690	14.5 F	19 cm	24 cm	Staggered	5
5833730	14.5 F	23 cm	28 cm	Staggered	5
5833270	14.5 F	27 cm	32 cm	Staggered	5
5833310	14.5 F	31 cm	36 cm	Staggered	5
5833350	14.5 F	35 cm	40 cm	Staggered	5
5834420	14.5 F	42 cm	47 cm	Staggered	5
Straight, Polyurethane Catheter, Standard Kit, BioBloc® Silver Sulfadiazine Coating					
5833693	14.5 F	19 cm	24 cm	Staggered	5
5833733	14.5 F	23 cm	28 cm	Staggered	5
5833273	14.5 F	27 cm	32 cm	Staggered	5
5833313	14.5 F	31 cm	36 cm	Staggered	5
5833353	14.5 F	35 cm	40 cm	Staggered	5
5834423	14.5 F	42 cm	47 cm	Staggered	5

HEMOSTAR® XK Catheter with AIRGUARD® Valved Introducer

PRODUCT CODE	CATHETER SIZE	INSERTION LENGTH (TIP TO CUFF)	CATHETER LENGTH	TIP STYLE	UNITS/CASE
ALPHACURVE®, Polyurethane Catheter, Standard Kit					
5885150	16 F	19 cm	25 cm	Staggered	5
5885190	16 F	24 cm	29 cm	Staggered	5
5885230	16 F	28 cm	33 cm	Staggered	5
5885270	16 F	31 cm	37 cm	Staggered	5
Straight, Polyurethane Catheter, Standard Kit					
5883690	16 F	19 cm	24 cm	Staggered	5
5883730	16 F	23 cm	28 cm	Staggered	5
5883270	16 F	27 cm	32 cm	Staggered	5
5883310	16 F	31 cm	36 cm	Staggered	5
5883350	16 F	35 cm	40 cm	Staggered	5
5884420	16 F	42 cm	47 cm	Staggered	5
Straight, Polyurethane Catheter, Standard Kit, BioBloc® Silver Sulfadiazine Coating					
5883693	16 F	19 cm	24 cm	Staggered	5
5883733	16 F	23 cm	28 cm	Staggered	5
5883273	16 F	27 cm	32 cm	Staggered	5
5883313	16 F	31 cm	36 cm	Staggered	5
5884423	16 F	42 cm	47 cm	Staggered	5

HEMODIALYSIS CATHETERS (LONG-TERM)

RELIANCE XK™ Long-Term Hemodialysis Catheter with AIRGUARD® Valved Introducer

PRODUCT CODE	CATHETER SIZE	INSERTION LENGTH (TIP TO CUFF)	CATHETER LENGTH	TIP STYLE	STYLET	UNITS/CASE
Straight, Polyurethane Catheter, Standard Kit						
5323190	16F	19 cm	24 cm	Step-Tip	Preloaded	5
5323230	16F	23 cm	28 cm	Step-Tip	Preloaded	5
5323270	16F	27 cm	32 cm	Step-Tip	Preloaded	5
5323310	16F	31 cm	36 cm	Step-Tip	Preloaded	5
5323350	16F	35 cm	40 cm	Step-Tip	Preloaded	5
5323420	16F	42 cm	47 cm	Step-Tip	Preloaded	5
5323500	16F	50 cm	55 cm	Step-Tip	Preloaded	5
ALPHACURVE®, Polyurethane Catheter, Standard Kit						
5325190	16F	19 cm	25 cm	Step-Tip	None	5
5325240	16F	24 cm	29 cm	Step-Tip	None	5
5325280	16F	28 cm	33 cm	Step-Tip	None	5
5325310	16F	31 cm	37 cm	Step-Tip	None	5
Straight, Polyurethane Catheter, Exchange Kit						
5327190	16F	19 cm	24 cm	Step-Tip	Preloaded	5
5327230	16F	23 cm	28 cm	Step-Tip	Preloaded	5
5327270	16F	27 cm	32 cm	Step-Tip	Preloaded	5
5327310	16F	31 cm	36 cm	Step-Tip	Preloaded	5
5327350	16F	35 cm	40 cm	Step-Tip	Preloaded	5
5327420	16F	42 cm	47 cm	Step-Tip	Preloaded	5
5327500	16F	50 cm	55 cm	Step-Tip	Preloaded	5

HEMODIALYSIS CATHETERS (LONG-TERM)

RETRO® Long-Term Hemodialysis Catheter

PRODUCT CODE	CATHETER SIZE	INSERTION LENGTH (TIP TO CUFF)	CATHETER LENGTH	TIP STYLE	UNITS/CASE
Straight, Silicone Catheter, Standard Kit					
RS19SH24	16 F	19 cm	24 cm	Symmetric	5
RS23SH28	16 F	23 cm	28 cm	Symmetric	5
RS27SH32	16 F	27 cm	32 cm	Symmetric	5
RS31SH36	16 F	31 cm	36 cm	Symmetric	5
RS35SH40	16 F	35 cm	40 cm	Symmetric	5
RS50SH55	16 F	50 cm	55 cm	Symmetric	5

RETRO® Repair Kit

PRODUCT CODE	DESCRIPTION	UNITS/CASE
PRRK5	RETRO® Repair Kit	5

RETRO® Alternative Tunneler

PRODUCT CODE	DESCRIPTION	UNITS/CASE
RT100	RETRO® Alternative Tunneler	5

SOFT-CELL® Catheter

PRODUCT CODE	CATHETER SIZE	INSERTION LENGTH (TIP TO CUFF)	CATHETER LENGTH	TIP STYLE	INTRODUCER	UNITS/CASE
Straight, Polyurethane Catheter, Standard Kit						
5533620	12.5 F	12 cm	27 cm	Staggered	Peel-Apart	5
5533690	12.5 F	19 cm	38 cm	Staggered	Peel-Apart	5

SOFT-CELL® Tunnelers

PRODUCT CODE	DESCRIPTION	UNITS/CASE
5585000	Tunnelers for use with SOFT-CELL® Catheters	10

HEMODIALYSIS CATHETERS (LONG-TERM)

AIRGUARD® Valved Introducer

PRODUCT CODE	CATHETER SIZE	INSERTION LENGTH (TIP TO CUFF)	UNITS/CASE
5515160	6.5 F	15 cm	10
5515180	8 F	15 cm	10
5515110	10 F	15 cm	10
5513150	15 F	13 cm	10
5513165	16.5 F	13 cm	10

Guidewires

PRODUCT CODE	WIRE SIZE	LENGTH	DESCRIPTION	UNITS/CASE
5583700	.038 in	70 cm	Dual Ended Calibrated Wire with 3 mm J-Tip	25
5583705	.038 in	70 cm	Single Ended Calibrated Wire	25

Hemodialysis Catheter Additional Accessories

PRODUCT CODE	DESCRIPTION	UNITS/CASE
5582080	8 F Vessel Dilator	10
5582100	10 F Vessel Dilator	10
5582110	11 F Vessel Dilator	10
5582000	10 - 12 F DUALATOR® Vessel Dilator	10
5584180	18 Gauge Introducer Needle	10
5589040	Heparin Labels	1 Roll

PORTS (Non-Power)

M.R.I.® Dual Lumen Implantable Port

PRODUCT CODE	CATHETER	INTRODUCER	KIT CONFIGURATION	UNITS/EACH
Dual Lumen, Plastic, Intermediate Profile				
0603500	12 F Attachable Silicone	Open Introducer	Intermediate	1
0605920	9.5 F Attachable GROSHONG® Valved	Open Introducer	Intermediate	1
0605930	10 F Attachable Silicone	Open Introducer	Intermediate	1
0607100	10 F Pre-Attached Silicone	Open Introducer	Intermediate	1
0607200	10 F Pre-Attached Silicone	N/A	Basic	1
0615460	10 F Attachable Silicone	N/A	Basic	1

M.R.I.® Hard-Base Implantable Port

PRODUCT CODE	CATHETER	INTRODUCER	KIT CONFIGURATION	UNITS/EACH
Single Lumen, Plastic, Full Size Profile				
0604520	8 F Attachable GROSHONG® Valved	Open Introducer	Intermediate	1
0604550	9.6 F Attachable Silicone	Open Introducer	Intermediate	1
0604580	9.6 F Attachable Silicone	Open Introducer	Intermediate	1
0605450	8 F Attachable Polyurethane	Open Introducer	Intermediate	1
6604550	9.6 F Pre-Attached Silicone	Open Introducer	Intermediate	1

M.R.I.® Implantable Port

PRODUCT CODE	CATHETER	INTRODUCER	KIT CONFIGURATION	UNITS/EACH
Single Lumen, Plastic, Low Profile				
0602620	6.6 F Pre-Attached Silicone	N/A	Basic	1
0602670	6.6 F Pre-Attached Silicone	Open Introducer	Intermediate	1
0602690	6.6 F Attachable Silicone	Open Introducer	Intermediate	1
0602830	8 F Attachable GROSHONG® Valved	Open Introducer	Intermediate	1
0602840	8 F Attachable GROSHONG® Valved	N/A	Basic	1
Single Lumen, Plastic, Intermediate Profile				
0605400	8 F Attachable Polyurethane	N/A	Basic	1
0605420	8 F Attachable Polyurethane	Open Introducer	Intermediate	1
Single Lumen, Plastic, Full Size Profile				
0602610	9.6 F Pre-Attached Silicone	N/A	Basic	1
0602640	9.6 F Attachable Silicone	N/A	Basic	1
0602660	9.6 F Pre-Attached Silicone	Open Introducer	Intermediate	1
0602680	9.6 F Attachable Silicone	Open Introducer	Intermediate	1
0607173	6 F Attachable Polyurethane	Open Introducer	Intermediate	1
0607174	6 F Attachable Polyurethane	N/A	Basic	1

PORTS (Non-Power)

M.R.I.® Low Profile Implantable Port

PRODUCT CODE	CATHETER	INTRODUCER	KIT CONFIGURATION	UNITS/ EACH
Single Lumen, Plastic, Low Profile				
0603830	7 F Attachable GROSHONG® Valved	N/A	Basic	1
0603840	6.6 F Attachable Silicone	N/A	Basic	1
0603870	7 F Attachable GROSHONG® Valved	Open Introducer	Intermediate	1
0603880	6.6 F Attachable Silicone	Open Introducer	Intermediate	1
6603880	6.6 F Pre-Attached Silicone	N/A	Basic	1

M.R.I.® Ultra SLIMPORT® Implantable Port

PRODUCT CODE	CATHETER	INTRODUCER	KIT CONFIGURATION	UNITS/ EACH
Single Lumen, Plastic, Low Profile				
0605640	6 F Attachable Polyurethane	Open Introducer	Intermediate	1
0655640	6 F Attachable Polyurethane	Open Introducer	Microintroducer	1

Peritoneal Port

PRODUCT CODE	CATHETER	INTRODUCER	KIT CONFIGURATION	UNITS/ EACH
Single Lumen, Titanium, Full Size Profile				
0603000	14.3 Attachable Peritoneal	N/A	Basic	1
0603006	14.3 Attachable Peritoneal	N/A	Basic	1

SLIMPORT® Dual Lumen ROSENBLATT® Implantable Port

PRODUCT CODE	CATHETER	INTRODUCER	KIT CONFIGURATION	UNITS/ EACH
Dual Lumen, Plastic, Intermediate Profile				
0604970	7 F Attachable Silicone	Open Introducer	Intermediate	1
0654970	7 F Attachable Silicone	Open Introducer	Microintroducer	1

PORTS (NON-POWER)

Titanium DOME™ Implantable Port

PRODUCT CODE	CATHETER	INTRODUCER	KIT CONFIGURATION	UNITS/ EACH
Single Lumen, Titanium, Full Size Profile				
0602850	8 F Attachable GROSHONG® Valved	Open Introducer	Intermediate	1
0602870	9.6 F Attachable Silicone	Open Introducer	Intermediate	1

Titanium Implantable Port

PRODUCT CODE	CATHETER	INTRODUCER	KIT CONFIGURATION	UNITS/ EACH
Single Lumen, Titanium, Low Profile				
0602180	6.6 F Pre-Attached Silicone	N/A	Basic	1
0602190	6.6 F Pre-Attached Silicone	Open Introducer	Intermediate	1
0602240	6.6 F Attachable Silicone	Open Introducer	Intermediate	1
0602280	6.6 F Pre-Attached Silicone	N/A	Basic	1
0602290	6.6 F Pre-Attached Silicone	Open Introducer	Intermediate	1
0602810	8 F Attachable GROSHONG® Valved	Open Introducer	Intermediate	1
0605490	6 F Attachable Polyurethane	N/A	Basic	1
0605510	6 F Attachable Polyurethane	Open Introducer	Intermediate	1
0606100	6.6 F Attachable Silicone	Open Introducer	Intermediate	1
0606150	8 F Attachable GROSHONG® Valved	Open Introducer	Intermediate	1
0606200	6.6 F Attachable Silicone	N/A	Basic	1

Single Lumen, Titanium, Intermediate Profile

0605300	8 F Attachable Polyurethane	N/A	Basic	1
0605320	8 F Attachable Polyurethane	Open Introducer	Intermediate	1
0607302	6 F Attachable Polyurethane	Open Introducer	Intermediate	1

Single Lumen, Titanium, Full Size Profile

0602210	9.6 F Attachable Silicone	N/A	Basic	1
0602230	9.6 F Attachable Silicone	Open Introducer	Intermediate	1
0602260	9.6 F Pre-Attached Silicone	N/A	Basic	1
0602270	9.6 F Pre-Attached Silicone	Open Introducer	Intermediate	1

Titanium SLIMPORT® Implantable Port

PRODUCT CODE	CATHETER	INTRODUCER	KIT CONFIGURATION	UNITS/ EACH
Single Lumen, Titanium, Low Profile				
0605550	6 F Attachable Polyurethane	Open Introducer	Intermediate	1
0605560	6 F Attachable Polyurethane	N/A	Basic	1
0655510	6 F Attachable Polyurethane	Open Introducer	Microintroducer	1

PORTS (NON-POWER)

X-PORT™ Duo Implantable Port

PRODUCT CODE	CATHETER	INTRODUCER	Kit CONFIGURATION	UNITS/ EACH
Dual Lumen, Plastic, Intermediate Profile				
0607630	10 F Attachable GROSHONG® Valved	Open Introducer	Intermediate	1
0607650	9.5 F Attachable GROSHONG® Valved	Open Introducer	Intermediate	1
0607655	10 F Attachable Silicone	Open Introducer	Intermediate	1
0607675	9.5 F Attachable Polyurethane	Open Introducer	Intermediate	1
0657675	9.5 F Attachable Polyurethane	Open Introducer	Microintroducer	1

X-PORT™ Implantable Port

PRODUCT CODE	CATHETER	INTRODUCER	Kit CONFIGURATION	UNITS/ EACH
Single Lumen, Titanium, Low Profile				
0605840	6 F Attachable Polyurethane	N/A	Basic	1
0605850	6 F Attachable Polyurethane	Open Introducer	Intermediate	1
0655870	6 F Attachable Polyurethane	Open Introducer	Microintroducer	1
Single Lumen, Titanium, Intermediate Profile				
0608530	6 F Attachable Polyurethane	Open Introducer	Intermediate	1
0608540	8 F Attachable Polyurethane	Open Introducer	Intermediate	1
0658510	8 F Attachable Polyurethane	Open Introducer	Microintroducer	1

X-PORT™ Inline Duo Implantable Port

PRODUCT CODE	CATHETER	INTRODUCER	Kit CONFIGURATION	UNITS/ EACH
Dual Lumen, Plastic, Intermediate Profile				
0607760	9.5 F Attachable Polyurethane	Open Introducer	Intermediate	1

X-PORT™ isp Implantable Port

PRODUCT CODE	CATHETER	INTRODUCER	Kit CONFIGURATION	UNITS/ EACH
Single Lumen, Plastic, Intermediate Profile				
0607510	8 F Attachable Polyurethane	N/A	Basic	1
0607520	9.6 F Pre-Attached Silicone	N/A	Basic	1
0607530	6 F Attachable Polyurethane	Open Introducer	Intermediate	1
0607540	8 F Attachable Polyurethane	Open Introducer	Intermediate	1
0607550	9.6 F Pre-Attached Silicone	Open Introducer	Intermediate	1
0607555	9.6 F Attachable Silicone	Open Introducer	Intermediate	1
0657500	6 F Attachable Polyurethane	Open Introducer	Microintroducer	1
0657510	8 F Attachable Polyurethane	Open Introducer	Microintroducer	1
0657520	9.6 F Pre-Attached Silicone	Open Introducer	Microintroducer	1
0657525	9.6 F Attachable Silicone	Open Introducer	Microintroducer	1
7707540	8 F Attachable GROSHONG® Valved	Open Introducer	Intermediate	1
7757540	8 F Attachable GROSHONG® Valved	Open Introducer	Microintroducer	1

PORTS (POWER)

POWERPORT® CLEARVUE® isp Implantable Port

PRODUCT CODE	CATHETER	INTRODUCER	KIT CONFIGURATION	UNITS/ EACH
Single Lumen, Silicone Encased, Intermediate Profile				
1608062	8 F Attachable Polyurethane	AIRGUARD® Valved	Intermediate	1

POWERPORT® CLEARVUE® Slim Implantable Port

PRODUCT CODE	CATHETER	INTRODUCER	KIT CONFIGURATION	UNITS/ EACH
Single Lumen, Plastic, Low Profile				
1618000	8 F Attachable Polyurethane	AIRGUARD® Valved	Intermediate	1
1618070	8 F Attachable Polyurethane	AIRGUARD® Valved	Microintroducer	1

PORTS (POWER)

POWERPORT® Implantable Port

PRODUCT CODE	CATHETER	INTRODUCER	KIT CONFIGURATION	UNITS/ EACH
Single Lumen, Titanium, Full Size Profile				
1708000	8 F Attachable Polyurethane	AIRGUARD® Valved	Intermediate	1
1708001	8 F Attachable Polyurethane	AIRGUARD® Valved	Intermediate	1
1708070	8 F Attachable Polyurethane	AIRGUARD® Valved	Microintroducer	1
1708071	8 F Attachable Polyurethane	AIRGUARD® Valved	Microintroducer	1
1709600	9.6 F Attachable Silicone	AIRGUARD® Valved	Intermediate	1
1709601	9.6 F Attachable Silicone	AIRGUARD® Valved	Intermediate	1
1759600	9.6 F Pre-Attached Silicone	AIRGUARD® Valved	Intermediate	1
1759601	9.6 F Pre-Attached Silicone	AIRGUARD® Valved	Intermediate	1
1778000	8 F Attachable GROSHONG® Valved	Open Introducer	Intermediate	1
1778001	8 F Attachable GROSHONG® Valved	Open Introducer	Intermediate	1
1778070	8 F Attachable GROSHONG® Valved	Open Introducer	Microintroducer	1
1778071	8 F Attachable GROSHONG® Valved	Open Introducer	Microintroducer	1

POWERPORT® isp Implantable Port

PRODUCT CODE	CATHETER	INTRODUCER	KIT CONFIGURATION	UNITS/ EACH
Single Lumen, Titanium, Intermediate Profile				
1706050	6 F Attachable Polyurethane	AIRGUARD® Valved	Microintroducer	1
1706051	6 F Attachable Polyurethane	AIRGUARD® Valved	Microintroducer	1
1706060	6 F Attachable Polyurethane	AIRGUARD® Valved	Intermediate	1
1706061	6 F Attachable Polyurethane	AIRGUARD® Valved	Intermediate	1
1708050	8 F Attachable Polyurethane	AIRGUARD® Valved	Microintroducer	1
1708051	8 F Attachable Polyurethane	AIRGUARD® Valved	Microintroducer	1
1708060	8 F Attachable Polyurethane	AIRGUARD® Valved	Intermediate	1
1708061	8 F Attachable Polyurethane	AIRGUARD® Valved	Intermediate	1
1708550	8 F Attachable GROSHONG® Valved	Open Introducer	Microintroducer	1
1708551	8 F Attachable GROSHONG® Valved	Open Introducer	Microintroducer	1
1708560	8 F Attachable GROSHONG® Valved	Open Introducer	Intermediate	1
1708561	8 F Attachable GROSHONG® Valved	Open Introducer	Intermediate	1
4708060	8 F Attachable Polyurethane	AIRGUARD® Valved	Intermediate	1
4708061	8 F Attachable Polyurethane	AIRGUARD® Valved	Intermediate	1
4708560	8 F Attachable GROSHONG® Valved	Open Introducer	Intermediate	1
4708561	8 F Attachable GROSHONG® Valved	Open Introducer	Intermediate	1

PORTS (POWER)

POWERPORT® M.R.I.® Duo Implantable Port

PRODUCT CODE	CATHETER	INTRODUCER	KIT CONFIGURATION	UNITS/ EACH
Dual Lumen, Plastic, Intermediate Profile				
1829500	9.5 F Attachable Polyurethane	AIRGUARD® Valved	Intermediate	1
1829570	9.5 F Attachable Polyurethane	AIRGUARD® Valved	Microintroducer	1

POWERPORT® M.R.I.® Implantable Port

PRODUCT CODE	CATHETER	INTRODUCER	KIT CONFIGURATION	UNITS/ EACH
Single Lumen, Plastic, Full Size Profile				
1808000	8 F Attachable Polyurethane	AIRGUARD® Valved	Intermediate	1
1808001	8 F Attachable Polyurethane	AIRGUARD® Valved	Intermediate	1
1808070	8 F Attachable Polyurethane	AIRGUARD® Valved	Microintroducer	1
1808071	8 F Attachable Polyurethane	AIRGUARD® Valved	Microintroducer	1
1809600	9.6 F Pre-Attached Silicone	AIRGUARD® Valved	Intermediate	1
1809601	9.6 F Attachable Silicone	AIRGUARD® Valved	Intermediate	1
1809670	9.6 F Attachable Silicone	AIRGUARD® Valved	Microintroducer	1
1859600	9.6 F Pre-Attached Silicone	AIRGUARD® Valved	Intermediate	1
1859601	9.6 F Pre-Attached Silicone	AIRGUARD® Valved	Intermediate	1
1878000	8 F Attachable GROSHONG® Valved	Open Introducer	Intermediate	1
1878001	8 F Attachable GROSHONG® Valved	Open Introducer	Intermediate	1
1878070	8 F Attachable GROSHONG® Valved	Open Introducer	Microintroducer	1
1878071	8 F Attachable GROSHONG® Valved	Open Introducer	Microintroducer	1

POWERPORT® M.R.I.® isp Implantable Port

PRODUCT CODE	CATHETER	INTRODUCER	KIT CONFIGURATION	UNITS/ EACH
Single Lumen, Plastic, Intermediate Profile				
1806050	6 F Attachable Polyurethane	AIRGUARD® Valved	Microintroducer	1
1806051	6 F Attachable Polyurethane	AIRGUARD® Valved	Microintroducer	1
1806060	6 F Attachable Polyurethane	AIRGUARD® Valved	Intermediate	1
1806061	6 F Attachable Polyurethane	AIRGUARD® Valved	Intermediate	1
1808050	8 F Attachable Polyurethane	AIRGUARD® Valved	Microintroducer	1
1808051	8 F Attachable Polyurethane	AIRGUARD® Valved	Microintroducer	1
1808060	8 F Attachable Polyurethane	AIRGUARD® Valved	Intermediate	1
1808061	8 F Attachable Polyurethane	AIRGUARD® Valved	Intermediate	1
1808550	8 F Attachable GROSHONG® Valved	Open Introducer	Microintroducer	1
1808551	8 F Attachable GROSHONG® Valved	Open Introducer	Microintroducer	1
1808560	8 F Attachable GROSHONG® Valved	Open Introducer	Intermediate	1
1808561	8 F Attachable GROSHONG® Valved	Open Introducer	Intermediate	1
1809660	9.6 F Attachable Silicone	AIRGUARD® Valved	Intermediate	1
1809661	9.6 F Attachable Silicone	AIRGUARD® Valved	Intermediate	1
1859660	9.6 F Pre-Attached Silicone	AIRGUARD® Valved	Intermediate	1
1859661	9.6 F Pre-Attached Silicone	AIRGUARD® Valved	Intermediate	1
4808060	8 F Attachable Polyurethane	AIRGUARD® Valved	Intermediate	1
4808061	8 F Attachable Polyurethane	AIRGUARD® Valved	Intermediate	1
4808560	8 F Attachable GROSHONG® Valved	Open Introducer	Intermediate	1
4808561	8 F Attachable GROSHONG® Valved	Open Introducer	Intermediate	1

PORTS (POWER)

POWERPORT® Slim Implantable Port

PRODUCT CODE	CATHETER	INTRODUCER	KIT CONFIGURATION	UNITS/ EACH
Single Lumen, Titanium, Low Profile				
1716000	6 F Attachable Polyurethane	AIRGUARD® Valved	Intermediate	1
1716001	6 F Attachable Polyurethane	AIRGUARD® Valved	Intermediate	1
1716070	6 F Attachable Polyurethane	AIRGUARD® Valved	Microintroducer	1
1716071	6 F Attachable Polyurethane	AIRGUARD® Valved	Microintroducer	1
1718000	8 F Attachable Polyurethane	AIRGUARD® Valved	Intermediate	1
1718001	8 F Attachable Polyurethane	AIRGUARD® Valved	Intermediate	1
1718070	8 F Attachable Polyurethane	AIRGUARD® Valved	Microintroducer	1
1718500	8 F Attachable GROSHONG® Valved	Open Introducer	Intermediate	1
1718501	8 F Attachable GROSHONG® Valved	Open Introducer	Intermediate	1

POWERPORT® VUE® isp Implantable Port

PRODUCT CODE	CATHETER	INTRODUCER	KIT CONFIGURATION	UNITS/ EACH
Single Lumen, Titanium, Intermediate Profile				
1706052	6 F Attachable Polyurethane	AIRGUARD® Valved	Microintroducer	1
1706062	6 F Attachable Polyurethane	AIRGUARD® Valved	Intermediate	1
1708052	8 F Attachable Polyurethane	AIRGUARD® Valved	Microintroducer	1
1708062	8 F Attachable Polyurethane	AIRGUARD® Valved	Intermediate	1

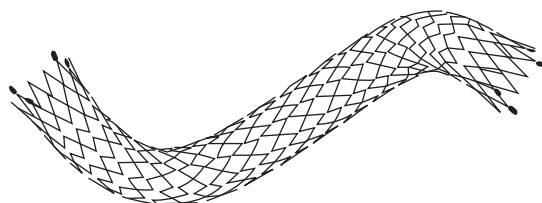
POWERPORT® VUE® M.R.I. Implantable Port

PRODUCT CODE	CATHETER	INTRODUCER	KIT CONFIGURATION	UNITS/ EACH
Single Lumen, Plastic, Intermediate Profile				
1806052	6 F Attachable Polyurethane	AIRGUARD® Valved	Microintroducer	1
1806062	6 F Attachable Polyurethane	AIRGUARD® Valved	Intermediate	1
1808052	8 F Attachable Polyurethane	AIRGUARD® Valved	Microintroducer	1
1808062	8 F Attachable Polyurethane	AIRGUARD® Valved	Intermediate	1

STENTS & STENT GRAFTS

E•LUMINEXX® Vascular Stents

PRODUCT CODE	STENT		CATHETER LENGTH	GUIDEWIRE	CATHETER DIAMETER	UNITS/EACH
	DIAMETER	LENGTH				
ZBM07020	7 mm	20 mm	80 cm	0.035"	6F	1
ZBM07030	7 mm	30 mm	80 cm	0.035"	6F	1
ZBM07040	7 mm	40 mm	80 cm	0.035"	6F	1
ZBM07060	7 mm	60 mm	80 cm	0.035"	6F	1
ZBM07080	7 mm	80 mm	80 cm	0.035"	6F	1
ZBM07100	7 mm	100 mm	80 cm	0.035"	6F	1
ZBL07020	7 mm	20 mm	135 cm	0.035"	6F	1
ZBL07030	7 mm	30 mm	135 cm	0.035"	6F	1
ZBL07040	7 mm	40 mm	135 cm	0.035"	6F	1
ZBL07060	7 mm	60 mm	135 cm	0.035"	6F	1
ZBL07080	7 mm	80 mm	135 cm	0.035"	6F	1
ZBL07100	7 mm	100 mm	135 cm	0.035"	6F	1
ZBM08020	8 mm	20 mm	80 cm	0.035"	6F	1
ZBM08030	8 mm	30 mm	80 cm	0.035"	6F	1
ZBM08040	8 mm	40 mm	80 cm	0.035"	6F	1
ZBM08060	8 mm	60 mm	80 cm	0.035"	6F	1
ZBM08080	8 mm	80 mm	80 cm	0.035"	6F	1
ZBM08100	8 mm	100 mm	80 cm	0.035"	6F	1
ZBL08020	8 mm	20 mm	135 cm	0.035"	6F	1
ZBL08030	8 mm	30 mm	135 cm	0.035"	6F	1
ZBL08040	8 mm	40 mm	135 cm	0.035"	6F	1
ZBL08060	8 mm	60 mm	135 cm	0.035"	6F	1
ZBL08080	8 mm	80 mm	135 cm	0.035"	6F	1
ZBL08100	8 mm	100 mm	135 cm	0.035"	6F	1



STENTS & STENT GRAFTS

E•LUMINEXX® Vascular Stents

PRODUCT CODE	STENT		CATHETER LENGTH	GUIDEWIRE	CATHETER DIAMETER	UNITS/EACH
	DIAMETER	LENGTH				
ZBM09020	9 mm	20 mm	80 cm	0.035"	6F	1
ZBM09030	9 mm	30 mm	80 cm	0.035"	6F	1
ZBM09040	9 mm	40 mm	80 cm	0.035"	6F	1
ZBM09060	9 mm	60 mm	80 cm	0.035"	6F	1
ZBM09080	9 mm	80 mm	80 cm	0.035"	6F	1
ZBM09100	9 mm	100 mm	80 cm	0.035"	6F	1
ZBL09020	9 mm	20 mm	135 cm	0.035"	6F	1
ZBL09030	9 mm	30 mm	135 cm	0.035"	6F	1
ZBL09040	9 mm	40 mm	135 cm	0.035"	6F	1
ZBL09060	9 mm	60 mm	135 cm	0.035"	6F	1
ZBL09080	9 mm	80 mm	135 cm	0.035"	6F	1
ZBL09100	9 mm	100 mm	135 cm	0.035"	6F	1
ZBM10020	10 mm	20 mm	80 cm	0.035"	6F	1
ZBM10030	10 mm	30 mm	80 cm	0.035"	6F	1
ZBM10040	10 mm	40 mm	80 cm	0.035"	6F	1
ZBM10060	10 mm	60 mm	80 cm	0.035"	6F	1
ZBM10080	10 mm	80 mm	80 cm	0.035"	6F	1
ZBM10100	10 mm	100 mm	80 cm	0.035"	6F	1
ZBL10020	10 mm	20 mm	135 cm	0.035"	6F	1
ZBL10030	10 mm	30 mm	135 cm	0.035"	6F	1
ZBL10040	10 mm	40 mm	135 cm	0.035"	6F	1
ZBL10060	10 mm	60 mm	135 cm	0.035"	6F	1
ZBL10080	10 mm	80 mm	135 cm	0.035"	6F	1
ZBL10100	10 mm	100 mm	135 cm	0.035"	6F	1

STENTS & STENT GRAFTS

FLAIR® Endovascular Stent Grafts

PRODUCT CODE	STENT		CATHETER LENGTH	GUIDEWIRE	CATHETER DIAMETER	UNITS/EACH
	DIAMETER	LENGTH				
FAS06030	6 mm	30 mm	80 cm	0.035"	9F	1
FAS06040	6 mm	40 mm	80 cm	0.035"	9F	1
FAS06050	6 mm	50 mm	80 cm	0.035"	9F	1
FAS06070	6 mm	70 mm	80 cm	0.035"	9F	1
FAS07030	7 mm	30 mm	80 cm	0.035"	9F	1
FAS07040	7 mm	40 mm	80 cm	0.035"	9F	1
FAS07050	7 mm	50 mm	80 cm	0.035"	9F	1
FAS07070	7 mm	70 mm	80 cm	0.035"	9F	1
FAS08030	8 mm	30 mm	80 cm	0.035"	9F	1
FAS08040	8 mm	40 mm	80 cm	0.035"	9F	1
FAS08050	8 mm	50 mm	80 cm	0.035"	9F	1
FAS08070	8 mm	70 mm	80 cm	0.035"	9F	1
FAS09030	9 mm	30 mm	80 cm	0.035"	9F	1
FAS09040	9 mm	40 mm	80 cm	0.035"	9F	1
FAS09050	9 mm	50 mm	80 cm	0.035"	9F	1

FAF06030	6 mm	30 mm	80 cm	0.035"	9F	1
FAF06040	6 mm	40 mm	80 cm	0.035"	9F	1
FAF06050	6 mm	50 mm	80 cm	0.035"	9F	1
FAF06070	6 mm	70 mm	80 cm	0.035"	9F	1
FAF07030	7 mm	30 mm	80 cm	0.035"	9F	1
FAF07040	7 mm	40 mm	80 cm	0.035"	9F	1
FAF07050	7 mm	50 mm	80 cm	0.035"	9F	1
FAF07070	7 mm	70 mm	80 cm	0.035"	9F	1
FAF08030	8 mm	30 mm	80 cm	0.035"	9F	1
FAF08040	8 mm	40 mm	80 cm	0.035"	9F	1
FAF08050	8 mm	50 mm	80 cm	0.035"	9F	1
FAF08070	8 mm	70 mm	80 cm	0.035"	9F	1
FAF09030	9 mm	30 mm	80 cm	0.035"	9F	1
FAF09040	9 mm	40 mm	80 cm	0.035"	9F	1
FAF09050	9 mm	50 mm	80 cm	0.035"	9F	1

Straight Stent Graft



Flared Stent Graft



STENTS & STENT GRAFTS

LIFESTAR™ Vascular Stents

PRODUCT CODE	STENT		CATHETER LENGTH	GUIDEWIRE	CATHETER DIAMETER	UNITS/EACH
	DIAMETER	LENGTH				
VIUS07020	7 mm	20 mm	80 cm	0.035"	6F	1
VIUS07030	7 mm	30 mm	80 cm	0.035"	6F	1
VIUS07040	7 mm	40 mm	80 cm	0.035"	6F	1
VIUS07060	7 mm	60 mm	80 cm	0.035"	6F	1
VIUS07080	7 mm	80 mm	80 cm	0.035"	6F	1
VIUS07100	7 mm	100 mm	80 cm	0.035"	6F	1
VIUL07020	7 mm	20 mm	135 cm	0.035"	6F	1
VIUL07030	7 mm	30 mm	135 cm	0.035"	6F	1
VIUL07040	7 mm	40 mm	135 cm	0.035"	6F	1
VIUL07060	7 mm	60 mm	135 cm	0.035"	6F	1
VIUL07080	7 mm	80 mm	135 cm	0.035"	6F	1
VIUL07100	7 mm	100 mm	135 cm	0.035"	6F	1
VIUS08020	8 mm	20 mm	80 cm	0.035"	6F	1
VIUS08030	8 mm	30 mm	80 cm	0.035"	6F	1
VIUS08040	8 mm	40 mm	80 cm	0.035"	6F	1
VIUS08060	8 mm	60 mm	80 cm	0.035"	6F	1
VIUS08080	8 mm	80 mm	80 cm	0.035"	6F	1
VIUS08100	8 mm	100 mm	80 cm	0.035"	6F	1
VIUL08020	8 mm	20 mm	135 cm	0.035"	6F	1
VIUL08030	8 mm	30 mm	135 cm	0.035"	6F	1
VIUL08040	8 mm	40 mm	135 cm	0.035"	6F	1
VIUL08060	8 mm	60 mm	135 cm	0.035"	6F	1
VIUL08080	8 mm	80 mm	135 cm	0.035"	6F	1
VIUL08100	8 mm	100 mm	135 cm	0.035"	6F	1

STENTS & STENT GRAFTS

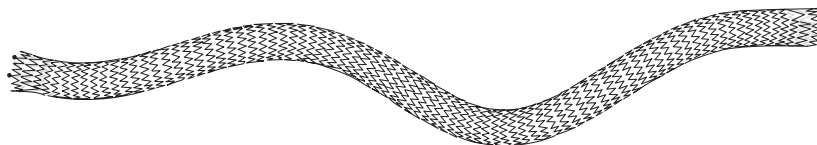
LIFESTAR™ Vascular Stents

PRODUCT CODE	STENT		CATHETER LENGTH	GUIDEWIRE	CATHETER DIAMETER	UNITS/EACH
	DIAMETER	LENGTH				
VIUS09020	9 mm	20 mm	80 cm	0.035"	6F	1
VIUS09030	9 mm	30 mm	80 cm	0.035"	6F	1
VIUS09040	9 mm	40 mm	80 cm	0.035"	6F	1
VIUS09060	9 mm	60 mm	80 cm	0.035"	6F	1
VIUS09080	9 mm	80 mm	80 cm	0.035"	6F	1
VIUS09100	9 mm	100 mm	80 cm	0.035"	6F	1
VIUL09020	9 mm	20 mm	135 cm	0.035"	6F	1
VIUL09030	9 mm	30 mm	135 cm	0.035"	6F	1
VIUL09040	9 mm	40 mm	135 cm	0.035"	6F	1
VIUL09060	9 mm	60 mm	135 cm	0.035"	6F	1
VIUL09080	9 mm	80 mm	135 cm	0.035"	6F	1
VIUL09100	9 mm	100 mm	135 cm	0.035"	6F	1
VIUS10020	10 mm	20 mm	80 cm	0.035"	6F	1
VIUS10030	10 mm	30 mm	80 cm	0.035"	6F	1
VIUS10040	10 mm	40 mm	80 cm	0.035"	6F	1
VIUS10060	10 mm	60 mm	80 cm	0.035"	6F	1
VIUS10080	10 mm	80 mm	80 cm	0.035"	6F	1
VIUS10100	10 mm	100 mm	80 cm	0.035"	6F	1
VIUL10020	10 mm	20 mm	135 cm	0.035"	6F	1
VIUL10030	10 mm	30 mm	135 cm	0.035"	6F	1
VIUL10040	10 mm	40 mm	135 cm	0.035"	6F	1
VIUL10060	10 mm	60 mm	135 cm	0.035"	6F	1
VIUL10080	10 mm	80 mm	135 cm	0.035"	6F	1
VIUL10100	10 mm	100 mm	135 cm	0.035"	6F	1

STENTS & STENT GRAFTS

LIFESTENT® and LIFESTENT® XL Vascular Stent Systems

PRODUCT CODE	STENT		CATHETER LENGTH	GUIDEWIRE	CATHETER DIAMETER	UNITS/EACH
	DIAMETER	LENGTH				
EX060201CS	6 mm	20 mm	80 cm	0.035"	6F	1
EX060301CS	6 mm	30 mm	80 cm	0.035"	6F	1
EX060401CS	6 mm	40 mm	80 cm	0.035"	6F	1
EX060601CS	6 mm	60 mm	80 cm	0.035"	6F	1
EX060801CS	6 mm	80 mm	80 cm	0.035"	6F	1
EX061001CS	6 mm	100 mm	80 cm	0.035"	6F	1
EX061201CS	6 mm	120 mm	80 cm	0.035"	6F	1
EX061501CS	6 mm	150 mm	80 cm	0.035"	6F	1
EX061701CS	6 mm	170 mm	80 cm	0.035"	6F	1
EX060203CS	6 mm	20 mm	130 cm	0.035"	6F	1
EX060303CS	6 mm	30 mm	130 cm	0.035"	6F	1
EX060403CS	6 mm	40 mm	130 cm	0.035"	6F	1
EX060603CS	6 mm	60 mm	130 cm	0.035"	6F	1
EX060803CS	6 mm	80 mm	130 cm	0.035"	6F	1
EX061003CS	6 mm	100 mm	130 cm	0.035"	6F	1
EX061203CS	6 mm	120 mm	130 cm	0.035"	6F	1
EX061503CS	6 mm	150 mm	130 cm	0.035"	6F	1
EX061703CS	6 mm	170 mm	130 cm	0.035"	6F	1
EX070201CS	7 mm	20 mm	80 cm	0.035"	6F	1
EX070301CS	7 mm	30 mm	80 cm	0.035"	6F	1
EX070401CS	7 mm	40 mm	80 cm	0.035"	6F	1
EX070601CS	7 mm	60 mm	80 cm	0.035"	6F	1
EX070801CS	7 mm	80 mm	80 cm	0.035"	6F	1
EX071001CS	7 mm	100 mm	80 cm	0.035"	6F	1
EX071201CS	7 mm	120 mm	80 cm	0.035"	6F	1
EX071501CS	7 mm	150 mm	80 cm	0.035"	6F	1
EX071701CS	7 mm	170 mm	80 cm	0.035"	6F	1
EX070203CS	7 mm	20 mm	130 cm	0.035"	6F	1
EX070303CS	7 mm	30 mm	130 cm	0.035"	6F	1
EX070403CS	7 mm	40 mm	130 cm	0.035"	6F	1
EX070603CS	7 mm	60 mm	130 cm	0.035"	6F	1
EX070803CS	7 mm	80 mm	130 cm	0.035"	6F	1
EX071003CS	7 mm	100 mm	130 cm	0.035"	6F	1
EX071203CS	7 mm	120 mm	130 cm	0.035"	6F	1
EX071503CS	7 mm	150 mm	130 cm	0.035"	6F	1
EX071703CS	7 mm	170 mm	130 cm	0.035"	6F	1



STENTS & STENT GRAFTS

LIFEStENT® SOLO™ Vascular Stent Systems

PRODUCT CODE	STENT		CATHETER LENGTH	GUIDEWIRE	CATHETER DIAMETER	UNITS/EACH
	DIAMETER	LENGTH				
EX062001CL	6 mm	200 mm	80 cm	0.035"	6F	1
EX062003CL	6 mm	200 mm	135 cm	0.035"	6F	1
EX072001CL	7 mm	200 mm	80 cm	0.035"	6F	1
EX072003CL	7 mm	200 mm	135 cm	0.035"	6F	1

SURGICAL GRAFTS: AV ACCESS SPECIALTY GRAFTS

VECTRA® Revision Grafts (10-12 W.P.I. or 4-5 W.P.C.)*

PRODUCT CODE	DIMENSIONS	UNITS/EACH
T5020002	5 mm x 20 cm	1
T6020002	6 mm x 20 cm	1



*W.P.I. = Wraps Per Inch W.P.C. = Wraps Per Centimeter

VECTRA® Revision Grafts (24-32 W.P.I. or 9.5-12.5 W.P.C.)*

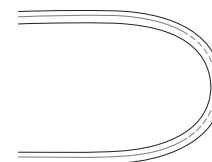
PRODUCT CODE	DIMENSIONS	UNITS/EACH
T5020003	5 mm x 20 cm	1
T6020003	6 mm x 20 cm	1



*W.P.I. = Wraps Per Inch W.P.C. = Wraps Per Centimeter

VECTRA® Vascular Access Grafts

PRODUCT CODE	DIMENSIONS	UNITS/EACH
T5040001	5 mm x 40 cm	1
T6040001	6 mm x 40 cm	1
T5050001	5 mm x 50 cm	1
T6050001	6 mm x 50 cm	1



SURGICAL GRAFTS: AV ACCESS SPECIALTY GRAFTS

VENAFLO® II Vascular Grafts

PRODUCT CODE	DIMENSIONS	UNITS/EACH
VL1006C	6 mm x 10 cm	1
VL1007C	7 mm x 10 cm	1
V1008C*	8 mm x 10 cm	1
VL2006C	6 mm x 20 cm	1
VL2007C	7 mm x 20 cm	1
VL3006C	6 mm x 30 cm	1
VL3007C	7 mm x 30 cm	1
VL4006C	6 mm x 40 cm	1
VL4007C	7 mm x 40 cm	1
VL5006C	6 mm x 50 cm	1
VL5007C	7 mm x 50 cm	1
V5008C*	8 mm x 50 cm	1
CVL4006C	6 mm x 40 cm	1
CVL4007C	7 mm x 40 cm	1
CVL5006C	6 mm x 50 cm	1
VLT2046C	4 - 6 mm x 20 cm	1
VLT2047C	4 - 7 mm x 20 cm	1
VLT2546C	4 - 6 mm x 25 cm	1
VLT2547C	4 - 7 mm x 25 cm	1
VLT3046C	4 - 6 mm x 30 cm	1
VLT3047C	4 - 7 mm x 30 cm	1
VLT3547C	4 - 7 mm x 35 cm	1
VT3558C*	5 - 8 mm x 35 cm	1
VLT4046C	4 - 6 mm x 40 cm	1
VLT4047C	4 - 7 mm x 40 cm	1
VT4058C*	5 - 8 mm x 40 cm	1
VLT4546C	4 - 6 mm x 45 cm	1
VLT4547C	4 - 7 mm x 45 cm	1
CVLT4547C	4 - 7 mm x 45 cm	1

Straight



CENTERFLEX™ Grafts



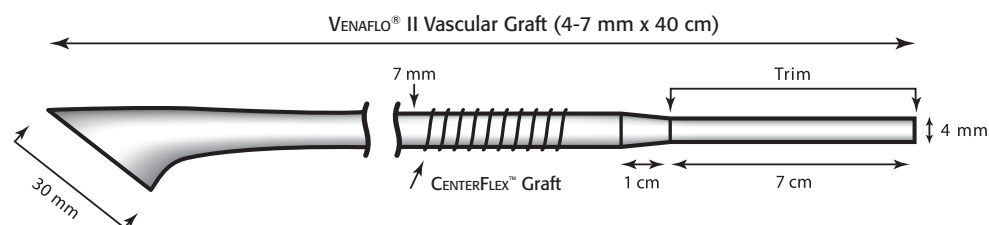
Stepped



Stepped CENTERFLEX™ Grafts



*VENAFLO® Vascular Grafts 8 mm (No trim lines)



VENAFLO® II Vascular Grafts with carbon used in outpatient procedures may be eligible for transitional pass-through payments. Call **1-800-BARD-357** for a complete listing of eligible codes.

SURGICAL GRAFTS: CARBOFLO® AND ePTFE GRAFTS

CARBOFLO® Vascular Grafts

PRODUCT CODE	DIMENSIONS	UNITS/EACH	
10S04C	4 mm x 10 cm	1	Straight 
10S05C	5 mm x 10 cm	1	
10S06C	6 mm x 10 cm	1	
10S07C	7 mm x 10 cm	1	
10S08C	8 mm x 10 cm	1	
20S06C	6 mm x 20 cm	1	
20S07C	7 mm x 20 cm	1	
20S08C	8 mm x 20 cm	1	
30S06C	6 mm x 30 cm	1	
40S05C	5 mm x 40 cm	1	
40S06C	6 mm x 40 cm	1	
40S07C	7 mm x 40 cm	1	
40S08C	8 mm x 40 cm	1	
50S04C	4 mm x 50 cm	1	
50S05C	5 mm x 50 cm	1	
50S06C	6 mm x 50 cm	1	
50S07C	7 mm x 50 cm	1	
50S08C	8 mm x 50 cm	1	
70S06C	6 mm x 70 cm	1	Flex Small Beading 
70S07C	7 mm x 70 cm	1	
70S08C	8 mm x 70 cm	1	
80S06C	6 mm x 80 cm	1	
80S07C	7 mm x 80 cm	1	
80S08C	8 mm x 80 cm	1	
F5006SC	6 mm x 50 cm	1	
F7006SC	6 mm x 70 cm	1	
F7008SC	8 mm x 70 cm	1	
F8006SC	6 mm x 80 cm	1	
F8008SC	8 mm x 80 cm	1	

SURGICAL GRAFTS: CARBOFLO® AND ePTFE GRAFTS

CARBOFLO® Vascular Grafts

PRODUCT CODE	DIMENSIONS	UNITS/EACH
F1006C	6 mm x 10 cm	1
F4006C	6 mm x 40 cm	1
F4008C	8 mm x 40 cm	1
F5006C	6 mm x 50 cm	1
F5007C	7 mm x 50 cm	1
F5008C	8 mm x 50 cm	1
F5010C	10 mm x 50 cm	1
F6006C	6 mm x 60 cm	1
F6008C	8 mm x 60 cm	1
F7006C	6 mm x 70 cm	1
F7007C	7 mm x 70 cm	1
F7008C	8 mm x 70 cm	1
F8006C	6 mm x 80 cm	1
F8007C	7 mm x 80 cm	1
F8008C	8 mm x 80 cm	1
F8010C	10 mm x 80 cm	1
70T74C	7 - 4 mm x 70 cm	1
T4546C	4 - 6 mm x 45 cm	1
T4547C	4 - 7 mm x 45 cm	1
T4558C	5 - 8 mm x 45 cm	1
T5047C	4 - 7 mm x 50 cm	1
40A64C	6 - 4 mm x 40 cm	1
40A74C	7 - 4 mm x 40 cm	1
CF4006C	6 mm x 40 cm	1
CF4008C	8 mm x 40 cm	1
CF5006C	6 mm x 50 cm	1
CF5007C	7 mm x 50 cm	1
CFT4047C	4 - 7 mm x 40 cm	1
CFT4547C	4 - 7 mm x 45 cm	1
CFT4558C	5 - 8 mm x 45 cm	1
CFT5047C	4 - 7 mm x 50 cm	1
CF40A74C	7 - 4 mm x 40 cm	1

CARBOFLO® Flex Grafts



Tapered



Stepped



Short Tapered



CENTERFLEX™ Grafts



Stepped CENTERFLEX™ Grafts



Short Tapered CENTERFLEX™ Grafts



CARBOFLO® Grafts used in outpatient procedures may be eligible for transitional pass-through payments. Call **1-800-BARD-357** for a complete listing of eligible codes.

SURGICAL GRAFTS: CARBOFLO® AND ePTFE GRAFTS

CARBOFLO® Vascular Grafts

PRODUCT CODE	DIMENSIONS	UNITS/EACH
10S06TWC	6 mm x 10 cm	1
10S07TWC	7 mm x 10 cm	1
10S08TWC	8 mm x 10 cm	1
10S10TWC	10 mm x 10 cm	1
20S06TWC	6 mm x 20 cm	1
40S06TWC	6 mm x 40 cm	1
40S08TWC	8 mm x 40 cm	1
50S05TWC	5 mm x 50 cm	1
50S06TWC	6 mm x 50 cm	1
50S07TWC	7 mm x 50 cm	1
50S08TWC	8 mm x 50 cm	1
70S05TWC	5 mm x 70 cm	1
70S06TWC	6 mm x 70 cm	1
70S07TWC	7 mm x 70 cm	1
70S08TWC	8 mm x 70 cm	1
80S06TWC	6 mm x 80 cm	1
80S07TWC	7 mm x 80 cm	1
80S08TWC	8 mm x 80 cm	1
F3006TWSC	6 mm x 30 cm	1
F3008TWSC	8 mm x 30 cm	1
F5006TWSC	6 mm x 50 cm	1
F5008TWSC	8 mm x 50 cm	1
F6006TWSC	6 mm x 60 cm	1
F7005TWSC	5 mm x 70 cm	1
F7006TWSC	6 mm x 70 cm	1
F7007TWSC	7 mm x 70 cm	1
F7008TWSC	8 mm x 70 cm	1
F8006TWSC	6 mm x 80 cm	1
F8007TWSC	7 mm x 80 cm	1
F8008TWSC	8 mm x 80 cm	1
70T74TWC	7 - 4 mm x 70 cm	1
70T85TWC	8 - 5 mm x 70 cm	1
F70T74TSC	7 - 4 mm x 70 cm	1
F70T85TSC	8 - 5 mm x 70 cm	1
F80T74TSC	7 - 4 mm x 80 cm	1

Straight Thinwall



Flex Thinwall Small Beading



Tapered Thinwall



Flex Thinwall Tapered Small Beading



SURGICAL GRAFTS: CARBOFLO® AND ePTFE GRAFTS

IMPRA® Vascular Grafts

PRODUCT CODE	DIMENSIONS	UNITS/EACH
05S06	6 mm x 5 cm	1
10S03	3 mm x 10 cm	1
10S035	3.5 mm x 10 cm	1
10S04	4 mm x 10 cm	1
10S05	5 mm x 10 cm	1
10S06	6 mm x 10 cm	1
10S07	7 mm x 10 cm	1
10S08	8 mm x 10 cm	1
10S10	10 mm x 10 cm	1
20S06	6 mm x 20 cm	1
20S08	8 mm x 20 cm	1
30S06	6 mm x 30 cm	1
40S04	4 mm x 40 cm	1
40S05	5 mm x 40 cm	1
40S06	6 mm x 40 cm	1
40S07	7 mm x 40 cm	1
40S08	8 mm x 40 cm	1
40S10	10 mm x 40 cm	1
50S06	6 mm x 50 cm	1
50S07	7 mm x 50 cm	1
50S08	8 mm x 50 cm	1
60S06	6 mm x 60 cm	1
70S04	4 mm x 70 cm	1
70S05	5 mm x 70 cm	1
70S06	6 mm x 70 cm	1
70S07	7 mm x 70 cm	1
70S08	8 mm x 70 cm	1
70S10	10 mm x 70 cm	1
80S06	6 mm x 80 cm	1
80S08	8 mm x 80 cm	1
90S06	6 mm x 90 cm	1
90S08	8 mm x 90 cm	1
10S13	13 mm x 10 cm	1
10S16	16 mm x 10 cm	1
10S19	19 mm x 10 cm	1
35S13	13 mm x 35 cm	1
35S16	16 mm x 35 cm	1
35S19	19 mm x 35 cm	1

Straight

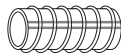
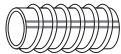


Large Diameter



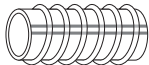
SURGICAL GRAFTS: CARBOFLO® AND ePTFE GRAFTS

IMPRA® Vascular Grafts

PRODUCT CODE	DIMENSIONS	UNITS/EACH	
F2006S	6 mm x 20 cm	1	Flex Small Beading 
F4008S	8 mm x 40 cm	1	
F5008S	8 mm x 50 cm	1	
F7006S	6 mm x 70 cm	1	
F7008S	8 mm x 70 cm	1	
F8006S	6 mm x 80 cm	1	
F8008S	8 mm x 80 cm	1	
F1006	6 mm x 10 cm	1	IMPRA® Flex Grafts 
F1008	8 mm x 10 cm	1	
F1010	10 mm x 10 cm	1	
F2006	6 mm x 20 cm	1	
F2007	7 mm x 20 cm	1	
F3006	6 mm x 30 cm	1	
F4006	6 mm x 40 cm	1	
F4007	7 mm x 40 cm	1	
F4008	8 mm x 40 cm	1	
F4010	10 mm x 40 cm	1	
F5006	6 mm x 50 cm	1	
F5007	7 mm x 50 cm	1	
F5008	8 mm x 50 cm	1	
F5010	10 mm x 50 cm	1	
F6006	6 mm x 60 cm	1	
F6008	8 mm x 60 cm	1	
F6010	10 mm x 60 cm	1	
F7006	6 mm x 70 cm	1	
F7007	7 mm x 70 cm	1	
F7008	8 mm x 70 cm	1	
F7010	10 mm x 70 cm	1	
F8006	6 mm x 80 cm	1	
F8007	7 mm x 80 cm	1	
F8008	8 mm x 80 cm	1	
F9006	6 mm x 90 cm	1	
F9008	8 mm x 90 cm	1	

SURGICAL GRAFTS: CARBOFLO® AND ePTFE GRAFTS

IMPRA® Vascular Grafts

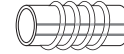
PRODUCT CODE	DIMENSIONS	UNITS/EACH	
F2513	13 mm x 25 cm	1	Flex Large Diameter 
F2516	16 mm x 25 cm	1	
F2519	19 mm x 25 cm	1	
F3513	13 mm x 35 cm	1	
F3516	16 mm x 35 cm	1	
F3519	19 mm x 35 cm	1	
70T74	7 - 4 mm x 70 cm	1	Tapered 
70T85	8 - 5 mm x 70 cm	1	
F70T74S	7 - 4 mm x 70 cm	1	Flex Tapered Small Beading 
F70T85S	8 - 5 mm x 70 cm	1	
F70T74	7 - 4 mm x 70 cm	1	Flex Tapered 
T1547	4 - 7 mm x 15 cm	1	Stepped 
T4546	4 - 6 mm x 45 cm	1	
T4547	4 - 7 mm x 45 cm	1	
T4558	5 - 8 mm x 45 cm	1	
T5047	4 - 7 mm x 50 cm	1	
T5058	5 - 8 mm x 50 cm	1	
T6047	4 - 7 mm x 60 cm	1	
40A64	6 - 4 mm x 40 cm	1	
40A74	7 - 4 mm x 40 cm	1	Short Tapered 
45A64	6 - 4 mm x 45 cm	1	
60A74	7 - 4 mm x 60 cm	1	

SURGICAL GRAFTS: CARBOFLO® AND ePTFE GRAFTS

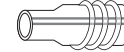
IMPRA® Vascular Grafts

PRODUCT CODE	DIMENSIONS	UNITS/EACH
CF4006	6 mm x 40 cm	1
CF4008	8 mm x 40 cm	1
CF5006	6 mm x 50 cm	1
CF5008	8 mm x 50 cm	1
CF8006	6 mm x 80 cm	1
CFT4547	4 - 7 mm x 45 cm	1
CFT4558	5 - 8 mm x 45 cm	1
CF40A64	6 - 4 mm x 40 cm	1

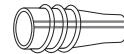
CENTERFLEX™ Grafts



Stepped CENTERFLEX™ Grafts



Short Tapered CENTERFLEX™ Grafts



IMPRA® Vascular Grafts

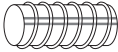
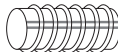
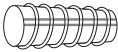
PRODUCT CODE	DIMENSIONS	UNITS/EACH
10S03TW	3 mm x 10 cm	1
10S04TW	4 mm x 10 cm	1
10S05TW	5 mm x 10 cm	1
10S06TW	6 mm x 10 cm	1
10S08TW	8 mm x 10 cm	1
20S06TW	6 mm x 20 cm	1
30S06TW	6 mm x 30 cm	1
40S03TW	3 mm x 40 cm	1
40S06TW	6 mm x 40 cm	1
40S08TW	8 mm x 40 cm	1
70S06TW	6 mm x 70 cm	1
70S07TW	7 mm x 70 cm	1
70S08TW	8 mm x 70 cm	1
80S06TW	6 mm x 80 cm	1
80S07TW	7 mm x 80 cm	1
80S08TW	8 mm x 80 cm	1

Straight Thinwall



SURGICAL GRAFTS: CARBOFLO® AND ePTFE GRAFTS

IMPRA® Vascular Grafts

PRODUCT CODE	DIMENSIONS	UNITS/EACH	
F1006TWS	6 mm x 10 cm	1	Flex Thinwall Small Beading 
F5006TWS	6 mm x 50 cm	1	
F5008TWS	8 mm x 50 cm	1	
F6006TWS	6 mm x 60 cm	1	
F7006TWS	6 mm x 70 cm	1	
F7007TWS	7 mm x 70 cm	1	
F7008TWS	8 mm x 70 cm	1	
F8006TWS	6 mm x 80 cm	1	
F8007TWS	7 mm x 80 cm	1	
F8008TWS	8 mm x 80 cm	1	
F4006TW	6 mm x 40 cm	1	Flex Thinwall 
F4008TW	8 mm x 40 cm	1	
F5006TW	6 mm x 50 cm	1	
F5008TW	8 mm x 50 cm	1	
F7006TW	6 mm x 70 cm	1	
F7007TW	7 mm x 70 cm	1	
F7008TW	8 mm x 70 cm	1	
F8006TW	6 mm x 80 cm	1	
F8008TW	8 mm x 80 cm	1	
F70T74TWS	7 - 4 mm x 70 cm	1	Flex Thinwall Tapered Small Beading 

SURGICAL GRAFTS: PERIPHERAL VASCULAR SPECIALTY GRAFTS

DISTAFLOR[®] Bypass Grafts

PRODUCT CODE	DIMENSIONS	UNITS/EACH
DF5006SC	6 mm x 50 cm	1
DF5007SC	7 mm x 50 cm	1
DF5008SC	8 mm x 50 cm	1
DF6006SC	6 mm x 60 cm	1
DF6007SC	7 mm x 60 cm	1
DF6008SC	8 mm x 60 cm	1
DF7006SC	6 mm x 70 cm	1
DF7007SC	7 mm x 70 cm	1
DF7008SC	8 mm x 70 cm	1
DF8006SC	6 mm x 80 cm	1
DF8007SC	7 mm x 80 cm	1
DF8008SC	8 mm x 80 cm	1
DFM5006SC	6 mm x 50 cm	1
DFM6006SC	6 mm x 60 cm	1
DFM7006SC	6 mm x 70 cm	1
DFM8006SC	6 mm x 80 cm	1

Flex Small Beading With Standard Cuff



Flex Small Beading With Small Cuff



DISTAFLOR[®] Mini Cuff Bypass Grafts

PRODUCT CODE	DIMENSIONS	UNITS/EACH
DFX6006SC	6 mm x 60 cm	1
DFX7006SC	6 mm x 70 cm	1
DFX8006SC	6 mm x 80 cm	1
DFX9006SC	6 mm x 90 cm	1

Flex Small Beading With Mini Cuff



DYNAFLO[®] Bypass Grafts

PRODUCT CODE	DIMENSIONS	UNITS/EACH
DN5007C	7 mm x 50 cm	1
DN5008C	8 mm x 50 cm	1
DN6007C	7 mm x 60 cm	1
DN6008C	8 mm x 60 cm	1
DNF5007SC	7 mm x 50 cm	1
DNF5008SC	8 mm x 50 cm	1
DNF6007SC	7 mm x 60 cm	1
DNF6008SC	8 mm x 60 cm	1
DNF7007SC	7 mm x 70 cm	1
DNF7008SC	8 mm x 70 cm	1
DNF8007SC	7 mm x 80 cm	1
DNF8008SC	8 mm x 80 cm	1

Bypass Grafts



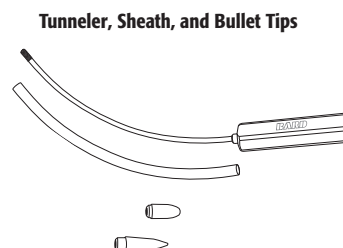
Flex Small Beading



SURGICAL GRAFTS: TUNNELER SETS AND ACCESSORIES

AV Sheath Tunneler Set

PRODUCT CODE	DESCRIPTION	DIMENSIONS	UNITS/EACH
AVST2000	AV Sheath Tunneler Set		1
Set includes item codes listed below.			
AVSTS0005	5 mm Straight Sheath	23 cm	1
AVSTS0605	5 mm 60° Sheath	22 cm	1
AVSTS1205	5 mm 120° Sheath	22 cm	1
AVST0015	5 mm Dissecting Bullet Tip		1
AVST0025	5 mm Blunt Bullet Tip		1
AVSTS0006	6 mm Straight Sheath	23 cm	1
AVSTS0606	6 mm 60° Sheath	22 cm	1
AVSTS1206	6 mm 120° Sheath	22 cm	1
AVSTS1806	6 mm 180° Sheath	19 cm	1
AVST0016	6 mm Dissecting Bullet Tip		1
AVST0026	6 mm Blunt Bullet tip		1
AVSTR000	Straight Rod	24.5 cm	1
AVSTR060	60° Rod	23.5 cm	1
AVSTR120	120° Rod	23.5 cm	1
AVSTR180	180° Rod	20.5 cm	1
AVST0200	Handle		1
AVST0100	Sterilization Cassette		1



AV Sheath Tunneler Replacement Parts and Tips

PRODUCT CODE	DESCRIPTION	DIMENSIONS	UNITS/EACH
AVSTS0005	5 mm Straight Sheath	23 cm	1
AVSTS0605	5 mm 60° Sheath	22 cm	1
AVSTS1205	5 mm 120° Sheath	22 cm	1
AVST0015	5 mm Dissecting Bullet Tip		1
AVST0025	5 mm Blunt Bullet Tip		1
AVSTS0006	6 mm Straight Sheath	23 cm	1
AVSTS0606	6 mm 60° Sheath	22 cm	1
AVSTS1206	6 mm 120° Sheath	22 cm	1
AVSTS1806	6 mm 180° Sheath	19 cm	1
AVST0016	6 mm Dissecting Bullet Tip		1
AVST0026	6 mm Blunt Bullet tip		1
AVSTR000	Straight Rod	24.5 cm	1
AVSTR060	60° Rod	23.5 cm	1
AVSTR120	120° Rod	23.5 cm	1
AVSTR180	180° Rod	20.5 cm	1
AVST0200	Handle		1
AVST0100	Sterilization Cassette		1

SURGICAL GRAFTS: TUNNELER SETS AND ACCESSORIES

Bi-Directional Tunneler Accessories

PRODUCT CODE	DESCRIPTION	DIMENSIONS	UNITS/EACH
BTH001	Universal Tunneler Handle		1
BTSC035	Curved Shaft	55 cm	1

Universal Tunneler Handle



Curved and Straight Shafts



Bi-Directional Tunneler Replacement Tips

PRODUCT CODE	DESCRIPTION	DIMENSIONS	UNITS/EACH
BTT06	Bullet Tip	6 mm	1
BTT07	Bullet Tip	7 mm	1
BTT08	Bullet Tip	8 mm	1

Bullet Tip

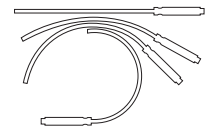


Bi-Directional Tunneler Replacement Tips are interchangeable with the Kelly-Wick Tunneler Tips.

Kelly-Wick Tunneler Replacement Parts and Tips

PRODUCT CODE	DESCRIPTION	DIMENSIONS	UNITS/EACH
KWS23C	Curved Shaft (60°)	23 cm	1
KWS23CS	Curved Shaft (120°)	23 cm	1
KWS23CSS	Curved Shaft (180°)	23 cm	1
KWS23S	Straight Shaft	23 cm	1
KWT004	Bullet Tip	4 mm	1
KWT004KWL	Vein Tip w/Luer Adapter	4 mm	1
KWT006	Bullet Tip	6 mm	1
KWT007	Bullet Tip	7 mm	1
KWT008	Bullet Tip	8 mm	1
KWT010	Bullet Tip	10 mm	1
KWT012	Bullet Tip	12 mm	1
KWC200	Tunnelers Case		1

Shafts



Bullet Tip



SURGICAL GRAFTS: TUNNELER SETS AND ACCESSORIES

PV Sheath Tunneler Set

PRODUCT CODE	DESCRIPTION	DIMENSIONS	UNITS/EACH
PVT1000	PV Sheath Tunneler Set		1
PVT0100	Sterilization Cassette		1
PVT0200	Handle		1
PVT0300	8.5 mm Short Sheath	(19"/48 cm Long)	1
PVT0400	11 mm Short Sheath	(19"/48 cm Long)	1
PVT0500	11 mm Long Sheath	(23"/60 cm Long)	1
PVT0600	Short Rod		1
PVT0700	Long Rod		1
PVT0800	8.5 mm Bullet Tip		1
PVT0900	11 mm Bullet Tip		1



TAPES AND POUCHES

PTFE and Polyester Braided Tapes and Pouches

PRODUCT CODE	DIMENSIONS		UNITS/CASE
	INCHES	CENTIMETERS	
BARD® PTFE Braided Tape (2 per sterile pouch)			
007913	1/16" x 24"	2 mm x 61 cm	20
007914	3/16" x 24"	4 mm x 61 cm	20
007917	1/16" x 36"	2 mm x 91.4 cm	20
007918	3/16" x 36"	4 mm x 91.4 cm	20
BARD® Polyester Braided Tape (2 per sterile pouch)			
007915	1/8" x 24"	3 mm x 61 cm	20
BARD® Polyester Braided Tape (1 per sterile pouch)			
007916	1/8" x 36"	3 mm x 91.4 cm	10
BARD® PARSONNET™ Pulse Generator Pouches			
002904	Small		5
002905	Large		5
002906	X-Large		5



VALVULOPLASTY - AORTIC

TRUE DILATATION™ Balloon Valvuloplasty Catheters

PRODUCT CODE	BALLOON		CATHETER LENGTH (CM)	SHEATH SIZE (F)	UNITS/EACH
	DIAMETER (MM)	LENGTH (CM)			
0204511	20	4.5	110	11F	1
0224512	22	4.5	110	12F	1
0244512	24	4.5	110	12F	1
0264513	26	4.5	110	13F	1

0.035" guidewire compatible

VALVULOPLASTY - PULMONARY

VIDA® PTV* Balloon Dilatation Catheters

PRODUCT CODE	BALLOON		CATHETER LENGTH (CM)	SHEATH SIZE (F)	UNITS/EACH
	DIAMETER (MM)	LENGTH (CM)			
VDA100122	12	2	100	7F	1
VDA100124	12	4	100	7F	1
VDA100126	12	6	100	7F	1
VDA100142	14	2	100	7F	1
VDA100144	14	4	100	7F	1
VDA100146	14	6	100	8F	1
VDA100162	16	2	100	8F	1
VDA100164	16	4	100	8F	1
VDA100166	16	6	100	8F	1
VDA100182	18	2	100	8F	1
VDA100184	18	4	100	8F	1
VDA100186	18	6	100	9F	1
VDA100202	20	2	100	9F	1
VDA100204	20	4	100	9F	1
VDA100222	22	2	100	10F	1
VDA100224	22	4	100	10F	1
VDA100242	24	2	100	10F	1
VDA100244	24	4	100	10F	1
VDA100262	26	2	100	12F	1
VDA100264	26	4	100	12F	1

0.035" guidewire compatible

*Percutaneous Transluminal Valvuloplasty

VASCULAR PROBES

Vascular Probes

PRODUCT CODE	DIMENSIONS		UNITS/CASE
	PROBE SIZE	LENGTH	
BARD® PARSONNET™ Vascular Probes			
007603	1.0 mm	45 cm	5
007604	1.5 mm	45 cm	5
007605	2.0 mm	45 cm	5
007606	2.5 mm	45 cm	5
007607	3.0 mm	45 cm	5
007608	3.5 mm	45 cm	5



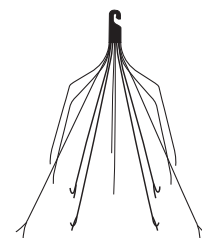
VENA CAVA FILTERS

BARD® Snare Retrieval Kit

PRODUCT CODE	DESCRIPTION	UNITS/EACH
SRK30	Dual Sheath Snare Retrieval Kit, 20 mm	1

DENALI® Vena Cava Filter System

PRODUCT CODE	DESCRIPTION	UNITS/EACH
DL900F	Femoral Delivery Kit	1
DL900J	Jugular/Subclavian Delivery Kit	1

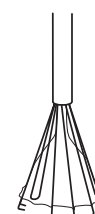


Individual Delivery Sheath / Dilator Sets for SIMON NITINOL® Filter

PRODUCT CODE	DESCRIPTION	UNITS/EACH
3120F	Femoral Catheter	1
3220J	Jugular/Subclavian Catheter	1
3320A	Antecubital Catheter	1

RECOVERY CONE® Removal System

PRODUCT CODE	DESCRIPTION	UNITS/EACH
FBRC	RECOVERY CONE® Removal System	1



SIMON NITINOL® Filter System

PRODUCT CODE	DESCRIPTION	UNITS/EACH
2120F	Femoral Delivery Kit	1
2220J	Jugular/Subclavian Delivery Kit	1
2320A	Antecubital Delivery Kit	1



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FOR ORDERING OR INFORMATION: **1.800.321.4254**

CONFIDENTIAL AND PROPRIETARY

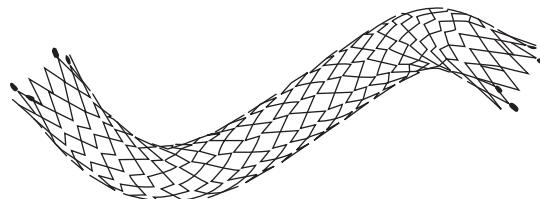
Please consult package inserts for more detailed safety information and instructions for use.

BILIARY STENTS

E•LUMINEXX® Biliary Stents

PRODUCT CODE	STENT		CATHETER LENGTH	GUIDEWIRE	CATHETER DIAM-ETER	UNITS/EACH
	DIAMETER	LENGTH				
ZBL04020	4 mm	20 mm	135 cm	0.035"	6F	1
ZBL04030	4 mm	30 mm	135 cm	0.035"	6F	1
ZBL04040	4 mm	40 mm	135 cm	0.035"	6F	1
ZBL04060	4 mm	60 mm	135 cm	0.035"	6F	1
ZBL04080	4 mm	80 mm	135 cm	0.035"	6F	1
ZBL04100	4 mm	100 mm	135 cm	0.035"	6F	1
ZBL04120	4 mm	120 mm	135 cm	0.035"	6F	1
ZBL05020	5 mm	20 mm	135 cm	0.035"	6F	1
ZBL05030	5 mm	30 mm	135 cm	0.035"	6F	1
ZBL05040	5 mm	40 mm	135 cm	0.035"	6F	1
ZBL05060	5 mm	60 mm	135 cm	0.035"	6F	1
ZBL05080	5 mm	80 mm	135 cm	0.035"	6F	1
ZBL05100	5 mm	100 mm	135 cm	0.035"	6F	1
ZBL05120	5 mm	120 mm	135 cm	0.035"	6F	1
ZBM06020	6 mm	20 mm	80 cm	0.035"	6F	1
ZBM06030	6 mm	30 mm	80 cm	0.035"	6F	1
ZBM06040	6 mm	40 mm	80 cm	0.035"	6F	1
ZBM06060	6 mm	60 mm	80 cm	0.035"	6F	1
ZBM06080	6 mm	80 mm	80 cm	0.035"	6F	1
ZBM06100	6 mm	100 mm	80 cm	0.035"	6F	1
ZBM06120	6 mm	120 mm	80 cm	0.035"	6F	1
ZBL06020	6 mm	20 mm	135 cm	0.035"	6F	1
ZBL06030	6 mm	30 mm	135 cm	0.035"	6F	1
ZBL06040	6 mm	40 mm	135 cm	0.035"	6F	1
ZBL06060	6 mm	60 mm	135 cm	0.035"	6F	1
ZBL06080	6 mm	80 mm	135 cm	0.035"	6F	1
ZBL06100	6 mm	100 mm	135 cm	0.035"	6F	1
ZBL06120	6 mm	120 mm	135 cm	0.035"	6F	1

WARNING: The safety and effectiveness of the 4 mm - 6 mm and 12 mm - 14 mm diameter and the 120 mm length E•LUMINEXX® Biliary Stent for use in the vascular system has not been established.



BILIARY STENTS

E-LUMINEXX® Biliary Stents

PRODUCT CODE	STENT		CATHETER LENGTH	GUIDEWIRE	CATHETER DIAMETER	UNITS/EACH
	DIAMETER	LENGTH				
ZBM07020	7 mm	20 mm	80 cm	0.035"	6F	1
ZBM07030	7 mm	30 mm	80 cm	0.035"	6F	1
ZBM07040	7 mm	40 mm	80 cm	0.035"	6F	1
ZBM07060	7 mm	60 mm	80 cm	0.035"	6F	1
ZBM07080	7 mm	80 mm	80 cm	0.035"	6F	1
ZBM07100	7 mm	100 mm	80 cm	0.035"	6F	1
ZBM07120	7 mm	120 mm	80 cm	0.035"	6F	1
ZBL07020	7 mm	20 mm	135 cm	0.035"	6F	1
ZBL07030	7 mm	30 mm	135 cm	0.035"	6F	1
ZBL07040	7 mm	40 mm	135 cm	0.035"	6F	1
ZBL07060	7 mm	60 mm	135 cm	0.035"	6F	1
ZBL07080	7 mm	80 mm	135 cm	0.035"	6F	1
ZBL07100	7 mm	100 mm	135 cm	0.035"	6F	1
ZBL07120	7 mm	120 mm	135 cm	0.035"	6F	1
ZBM08020	8 mm	20 mm	80 cm	0.035"	6F	1
ZBM08030	8 mm	30 mm	80 cm	0.035"	6F	1
ZBM08040	8 mm	40 mm	80 cm	0.035"	6F	1
ZBM08060	8 mm	60 mm	80 cm	0.035"	6F	1
ZBM08080	8 mm	80 mm	80 cm	0.035"	6F	1
ZBM08100	8 mm	100 mm	80 cm	0.035"	6F	1
ZBM08120	8 mm	120 mm	80 cm	0.035"	6F	1
ZBL08020	8 mm	20 mm	135 cm	0.035"	6F	1
ZBL08030	8 mm	30 mm	135 cm	0.035"	6F	1
ZBL08040	8 mm	40 mm	135 cm	0.035"	6F	1
ZBL08060	8 mm	60 mm	135 cm	0.035"	6F	1
ZBL08080	8 mm	80 mm	135 cm	0.035"	6F	1
ZBL08100	8 mm	100 mm	135 cm	0.035"	6F	1
ZBL08120	8 mm	120 mm	135 cm	0.035"	6F	1
ZBM09020	9 mm	20 mm	80 cm	0.035"	6F	1
ZBM09030	9 mm	30 mm	80 cm	0.035"	6F	1
ZBM09040	9 mm	40 mm	80 cm	0.035"	6F	1
ZBM09060	9 mm	60 mm	80 cm	0.035"	6F	1
ZBM09080	9 mm	80 mm	80 cm	0.035"	6F	1
ZBM09100	9 mm	100 mm	80 cm	0.035"	6F	1
ZBM09120	9 mm	120 mm	80 cm	0.035"	6F	1
ZBL09020	9 mm	20 mm	135 cm	0.035"	6F	1
ZBL09030	9 mm	30 mm	135 cm	0.035"	6F	1
ZBL09040	9 mm	40 mm	135 cm	0.035"	6F	1
ZBL09060	9 mm	60 mm	135 cm	0.035"	6F	1
ZBL09080	9 mm	80 mm	135 cm	0.035"	6F	1
ZBL09100	9 mm	100 mm	135 cm	0.035"	6F	1
ZBL09120	9 mm	120 mm	135 cm	0.035"	6F	1

WARNING: The safety and effectiveness of the 4 mm - 6 mm and 12 mm - 14 mm diameter and the 120 mm length E-LUMINEXX® Biliary Stent for use in the vascular system has not been established.

BILIARY STENTS

E•LUMINEXX® Biliary Stents

PRODUCT CODE	STENT		CATHETER LENGTH	GUIDEWIRE	CATHETER DIAMETER	UNITS/EACH
	DIAMETER	LENGTH				
ZBM10020	10 mm	20 mm	80 cm	0.035"	6F	1
ZBM10030	10 mm	30 mm	80 cm	0.035"	6F	1
ZBM10040	10 mm	40 mm	80 cm	0.035"	6F	1
ZBM10060	10 mm	60 mm	80 cm	0.035"	6F	1
ZBM10080	10 mm	80 mm	80 cm	0.035"	6F	1
ZBM10100	10 mm	100 mm	80 cm	0.035"	6F	1
ZBM10120	10 mm	120 mm	80 cm	0.035"	6F	1
ZBL10020	10 mm	20 mm	135 cm	0.035"	6F	1
ZBL10030	10 mm	30 mm	135 cm	0.035"	6F	1
ZBL10040	10 mm	40 mm	135 cm	0.035"	6F	1
ZBL10060	10 mm	60 mm	135 cm	0.035"	6F	1
ZBL10080	10 mm	80 mm	135 cm	0.035"	6F	1
ZBL10100	10 mm	100 mm	135 cm	0.035"	6F	1
ZBL10120	10 mm	120 mm	135 cm	0.035"	6F	1
ZBM12020	12 mm	20 mm	80 cm	0.035"	6F	1
ZBM12030	12 mm	30 mm	80 cm	0.035"	6F	1
ZBM12040	12 mm	40 mm	80 cm	0.035"	6F	1
ZBM12060	12 mm	60 mm	80 cm	0.035"	6F	1
ZBM12080	12 mm	80 mm	80 cm	0.035"	6F	1
ZBM12100	12 mm	100 mm	80 cm	0.035"	6F	1
ZBM12120	12 mm	120 mm	80 cm	0.035"	6F	1
ZBL12020	12 mm	20 mm	135 cm	0.035"	6F	1
ZBL12030	12 mm	30 mm	135 cm	0.035"	6F	1
ZBL12040	12 mm	40 mm	135 cm	0.035"	6F	1
ZBL12060	12 mm	60 mm	135 cm	0.035"	6F	1
ZBL12080	12 mm	80 mm	135 cm	0.035"	6F	1
ZBL12100	12 mm	100 mm	135 cm	0.035"	6F	1
ZBL12120	12 mm	120 mm	135 cm	0.035"	6F	1
ZBM14020	14 mm	20 mm	80 cm	0.035"	6F	1
ZBM14030	14 mm	30 mm	80 cm	0.035"	6F	1
ZBM14040	14 mm	40 mm	80 cm	0.035"	6F	1
ZBM14060	14 mm	60 mm	80 cm	0.035"	6F	1
ZBM14080	14 mm	80 mm	80 cm	0.035"	6F	1
ZBM14100	14 mm	100 mm	80 cm	0.035"	6F	1
ZBM14120	14 mm	120 mm	80 cm	0.035"	6F	1
ZBL14020	14 mm	20 mm	135 cm	0.035"	6F	1
ZBL14030	14 mm	30 mm	135 cm	0.035"	6F	1
ZBL14040	14 mm	40 mm	135 cm	0.035"	6F	1
ZBL14060	14 mm	60 mm	135 cm	0.035"	6F	1
ZBL14080	14 mm	80 mm	135 cm	0.035"	6F	1
ZBL14100	14 mm	100 mm	135 cm	0.035"	6F	1
ZBL14120	14 mm	120 mm	135 cm	0.035"	6F	1

WARNING: The safety and effectiveness of the 4 mm - 6 mm and 12 mm - 14 mm diameter and the 120 mm length E•LUMINEXX® Biliary Stent for use in the vascular system has not been established.

BILIARY STENTS

LIFESTAR™ Biliary Stents

PRODUCT CODE	STENT		CATHETER LENGTH	GUIDEWIRE	CATHETER DIAMETER	UNITS/EACH
	DIAMETER	LENGTH				
VIUS06020	6 mm	20 mm	80 cm	0.035"	6F	1
VIUS06030	6 mm	30 mm	80 cm	0.035"	6F	1
VIUS06040	6 mm	40 mm	80 cm	0.035"	6F	1
VIUS06060	6 mm	60 mm	80 cm	0.035"	6F	1
VIUS06080	6 mm	80 mm	80 cm	0.035"	6F	1
VIUS06100	6 mm	100 mm	80 cm	0.035"	6F	1
VIUS06120	6 mm	120 mm	80 cm	0.035"	6F	1
VIUL06020	6 mm	20 mm	135 cm	0.035"	6F	1
VIUL06030	6 mm	30 mm	135 cm	0.035"	6F	1
VIUL06040	6 mm	40 mm	135 cm	0.035"	6F	1
VIUL06060	6 mm	60 mm	135 cm	0.035"	6F	1
VIUL06080	6 mm	80 mm	135 cm	0.035"	6F	1
VIUL06100	6 mm	100 mm	135 cm	0.035"	6F	1
VIUL06120	6 mm	120 mm	135 cm	0.035"	6F	1
VIUS07020	7 mm	20 mm	80 cm	0.035"	6F	1
VIUS07030	7 mm	30 mm	80 cm	0.035"	6F	1
VIUS07040	7 mm	40 mm	80 cm	0.035"	6F	1
VIUS07060	7 mm	60 mm	80 cm	0.035"	6F	1
VIUS07080	7 mm	80 mm	80 cm	0.035"	6F	1
VIUS07100	7 mm	100 mm	80 cm	0.035"	6F	1
VIUS07120	7 mm	120 mm	80 cm	0.035"	6F	1
VIUL07020	7 mm	20 mm	135 cm	0.035"	6F	1
VIUL07030	7 mm	30 mm	135 cm	0.035"	6F	1
VIUL07040	7 mm	40 mm	135 cm	0.035"	6F	1
VIUL07060	7 mm	60 mm	135 cm	0.035"	6F	1
VIUL07080	7 mm	80 mm	135 cm	0.035"	6F	1
VIUL07100	7 mm	100 mm	135 cm	0.035"	6F	1
VIUL07120	7 mm	120 mm	135 cm	0.035"	6F	1
VIUS08020	8 mm	20 mm	80 cm	0.035"	6F	1
VIUS08030	8 mm	30 mm	80 cm	0.035"	6F	1
VIUS08040	8 mm	40 mm	80 cm	0.035"	6F	1
VIUS08060	8 mm	60 mm	80 cm	0.035"	6F	1
VIUS08080	8 mm	80 mm	80 cm	0.035"	6F	1
VIUS08100	8 mm	100 mm	80 cm	0.035"	6F	1
VIUS08120	8 mm	120 mm	80 cm	0.035"	6F	1
VIUL08020	8 mm	20 mm	135 cm	0.035"	6F	1
VIUL08030	8 mm	30 mm	135 cm	0.035"	6F	1
VIUL08040	8 mm	40 mm	135 cm	0.035"	6F	1
VIUL08060	8 mm	60 mm	135 cm	0.035"	6F	1
VIUL08080	8 mm	80 mm	135 cm	0.035"	6F	1
VIUL08100	8 mm	100 mm	135 cm	0.035"	6F	1
VIUL08120	8 mm	120 mm	135 cm	0.035"	6F	1

BILIARY STENTS

LIFESTAR™ Biliary Stents

PRODUCT CODE	STENT		CATHETER LENGTH	GUIDEWIRE	CATHETER DIAMETER	UNITS/EACH
	DIAMETER	LENGTH				
VIUS09020	9 mm	20 mm	80 cm	0.035"	6F	1
VIUS09030	9 mm	30 mm	80 cm	0.035"	6F	1
VIUS09040	9 mm	40 mm	80 cm	0.035"	6F	1
VIUS09060	9 mm	60 mm	80 cm	0.035"	6F	1
VIUS09080	9 mm	80 mm	80 cm	0.035"	6F	1
VIUS09100	9 mm	100 mm	80 cm	0.035"	6F	1
VIUS09120	9 mm	120 mm	80 cm	0.035"	6F	1
VIUL09020	9 mm	20 mm	135 cm	0.035"	6F	1
VIUL09030	9 mm	30 mm	135 cm	0.035"	6F	1
VIUL09040	9 mm	40 mm	135 cm	0.035"	6F	1
VIUL09060	9 mm	60 mm	135 cm	0.035"	6F	1
VIUL09080	9 mm	80 mm	135 cm	0.035"	6F	1
VIUL09100	9 mm	100 mm	135 cm	0.035"	6F	1
VIUL09120	9 mm	120 mm	135 cm	0.035"	6F	1
VIUS10020	10 mm	20 mm	80 cm	0.035"	6F	1
VIUS10030	10 mm	30 mm	80 cm	0.035"	6F	1
VIUS10040	10 mm	40 mm	80 cm	0.035"	6F	1
VIUS10060	10 mm	60 mm	80 cm	0.035"	6F	1
VIUS10080	10 mm	80 mm	80 cm	0.035"	6F	1
VIUS10100	10 mm	100 mm	80 cm	0.035"	6F	1
VIUS10120	10 mm	120 mm	80 cm	0.035"	6F	1
VIUL10020	10 mm	20 mm	135 cm	0.035"	6F	1
VIUL10030	10 mm	30 mm	135 cm	0.035"	6F	1
VIUL10040	10 mm	40 mm	135 cm	0.035"	6F	1
VIUL10060	10 mm	60 mm	135 cm	0.035"	6F	1
VIUL10080	10 mm	80 mm	135 cm	0.035"	6F	1
VIUL10100	10 mm	100 mm	135 cm	0.035"	6F	1
VIUL10120	10 mm	120 mm	135 cm	0.035"	6F	1
VIUS12020	12 mm	20 mm	80 cm	0.035"	6F	1
VIUS12030	12 mm	30 mm	80 cm	0.035"	6F	1
VIUS12040	12 mm	40 mm	80 cm	0.035"	6F	1
VIUS12060	12 mm	60 mm	80 cm	0.035"	6F	1
VIUS12080	12 mm	80 mm	80 cm	0.035"	6F	1
VIUS12100	12 mm	100 mm	80 cm	0.035"	6F	1
VIUS12120	12 mm	120 mm	80 cm	0.035"	6F	1
VIUL12020	12 mm	20 mm	135 cm	0.035"	6F	1
VIUL12030	12 mm	30 mm	135 cm	0.035"	6F	1
VIUL12040	12 mm	40 mm	135 cm	0.035"	6F	1
VIUL12060	12 mm	60 mm	135 cm	0.035"	6F	1
VIUL12080	12 mm	80 mm	135 cm	0.035"	6F	1
VIUL12100	12 mm	100 mm	135 cm	0.035"	6F	1
VIUL12120	12 mm	120 mm	135 cm	0.035"	6F	1

BILIARY STENTS

LIFESTAR™ Biliary Stents

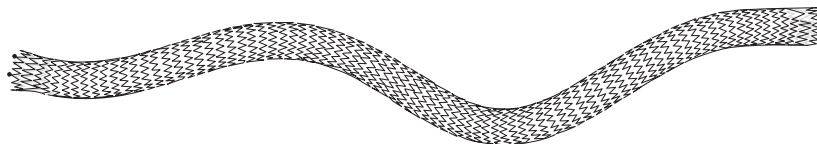
PRODUCT CODE	STENT		CATHETER LENGTH	GUIDEWIRE	CATHETER DIAMETER	UNITS/EACH
	DIAMETER	LENGTH				
VIUS14020	14 mm	20 mm	80 cm	0.035"	6F	1
VIUS14030	14 mm	30 mm	80 cm	0.035"	6F	1
VIUS14040	14 mm	40 mm	80 cm	0.035"	6F	1
VIUS14060	14 mm	60 mm	80 cm	0.035"	6F	1
VIUS14080	14 mm	80 mm	80 cm	0.035"	6F	1
VIUS14100	14 mm	100 mm	80 cm	0.035"	6F	1
VIUS14120	14 mm	120 mm	80 cm	0.035"	6F	1
VIUL14020	14 mm	20 mm	135 cm	0.035"	6F	1
VIUL14030	14 mm	30 mm	135 cm	0.035"	6F	1
VIUL14040	14 mm	40 mm	135 cm	0.035"	6F	1
VIUL14060	14 mm	60 mm	135 cm	0.035"	6F	1
VIUL14080	14 mm	80 mm	135 cm	0.035"	6F	1
VIUL14100	14 mm	100 mm	135 cm	0.035"	6F	1
VIUL14120	14 mm	120 mm	135 cm	0.035"	6F	1

BILIARY STENTS

LIFEStENT® and LIFEStENT® XL Biliary Stent Systems

PRODUCT CODE	STENT		CATHETER LENGTH	GUIDEWIRE	CATHETER DIAMETER	UNITS/EACH
	DIAMETER	LENGTH				
EX050201CS	5 mm	20 mm	80 cm	0.035"	6F	1
EX050301CS	5 mm	30 mm	80 cm	0.035"	6F	1
EX050401CS	5 mm	40 mm	80 cm	0.035"	6F	1
EX050601CS	5 mm	60 mm	80 cm	0.035"	6F	1
EX050801CS	5 mm	80 mm	80 cm	0.035"	6F	1
EX051001CS	5 mm	100 mm	80 cm	0.035"	6F	1
EX051201CS	5 mm	120 mm	80 cm	0.035"	6F	1
EX050203CS	5 mm	20 mm	130 cm	0.035"	6F	1
EX050303CS	5 mm	30 mm	130 cm	0.035"	6F	1
EX050403CS	5 mm	40 mm	130 cm	0.035"	6F	1
EX050603CS	5 mm	60 mm	130 cm	0.035"	6F	1
EX050803CS	5 mm	80 mm	130 cm	0.035"	6F	1
EX051003CS	5 mm	100 mm	130 cm	0.035"	6F	1
EX051203CS	5 mm	120 mm	130 cm	0.035"	6F	1
EX060201CS	6 mm	20 mm	80 cm	0.035"	6F	1
EX060301CS	6 mm	30 mm	80 cm	0.035"	6F	1
EX060401CS	6 mm	40 mm	80 cm	0.035"	6F	1
EX060601CS	6 mm	60 mm	80 cm	0.035"	6F	1
EX060801CS	6 mm	80 mm	80 cm	0.035"	6F	1
EX061001CS	6 mm	100 mm	80 cm	0.035"	6F	1
EX061201CS	6 mm	120 mm	80 cm	0.035"	6F	1
EX061501CS	6 mm	150 mm	80 cm	0.035"	6F	1
EX060203CS	6 mm	20 mm	130 cm	0.035"	6F	1
EX060303CS	6 mm	30 mm	130 cm	0.035"	6F	1
EX060403CS	6 mm	40 mm	130 cm	0.035"	6F	1
EX060603CS	6 mm	60 mm	130 cm	0.035"	6F	1
EX060803CS	6 mm	80 mm	130 cm	0.035"	6F	1
EX061003CS	6 mm	100 mm	130 cm	0.035"	6F	1
EX061203CS	6 mm	120 mm	130 cm	0.035"	6F	1
EX061503CS	6 mm	150 mm	130 cm	0.035"	6F	1

WARNING: The safety and effectiveness of the 8 mm - 10 mm diameter LIFEStENT® Biliary Stent Systems for use in the vascular system has not been established.



BILIARY STENTS

LIFEStENT® and LIFEStENT® XL Biliary Stent Systems

PRODUCT CODE	STENT		CATHETER LENGTH	GUIDEWIRE	CATHETER DIAMETER	UNITS/EACH
	DIAMETER	LENGTH				
EX070201CS	7 mm	20 mm	80 cm	0.035"	6F	1
EX070301CS	7 mm	30 mm	80 cm	0.035"	6F	1
EX070401CS	7 mm	40 mm	80 cm	0.035"	6F	1
EX070601CS	7 mm	60 mm	80 cm	0.035"	6F	1
EX070801CS	7 mm	80 mm	80 cm	0.035"	6F	1
EX071001CS	7 mm	100 mm	80 cm	0.035"	6F	1
EX071201CS	7 mm	120 mm	80 cm	0.035"	6F	1
EX071501CS	7 mm	150 mm	80 cm	0.035"	6F	1
EX070203CS	7 mm	20 mm	130 cm	0.035"	6F	1
EX070303CS	7 mm	30 mm	130 cm	0.035"	6F	1
EX070403CS	7 mm	40 mm	130 cm	0.035"	6F	1
EX070603CS	7 mm	60 mm	130 cm	0.035"	6F	1
EX070803CS	7 mm	80 mm	130 cm	0.035"	6F	1
EX071003CS	7 mm	100 mm	130 cm	0.035"	6F	1
EX071203CS	7 mm	120 mm	130 cm	0.035"	6F	1
EX071503CS	7 mm	150 mm	130 cm	0.035"	6F	1

WARNING: The safety and effectiveness of the 8 mm - 10 mm diameter LIFEStENT® Biliary Stent Systems for use in the vascular system has not been established.

BILIARY STENTS

LIFESTENT® and LIFESTENT® XL Biliary Stent Systems

PRODUCT CODE	STENT		CATHETER LENGTH	GUIDEWIRE	CATHETER DIAMETER	UNITS/EACH
	DIAMETER	LENGTH				
EX080201CD	8 mm	20 mm	80 cm	0.035"	6F	1
EX080301CD	8 mm	30 mm	80 cm	0.035"	6F	1
EX080401CD	8 mm	40 mm	80 cm	0.035"	6F	1
EX080601CD	8 mm	60 mm	80 cm	0.035"	6F	1
EX080801CD	8 mm	80 mm	80 cm	0.035"	6F	1
EX080203CD	8 mm	20 mm	130 cm	0.035"	6F	1
EX080303CD	8 mm	30 mm	130 cm	0.035"	6F	1
EX080403CD	8 mm	40 mm	130 cm	0.035"	6F	1
EX080603CD	8 mm	60 mm	130 cm	0.035"	6F	1
EX080803CD	8 mm	80 mm	130 cm	0.035"	6F	1
EX090201CD	9 mm	20 mm	80 cm	0.035"	6F	1
EX090301CD	9 mm	30 mm	80 cm	0.035"	6F	1
EX090401CD	9 mm	40 mm	80 cm	0.035"	6F	1
EX090601CD	9 mm	60 mm	80 cm	0.035"	6F	1
EX090801CD	9 mm	80 mm	80 cm	0.035"	6F	1
EX090203CD	9 mm	20 mm	130 cm	0.035"	6F	1
EX090303CD	9 mm	30 mm	130 cm	0.035"	6F	1
EX090403CD	9 mm	40 mm	130 cm	0.035"	6F	1
EX090603CD	9 mm	60 mm	130 cm	0.035"	6F	1
EX090803CD	9 mm	80 mm	130 cm	0.035"	6F	1
EX100201CD	10 mm	20 mm	80 cm	0.035"	6F	1
EX100301CD	10 mm	30 mm	80 cm	0.035"	6F	1
EX100401CD	10 mm	40 mm	80 cm	0.035"	6F	1
EX100601CD	10 mm	60 mm	80 cm	0.035"	6F	1
EX100801CD	10 mm	80 mm	80 cm	0.035"	6F	1
EX100203CD	10 mm	20 mm	130 cm	0.035"	6F	1
EX100303CD	10 mm	30 mm	130 cm	0.035"	6F	1
EX100403CD	10 mm	40 mm	130 cm	0.035"	6F	1
EX100603CD	10 mm	60 mm	130 cm	0.035"	6F	1
EX100803CD	10 mm	80 mm	130 cm	0.035"	6F	1

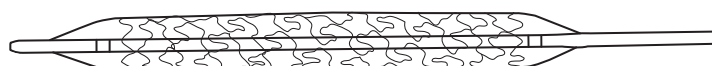
WARNING: The safety and effectiveness of the 8 mm - 10 mm diameter LIFESTENT® Biliary Stent Systems for use in the vascular system has not been established.

BILIARY STENTS

VALEO® Balloon Expandable Biliary Stents

PRODUCT CODE	STENT		CATHETER LENGTH	GUIDEWIRE	CATHETER DIAMETER	UNITS/EACH
	DIAMETER	LENGTH				
EV06181CD	6 mm	18 mm	80 cm	0.035"	6F	1
EV06261CD	6 mm	26 mm	80 cm	0.035"	6F	1
EV06361CD	6 mm	36 mm	80 cm	0.035"	6F	1
EV06182CD	6 mm	18 mm	120 cm	0.035"	6F	1
EV06262CD	6 mm	26 mm	120 cm	0.035"	6F	1
EV06362CD	6 mm	36 mm	120 cm	0.035"	6F	1
EV07181CD	7 mm	18 mm	80 cm	0.035"	6F	1
EV07261CD	7 mm	26 mm	80 cm	0.035"	6F	1
EV07361CD	7 mm	36 mm	80 cm	0.035"	6F	1
EV07561CD	7 mm	56 mm	80 cm	0.035"	6F	1
EV07182CD	7 mm	18 mm	120 cm	0.035"	6F	1
EV07262CD	7 mm	26 mm	120 cm	0.035"	6F	1
EV07362CD	7 mm	36 mm	120 cm	0.035"	6F	1
EV07562CD	7 mm	56 mm	120 cm	0.035"	6F	1
EV08181CD	8 mm	18 mm	80 cm	0.035"	6F	1
EV08261CD	8 mm	26 mm	80 cm	0.035"	6F	1
EV08361CD	8 mm	36 mm	80 cm	0.035"	6F	1
EV08561CD	8 mm	56 mm	80 cm	0.035"	6F	1
EV08182CD	8 mm	18 mm	120 cm	0.035"	6F	1
EV08262CD	8 mm	26 mm	120 cm	0.035"	6F	1
EV08362CD	8 mm	36 mm	120 cm	0.035"	6F	1
EV08562CD	8 mm	56 mm	120 cm	0.035"	7F	1
EV09171CD	9 mm	17 mm	80 cm	0.035"	7F	1
EV09261CD	9 mm	26 mm	80 cm	0.035"	7F	1
EV09361CD	9 mm	36 mm	80 cm	0.035"	7F	1
EV09172CD	9 mm	17 mm	120 cm	0.035"	7F	1
EV09262CD	9 mm	26 mm	120 cm	0.035"	7F	1
EV09362CD	9 mm	36 mm	120 cm	0.035"	7F	1
EV10171CD	10 mm	17 mm	80 cm	0.035"	7F	1
EV10261CD	10 mm	26 mm	80 cm	0.035"	7F	1
EV10361CD	10 mm	36 mm	80 cm	0.035"	7F	1
EV10172CD	10 mm	17 mm	120 cm	0.035"	7F	1
EV10262CD	10 mm	26 mm	120 cm	0.035"	7F	1
EV10362CD	10 mm	36 mm	120 cm	0.035"	7F	1

WARNING: The safety and effectiveness of the VALEO® Balloon Expandable Biliary Stents for use in the vascular system has not been established.



DRAINAGE

ASPIRA® Drainage Catheters

PRODUCT CODE	DESCRIPTION	UNITS/CASE
ASPIRA® Peritoneal Drainage Catheters		
4992206	Peritoneal Drainage Catheter Kit <i>Includes:</i> 1 Insertion Tray with Catheter	1
4992207	Peritoneal Drainage Complete Kit <i>Includes:</i> 1 Insertion Tray with Catheter 5 Drainage Kits 5 Dressing Kits Voucher for 20 Drainage Kits Voucher for 20 Dressing Kits	1
4992208	Peritoneal Drainage Essential Kit <i>Includes:</i> 1 Insertion Tray with Catheter 20 Drainage Kits 20 Dressing Kits	1
4992209	Peritoneal Drainage Starter Kit <i>Includes:</i> 1 Insertion Tray with Catheter 5 Drainage Kits 5 Dressing Kits	1
ASPIRA® Pleural Drainage Catheters		
4992506	Pleural Drainage Catheter Kit <i>Includes:</i> 1 Insertion Tray with Catheter	1
4992507	Pleural Drainage Complete Kit <i>Includes:</i> 1 Insertion Tray with Catheter 5 Drainage Kits 5 Dressing Kits Voucher for 20 Drainage Kits Voucher for 20 Dressing Kits	1
4992508	Pleural Drainage Essential Kit <i>Includes:</i> 1 Insertion Tray with Catheter 20 Drainage Kits 20 Dressing Kits	1
4992509	Peritoneal Drainage Starter Kit <i>Includes:</i> 1 Insertion Tray with Catheter 5 Drainage Kits 5 Dressing Kits	1
ASPIRA® Drainage Disposables		
4991503	Dressing Kit - 5 Kits Included	5/case
4992301	1,000 ml Drainage Bag - 5 Bags Included	5/case
4992303	600 ml Drainage Bottle - 10 Drainage Bottles and 10 Dressing Kits	10/case
4992305	Luer Adapter	5/case
4992306	Repair Kit	5/case
4992307	Universal Tubing Adapter	5/case

DRAINAGE

NAVARRE® Drainage Catheters

PRODUCT CODE	DESCRIPTION	UNITS/CASE
NAVARRE® Percutaneous Biliary Drainage Catheters with Nitinol		
NBD8	8 F Locking Pigtail	5/case
NBD10	10 F Locking Pigtail	5/case
NBD12	12 F Locking Pigtail	5/case
NAVARRE® Universal Drainage Catheters with Nitinol		
NNU6J	6 F J-Curve	5/case
NNU6PT	6 F Pigtail	5/case
NNU6LPT	6 F Locking Pigtail	5/case
NNU6LP15	6 F 15 cm Locking Pigtail	5/case
NNU8J	8 F J-Curve	5/case
NNU8PT	8 F Pigtail	5/case
NNU8LPT	8 F Locking Pigtail	5/case
NNU8LP15	8 F 15 cm Locking Pigtail	5/case
NNU10J	10 F J-Curve	5/case
NNU10PT	10 F Pigtail	5/case
NNU10LPT	10 F Locking Pigtail	5/case
NNU12J	12 F J-Curve	5/case
NNU12PT	12 F Pigtail	5/case
NNU12LPT	12 F Locking Pigtail	5/case
NAVARRE® Opti-Drain Multi-Use Drainage Catheters		
NOD8J	8 F J-Curve	5/case
NOD8PT	8 F Pigtail	5/case
NOD8LPT	8 F Locking Pigtail	5/case
NOD10J	10 F J-Curve	5/case
NOD10PT	10 F Pigtail	5/case
NOD10LPT	10 F Locking Pigtail	5/case
NOD12J	12 F J-Curve	5/case
NOD12PT	12 F Pigtail	5/case
NOD12LPT	12 F Locking Pigtail	5/case
NAVARRE® Drainage Accessories		
NDB600	Universal Gravity Drainage Bag (600 mL)	10/case
NAVARRE® VacuBag 1000 mL Drainage Bag		
NDB1000	Drainage Bag (1000 mL)	5/case

ENTERAL FEEDING

Low-Profile Replacement Devices

PRODUCT CODE	FR	LENGTH	BALLOON/ NON-BALLOON	UNITS/CASE
BARD® Button Continuous Feeding Tube (90° Adaptor) (Non-Sterile)				
000256	18 F	N/A	Non-Balloon	12/case
000258	24 F	N/A	Non-Balloon	12/case
000268	28 F	N/A	Non-Balloon	12/case
BARD® Button Device Feeding Tube Bolus with Straight Adaptor (Non-Sterile)				
000257	18 F	10"	Non-Balloon	12/case
000259	24 F	10"	Non-Balloon	12/case
000269	28 F	10"	Non-Balloon	12/case
BARD® Button Decompression Tube				
		STOMA LENGTH		
000361	18 F	1.2 cm	Non-Balloon	6/case
000350	18 F	1.7 cm	Non-Balloon	6/case
000351	18 F	2.4 cm	Non-Balloon	6/case
000352	18 F	3.4 cm	Non-Balloon	6/case
000362	24 F	1.2 cm	Non-Balloon	6/case
000353	24 F	1.7 cm	Non-Balloon	6/case
000354	24 F	2.4 cm	Non-Balloon	6/case
000355	24 F	3.4 cm	Non-Balloon	6/case
000356	24 F	4.4 cm	Non-Balloon	6/case
000357	28 F	1.5 cm	Non-Balloon	6/case
000358	28 F	2.7 cm	Non-Balloon	6/case
000359	28 F	4.3 cm	Non-Balloon	6/case
BARD® Button Gastrostomy Tube and Accessories				
		STOMA LENGTH		
000292	18 F	1.2 cm	Non-Balloon	1
000282	18 F	1.7 cm	Non-Balloon	1
000283	18 F	2.4 cm	Non-Balloon	1
000284	18 F	3.4 cm	Non-Balloon	1
000293	24 F	1.2 cm	Non-Balloon	1
000285	24 F	1.7 cm	Non-Balloon	1
000286	24 F	2.4 cm	Non-Balloon	1
000287	24 F	3.4 cm	Non-Balloon	1
000296	24 F	4.4 cm	Non-Balloon	1
000261	28 F	1.5 cm	Non-Balloon	1
000262	28 F	2.7 cm	Non-Balloon	1
000263	28 F	4.3 cm	Non-Balloon	1

ENTERAL FEEDING

Percutaneous Endoscopic Gastrostomy (PEG) Feeding Devices

PRODUCT CODE	FR	PUSH/PULL†	UNITS/CASE
PONSKY® PEG with Standard Kit*, Non-Safety**			
000330	20 F	Pull	2/case
000331	20 F	Push	2/case
PONSKY® PEG with Deluxe Kit*, Safety**			
003029	20 F	Pull	2/case
003030	20 F	Push	2/case
003027	28 F	Pull	2/case
003028	28 F	Push	2/case
PONSKY® PEG with Deluxe Kit*, Non-Safety**			
000792	20 F	Pull	2/case
000793	20 F	Push	2/case
PONSKY-GAUDERER® PEG with Standard Kit*, Non-Safety**			
000328	20 F	Push	2/case
000329	20 F	Pull	2/case

*Deluxe Kits include snare and scissors, standards kits do not.

**Safely Kits include safety engineered sharp devices.

† Push = Guidewire

Percutaneous Endoscopic Gastrostomy (PEG) Accessories

PRODUCT CODE	FR	CATHETER LENGTH	PUSH/PULL	UNITS/CASE
Jejunal Feeding/Gastric Decompression Tube				
000319	9 F	27 in	Pull	2/case
000732	9 F	35 in	Push	2/case
000733	12 F	27 in	Pull	2/case
000734	12 F	35 in	Push	2/case
PONSKY® Dual Port Feeding Adapter				
000317	16 F	N/A	N/A	5/case
000333*	20 F	N/A	N/A	5/case
000318	28 F	N/A	N/A	5/case
PEG Cleaning Brush				
000396	N/A	N/A	N/A	20/case

*Also compatible with the PONSKEY-GAUDERER® Dual Port Feeding Adapter and PONSKEY® Non-Balloon Replacement Gastrostomy Tubes.

ENTERAL FEEDING

Standard Profile Replacement Devices

PRODUCT CODE	FR	BALLOON SIZE	BALLOON/ NON-BALLOON	UNITS/CASE
BARD® Tri-Funnel Replacement Gastrostomy Tube				
000712	12 F	5 cc	Balloon	2/case
000714	14 F	5 cc	Balloon	2/case
000716	16 F	20 cc	Balloon	2/case
000718	18 F	20 cc	Balloon	2/case
000720	20 F	20 cc	Balloon	2/case
000722	22 F	20 cc	Balloon	2/case
000724	24 F	20 cc	Balloon	2/case
PONSKY® Replacement Gastrostomy Tube				
000700	20 F	N/A	Non-Balloon	2/case

Stoma Measuring Device

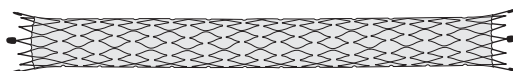
PRODUCT CODE	FRENCH	UNITS/CASE
Use with BARD® Button Device		
000842	18/24 F	5/case
000843	28 F	5/case

TRACHEOBRONCHIAL STENT GRAFTS

FLUENCY® Plus Tracheobronchial Stent Grafts

PRODUCT CODE	STENT GRAFT		CATHETER LENGTH	GUIDEWIRE	CATHETER DIAMETER	UNITS/EACH
	DIAMETER	LENGTH				
FTM06040	6 mm	40 mm	80 cm	0.035"	8F	1
FTM06060	6 mm	60 mm	80 cm	0.035"	8F	1
FTM06080	6 mm	80 mm	80 cm	0.035"	8F	1
FTL06040	6 mm	40 mm	117 cm	0.035"	8F	1
FTL06060	6 mm	60 mm	117 cm	0.035"	8F	1
FTL06080	6 mm	80 mm	117 cm	0.035"	8F	1
FTM07040	7 mm	40 mm	80 cm	0.035"	8F	1
FTM07060	7 mm	60 mm	80 cm	0.035"	8F	1
FTM07080	7 mm	80 mm	80 cm	0.035"	9F	1
FTL07040	7 mm	40 mm	117 cm	0.035"	8F	1
FTL07060	7 mm	60 mm	117 cm	0.035"	8F	1
FTL07080	7 mm	80 mm	117 cm	0.035"	9F	1
FTM08040	8 mm	40 mm	80 cm	0.035"	9F	1
FTM08060	8 mm	60 mm	80 cm	0.035"	9F	1
FTM08080	8 mm	80 mm	80 cm	0.035"	9F	1
FTL08040	8 mm	40 mm	117 cm	0.035"	9F	1
FTL08060	8 mm	60 mm	117 cm	0.035"	9F	1
FTL08080	8 mm	80 mm	117 cm	0.035"	9F	1
FTM09040	9 mm	40 mm	80 cm	0.035"	9F	1
FTM09060	9 mm	60 mm	80 cm	0.035"	9F	1
FTM09080	9 mm	80 mm	80 cm	0.035"	9F	1
FTL09040	9 mm	40 mm	117 cm	0.035"	9F	1
FTL09060	9 mm	60 mm	117 cm	0.035"	9F	1
FTL09080	9 mm	80 mm	117 cm	0.035"	9F	1
FTM10040	10 mm	40 mm	80 cm	0.035"	9F	1
FTM10060	10 mm	60 mm	80 cm	0.035"	9F	1
FTM10080	10 mm	80 mm	80 cm	0.035"	9F	1
FTL10040	10 mm	40 mm	117 cm	0.035"	9F	1
FTL10060	10 mm	60 mm	117 cm	0.035"	9F	1
FTL10080	10 mm	80 mm	117 cm	0.035"	9F	1

WARNING: The safety and effectiveness of the FLUENCY® Plus Tracheobronchial Stent Grafts for use in the vascular system has not been established and can result in serious harm and/or death.



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