

ORDIN DE PLATA NR.: 89		TIP.DOC. 1
		DATA EMITERII:28 iunie 2022
=====		
PLATITI: 38000-00	LEI: Treizeci si Opt Mii lei 00 bani	
=====		
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 pentru Achizitii Publice Centralizate in Sanatate	CONTUL DE PLATI/CODUL IBAN MD23TRPCCC518430B01859AA CODUL FISCAL :1016601000212 /	
=====		
PRESTATORUL BENEFICIAR Ministerul Finantelor - Trezoreria de Stat	CODUL BANCII: :TREZMD2X	
=====		
DESTINATIA PLATII:/P102/38000,00 Pentru : garantia pentru oferta la procedura de achizitie publica nr. ocds-b3wdp1-MD-1654: 005774505 din 29.06.2022	TIPUL TRANSFERULUI : NORMAL/URGENT :N L.S.	
=====		
	CODUL TRANZACTIEI:101:	
DATA PRIMIRII:28/06/2022	SEMNATURILE	
DATA EXECUTARII:	EMITENTULUI	
=====		
CONDUCATOR:Web Kojevnikov Dmitrii		
MIIGfAYJKoZIhvcNAQcCoIIGbTCCBmkCAQExCzAJBgUrDgMCGGUAMAsGCSqGSIB3: DQEHAaCCBIUwggSBMIIDAAADAgECAhNHAACEjCA/4xcrKCbfAAAAAISMMA0GCSqG: SIB3DQEBcwUAMCIxIDAeBgNVBAMTF0NFULQxLUNBLU1vbGRpbmRjb25iYW5rMB4X: DTIwMDMxNjA4NDUwM1oXDTIzMDMxNjA4NTUwM1owgbGxCzAJBgNVBAYTAk1EMRow: YDVQIExFSZXB1Ym9yY2EgTW9sZG92YTERMA8GA1UEBxMIQ2hpc2luYXUxZzAV		
(semnatura electronica)		
CONTABIL-SEF:Web Kojevnikov Dmitrii		
MIIGfAYJKoZIhvcNAQcCoIIGbTCCBmkCAQExCzAJBgUrDgMCGGUAMAsGCSqGSIB3: DQEHAaCCBIUwggSBMIIDAAADAgECAhNHAACEjCA/4xcrKCbfAAAAAISMMA0GCSqG: SIB3DQEBcwUAMCIxIDAeBgNVBAMTF0NFULQxLUNBLU1vbGRpbmRjb25iYW5rMB4X: DTIwMDMxNjA4NDUwM1oXDTIzMDMxNjA4NTUwM1owgbGxCzAJBgNVBAYTAk1EMRow: YDVQIExFSZXB1Ym9yY2EgTW9sZG92YTERMA8GA1UEBxMIQ2hpc2luYXUxZzAV		
(semnatura electronica)		
L.S.	(semnatura electronica)	
CONDUCATOR:	(semnatura manuala)	
CONTABIL-SEF:	(semnatura manuala)	
SEMNATURA PRESTATORUL	L.S.	
=====		
MOTIVUL REFUZULUI	L.S.	
=====		

REPUBLICA



MOLDOVA

CERTIFICAT DE ÎNREGISTRARE

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

Numărul de identificare de stat - codul fiscal
1007600044280

Data înregistrării

30.07.2007

Data eliberării

30.07.2007

Bordeianu Tatiana, registrator de stat

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

semnătura

MD 0067985





I.P. "AGENȚIA SERVICII PUBLICE"

Departamentul înregistrare și licențiere a unităților de drept

EXTRAS
din Registrul de stat al persoanelor juridice

nr. 8871 din 05.05.2021

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

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

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

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

Data înregistrării de stat: **30.07.2007.**

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

Modul de constituire: **nou creată.**

Obiectul principal de activitate:

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

Capitalul social: **5400 lei.**

Administrator: KOJEVNIKOV DMITRII, IDNP 0972305012362,

Asociați:

1. KOJEVNIKOV DMITRII , IDNP 0972305012362

cota 5400.00 lei, ce constituie 100 %.

Prezentul extras este eliberat în temeiul art. 34 al Legii nr. 220-XVI din 19 octombrie 2007 privind înregistrarea de stat a persoanelor juridice și a întreprinzătorilor individuali și confirmă datele din Registrul de stat la data de: 05.05.2021.

Specialist coordonator
tel. 022-207-840

Lazari Aliona



OXIVIT MED

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

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

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

Lista fondatorilor companiei SRL „Oxivit-Med”

Nr.	Numele, Prenumele	Codul Personal
1	Kojevnikov Dmitrii	0972305012362

CERTIFICAT
privind lipsa sau existența restanțelor față de bugetul public național

Nr.
№ A2211387

din
от 15.06.2022

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 30.06.2022

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



Semnătura/Подпись

Mariana VOLOH
Numele și prenumele/Фамилия и имя

Este extras din Sistemul Informațional al SFS SIA „Contul curent al contribuabilului”// 15.06.2022 ora 17:21:58
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)

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.

PROVEN PLUS.

Introducing the Avalus™
Aortic Valve by Medtronic.

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.



Avalus™
Bioprosthesis

Medtronic
Further. Together

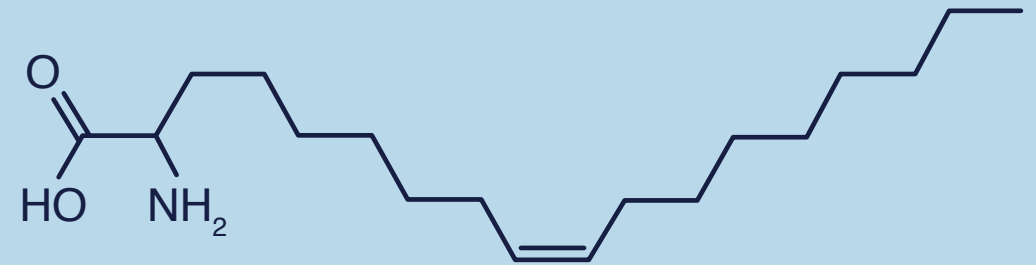
YOU WANT THE VERY BEST FOR YOUR PATIENTS. SO DO WE.

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

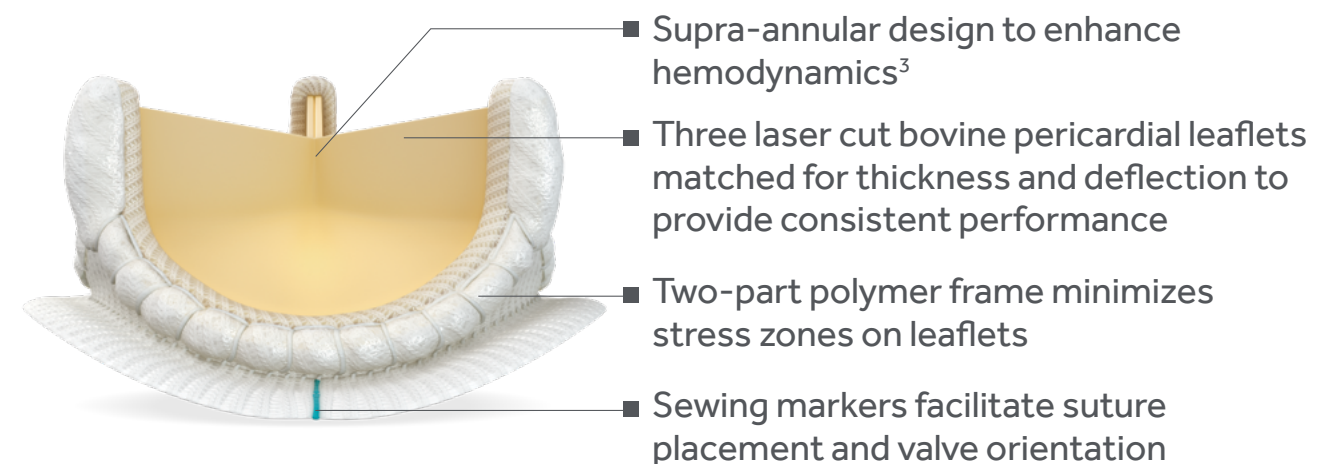


Interior-mounted leaflets minimize damaging contact with the frame — a design platform for long-term durability.

AOA™ tissue treatment* to mitigate calcification — over 20 years of clinical use on the Medtronic surgical tissue valve portfolio.^{1,2}



PROVEN

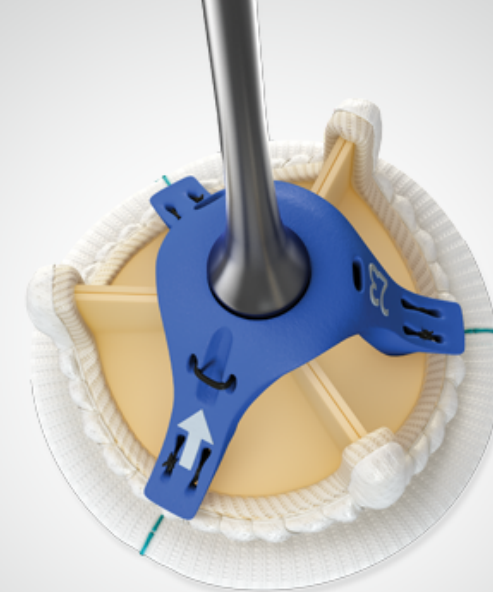
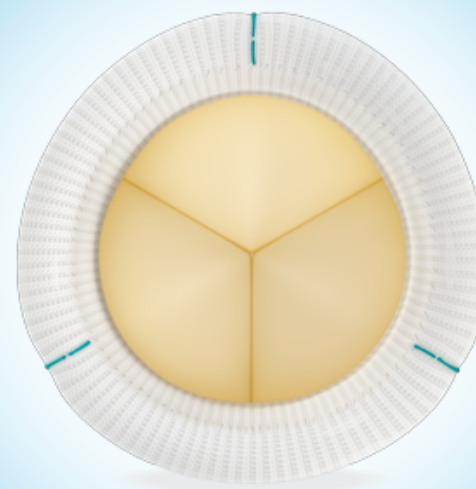


*No clinical data is available which evaluates the long-term impact of AOA treatment in patients.

PLUS



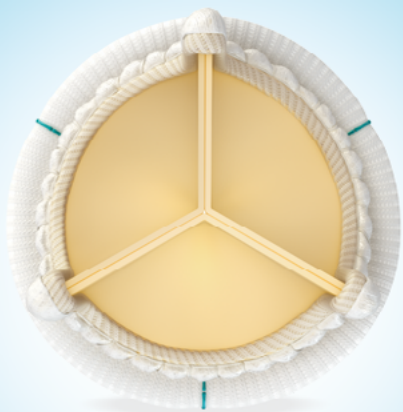
Polyetheretherketone (PEEK) polymer stent provides strength and flexibility, and offers resistance to permanent deformation.



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 ViV 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

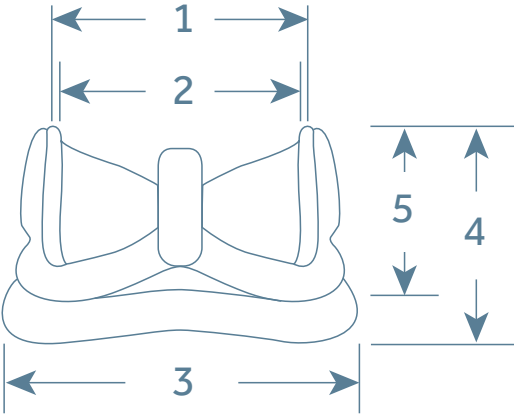
Avalus Valve Order Number	Valve Size	Stent Diameter (TAD)	Internal Orifice Diameter*		External Sewing Ring Diameter	Valve Profile Height	Aortic Protrusion
		(1)	(2)	(2a)	(3)	(4)	(5)
40019	19 mm	19 mm	17.5 mm	18 mm	27.0 mm	13.0 mm	11.0 mm
40021	21 mm	21 mm	19.5 mm	20 mm	29.0 mm	14.0 mm	12.0 mm
40023	23 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):302-7.
3. Ruzicka DJ, Hettich I, Hutter A, et al. The complete supraannular concept. *Circulation* 2009;120[suppl 1]:S139-S145.



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 www.medtronic.com/manuals.
Note: Manuals can be viewed using a current version of any major internet browser.

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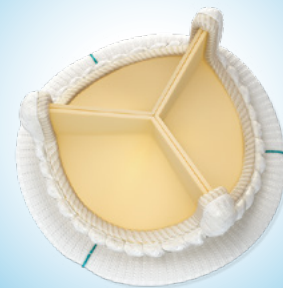
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USA
Tel: (763) 514-4000
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Tel: (877) 526-7890
Tel: (763) 526-7890
Fax: (763) 526-7888
rs.cstechsupport@medtronic.com

Europe
Medtronic International Trading Sàrl
Route du Molliau 31
Case Postale
CH-1131 Tolochenaz
Switzerland
Tel: (41 21) 802-7000
Canada
Medtronic of Canada Ltd.
99 Hereford Street
Brampton, Ontario L6Y 0R3
Canada
Tel: (905) 460-3800
Toll-free: (800) 268-5346

Asia
Medtronic International Ltd.
49 Changi South Avenue 2
Nasaco Tech Centre
Singapore 486056
Singapore
Tel: (65) 6436-5000
Latin America
Doral Corporate Centre II
3750 NW 87th Avenue, Suite 700
Miami, FL 33178
USA
Tel: (305) 500-9328



AVALUS™ BIOPROSTHESIS

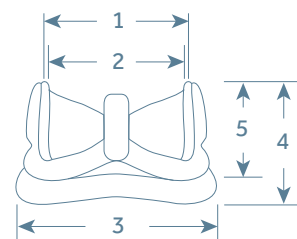


Indications for Use

The AVALUS bioprosthesis is indicated for the replacement of diseased, damaged, or malfunctioning native or prosthetic aortic valves.

Ordering Information

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
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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

Product Specifications

Sterilization	Liquid chemical sterilization
Shelf Life	1.5 years
Packaging (Sterile Barriers)	Valve jar: glass Valve jar lid: polypropylene Valve lid liner: silicone
Tissue Fixation	Uniaxial fixation
Storage Temperature	5° C to 25° C (41° F to 77° F)
Storage Solution	Buffered 0.2% glutaraldehyde solution
Rinsing Procedure	2 rinse basins each containing 500 mL of sterile, normal saline solution Single 30-second rinse. Store in a second basin until use.
MRI Compatibility	Non metallic — MR safe MR — poses no known hazards in all MR environments.

Materials List

Valve Holder	Blue acetal homopolymer
Valve to Valve Holder Sutures	Black nylon
Valve Leaflets	Bovine pericardium cross-linked in 0.5% glutaraldehyde
Wireform	Polyetheretherketone (PEEK)
Base Frame	Polyetheretherketone (PEEK) impregnated with barium sulfate
Fabric Covering Wireform and Base Frame	Polyester
Valve Sewing Cuff	Polyester, valve component sutures, polyester, force fiber suture, UHMWPE
Retainer Jar & Retainer Cap	Homopolymer
Serial Number Tag	Polypropylene

Accessories

Avalus Sizer	Polysulfone (handle and head), nitinol (wire)
Tray	Polyphenylsulfone
Handle	Stainless steel

Tissue Treatment

Anti-calcification Treatment	Alpha-amino oleic acid (AOA™) treatment
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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.

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Medtronic

710 Medtronic Parkway
Minneapolis, MN 55432-5604
USA
Tel: (763) 514-4000
Fax: (763) 514-4879
Toll-free: (800) 328-2518

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

Europe
Medtronic International Trading Sàrl
Route du Molliat 31
Case Postale
CH-1131 Tolochenaz
Switzerland
Tel: (41 21) 802-7000

Canada
Medtronic of Canada Ltd.
99 Hereford Street
Brampton, Ontario L6Y 0R3
Canada
Tel: (905) 460-3800
Toll-free: (800) 268-5346

Asia
Medtronic International Ltd.
49 Changi South Avenue 2
Nasaco Tech Centre
Singapore 486056
Singapore
Tel: (65) 6436-5000

Latin America
Doral Corporate Centre II
3750 NW 87th Avenue, Suite 700
Miami, FL 33178
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Tel: (305) 500-9328

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GORE® PRECLUDE® Pericardial Membrane

More than 40 years of experience
with ePTFE in medical implants



Features and benefits

Bioinert

Biocompatible

Minimal tissue attachment

Clear plane of dissection

Long-term flexibility

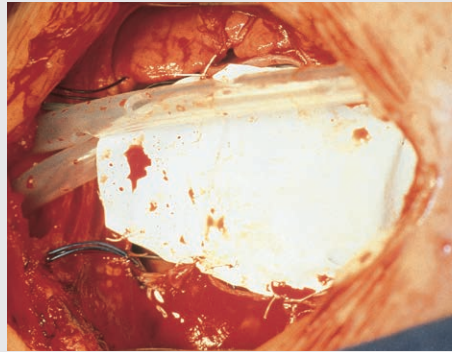


Photo courtesy of Professor Roland Hetzer, M.D.

GORE® PRECLUDE® Pericardial Membrane as seen at time of implantation.

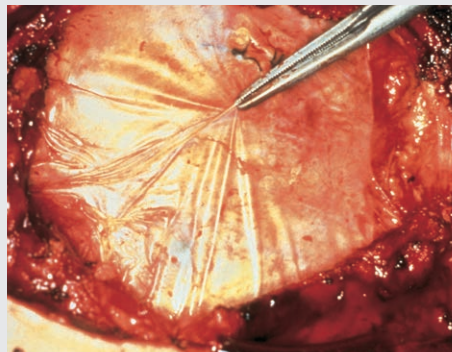


Photo courtesy of Yumi Imai, M.D.

GORE® PRECLUDE® Pericardial Membrane as seen at seven years implantation. After implantation the material becomes wet with proteinaceous, aqueous fluids and turns translucent.^{1,2,3} Minimal adhesion formation was noted and the material was non-adherent to the epicardial surface of the heart.

Ideal for use with left ventricular assist device (LVAD) or total artificial heart (TAH)

Sizing / Implant techniques

Reoperative experience and current implantation techniques support placement of the GORE® PRECLUDE® Pericardial Membrane between the epicardial surface of the heart and the pericardium.^{1,2} **It is essential that the membrane be tailored to the size of the repair site.** If the GORE® PRECLUDE® Pericardial Membrane is too small, impairment of cardiac function may occur and sutures may pull out.

If the GORE® PRECLUDE® Pericardial Membrane is too large when implanted, excessive wrinkling may occur, possibly resulting in undesired tissue attachment caused by accumulation of blood next to the heart. Tucking the membrane at least 2 cm under the edge of the pericardium can prevent attachment of the pericardial incision to the epicardium. **Wrinkling can be minimized by partially closing the sternal retractors prior to completion of the implantation of the GORE® PRECLUDE® Pericardial Membrane.**²

Use with LVAD or TAH

Reconstruction of the pericardium with GORE® PRECLUDE® Pericardial Membrane concurrent with implantation of mechanical circulatory assist devices should be completed utilizing the recommended techniques of handling, sizing and suturing in the *Instructions for Use*. If multiple pieces of the GORE® PRECLUDE® Pericardial Membrane are required for the repair, they should be sutured together with non-absorbable monofilament suture. Removal of mechanical circulatory assist devices has been facilitated when the GORE® PRECLUDE® Pericardial Membrane is employed in this manner.

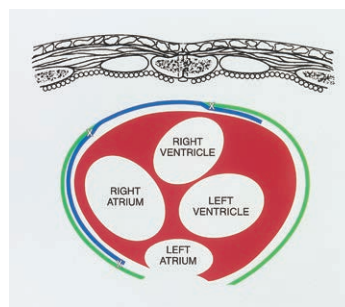
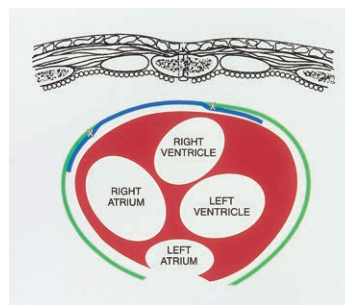
Internal mammary artery (IMA) wrapping

When placing the GORE® PRECLUDE® Pericardial Membrane around the IMA pedicle, it is essential that the membrane be tailored to the size of the pedicle. If the width of the membrane is inadequate, the resulting sleeve may compress the pedicle, causing graft occlusion. In addition, sutures or clips may pull out, resulting in incomplete protection. The membrane

should be of sufficient length to ensure adequate coverage of the portion of the IMA pedicle at risk during re sternotomy and dissection. Anchoring of the membrane to the pedicle or epicardium should be considered.

Suturing technique

Placing sutures adjacent to the anterior cardiac surface should be minimized, to reduce epicardial fibrosis.⁴ **Sutures should be placed as lateral as possible and the use of continuous suture lines should be avoided.** Non-absorbable, monofilament sutures, such as the GORE-TEX® Suture, have been used to anchor GORE® PRECLUDE® Pericardial Membrane to the pericardium with interrupted stitches. Similar sutures or clips have been used to form the membrane into a sleeve around the IMA pedicle.



Use of drains

When closure of the pericardial sac is performed, it is common practice to place two drains (in the intrapericardial and extrapericardial cavity) to remove any accumulating fluids and to be able to trace the origin of blood if bleeding occurs.^{5,6}

Sizes available

Catalogue number	Width × length
1PCM001	7 cm x 10 cm
1PCM100	6 cm x 12 cm
1PCM101	8 cm x 16 cm
1PCM102	12 cm x 12 cm
1PCM103	15 cm x 20 cm

All configurations have a membrane thickness of 0.1 mm.

Sizing, availability and pricing varies by country. Please check with your Gore representative for availability.



W. L. GORE & ASSOCIATES, INC.
Flagstaff, AZ 86004

+65 67332882 (Asia Pacific)
00800 6334 4673 (Europe)
800 437 8181 (United States)
928 779 2771 (United States)

goremedical.com

 Consult Instructions for Use

INDICATIONS FOR USE: Reconstruction or repair of the pericardium.

CONTRAINDICATIONS: Not for reconstruction of **CARDIOVASCULAR DEFECTS**

such as cardiac, great vessel and peripheral vascular, DURA MATER, HERNIAS. Use of this product in applications other than those indicated has the potential for serious complications, such as suture pullout or failure of the repair (aneurysm formation). Refer to *Instructions for Use* at goremedical.com for a complete description of all warnings, precautions and adverse events.  only

Products listed may not be available in all markets.

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AE0710-EN7 OCTOBER 2019

References

1. Minale C, Nikol S, Hollweg G, Mittermayer C, Messmer BJ. Clinical experience with expanded polytetrafluoroethylene Gore-Tex surgical membrane for pericardial closure: a study of 110 cases. *Journal of Cardiac Surgery* 1988;3(3):193-201.
2. Revuelta JM, Garcia-Rinaldi R, Val F, Crego R, Duran CM. Expanded polytetrafluoroethylene surgical membrane for pericardial closure. *Journal of Thoracic & Cardiovascular Surgery* 1985;89(3):451-455.
3. Harada Y, Imai Y, Kurosawa H, Hoshino S, Nakano K. Long-term results of the clinical use of an expanded polytetrafluoroethylene surgical membrane as a pericardial substitute. *Journal of Thoracic & Cardiovascular Surgery* 1988; 96(5):811-815.
4. Heydorn WH, Daniel JS, Wade CE. A new look at pericardial substitutes. *Journal of Thoracic & Cardiovascular Surgery* 1987;94(2):291-296
5. Amato JJ, Cotroneo JV, Galdieri RJ, Alboliras E, Antillon J, Vogel RL. Experience with the polytetrafluoroethylene surgical membrane for pericardial closure in operations for congenital cardiac defects. *Journal of Thoracic & Cardiovascular Surgery* 1989;97(6):929-934.
6. Cunningham JN Jr, Spencer FC, Zeff R, Williams CD, Cukingnan R, Mullin M. Influence of primary closure of the pericardium after open-heart surgery on the frequency of tamponade, postcardiotomy syndrome, and pulmonary complications. *Journal of Thoracic & Cardiovascular Surgery* 1975;70(1):119-125.

Suggested reading

- Bailey LL, Ze-jian L, Schultz E, Roost H, Yahiku P. A cause of right ventricular dysfunction after cardiac operations. *Journal of Thoracic & Cardiovascular Surgery* 1984;87(4):539-542.
- Bezon E, Maguid YA, Gueret G, Choplain JN, Aziz AA, Barra JA. Wrapping of the left internal thoracic artery with an expanded polytetrafluoroethylene membrane. *Annals of Thoracic Surgery* 2006;8(1):383-385
- Dobell AR, Jain AK. Catastrophic hemorrhage during redo sternotomy. *Annals of Thoracic Surgery* 1984;37(4):273-278.
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- Loebe M, Alexi-Meskishvili V, Weng Y, Hausdorf G, Hetzer R. Use of polytetrafluoroethylene surgical membrane as a pericardial substitute. *Texas Heart Institute Journal* 1993;20(3):213-217.

CARDIAC RHYTHM MANAGEMENT AND CARDIOVASCULAR DIAGNOSTICS & SERVICES

PRODUCT CATALOGUE 2021



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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



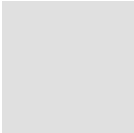
LEFT-HEART LEADS AND DELIVERY SYSTEMS



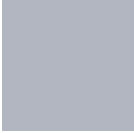
ACCESSORIES



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



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)

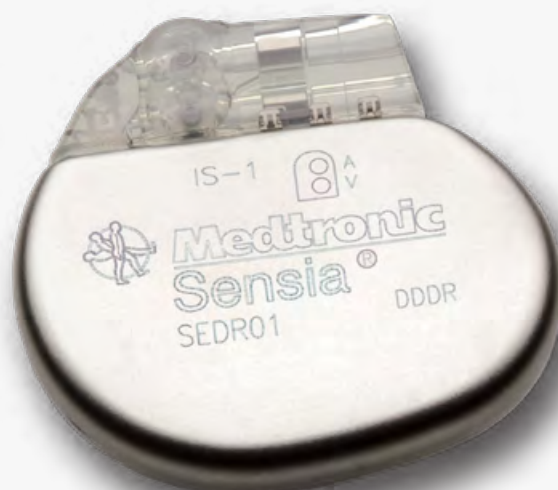
ADDITIONAL PACING FEATURES

- 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

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)



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



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)



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™ 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.
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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)/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
- 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)



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



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



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.
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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.
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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

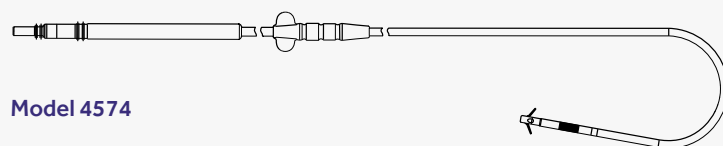
- Inserted
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- Packaged
 - 1 gray straight
 - 2 purple straight

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*

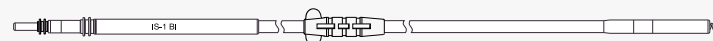
* Not available for leads 65 or 85 cm

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

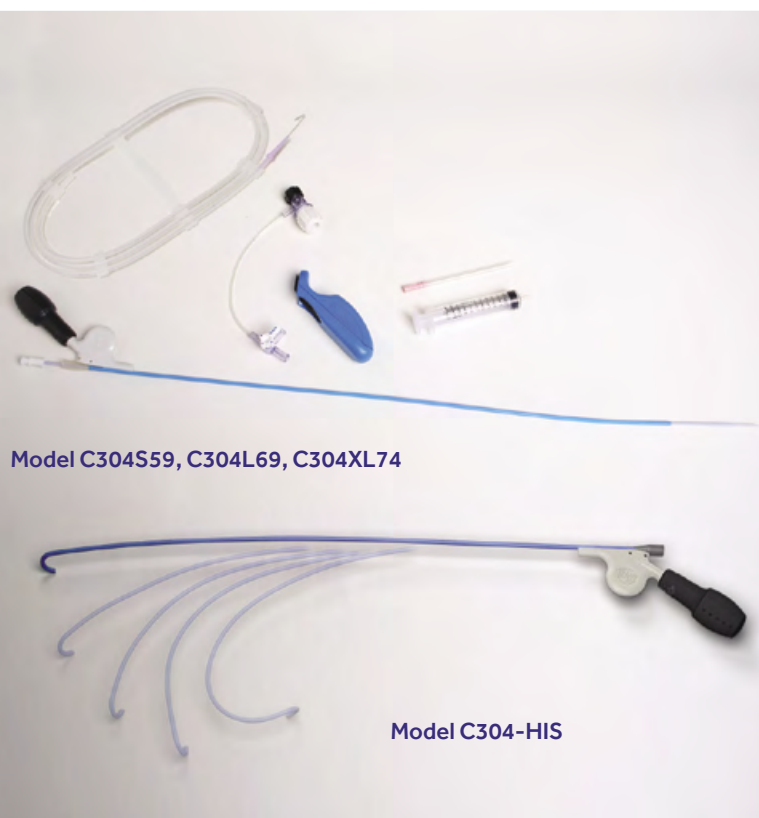
NEEDLE (not included into C304-HIS package)

- 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)

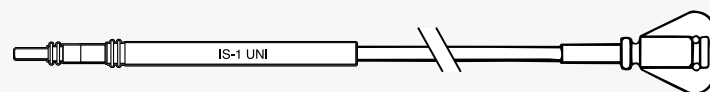
ELECTRODES

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

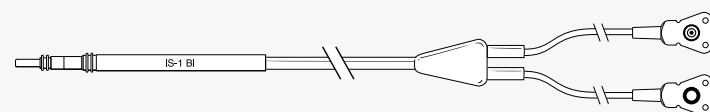
MATERIAL

- 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

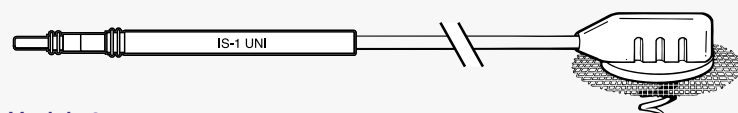
MATERIAL

- 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

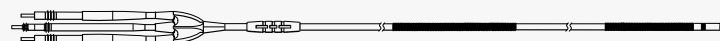
MATERIAL

- 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)

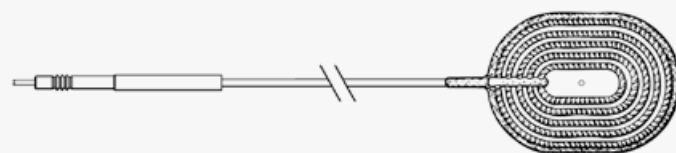
ELECTRODES

- 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)

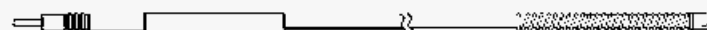
ELECTRODES

- 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

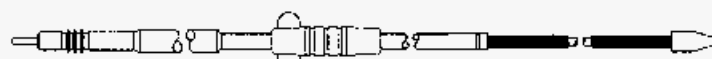
CONTENTS OF STERILE PACKAGE

- 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

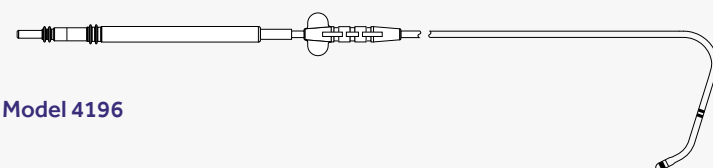
- Packaged
 - 2 gray straight
 - 2 purple straight

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

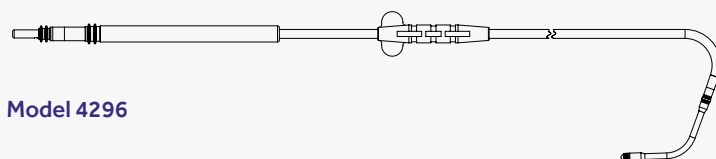
- Packaged
 - 2 gray straight
 - 2 purple straight

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

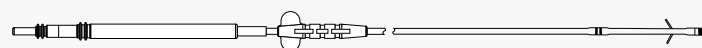
- Packaged
 - 2 gray straight
 - 2 purple straight

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

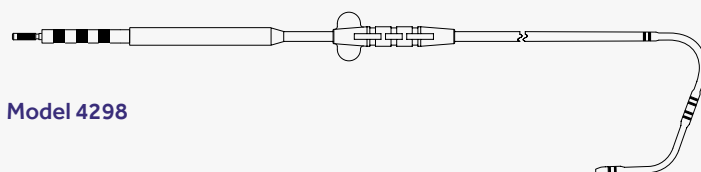
- Packaged
 - 2 gray straight
 - 2 purple straight

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

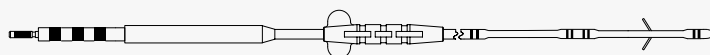
- Packaged
 - 2 gray straight
 - 2 purple straight

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

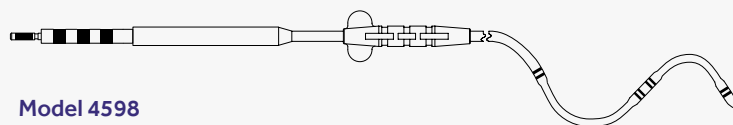
- Packaged
 - 2 gray straight
 - 2 purple straight

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)



Model 4598

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

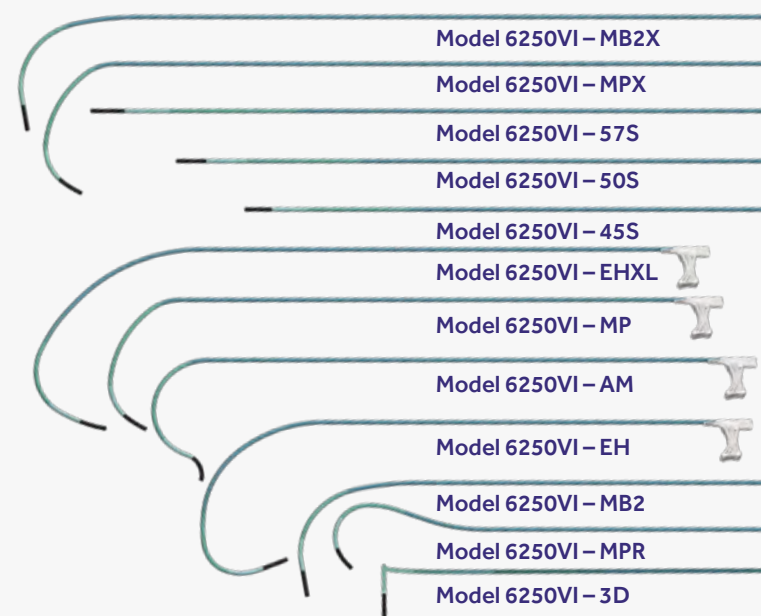
- Material: Polypropylene with SBC overmold

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

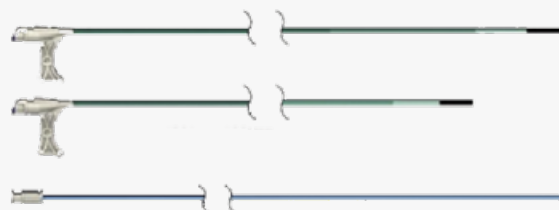
MEDTRONIC UNIVERSAL II 6230UNI SLITTER

- 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

GWR419478



GWR419488



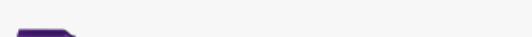
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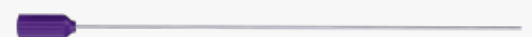
GWR419588



GWR419678



GWR419688



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

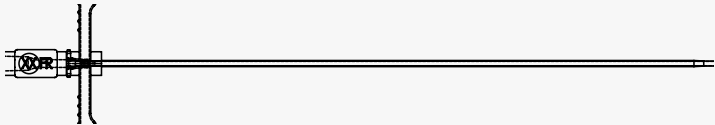
GENERAL

- 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



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				
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Lengths (cm)	13				
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Model	SS9	SS95	SS10	SS105	SS11
Knob Color	9	9.5	10	10.5	11

# in kit	5				
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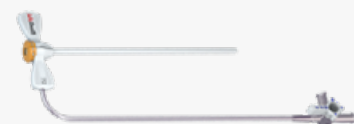
Lengths (cm)	13				
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Model	SS12	SS125	SSL6	SSL7	SSL8
Knob Color	12	12.5	6	7	8

# in kit	5				
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Lengths (cm)	13	13	23	23	23
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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



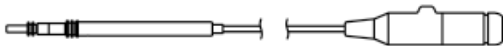
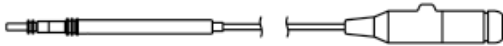
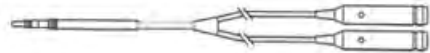
Model 10729-00x
Model 10730-00x

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

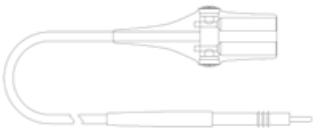
Model	Description	
BLV-BIS-10	LV-1 Bipolar Lead to IS-1 Bipolar IPG - 10cm	
BLV-BIS-40	LV-1 Bipolar Lead to IS-1 Bipolar IPG - 40cm	
B-IS-15SS2	5mm Bifurcated Bipolar Lead or two 5mm Unipolar Leads to IS-1 Bipolar IPG	
BIS-IS-15	Two IS-1 UNI Leads to IS-1 BI IPG	
BIS-BIS-17	3.2mm Low Profile Bipolar 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

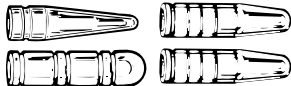
Model	Description	
6726	DF-1 Y Adaptor/Extender – 25cm or 37cm	
6707	6,5 mm to DF-1 - Adaptor Kit – 15cm	
6920	Upsizing Sleeve for HV Leads 3,2mm LP or DF-1 to 6,5mm 3 Units per Kit	
5019	DF-4 Adapter - Removes SVC coil from shock path and allows use of additional defibrillation DF-1 lead/ patch	

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

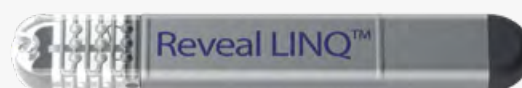
- Reveal LINQ™ ICM (preloaded in the included insertion tool)
- Incision tool
- Insertion tools
- Reveal PA96000

* 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 server.

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

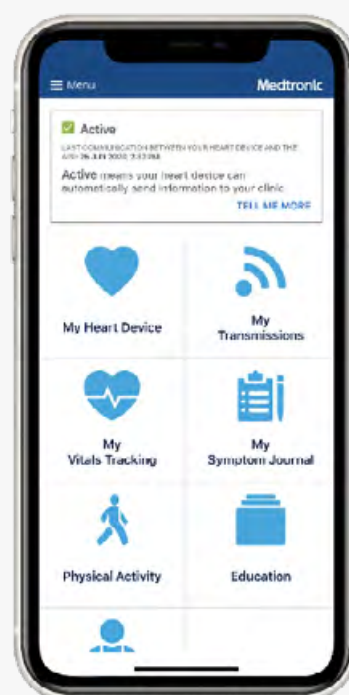
- Cellular or Wi-Fi connectivity through patient's smart device
- Bluetooth® Low Energy is designed to minimize battery drain of the implantable device
- Enhanced security with data encryption from end to end
- Automatic notifications help patients stay connected
- Upgradable throughout lifetime of the 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
Patient connector

24967



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

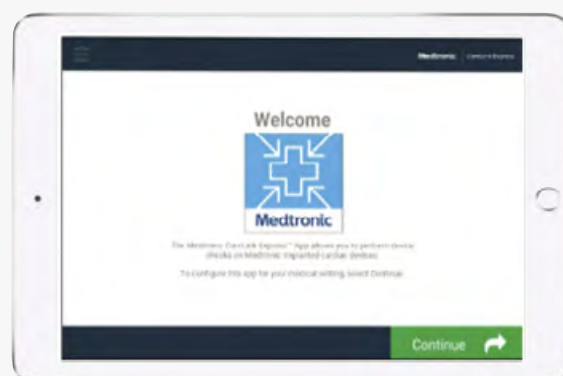
- Patient connector: AC powered with 3 hours of battery back-up

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	24967
Patient connector	
Model	31302
Application for iOS	
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.

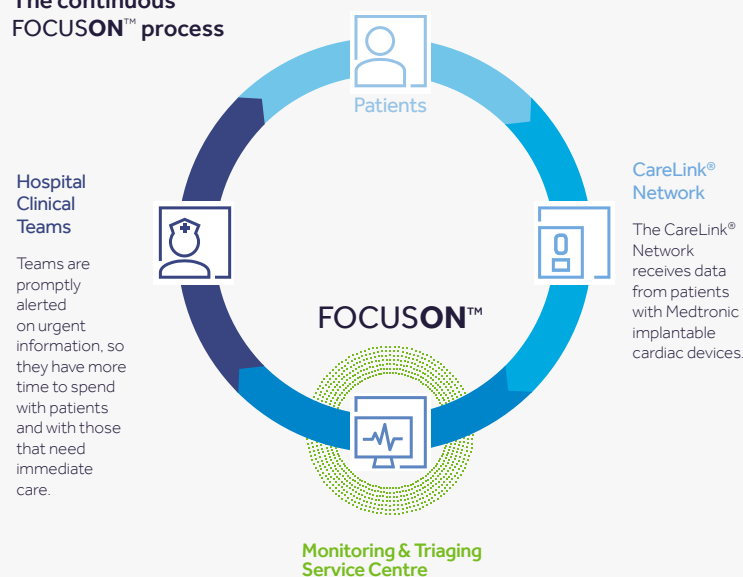
Service Time

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

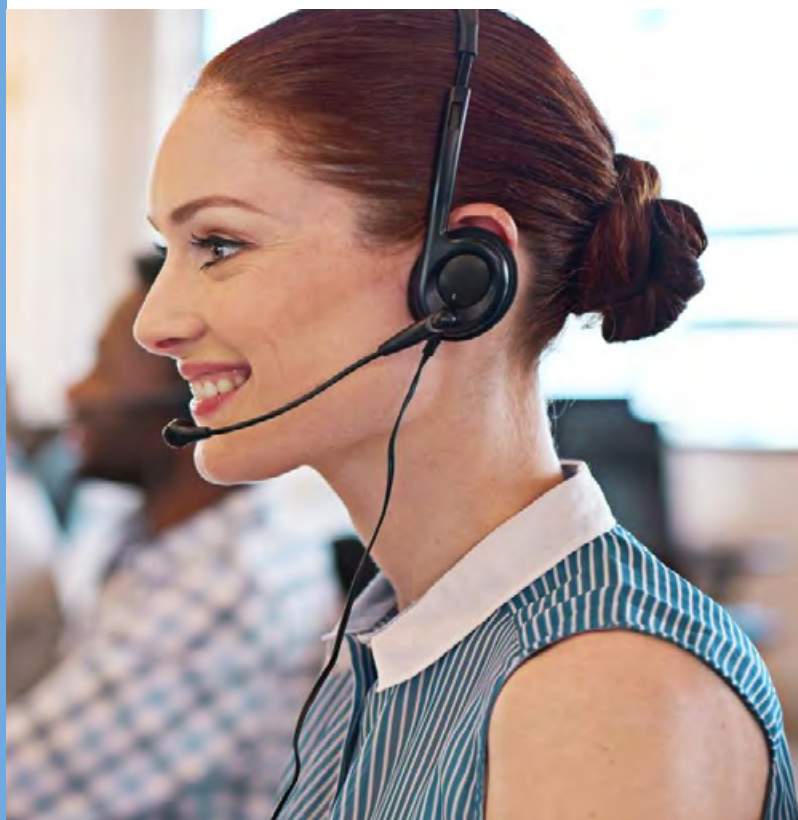
- Service offered in local language

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.

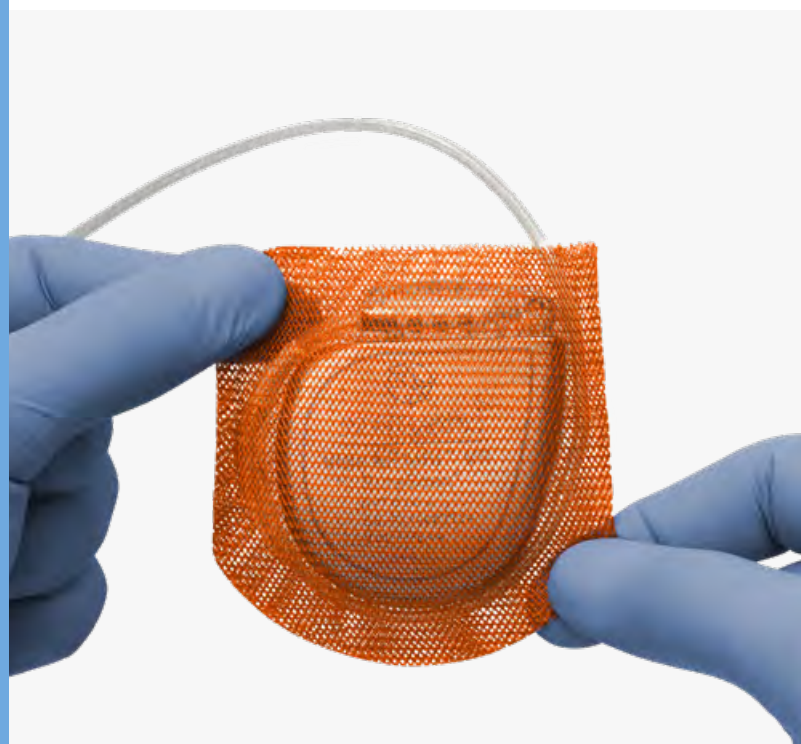
- Fully absorbs into the body in ~9 weeks
- Large pore mesh:
 - Knitted from absorbable filaments (glycolide, caprolactone and trimethylene carbonate)
 - Filaments coated with a bioabsorbable polymer containing antibacterial agents
- Single Use Only
- Storage: between 2 - 25° C

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.
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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

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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

GLOSSARY

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.

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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.

IMPORTANT REMINDER

This information is intended only for users in markets where Medtronic products and therapies are approved or available for use as indicated within the respective product manuals. Content on specific Medtronic products and therapies is not intended for users in markets that do not have authorization for use.

Medtronic

Europe

Medtronic International Trading Sàrl.
Route du Molliau 31
Case postale
CH-1131 Tolochenaz
www.medtronic.eu
Tel: +41 0 21 802 70 00
Fax: +41 0 21 802 79 00

United Kingdom/Ireland

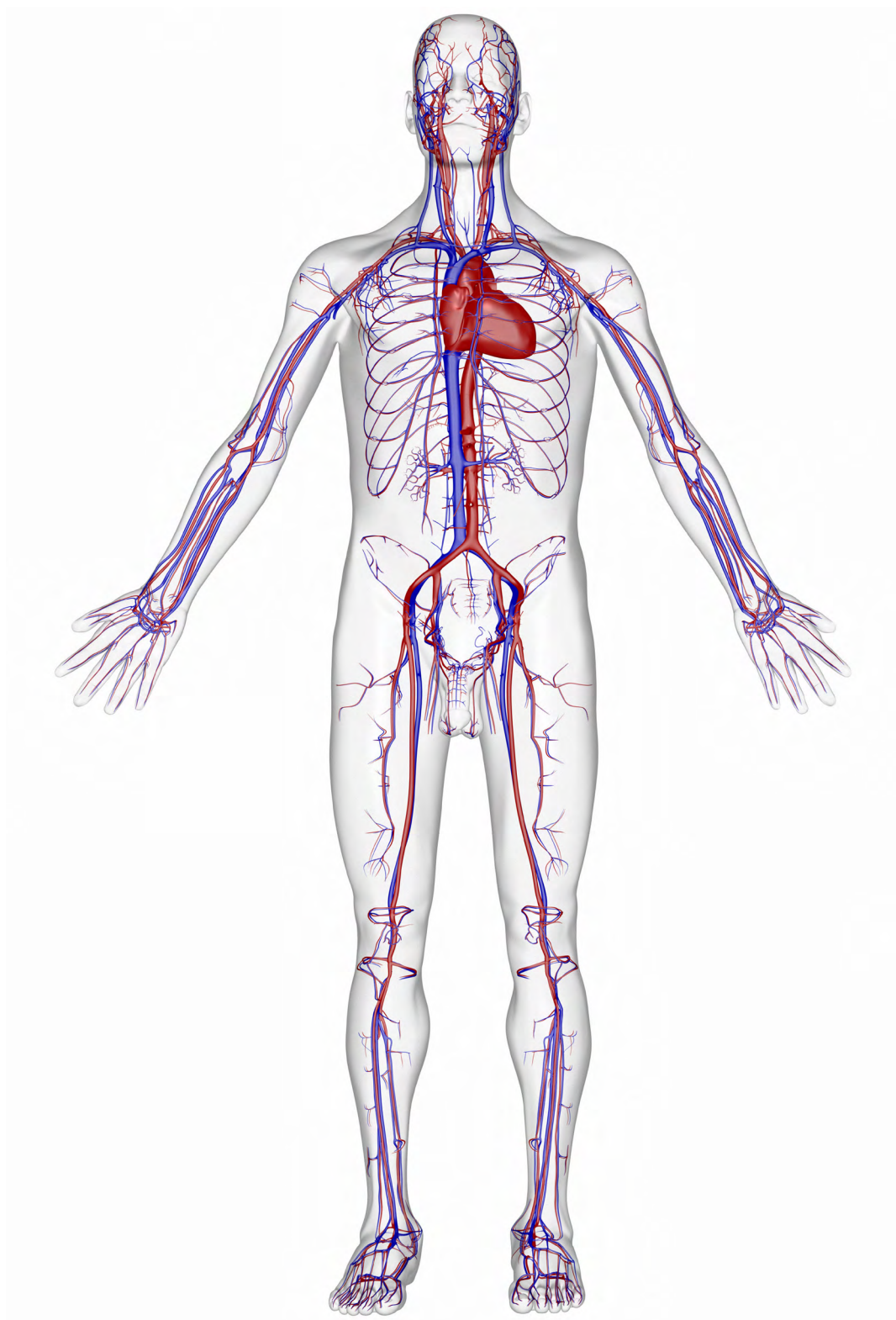
Medtronic Limited
Building 9
Croxley Park
Hatters Lane
Watford
Herts WD18 8WW
www.medtronic.co.uk
Tel: +44 0 1923 212213
Fax: +44 0 1923 241004

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PRODUCT CATALOGUE 2017 - EUROPE

Peripheral Vascular



Product Catalogue

Ordering Locations

AUSTRIA	Bard Medica SA, MGC-Top Nr. D36, 3.OG Ebene, Modecenterstraße 22, 1030 Wien, Austria Tel: +43 1 49 49130 Fax: +43 1 49 49130 30
BENELUX	Bard Benelux n.v., Hagelberg 2, 2250 Olen, Belgium Tel: +32 14 28 69 50 Fax: +32 14 28 69 66
CZECH REPUBLIC	Bard Czech Republic s.r.o, Taborska 619, 140 00 Prague, Czech Republic Tel: +420 242 408630 Fax: +420 242 410185
FRANCE	Bard France SAS, Av Joseph Kessel 164-166, Parkile-P 14, 78960 Voisins-le-Bretonneux, France Tel: +33 1 39 30 58 58 Fax: +33 1 39 30 58 59
GERMANY	C. R. Bard GmbH, Wachhausstrasse 6, 76227 Karlsruhe, Germany Tel: +49 721 9445 0 Fax: +49 721 9445 5111
GREECE	Bard Hellas SA, 1, Filellinon Str & Megalou Alexandrou, 16452 Argyroupoli Tel: +30 210 969 0770 Fax: +30 210 962 8810
IRELAND	Bard Ltd, Arena House, Arena Road, Sandyford, Dublin 18, Ireland Tel: +353 121 30706 Fax: +353 121 30604
ITALY	Bard S.r.l, Via Cina 444, 00144 Roma, Italy Tel: +39 06 52 4931 Fax: +39 06 52 95 852
NETHERLANDS	C.R. Bard Netherlands Sales B.V., Lorenzlaan 4, 3401 MX IJsselstein, the Netherlands Tel: +31 88 01 22 5200 Fax: +31 88 01 22 501
NORDIC	Bard Norden AB, Rönnowsgatan 10, 252 25 Helsingborg, Sweden Tel: +46 42 38 60 00 Fax: +46 42 38 60 10
POLAND	Bard Poland sp.z.o.o, ul. Cybernetyki 9, 02-677 Warsaw, Poland Tel: +48 22 321 0930 Fax: +48 22 321 0938
SPAIN	Bard de España S.A.U, Plaza Europa 41-43 5a Planta (Torre Realía), 08908 L'Hospitalet de Llobregat, Spain Tel: +34 93 253 78 00 Fax: +34 93 253 78 34
SWITZERLAND	Bard Medica SA, Seestrasse 64, 8942 Oberrieden, Zurich, Switzerland Tel: +41 44 722 53 60 Fax: +41 44 722 53 70
UK	Bard Limited, Forest House, Tilgate Forest Business Park, Brighton Road, Crawley, West Sussex RH11 9BP, United Kingdom Tel: +44 1293 527 888 Fax: +44 1293 552 428

Peripheral Vascular

Section 1 - Interventional Products



Peripheral Vascular

SECTION 1 - Interventional Products

Self Expanding Stents

Balloon Expandable Stents

Stent Grafts

Angioplasty Catheters

Drug Coated Balloons

Inflation Devices

CTO Management

Thrombus Management

Angiography Catheters

Guide Wires

Introducers

Angiography Accessories

Vena Cava Filters

Self Expanding Stent Non Vascular

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Vascular Grafts – for Haemodialysis

Vascular Grafts – Polyester

Fabrics, Felts, Pledgets, Tapes and Patches

Vascular Catheters

Carotid Shunts

Tunneler Sets

Vascular Accessories

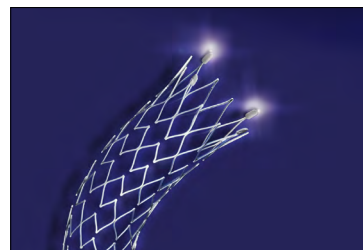
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Self Expanding Stents

E•LUMINEXX® Vascular Stent

- Incorporates BARD® S.A.F.E.® deployment system and PERFORMAXX® Grip
- 6F Deployment system
- .035" Guide wire compatible



Product Code for 80cm Deployment System	Product Code for 135cm Deployment System	Expanded Stent Diameter (mm)	Stent Length (mm)
ZVM04020	ZVL04020	4	20
ZVM04030	ZVL04030	4	30
ZVM04040	ZVL04040	4	40
ZVM04050	ZVL04050	4	50
ZVM04060	ZVL04060	4	60
ZVM04080	ZVL04080	4	80
ZVM04100	ZVL04100	4	100
ZVM04120	ZVL04120	4	120
ZVM05020	ZVL05020	5	20
ZVM05030	ZVL05030	5	30
ZVM05040	ZVL05040	5	40
ZVM05050	ZVL05050	5	50
ZVM05060	ZVL05060	5	60
ZVM05080	ZVL05080	5	80
ZVM05100	ZVL05100	5	100
ZVM05120	ZVL05120	5	120
ZVM06020	ZVL06020	6	20
ZVM06030	ZVL06030	6	30
ZVM06040	ZVL06040	6	40
ZVM06050	ZVL06050	6	50
ZVM06060	ZVL06060	6	60
ZVM06080	ZVL06080	6	80
ZVM06100	ZVL06100	6	100
ZVM06120	ZVL06120	6	120
ZVM07020	ZVL07020	7	20
ZVM07030	ZVL07030	7	30
ZVM07040	ZVL07040	7	40
ZVM07050	ZVL07050	7	50
ZVM07060	ZVL07060	7	60
ZVM07080	ZVL07080	7	80
ZVM07100	ZVL07100	7	100
ZVM07120	ZVL07120	7	120

Self Expanding Stents

E•LUMINEXX® Vascular Stent

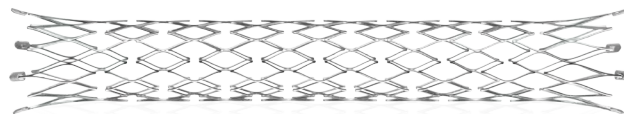
- Incorporates BARD® S.A.F.E.® deployment system and PERFORMAXX® Grip
- 6F Deployment system
- .035" Guide wire compatible

Product Code for 80cm Deployment System	Product Code for 135cm Deployment System	Expanded Stent Diameter (mm)	Stent Length (mm)
ZVM08020	ZVL08020	8	20
ZVM08030	ZVL08030	8	30
ZVM08040	ZVL08040	8	40
ZVM08050	ZVL08050	8	50
ZVM08060	ZVL08060	8	60
ZVM08080	ZVL08080	8	80
ZVM08100	ZVL08100	8	100
ZVM08120	ZVL08120	8	120
ZVM09020	ZVL09020	9	20
ZVM09030	ZVL09030	9	30
ZVM09040	ZVL09040	9	40
ZVM09050	ZVL09050	9	50
ZVM09060	ZVL09060	9	60
ZVM09080	ZVL09080	9	80
ZVM09100	ZVL09100	9	100
ZVM09120	ZVL09120	9	120
ZVM10020	ZVL10020	10	20
ZVM10030	ZVL10030	10	30
ZVM10040	ZVL10040	10	40
ZVM10050	ZVL10050	10	50
ZVM10060	ZVL10060	10	60
ZVM10080	ZVL10080	10	80
ZVM10100	ZVL10100	10	100
ZVM10120	ZVL10120	10	120
ZVM12020	ZVL12020	12	20
ZVM12030	ZVL12030	12	30
ZVM12040	ZVL12040	12	40
ZVM12050	ZVL12050	12	50
ZVM12060	ZVL12060	12	60
ZVM12080	ZVL12080	12	80
ZVM12100	ZVL12100	12	100
ZVM12120	ZVL12120	12	120
ZVM14020	ZVL14020	14	20
ZVM14030	ZVL14030	14	30
ZVM14040	ZVL14040	14	40
ZVM14050	ZVL14050	14	50
ZVM14060	ZVL14060	14	60
ZVM14080	ZVL14080	14	80
ZVM14100	ZVL14100	14	100
ZVM14120	ZVL14120	14	120

Self Expanding Stents

LIFESTAR™ Vascular Stent System

- 6F Deployment system
- .035" Guide wire compatible
- Pin-and Pull delivery system



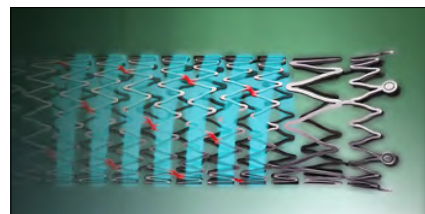
Product Code	Stent Length (mm)	Expanded Stent Diameter (mm)	Catheter Length (cm)
VIES07020*	20	7	80
VIES07030*	30	7	80
VIES07040*	40	7	80
VIES07060*	60	7	80
VIES07080*	80	7	80
VIES07100*	100	7	80
VIES08020*	20	8	80
VIES08030*	30	8	80
VIES08040*	40	8	80
VIES08060*	60	8	80
VIES08080*	80	8	80
VIES08100	100	8	80
VIES09020*	20	9	80
VIES09030*	30	9	80
VIES09040*	40	9	80
VIES09060*	60	9	80
VIES09080*	80	9	80
VIES09100*	100	9	80
VIES10020*	20	10	80
VIES10030*	30	10	80
VIES10040*	40	10	80
VIES10060*	60	10	80
VIES10080*	80	10	80
VIES10100*	100	10	80

*Please consult your Bard Representative for local availability

Self Expanding Stents

LIFESTENT® Vascular Stent System

- 6F Deployment system
- .035" Guide wire compatible



Deployment System	Catheter Length (cm)	Stent Diameter (mm)	Stent Length (mm)	Product Code
	80	5	20	EX050201C
			30	EX050301C
			40	EX050401C
			60	EX050601C
			80	EX050801C
		6	20	EX060201C
			30	EX060301C
			40	EX060401C
			60	EX060601C
			80	EX060801C
		7	20	EX070201C
			30	EX070301C
			40	EX070401C
			60	EX070601C
			80	EX070801C

Deployment System	Catheter Length (cm)	Stent Diameter (mm)	Stent Length (mm)	Product Code
	130	5	20	EX050203C
			30	EX050303C
			40	EX050403C
			60	EX050603C
			80	EX050803C
		6	20	EX060203C
			30	EX060303C
			40	EX060403C
			60	EX060603C
			80	EX060803C
		7	20	EX070203C
			30	EX070303C
			40	EX070403C
			60	EX070603C
			80	EX070803C

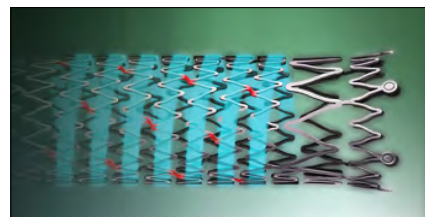
Deployment System	Catheter Length (cm)	Stent Diameter (mm)	Stent Length (mm)	Product Code
	80	5	100	EX51001C
			120	EX51201C
			150	EX51501C
			170	EX51701C
		6	100	EX061001C
			120	EX061201C
			150	EX061501C
			170	EX061701C
		7	100	EX071001C
			120	EX071201C
			150	EX071501C
			170	EX071701C

Deployment System	Catheter Length (cm)	Stent Diameter (mm)	Stent Length (mm)	Product Code
	130	5	100	EX051003C
			120	EX051203C
			150	EX051503C
			170	EX051703C
		6	100	EX061003C
			120	EX061203C
			150	EX061503C
			170	EX061703C
		7	100	EX071003C
			120	EX071203C
			150	EX071503C
			170	EX071703C

Self Expanding Stents

LIFESTENT® Vascular Stent System

- 6F Deployment system
- .035" Guide wire compatible



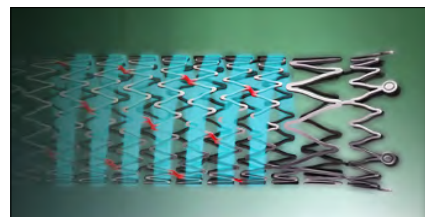
Deployment System	Catheter Length (cm)	Stent Diameter (mm)	Stent Length (mm)	Product Code
	80	8	20	EX080201C
			30	EX080301C
			40	EX080401C
			60	EX080601C
			80	EX080801C
		9	20	EX090201C
			30	EX090301C
			40	EX090401C
			60	EX090601C
			80	EX090801C
		10	20	EX100201C
			30	EX100301C
			40	EX100401C
			60	EX100601C
			80	EX100801C

Deployment System	Catheter Length (cm)	Stent Diameter (mm)	Stent Length (mm)	Product Code
	130	8	20	EX080203C
			30	EX080303C
			40	EX080403C
			60	EX080603C
			80	EX080803C
		9	20	EX090203C
			30	EX090303C
			40	EX090403C
			60	EX090603C
			80	EX090803C
		10	20	EX100203C
			30	EX100303C
			40	EX100403C
			60	EX100603C
			80	EX100803C

Self Expanding Stents

LIFESTENT® LX Vascular Stent System

- 6F Deployment system
- .035" Guide wire compatible



Deployment System	Catheter Length (cm)	Stent Diameter (mm)	Stent Length (mm)	Product Code
	80	5	100	EX051001C
			120	EX051201C
			150	EX051501C
			170	EX051701C
		6	100	EX061001C
			120	EX061201C
			150	EX061501C
			170	EX061701C
		7	100	EX071001C
			120	EX071201C
			150	EX071501C
			170	EX071701C

Deployment System	Catheter Length (cm)	Stent Diameter (mm)	Stent Length (mm)	Product Code
	130	5	100	EX051003C
			120	EX051203C
			150	EX051503C
			170	EX051703C
		6	100	EX061003C
			120	EX061203C
			150	EX061503C
			170	EX061703C
		7	100	EX071003C
			120	EX071203C
			150	EX071503C
			170	EX071703C

Self Expanding Stents

LIFESTENT® SOLO™ Vascular Stent System

- 6F Deployment system
- .035" Guide wire compatible

Deployment System	Catheter Length (cm)	Stent Diameter (mm)	Stent Length (mm)	Product Code
	80	6	200	EX062001L
		7	200	EX072001L

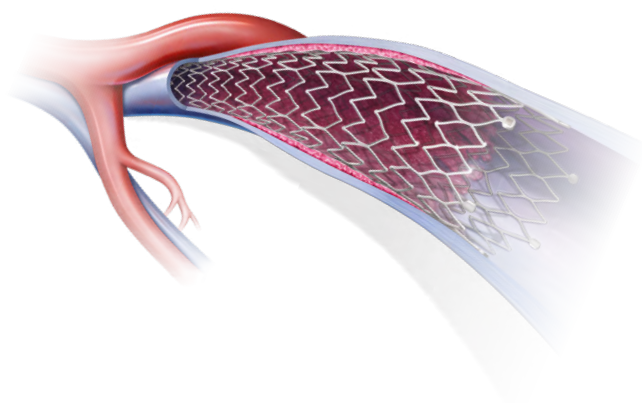
Deployment System	Catheter Length (cm)	Stent Diameter (mm)	Stent Length (mm)	Product Code
	135	6	200	EX062003L
		7	200	EX072003L

*Please consult your Bard Representative for local availability

Self Expanding Stents

VENOVO™ Venous Stent System

- Dedicated stent design for iliac and femoral veins
- Tri-axial delivery system
 - 80 cm workable length
 - .035" guide wire
- Dual speed thumb-wheel delivery



Product Code		Stent Length (mm)	Expanded Stent Diameter (mm)	Sheath Compatibility (F)
80 cm	120 cm			
VENEM10040	VENEL10040*	40	10	8
VENEM10060	VENEL10060	60	10	8
VENEM10080	VENEL10080	80	10	8
VENEM10100	VENEL10100	100	10	8
VENEM10120	VENEL10120	120	10	8
VENEM10140	VENEL10140	140	10	8
VENEM10160	VENEL10160	160	10	8
VENEM12040	VENEL12040*	40	12	8
VENEM12060	VENEL12060	60	12	8
VENEM12080	VENEL12080	80	12	8
VENEM12100	VENEL12100	100	12	8
VENEM12120	VENEL12120	120	12	8
VENEM12140	VENEL12140	140	12	8
VENEM12160	VENEL12160	160	12	8
VENEM14040	VENEL14040*	40	14	9
VENEM14060	VENEL14060	60	14	9
VENEM14080	VENEL14080	80	14	9
VENEM14100	VENEL14100	100	14	9
VENEM14120	VENEL14120	120	14	9
VENEM14140	VENEL14140	140	14	9
VENEM14160	VENEL14160	160	14	9
VENEM16040	VENEL16040*	40	16	10
VENEM16060	VENEL16060	60	16	10
VENEM16080	VENEL16080	80	16	10
VENEM16100	VENEL16100	100	16	10
VENEM16120	VENEL16120	120	16	10
VENEM16140	VENEL16140	140	16	10
VENEM16160	VENEL16160	160	16	10
VENEM18040	VENEL18040*	40	18	10
VENEM18060	VENEL18060	60	18	10
VENEM18080	VENEL18080	80	18	10
VENEM18100	VENEL18100	100	18	10
VENEM18120	VENEL18120	120	18	10
VENEM18140	VENEL18140	140	18	10
VENEM18160	VENEL18160	160	18	10
VENEM20040	VENEL20040*	40	20	10
VENEM20060	VENEL20060	60	20	10
VENEM20080	VENEL20080	80	20	10
VENEM20100	VENEL20100	100	20	10
VENEM20120	VENEL20120	120	20	10
VENEM20140	VENEL20140	140	20	10
VENEM20160	VENEL20160	160	20	10

*Please consult your Bard Representative for local availability

Self Expanding Stents

VIVEXX® Carotid Stent

- Incorporates BARD® S.A.F.E.® deployment system and PERFORMAXX® Grip
- Mounted on a 5F, RX (monorail) hypotube delivery system
- .014" Guide wire compatible

VIVEXX® Cylindrical



Product Code	Expanded Stent Diameter (mm)	Stent Length (mm)	Catheter Length (cm)
VCE05020	5	20	135
VCE05030	5	30	135
VCE05040	5	40	135
VCE06020	6	20	135
VCE06030	6	30	135
VCE06040	6	40	135
VCE07020	7	20	135
VCE07030	7	30	135
VCE07040	7	40	135
VCE08020	8	20	135
VCE08030	8	30	135
VCE08040	8	40	135
VCE09020	9	20	135
VCE09030	9	30	135
VCE09040	9	40	135
VCE10020	10	20	135
VCE10030	10	30	135
VCE10040	10	40	135
VCE12020	12	20	135
VCE12030	12	30	135
VCE12040	12	40	135

VIVEXX® Tapered

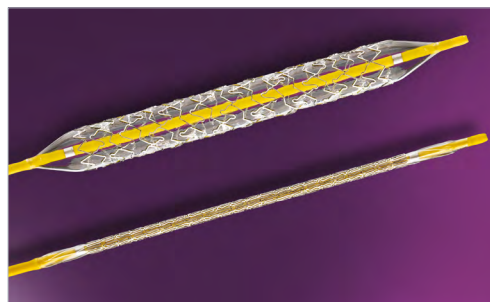


Product Code	Expanded Stent Diameter (mm)	Stent Length (mm)	Catheter Length (cm)
VTE06830	6-8	30	135
VTE06840	6-8	40	135
VTE71030	7-10	30	135
VTE71040	7-10	40	135
VTE81230	8-12	30	135
VTE81240	8-12	40	135

Balloon Expandable Stents

VALEO® Vascular Stent

- .035" Guide wire compatible

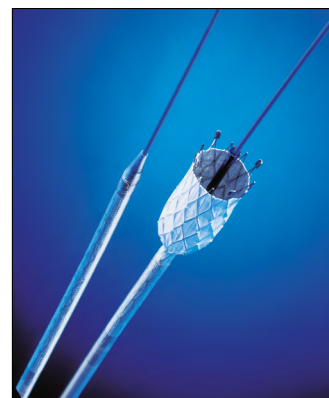


Product Code for 80cm Deployment System	Product Code for 120cm Deployment System	Expanded Stent Diameter (mm)	Stent Length (mm)	Introducer Compatibility (F)
EV06181C	EV06182C	6	18	6
EV06261C	EV06262C	6	26	6
EV06361C	EV06362C	6	36	6
EV07181C	EV07182C	7	18	6
EV07261C	EV07262C	7	26	6
EV07361C	EV07362C	7	36	6
EV07561C	EV07562C	7	56	6
EV08181C	EV08182C	8	18	6
EV08261C	EV08262C	8	26	6
EV08361C	EV08362C	8	36	6
EV08561C	EV08562C	8	56	7
EV09171C	EV09172C	9	17	7
EV09261C	EV09262C	9	26	7
EV09361C	EV09362C	9	36	7
EV10171C	EV10172C	10	17	7
EV10261C	EV10262C	10	26	7
EV10361C	EV10362C	10	36	7

Stent Grafts

FLUENCY® Plus Vascular Stent Graft

- Incorporates BARD® S.A.F.E.® deployment system
- Two ultra thin layers of ePTFE, luminal surface of the ePTFE is carbon impregnated
- Self expandable
- .035" Guide wire compatible



Product Code for 80cm Deployment System	Product Code for 117cm Deployment System	Expanded stent Diameter (mm)	Stent Graft Length (mm)	Delivery System Diameter (F)
FVM05020	FVL05020	5	20	8
FVM05030	FVL05030	5	30	8
FVM05040	FVL05040	5	40	8
FVM05060	FVL05060	5	60	8
FVM05080	FVL05080	5	80	8
FVM05100	FVL05100	5	100	8
FVM05120	FVL05120	5	120	8
FVM06020	FVL06020	6	20	8
FVM06030	FVL06030	6	30	8
FVM06040	FVL06040	6	40	8
FVM06060	FVL06060	6	60	8
FVM06080	FVL06080	6	80	8
FVM06100	FVL06100	6	100	8
FVM06120	FVL06120	6	120	8
FVM07020	FVL07020	7	20	8
FVM07030	FVL07030	7	30	8
FVM07040	FVL07040	7	40	8
FVM07060	FVL07060	7	60	8
FVM07080	FVL07080	7	80	9
FVM07100	FVL07100	7	100	9
FVM07120	FVL07120	7	120	9

Stent Grafts

FLUENCY® Plus Vascular Stent Graft

- Self Expandable
- Incorporates BARD® S.A.F.E.® deployment system
- Two ultra thin layers of ePTFE, luminal surface of the ePTFE is carbon impregnated
- .035" Guide wire compatible

Product Code for 80cm Deployment System	Product Code for 117cm Deployment System	Expanded stent Diameter (mm)	Stent Graft Length (mm)	Delivery System Diameter (F)
FVM08020	FVL08020	8	20	9
FVM08030	FVL08030	8	30	9
FVM08040	FVL08040	8	40	9
FVM08060	FVL08060	8	60	9
FVM08080	FVL08080	8	80	9
FVM08100	FVL08100	8	100	9
FVM08120	FVL08120	8	120	9
FVM09030	FVL09030	9	30	9
FVM09040	FVL09040	9	40	9
FVM09060	FVL09060	9	60	9
FVM09080	FVL09080	9	80	9
FVM09100	FVL09100	9	100	9
FVM09120	FVL09120	9	120	9
FVM10030	FVL10030	10	30	9
FVM10040	FVL10040	10	40	9
FVM10060	FVL10060	10	60	9
FVM10080	FVL10080	10	80	9
FVM10100	FVL10100	10	100	9
FVM10120	FVL10120	10	120	9
FVM12030	FVL12030	12	30	10
FVM12040	FVL12040	12	40	10
FVM12060	FVL12060	12	60	10
FVM12080	FVL12080	12	80	10
FVM12100	FVL12100	12	100	10
FVM12120	FVL12120	12	120	10
FVM14030	FVL14030	13.5	30	10
FVM14040	FVL14040	13.5	40	10
FVM14060	FVL14060	13.5	60	10
FVM14080	FVL14080	13.5	80	10
FVM14100	FVL14100	13.5	100	10
FVM14120	FVL14120	13.5	120	10

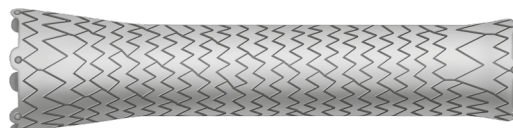
Stent Grafts

LIFESTREAM™ Balloon Expandable Vascular Covered Stent

- Balloon expandable
- Two ultra thin layers of ePTFE
- .035" Guide wire compatible

Catheter Length		Expanded Stent Diameter (mm)	Compressed Stent Length (F)	Introducer Compatibility
80cm	135cm			
LSM0800526	LSM1350526	5	26	6
LSM0800537	LSM1350537	5	37	6
LSM0800616	LSM1350616	6	16	6
LSM0800626	LSM1350626	6	26	6
LSM0800637	LSM1350637	6	37	6
LSM0800658	LSM1350658	6	58	7
LSM0800716	LSM1350716	7	16	6
LSM0800726	LSM1350726	7	26	6
LSM0800737	LSM1350737	7	37	7
LSM0800758	LSM1350758	7	58	7
LSM0800816	LSM1350816	8	16	7
LSM0800826	LSM1350826	8	26	7
LSM0800837	LSM1350837	8	37	7
LSM0800858	LSM1350858	8	58	7
LSM0800938	LSM1350938	9	38	7
LSM0800958	LSM1350958	9	58	7
LSM0801038	LSM1351038	10	38	8
LSM0801058	LSM1351058	10	58	8
LSM0801238	LSM1351238	12	38	8
LSM0801258	LSM1351258	12	58	8

Stent Grafts



Covera™ Vascular Covered Stent

- For the treatment of stenoses in the upper extremity venous outflow of patients dialyzing with an arterio-venous (AV) access graft or fistula
- Carbon impregnation
- Straight and Flared end configurations

Product Code 80cm Catheter Length		Covered Stent Diameter (mm)	Covered Stent Length (mm)	Recommended Introducer (F)
Straight Configuration	Flared Configuration			
AVSME06030		6	30	8
AVSME06040	AVFME06040	6	40	8
AVSME06060	AVFME06060	6	60	8
AVSME06080	AVFME06080	6	80	8
AVSME06100	AVFME06100	6	100	8
AVSME07030		7	30	8
AVSME07040	AVFME07040	7	40	8
AVSME07060	AVFME07060	7	60	8
AVSME07080	AVFME07080	7	80	8
AVSME07100	AVFME07100	7	100	8
AVSME08030		8	30	8
AVSME08040	AVFME08040	8	40	8
AVSME08060	AVFME08060	8	60	8
AVSME08080	AVFME08080	8	80	8
AVSME08100	AVFME08100	8	100	9
AVSME09030		9	30	8
AVSME09040	AVFME09040	9	40	8
AVSME09060	AVFME09060	9	60	8
AVSME09080	AVFME09080	9	80	8
AVSME09100	AVFME09100	9	100	9
AVSME10030		10	30	8
AVSME10040	AVFME10040	10	40	8
AVSME10060	AVFME10060	10	60	8
AVSME10080	AVFME10080	10	80	9
AVSME10100	AVFME10100	10	100	9

Product Code 120cm Catheter Length		Covered Stent Diameter (mm)	Covered Stent Length (mm)	Recommended Introducer (F)
Straight Configuration	Flared Configuration			
AVSLE06030		6	30	8
AVSLE06040	AVFLE06040	6	40	8
AVSLE06060	AVFLE06060	6	60	8
AVSLE06080	AVFLE06080	6	80	8
AVSLE06100	AVFLE06100	6	100	8
AVSLE07030		7	30	8
AVSLE07040	AVFLE07040	7	40	8
AVSLE07060	AVFLE07060	7	60	8
AVSLE07080	AVFLE07080	7	80	8
AVSLE07100	AVFLE07100	7	100	8
AVSLE08030		8	30	8
AVSLE08040	AVFLE08040	8	40	8
AVSLE08060	AVFLE08060	8	60	8
AVSLE08080	AVFLE08080	8	80	8
AVSLE08100	AVFLE08100	8	100	9
AVSLE09030		9	30	8
AVSLE09040	AVFLE09040	9	40	8
AVSLE09060	AVFLE09060	9	60	8
AVSLE09080	AVFLE09080	9	80	8
AVSLE09100	AVFLE09100	9	100	9
AVSLE10030		10	30	8
AVSLE10040	AVFLE10040	10	40	8
AVSLE10060	AVFLE10060	10	60	8
AVSLE10080	AVFLE10080	10	80	9
AVSLE10100	AVFLE10100	10	100	9

Angioplasty Catheters

ULTRAVERSE® 035 PTA Dilatation Catheter

- CHECKER™ Flex Points
- Geographic alignment markerbands
- .035" Guide wire compatible



Shaft Length		Balloon Size		Sheath Size (F)	RBP (atm)
75cm	130cm	Diameter (mm)	Length (cm)		
U357532	U3513032	3	20	5	21
U357534	U3513034	3	40	5	21
U357536	U3513036	3	60	5	21
U357538	U3513038	3	80	5	21
U3575310	U35130310	3	100	5	19
U3575312	U35130312	3	120	5	19
U3575315	U35130315	3	150	5	19
U3575320	U35130320	3	200	5	19
U3575325	U35130325	3	250	5	19
U3575330	U35130330	3	300	5	19
U357542	U3513042	4	20	5	20
U357544	U3513044	4	40	5	20
U357546	U3513046	4	60	5	20
U357548	U3513048	4	80	5	20
U3575410	U35130410	4	100	5	19
U3575412	U35130412	4	120	5	19
U3575415	U35130415	4	150	5	19
U3575420	U35130420	4	200	5	19
U3575425	U35130425	4	250	5	19
U3575430	U35130430	4	300	5	19
U357552	U3513052	5	20	5	17
U357554	U3513054	5	40	5	17
U357556	U3513056	5	60	5	17
U357558	U3513058	5	80	5	17
U3575510	U35130510	5	100	5	16
U3575512	U35130512	5	120	5	16
U3575515	U35130515	5	150	5	16
U3575520	U35130520	5	200	5	16
U3575525	U35130525	5	250	5	16
U3575530	U35130530	5	300	5	16
U357562	U3513062	6	20	5	15
U357564	U3513064	6	40	5	15
U357566	U3513066	6	60	5	15
U357568	U3513068	6	80	5	15
U3575610	U35130610	6	100	5	14
U3575612	U35130612	6	120	5	14
U3575615	U35130615	6	150	5	14
U3575620	U35130620	6	200	5	14
U3575625	U35130625	6	250	5	14
U3575630	U35130630	6	300	5	14

Angioplasty Catheters

ULTRAVERSE® 035 PTA Dilatation Catheter

- CHECKER™ Flex Points
- Geographical alignment markerbands
- .035" Guide wire compatible



Shaft Length			Balloon Size		Sheath Size (F)	RBP (atm)
75cm	100cm	130cm	Diameter (mm)	Length (cm)		
U357572	U3510072	U3513072	7	20	5	14
U357574	U3510074	U3513074	7	40	5	14
U357576	U3510076	U3513076	7	60	5	14
U357578	U3510078	U3513078	7	80	5	14
U3575710	U35100710	U35130710	7	100	5	11
U3575712		U35130712	7	120	5	11
U3575715		U35130715	7	150	5	11
U3575720		U35130720	7	200	5	11
U3575725		U35130725	7	250	5	11
U3575730		U35130730	7	300	5	11
U357582		U3513082	8	20	5	10
U357584		U3513084	8	40	5	10
U357586		U3513086	8	60	5	10
U357588		U3513088	8	80	5	10
U3575810		U35130810	8	100	5	13
U3575812		U35130812	8	120	5	13
U3575815		U35130815	8	150	5	13
U3575820		U35130820	8	200	5	13
U357592		U3513092	9	20	6	12
U357594		U3513094	9	40	6	12
U357596		U3513096	9	60	6	11
U357598		U3513098	9	80	6	11
U3557599			9	100	6	11
U3575102		U35130102	10	20	6	11
U3575104		U35130104	10	40	6	11
U3575106		U35130106	10	60	6	10
U3575108		U35130108	10	80	6	10
U35751010			10	100	6	10
U3575122		U35130122	12	20	7	11
U3575124		U35130124	12	40	7	11
U3575126		U35130126	12	60	7	9
U3575128		U35130128	12	80	7	9
U35751212			12	100	7	9

Angioplasty Catheters

CLEARPAC™ Ω PTA Dilatation Catheter

- QUADFLEX™ balloon material
- SiLX® coating
- .035" Guide wire compatible



Shaft Length			Balloon Size		Sheath Size (F)	Nominal Pressure (atm)	RBP (atm)
75cm	100cm	130cm	Diameter (mm)	Length (cm)			
28730020*	28830020	31030020	3	2	5	6	16
28730040*	28830040	31030040	3	4	5	6	16
28730060*	28830060	31030060	3	6	5	6	16
28730080*	28830080	31030080	3	8	5	6	15
28730100*	28830100	31030100	3	10	5	6	15
28730120*	28830120	31030120	3	12	5	6	15
28730150*	28830150	31030150	3	15	5	6	15
28730220*	28830220	31030220	3	22	5	6	15
28740020	28840020	31040020	4	2	5	6	16
28740040	28840040	31040040	4	4	5	6	16
28740060	28840060	31040060	4	6	5	6	16
28740080	28840080	31040080	4	8	5	6	15
28740100	28840100	31040100	4	10	5	6	15
28740120	28840120	31040120	4	12	5	6	15
28740150	28840150	31040150	4	15	5	6	15
28740220	28840220	31040220	4	22	5	6	15
28750020	28850020	31050020	5	2	5	6	14
28750040	28850040	31050040	5	4	5	6	14
28750060	28850060	31050060	5	6	5	6	14
28750080	28850080	31050080	5	8	5	6	13
28750100	28850100	31050100	5	10	5	6	13
28750120	28850120	31050120	5	12	5	6	13
28750150	28850150	31050150	5	15	5	6	13
28750220	28850220	31050220	5	22	5	6	13
28760020	28860020		6	2	5	6	13
28760040	28860040		6	4	5	6	13
28760060	28860060		6	6	5	6	13
28760080	28860080		6	8	5	6	12
28760100	28860100		6	10	5	6	12
28760120	28860120		6	12	5	6	12
28760150	28860150		6	15	5	6	12
28760220	28860220		6	22	5	6	12
28770020	28870020		7	2	6	6	12
28770040	28870040		7	4	6	6	12
28770060	28870060		7	6	6	6	12
28780020	28880020		8	2	6	6	12
28780040	28880040		8	4	6	6	12
28780060	28880060		8	6	6	6	12
28790020	28890020		9	2	7	6	11
28790040	28890040		9	4	7	6	11
28790060	28890060		9	6	7	6	11
28710020	28810020		10	2	7	6	11
28710040	28810040		10	4	7	6	11
28710060	28810060		10	6	7	6	11
28712020	28812020		12	2	8	6	10
28712040	28812040		12	4	8	6	10

*Please consult your Bard Representative for local availability

Angioplasty Catheters

DORADO® PTA Dilatation Catheter

- Ultra non-compliant
- CHECKER™ Flex Points
- .035" Guide wire compatible



Shaft Length				Balloon Size		Sheath Size (F)	Nominal Pressure (atm)	RBP (atm)
40cm	80cm	120cm	135cm	Diameter (mm)	Length (cm)			
	DR8032		DR13532	3	2	5	8	24
	DR8034		DR13534	3	4	5	8	24
	DR80310		DR135310	3	10	5	8	24
DR4042	DR8042		DR13542	4	2	5	8	24
DR4044	DR8044	DR12044	DR13544	4	4	5	8	24
	DR80410	DR120410	DR135410	4	10	5	8	24
			DR135412	4	12	6	8	24
			DR135415	4	15	6	8	24
			DR135417	4	17	6	8	24
			DR135420	4	20	6	8	24
DR4052	DR8052	DR12052	DR13552	5	2	5	8	24
DR4054	DR8054	DR12054	DR13554	5	4	5	8	24
	DR8056		DR13556	5	6	5	8	24
	DR8058		DR13558	5	8	5	8	24
	DR80510	DR120510	DR135510	5	10	5	8	24
			DR135512	5	12	6	8	24
			DR135515	5	15	6	8	24
			DR135517	5	17	6	8	24
			DR135520	5	20	6	8	24

Angioplasty Catheters

DORADO® PTA Dilatation Catheter

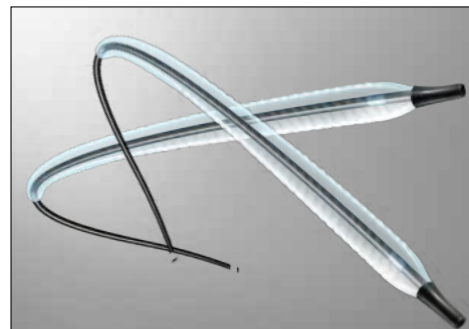
- Ultra non-compliant
- CHECKER™ Flex Points
- .035" Guide wire compatible

Shaft Length				Balloon Size		Sheath Size (F)	Nominal Pressure (atm)	RBP (atm)
40cm	80cm	120cm	135cm	Diameter (mm)	Length (cm)			
DR4062	DR8062	DR12062	DR13562	6	2	6	8	24
DR4064	DR8064	DR12064	DR13564	6	4	6	8	24
	DR8066		DR13566	6	6	6	8	24
	DR8068		DR13568	6	8	6	8	24
	DR80610	DR120610	DR135610	6	10	6	8	22
	DR80612		DR135612	6	12	6	8	22
	DR80615		DR135615	6	15	6	8	22
	DR80617		DR135617	6	17	6	8	22
	DR80620		DR135620	6	20	6	8	22
DR4072	DR8072		DR13572	7	2	6	8	22
DR4074	DR8074	DR12074	DR13574	7	4	6	8	22
	DR8076			7	6	6	8	22
	DR8078			7	8	6	8	22
	DR80710	DR120710	DR135710	7	10	6	8	22
	DR80712		DR135712	7	12	6	8	22
	DR80715		DR135715	7	15	6	8	22
	DR80717		DR135717	7	17	6	8	22
	DR80720		DR135720	7	20	6	8	22
DR4082	DR8082		DR13582	8	2	6	8	22
DR4084	DR8084	DR12084	DR13584	8	4	6	8	22
	DR8086			8	6	6	8	22
	DR8088			8	8	6	8	22
	DR80810		DR135810	8	10	6	8	20
	DR8092			9	2	6	8	20
DR4094	DR8094		DR13594	9	4	6	8	20
	DR8098			9	8	6	8	20
	DR80102		DR135102	10	2	6	8	20
	DR80104	DR120104	DR135104	10	4	6	8	20
	DR80108			10	8	7	8	20

Angioplasty Catheters

ULTRAVERSE® 014 PTA Dilatation Catheter

- CHECKER™ Flex Points
- ULTRA-CROSS™ Dual Layer Hydrophilic Coating
- .014" Guide wire compatible



Shaft Length	Balloon Size		Sheath Size (F)	Nominal Pressure (atm)	RBP (atm)
	Diameter (mm)	Length (cm)			
150cm					
U41501H2	1.5	2	4	6	16
U41501H4	1.5	4	4	6	16
U41501H12	1.5	12	4	6	16
U415022*	2	2	4	6	16
U415024	2	4	4	6	16
U415028	2	8	4	6	15
U4150210*	2	10	4	6	15
U4150212	2	12	4	6	15
U4150215	2	15	4	6	15
U4150222	2	22	4	6	15
U4150230*	2	30	4	6	15
U41502H2*	2.5	2	4	6	16
U41502H4	2.5	4	4	6	16
U41502H8	2.5	8	4	6	15
U41505H10*	2.5	10	4	6	15
U41502H12	2.5	12	4	6	15
U41502H15	2.5	15	4	6	15
U41502H22	2.5	22	4	6	15
U41502H30*	2.5	30	4	6	15
U415032*	3	2	4	6	16
U415034	3	4	4	6	16
U415038	3	8	4	6	15
U4150310*	3	10	4	6	15
U4150312	3	12	4	6	15
U4150315	3	15	4	6	15
U4150322	3	22	4	6	15
U4150330*	3	30	4	6	15
U41503H2*	3.5	2	4	6	16
U41503H4	3.5	4	4	6	16
U41503H8	3.5	8	4	6	15
U41503H10*	3.5	10	4	6	15
U41503H12	3.5	12	4	6	15
U41503H15*	3.5	15	4	6	15
U41503H22*	3.5	22	4	6	15
U41503H30*	3.5	30	4	6	15

Angioplasty Catheters

ULTRAVERSE® 014 PTA Dilatation Catheter

- CHECKER™ Flex Points
- ULTRA-CROSS™ Dual Layer Hydrophilic Coating
- .014" Guide wire compatible

Shaft Length	Balloon Size		Sheath Size (F)	Nominal Pressure (atm)	RBP (atm)
	Diameter (mm)	Length (cm)			
U415042*	4	2	4	6	16
U415044	4	4	4	6	16
U415048	4	8	4	6	15
U4150410*	4	10	4	6	15
U415412	4	12	4	6	15
U4150415*	4	15	5	6	15
U4150422*	4	22	5	6	15
U4150430*	4	30	5	6	15
U415052*	5	2	5	6	14
U415054	5	4	5	6	14
U415058	5	8	5	6	13
U4150510*	5	10	5	6	13
U4150512	5	12	5	6	13
U4150515*	5	15	5	6	13
U4150522*	5	22	5	6	13
U4150530*	5	30	5	6	13

*Please consult your Bard Representative for local availability

Angioplasty Catheters

BANTAM™ α PTA Dilatation Catheter

- QUADFLEX™ balloon material
- SiLX® Coating
- .014" Guide wire compatible



Shaft Length			Balloon Size		Sheath Size (F)	Nominal Pressure (atm)	RBP (atm)
100cm	130cm	150cm	Diameter (mm)	Length (cm)			
		50212515	1.25	1.5	4	6	14
		50215015	1.5	1.5	4	6	14
50015020	50115020	50215020	1.5	2	4	6	16
50015040	50115040	50215040	1.5	4	4	6	16
50015080	50115080	50215080	1.5	8	4	6	16
50015100	50115100	50215100	1.5	10	4	6	16
50015120	50115120	50215120	1.5	12	4	6	16
50020040	50120040	50220040	2	4	4	6	16
50020080	50120080	50220080	2	8	4	6	15
50020100	50120100	50220100	2	10	4	6	15
50020120	50120120	50220120	2	12	4	6	15
50020150	50120150	50220150	2	15	4	6	15
50020220	50120220	50220220	2	22	4	6	15
50025040	50125040	50225040	2.5	4	4	6	16
50025080	50125080	50225080	2.5	8	4	6	15
50025100	50125100	50225100	2.5	10	4	6	15
50025120	50125120	50225120	2.5	12	4	6	15
50025150	50125150	50225150	2.5	15	4	6	15
50025220	50125220	50225220	2.5	22	4	6	15
50030040*	50130040	50230040*	3	4	4	6	16
50030080	50130080	50230080*	3	8	4	6	15
50030100*	50130100	50230100*	3	10	4	6	15
50030120	50130120	50230120*	3	12	4	6	15
50030150	50130150	50230150*	3	15	4	6	15
50030220*	50130220	50230220*	3	22	4	6	15
50035040*	50135040	50235040*	3.5	4	4	6	16
50035080*	50135080	50235080*	3.5	8	4	6	15
50035100*	50135100	50235100*	3.5	10	4	6	15
50035120*	50135120	50235120*	3.5	12	4	6	15
50040040*	50140040	50240040*	4	4	4	6	16
50040080*	50140080	50240080*	4	8	4	6	15
50040100*	50140100	50240100*	4	10	4	6	15
50040120*	50140120	50240120*	4	12	4	6	15
50050040*	50150040	50250040*	5	4	4	6	14
50050080*	50150080	50250080*	5	8	4	6	13
50050100*	50150100	50250100*	5	10	4	6	13
50050120*	50150120	50250120*	5	12	4	6	13

*Please consult your Bard Representative for local availability

Angioplasty Catheters

ULTRAVERSE™ RX PTA Dilatation Catheter

- CHECKER™ Flex Points
- ULTRA-CROSS™ Dual Layer Hydrophilic Coating
- .014" Guide wire compatible



Shaft Length		Balloon Size		Sheath Size (F)	Nominal Pressure (atm)	RBP (atm)
150cm	200cm	Diameter (mm)	Length (cm)			
U41501Q1HRX		1.25	15	4	6	16
U41501Q2RX		1.25	20	4	6	16
U41501Q4RX		1.25	40	4	6	16
U41501H1HRX		1.5	15	4	6	16
U41501H2RX		1.5	20	4	6	16
U41501H4RX		1.5	40	4	6	16
U41501H8RX		1.5	80	4	6	16
U41501H12RX		1.5	120	4	6	16
U415022RX		2	20	4	6	16
U415024RX	U420024RX	2	40	4	6	16
U415028RX		2	80	4	6	15
	U4200210RX	2	100	4	6	15
U4150212RX		2	120	4	6	15
U4150215RX		2	150	4	6	15
U4150220RX		2	200	4	6	15
U4150230RX		2	300	4	6	15
U41502H2RX		2.5	20	4	6	16
U41502H4RX	U42002H4RX	2.5	40	4	6	16
U41502H8RX		2.5	80	4	6	15
	U42002H10RX	2.5	100	4	6	15
U41502H12RX		2.5	120	4	6	15
U41502H20RX		2.5	200	4	6	15
U41502H30RX		2.5	300	4	6	15
U415032RX		3	20	4	6	16
U415034RX	U420034RX	3	40	4	6	16
U415038RX		3	80	4	6	15
	U4200310RX	3	100	4	6	15
U4150312RX		3	120	4	6	15
U4150315RX		3	150	4	6	15
U4150320RX	U4200320RX	3	200	4	6	15
U4150330RX		3	300	4	6	15

Angioplasty Catheters

ULTRAVERSE™ RX PTA Dilatation Catheter

- CHECKER™ Flex Points
- ULTRA-CROSS™ Dual Layer Hydrophilic Coating
- .014" Guide wire compatible



Shaft Length		Balloon Size		Sheath Size (F)	Nominal Pressure (atm)	RBP (atm)
150cm	200cm	Diameter (mm)	Length (cm)			
U41503H4RX	U42003H4RX	3.5	40	4	6	16
U41503H8RX		3.5	80	4	6	15
	U42003H10RX	3.5	100	4	6	15
U41503H12RX		3.5	120	4	6	15
U41503H20RX		3.5	200	4	6	15
U41503H30RX		3.5	300	4	6	15
U415042RX		4	20	4	6	16
U415044RX		4	40	4	6	16
U415048RX		4	80	4	6	15
U4150412RX		4	120	4	6	15
U4150415RX		4	150	5	6	15
U4150420RX		4	200	5	6	15
U4150430RX		4	300	5	6	15
U415054RX		5	40	5	6	14
U415058RX		5	80	5	6	13
U4150512RX		5	120	5	6	13
U4150515RX		5	150	5	6	13
U4150520RX		5	200	5	6	13
U4150530RX		5	300	5	6	13
U415064RX		6	40	5	6	14
U415074RX		7	40	5	6	12

Angioplasty Catheters

LITEPAC™ RX PTA Dilatation Catheter

- Rapid exchange
- QUADFLEX™ balloon material
- SiLX® Coating
- .014" Guide wire compatible



Shaft Length		Balloon Size		Sheath Size (F)	Nominal Pressure (atm)	RBP (atm)
150cm	155cm	Diameter (mm)	Length (cm)			
68202117		2	1.5	4	6	16
68202118		2	2	4	6	16
68202119		2	3	4	6	16
68202120		2	4	4	6	16
68202121		2	5	4	6	16
68202122		2	6	4	6	16
68202123		2	8	4	6	15
68202124		2	10	4	6	15
68202125		2	12	4	6	15
	68202144	2	15	4	6	15
	68202146	2	22	4	6	15
68202126		2.5	1.5	4	6	16
68202127		2.5	2	4	6	16
68202128		2.5	3	4	6	16
68202129		2.5	4	4	6	16
68202130		2.5	5	4	6	16
68202131		2.5	6	4	6	16
68202132		2.5	8	4	6	15
68202133		2.5	10	4	6	15
68202134		2.5	12	4	6	15
	68202147	2.5	15	4	6	15
	68202149	2.5	22	4	6	15
68202075		3	1.5	4	6	16
68202080		3	2	4	6	16
68202085		3	3	4	6	16
68202090		3	4	4	6	16
68202095		3	5	4	6	16
68202100		3	6	4	6	16
68202105		3	8	4	6	15
68202109		3	10	4	6	15
68202113		3	12	4	6	15
	68202150	3	15	4	6	15
	68202152	3	22	4	6	15
68202135		3.5	1.5	4	6	16
68202136		3.5	2	4	6	16
68202137		3.5	3	4	6	16
68202138		3.5	4	4	6	16
68202139		3.5	5	4	6	16
68202140		3.5	6	4	6	16
68202141		3.5	8	4	6	15
68202142		3.5	10	4	6	15
68202143		3.5	12	4	6	15
	68202153	3.5	15	4	6	15
	68202155	3.5	22	4	6	15

Angioplasty Catheters

LITEPAC™ RX PTA Dilatation Catheter

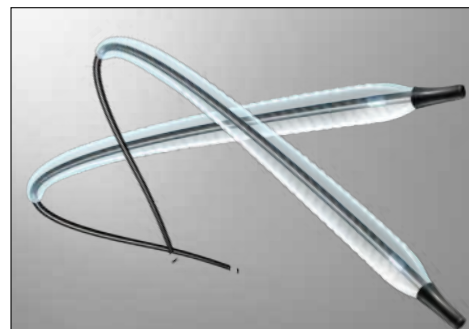
- Rapid exchange
- QUADFLEX™ balloon material
- SiLX® Coating
- .014" Guide wire compatible

Shaft Length		Balloon Size		Sheath Size (F)	Nominal Pressure (atm)	RBP (atm)
150cm	155cm	Diameter (mm)	Length (cm)			
68202076		4	1.5	4	6	16
68202081		4	2	4	6	16
68202086		4	3	4	6	16
68202091		4	4	4	6	16
68202096		4	5	4	6	16
68202101		4	6	4	6	16
68202106		4	8	4	6	15
68202110		4	10	4	6	15
68202114		4	12	4	6	15
	68202156	4	15	4	6	15
	68202158	4	22	4	6	15
68202077		5	1.5	4	6	14
68202082		5	2	4	6	14
68202087		5	3	4	6	14
68202092		5	4	4	6	14
68202097		5	5	4	6	14
68202102		5	6	4	6	14
68202107		5	8	4	6	13
68202111		5	10	4	6	13
68202115		5	12	4	6	13
68202164		5.5	2	4	6	14
68202078		6	1.5	5	6	14
68202083		6	2	5	6	14
68202088		6	3	5	6	14
68202093		6	4	5	6	14
68202098		6	5	5	6	14
68202103		6	6	5	6	14
68202079		7	1.5	5	6	12
68202084		7	2	5	6	12
68202089		7	3	5	6	12
68202094		7	4	5	6	12
68202099		7	5	5	6	12
68202104		7	6	5	6	12

Angioplasty Catheters

ULTRAVERSE® 018 PTA Dilatation Catheter

- CHECKER™ Flex Points
- ULTRA-CROSS™ Dual Layer Hydrophilic Coating
- .018" Guide wire compatible



Shaft Length		Balloon Size		Sheath Size (F)	Nominal Pressure (atm)	RBP (atm)
75cm	130cm	Diameter (mm)	Length (cm)			
U87522	U813022	2	2	4	6	16
U87524	U813024	2	4	4	6	16
	U813026	2	6	4	6	16
	U813028	2	8	4	6	15
U875210	U8130210	2	10	4	6	15
U875212	U8130212	2	12	4	6	15
U875215	U8130215	2	15	4	6	15
U875222	U8130222	2	22	4	6	15
	U8130230*	2	30	4	6	15
U8752H2	U81302H2	2.5	2	4	6	16
U8752H4	U81302H4	2.5	4	4	6	16
	U81302H6	2.5	6	4	6	16
	U81302H8	2.5	8	4	6	15
U8752H10	U81302H10	2.5	10	4	6	15
	U81302H12	2.5	12	4	6	15
U8752H15	U81302H15	2.5	15	4	6	15
	U81302H22	2.5	22	4	6	15
	U81302H30*	2.5	30	4	6	15
U87532	U813032	3	2	4	6	16
U87534	U813034	3	4	4	6	16
	U813036	3	6	4	6	16
	U813038	3	8	4	6	15
U875310	U8130310	3	10	4	6	15
U875312	U8130312	3	12	4	6	15
U875315	U8130315	3	15	4	6	15
U875322	U8130322	3	22	4	6	15
	U8130330*	3	30	4	6	15
U8753H2	U81303H2	3.5	2	4	6	16
U8753H4	U81303H4	3.5	4	4	6	16
	U81303H6	3.5	6	4	6	16
	U81303H8	3.5	8	4	6	15
U8753H10	U81303H10	3.5	10	4	6	15
	U81303H12	3.5	12	4	6	15
U8753H15	U81303H15	3.5	15	4	6	15
	U81303H22	3.5	22	4	6	15
	U81303H30*	3.5	30	4	6	15

Angioplasty Catheters

ULTRAVERSE® 018 PTA Dilatation Catheter

- CHECKER™ Flex Points
- ULTRA-CROSS™ Dual Layer Hydrophilic Coating
- .018" Guide wire compatible

Shaft Length		Balloon Size		Sheath Size (F)	Nominal Pressure (atm)	RBP (atm)
75cm	130cm	Diameter (mm)	Length (cm)			
U87542	U813042	4	2	4	6	16
U87544	U813044	4	4	4	6	16
U87546	U813046	4	6	4	6	16
	U813048	4	8	4	6	15
U875410	U8130410	4	10	4	6	15
U875412	U8130412	4	12	4	6	15
U875415	U8130415	4	15	5	6	15
U875422	U8130422	4	22	5	6	15
	U8130430*	4	30	4	6	15
U87552	U813052	5	2	5	6	14
U87554	U813054	5	4	5	6	14
U87556	U813056	5	6	5	6	14
	U813058	5	8	5	6	13
U875510	U8130510	5	10	5	6	13
U875512	U8130512	5	12	5	6	13
U875515	U8130515	5	15	5	6	13
U875522	U8130522	5	22	5	6	13
	U8130530*	5	30	4	6	13
U87562	U813062	6	2	5	6	14
U87564	U813064	6	4	5	6	14
U87566	U813066	6	6	5	6	14
	U813068	6	8	5	6	12
U875610	U8130610	6	10	5	6	12
U875612	U8130612	6	12	5	6	12
U875615	U8130615	6	15	5	6	12
U875622	U8130622	6	22	5	6	12
	U8130630*	6	30	4	6	12
U87574	U813074	7	4	5	6	12
U87584	U813084	8	4	6	6	12
U87594	U813094	9	4	6	6	11

Angioplasty Catheters

BANTAM™ PTA Dilatation Catheter

- QUADFLEX™ balloon material
- SILX® Coating
- .018" Guide wire compatible



Shaft Length					Balloon Size		Sheath Size (F)	Nominal Pressure (atm)	RBP (atm)
75cm	90cm	130cm	150cm	180cm	Diameter (mm)	Length (cm)			
48402020*		48502020			2	2	4	6	16
48404020*	48804020	48504020		48004020*	2	4	4	6	16
48406020*		48506020			2	6	4	6	16
48408020*	48808020	48508020		48008020*	2	8	4	6	15
48410020*		48510020		48010020*	2	10	4	6	15
48412020*	48812020	48512020			2	12	4	6	15
48415020*		48515020			2	15	4	6	15
48422020*		48522020			2	22	4	6	15
		48528020			2	28	4	6	15
48402025*		48502025			2.5	2	4	6	16
48404025*	48804025	48504025		48004025*	2.5	4	4	6	16
48406025*		48506025			2.5	6	4	6	16
48408025*	48808025	48508025		48008025*	2.5	8	4	6	15
48410025*		48510025		48010025	2.5	10	4	6	15
48412025*	48812025	48512025			2.5	12	4	6	15
48415025*		48515025			2.5	15	4	6	15
48422025*	48822025	48522025			2.5	22	4	6	15
		48528025			2.5	28	4	6	15
48402030*		48502030			3	2	4	6	16
48404030*	48804030	48504030		48004030*	3	4	4	6	16
48406030*		48506030			3	6	4	6	16
48408030*	48808030	48508030		48008030*	3	8	4	6	15
48410030*		48510030		48010030	3	10	4	6	15
48412030*	48812030	48512030			3	12	4	6	15
48415030*		48515030			3	15	4	6	15
48422030*	48822030	48522030			3	22	4	6	15
		48528030			3	28	4	6	15
48402035*		48502035			3.5	2	4	6	16
48404035*		48504035		48004035*	3.5	4	4	6	16
48406035*		48506035			3.5	6	4	6	16
48408035*		48508035		48008035*	3.5	8	4	6	15
48410035*		48510035		48010035*	3.5	10	4	6	15
48412035*		48512035			3.5	12	4	6	15
48415035*		48515035			3.5	15	4	6	15
48422035*		48522035			3.5	22	4	6	15
		48528035			3.5	28	4	6	15

*Please consult your Bard Representative for local availability

Angioplasty Catheters

BANTAM™ PTA Dilatation Catheter

- QUADFLEX™ balloon material
- SiLX® Coating
- .018" Guide wire compatible

Shaft Length					Balloon Size		Sheath Size (F)	Nominal Pressure (atm)	RBP (atm)
75cm	90cm	130cm	150cm	180cm	Diameter (mm)	Length (cm)			
48402040	48502040				4	2	4	6	16
48404040	48504040			48004040*	4	4	4	6	16
48406040	48506040				4	6	4	6	16
48408040	48508040			48008040*	4	8	4	6	15
48410040	48510040			48010040*	4	10	4	6	15
48412040	48512040				4	12	4	6	15
48415040	48515040				4	15	4	6	15
48422040	48522040				4	22	4	6	15
	48528040				4	28	4	6	15
48402050	48502050				5	2	4	6	14
48404050	48504050	47904050*			5	4	4	6	14
48406050	48506050				5	6	4	6	14
48408050	48508050	47908050*			5	8	4	6	13
48410050	48510050	47910050*			5	10	4	6	13
48412050	48512050	47912050*			5	12	4	6	13
48415050	48515050				5	15	4	6	13
48422050	48522050				5	22	4	6	13
	48528050				5	28	4	6	13
48402060	48502060				6	2	5	6	14
48404060	48504060	47904060*			6	4	5	6	14
48406060	48506060				6	6	5	6	14
48408060	48508060	47908060*			6	8	5	6	12
48410060	48510060	47910060*			6	10	5	6	12
48412060	48512060	47912060*			6	12	5	6	12
48415060	48515060				6	15	5	6	12
48422060	48522060				6	22	5	6	12
	48528060				6	28	5	6	12
48404070*	48504070				7	4	5	6	12
48406070*	48506070				7	6	5	6	12
48404080*	48504080				8	4	6	6	12
48406080*	48506080				8	6	6	6	12
48404090*	48504090				9	4	6	6	11
48406090*	48506090				9	6	6	6	11

*Please consult your Bard Representative for local availability

Angioplasty Catheters

CONQUEST® PTA Dilatation Catheter

- High pressure
- Indicated for vascular access
- .035" Guide wire compatible



Shaft Length			Balloon Size		Sheath Size (F)	Nominal Pressure (atm)	RBP (atm)
50cm	75cm	120cm	Diameter (mm)	Length (cm)			
CQ5052	CQ7552		5	2	6	8	30
CQ5054	CQ7554	CQ12054*	5	4	6	8	30
CQ5058	CQ7558		5	8	6	8	27
CQ5062	CQ7562	CQ12062*	6	2	6	8	30
CQ5064	CQ7564	CQ12064*	6	4	6	8	30
CQ5068	CQ7568		6	8	6	8	27
CQ5072	CQ7572	CQ12072*	7	2	6	8	30
CQ5074	CQ7574	CQ12074*	7	4	6	8	30
CQ5076	CQ7576		7	6	6	8	27
CQ5078	CQ7578		7	8	6	8	27
CQ5082	CQ7582	CQ12082*	8	2	6	8	27
CQ5083	CQ7583		8	3	6	8	27
CQ5084	CQ7584	CQ12084*	8	4	6	8	27
CQ5086	CQ7586		8	6	6	8	25
CQ5088	CQ7588		8	8	6	8	25
CQ5092	CQ7592		9	2	7	8	26
CQ5094	CQ7594	CQ12094*	9	4	7	8	26
	CQ75102		10	2	7	8	24
	CQ75104	CQ120104*	10	4	7	8	24
	CQ75122		12	2	8	8	20
	CQ75124		12	4	8	8	20

*Please consult your Bard Representative for local availability

Angioplasty Catheters

CONQUEST® 40 PTA Dilatation Catheter

- Up to 40 ATM Rated Burst Pressure
- 4-12 Diameters
- 2-10 cm lengths
- New Smaller Tapered Tip
- New Tighter fiber pattern
- Delivers maximum dilatation forces to areas of most resistance
- True to size 8 ATM to 40 ATM – Allows higher pressures without vessel over expansion
- Stent/Stent Graft Indication



Shaft Length		Balloon Size		Sheath Size (F)	Nominal Pressure (atm)	RBP (atm)
50cm	75cm	Diameter (mm)	Length (cm)			
CQF5042	CQF7542	4	2	6	8	40
CQF5044	CQF7544	4	4	6	8	40
CQF5046	CQF7546	4	6	6	8	40
CQF5048	CQF7548	4	8	6	8	40
CQF50410	CQF75410	4	10	6	8	40
CQF5052	CQF7552	5	2	6	8	40
CQF5054	CQF7554	5	4	6	8	40
CQF5056	CQF7556	5	6	6	8	40
CQF5058	CQF7558	5	8	6	8	40
CQF50510	CQF7510	5	10	6	8	40
CQF5062	CQF7562	6	2	6	8	40
CQF5064	CQF7564	6	4	6	8	40
CQF5066	CQF7566	6	6	6	8	40
CQF5068	CQF7568	6	8	6	8	40
CQF50610	CQF75610	6	10	6	8	40
CQF5072	CQF7572	7	2	6	8	40
CQF5074	CQF7574	7	4	6	8	40
CQF5076	CQF7576	7	6	6	8	40
CQF5078	CQF7578	7	8	6	8	40
CQF50710	CQF75710	7	10	6	8	40
CQF5082	CQF7582	8	2	6	8	40
CQF5083	CQF7583	8	3	6	8	40
CQF5084	CQF7584	8	4	6	8	40
CQF5086	CQF7586	8	6	6	8	35
CQF5088	CQF7588	8	8	6	8	35
CQF50810	CQF75810	8	10	6	8	35
CQF5092	CQF7592	9	2	7	8	35
CQF5094	CQF7594	9	4	7	8	35
CQF5098	CQF7598	9	8	7	8	35
	CQF75102	10	2	7	8	35
	CQF75104	10	4	7	8	35
	CQF75108	10	8	7	8	35
	CQF75122	12	2	8	8	35
	CQF75124	12	4	8	8	35

Angioplasty Catheters

BANTAM™ Florian PTA Catheter

- QUADFLEX™ balloon material
- SiLX® Coating
- 45cm shaft for easy dialysis dilatation
- .018" Guide wire compatible



Shaft Length	Balloon Size		Sheath Size (F)	Nominal Pressure (atm)	RBP (atm)
	Diameter (mm)	Length (cm)			
45cm					
47804050	5	4	4	6	14
47804060	6	4	5	6	14
47804070	7	4	5	6	12

Angioplasty Catheters

ATLAS® Gold PTA Dilatation Catheter

- Large diameter
- Flexibility to deliver either low or high pressure
- Short shoulders
- .035" Guide wire compatible



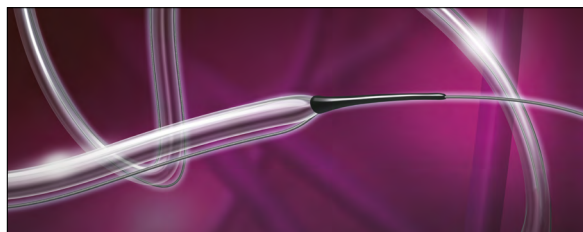
Shaft Length		Balloon Size		Sheath Size (F)	Nominal Pressure (atm)	RBP (atm)
80cm	120cm	Diameter (mm)	Length (cm)			
ATG80122*	ATG120122*	12	2	7	6	18
ATG80124*	ATG120124*	12	4	7	6	18
ATG80126*	ATG120126*	12	6	7	6	18
ATG50142*	ATG120142*	14	2	7	6	18
ATG80144*	ATG120144*	14	4	7	6	18
ATG80146*	ATG120146*	14	6	8	6	18
ATG80162*	ATG120162*	16	2	8	6	18
ATG80164*	ATG120164*	16	4	8	6	18
ATG80166*	ATG120166*	16	6	8	6	16
ATG80182*	ATG120182*	18	2	8	6	16
ATG80184*	ATG120184*	18	4	8	6	16
ATG80186*	ATG120186*	18	6	9	6	16
ATG80202*	ATG120202*	20	2	9	6	16
ATG80204*	ATG120204*	20	4	9	6	16
ATG80222*	ATG120222*	22	2	10	4	14
ATG80224*	ATG120224*	22	4	10	4	14
ATG80242*	ATG120242*	24	2	10	4	14
ATG80244*	ATG120244*	24	4	10	4	14
ATG80262*	ATG120262*	26	2	12	4	12
ATG80264*	ATG120264*	26	4	12	4	12

*Please consult your Bard Representative for local availability

Angioplasty Catheters

VASCUTRAK™ PTA Dilatation Catheter

- Focused Force for low pressure dilatation
- Short Rapid Exchange



Shaft Length 140cm - RX	Balloon Size		Guide Wire (inch)	Sheath Size (F)	Nominal Pressure (atm)	RBP (atm)
	Diameter (mm)	Length (cm)				
V142020	2	2	.014	5	8	12
V142040	2	4	.014	5	8	12
V142060	2	6	.014	5	8	12
V142080	2	8	.014	5	8	12
V1420100	2	10	.014	5	8	12
V1420120	2	12	.014	5	8	12
V1420150	2	15	.014	5	8	12
V1420200	2	20	.014	5	8	12
V1420250	2	25	.014	5	8	12
V1420300	2	30	.014	5	8	12
V142520	2.5	2	.014	5	8	12
V142540	2.5	4	.014	5	8	12
V142560	2.5	6	.014	5	8	12
V142580	2.5	8	.014	5	8	12
V1425100	2.5	10	.014	5	8	12
V1425120	2.5	12	.014	5	8	12
V1425150	2.5	15	.014	5	8	12
V1425200	2.5	20	.014	5	8	12
V1425250	2.5	25	.014	5	8	12
V1425300	2.5	30	.014	5	8	12
V143020	3	2	.014	5	8	12
V143040	3	4	.014	5	8	12
V143060	3	6	.014	5	8	12
V143080	3	8	.014	5	8	12
V1430100	3	10	.014	5	8	12
V1430120	3	12	.014	5	8	12
V1430150	3	15	.014	5	8	12
V1430200	3	20	.014	5	8	12
V1430250	3	25	.014	5	8	12
V1430300	3	30	.014	5	8	12
V143520	3.5	2	.014	5	8	12
V143540	3.5	4	.014	5	8	12
V143560	3.5	6	.014	5	8	12
V143580	3.5	8	.014	5	8	12
V1435100	3.5	10	.014	5	8	12
V1435120	3.5	12	.014	5	8	12
V1435150	3.5	15	.014	5	8	12
V1435200	3.5	20	.014	5	8	12
V1435250	3.5	25	.014	5	8	12
V1435300	3.5	30	.014	5	8	12

Angioplasty Catheters

VASCUTRAK™ PTA Dilatation Catheter

- Focused Force for low pressure dilatation
- Short Rapid Exchange

Shaft Length		Balloon Size		Guide Wire (inch)	Sheath Size (F)	Nominal Pressure (atm)	RBP (atm)
140cm - RX	80cm - RX	Diameter (mm)	Length (cm)				
V184020	V184020S	4	2	.018	5	6	12
V184040	V184040S	4	4	.018	5	6	12
V184060	V184060S	4	6	.018	5	6	12
V184080	V184080S	4	8	.018	5	6	12
V1840100	V1840100S	4	10	.018	5	6	12
V1840120		4	12	.018	5	6	12
V1840150	V1840150S	4	15	.018	5	6	12
V1840200	V1840200S	4	20	.018	5	6	12
V1840250		4	25	.018	5	6	12
V1840300	V1840300S	4	30	.018	5	6	12
V185020	V185020S	5	2	.018	6	6	12
V185040	V185040S	5	4	.018	6	6	12
V185060	V185060S	5	6	.018	6	6	12
V185080	V185080S	5	8	.018	6	6	12
V1850100	V1850100S	5	10	.018	6	6	12
V1850120		5	12	.018	6	6	12
V1850150	V1850150S	5	15	.018	6	6	12
V1850200	V1850200S	5	20	.018	6	6	12
V1850250		5	25	.018	6	6	12
V1850300	V1850300S	5	30	.018	6	6	12
V186020	V186020S	6	2	.018	7	6	12
V186040	V186040S	6	4	.018	7	6	12
V186060	V186060S	6	6	.018	7	6	12
V186080	V186080S	6	8	.018	7	6	12
V1860100	V1860100S	6	10	.018	7	6	12
V1860120		6	12	.018	7	6	12
V1860150	V1860150S	6	15	.018	7	6	12
V1860200	V1860200S	6	20	.018	7	6	12
V1860250		6	25	.018	7	6	12
V1860300	V1860300S	6	30	.018	7	6	12
V187020	V187020S	7	2	.018	7	6	12
V187040	V187040S	7	4	.018	7	6	12
V187060	V187060S	7	6	.018	7	6	12
V187080	V187080S	7	8	.018	7	6	12
V1870100	V1870100S	7	10	.018	7	6	12
V1870120		7	12	.018	7	6	12
V1870150		7	15	.018	7	6	12
V1870200		7	20	.018	7	6	12
V1870250		7	25	.018	7	6	12
V1870300		7	30	.018	7	6	12

Angioplasty Catheters

REEKROSS™ PTA Dilatation Catheter

- Special CTO PTA catheter for antegrade approach
- QUADFLEX™ balloon material
- SiLX® coating
- Available as .035", .018" and .014" versions



Shaft Length		Balloon Size		Guide Wire (inch)	Sheath Size (F)	Nominal Pressure (atm)	RBP (atm)
75cm	110cm	Diameter (mm)	Length (cm)				
	37722040*	2	4	.035	5	6	16
	37722080*	2	8	.035	5	6	15
	37722120*	2	12	.035	5	6	15
	37722150*	2	15	.035	5	6	15
	37722220*	2	22	.035	5	6	15
	37722540*	2.5	4	.035	5	6	16
	37722580*	2.5	8	.035	5	6	15
	37722502*	2.5	12	.035	5	6	15
	37722503*	2.5	15	.035	5	6	15
	37722505*	2.5	22	.035	5	6	15
37713040*	37723040	3	4	.035	5	6	16
37713080*	37723080	3	8	.035	5	6	15
37713120*	37723120	3	12	.035	5	6	15
37713150*	37723150	3	15	.035	5	6	15
37713220*	37723220	3	22	.035	5	6	15
37713540*	37723540*	3.5	4	.035	5	6	16
37713580*	37723580*	3.5	8	.035	5	6	15
37713502*	37723502*	3.5	12	.035	5	6	15
37713503*	37723503*	3.5	15	.035	5	6	15
37713505*	37723505*	3.5	22	.035	5	6	15
37714040	37724040	4	4	.035	5	6	16
37714080	37724080	4	8	.035	5	6	15
37714120	37724120	4	12	.035	5	6	15
37714150	37724150	4	15	.035	5	6	15
37714220	37724220	4	22	.035	5	6	15
37715040	37725040	5	4	.035	5	6	14
37715120	37725120	5	12	.035	5	6	13
37715220		5	22	.035	5	6	13
37716040		6	4	.035	6	6	13

*Please consult your Bard Representative for local availability

Angioplasty Catheters

REEKROSS™ PTA Dilatation Catheter

- Special CTO PTA catheter for antegrade approach
- QUADFLEX™ balloon material
- SiLX® coating
- Available as .035", .018" and .014" versions

Shaft Length 130cm	Balloon Size		Guide Wire (inch)	Sheath Size (F)	Nominal Pressure (atm)	RBP (atm)
	Diameter (mm)	Length (cm)				
37920040	2	4	.018	4	6	16
37920080	2	8	.018	4	6	15
37920120	2	12	.018	4	6	15
37920150	2	15	.018	4	6	15
37920220	2	22	.018	4	6	15
37925040	2.5	4	.018	4	6	16
37925080	2.5	8	.018	4	6	15
37925120	2.5	12	.018	4	6	15
37925150	2.5	15	.018	4	6	15
37925220	2.5	22	.018	4	6	15
37930040	3	4	.018	4	6	16
37930080	3	8	.018	4	6	15
37930120	3	12	.018	4	6	15
37930150	3	15	.018	4	6	15
37930220	3	22	.018	4	6	15
37935040	3.5	4	.018	4	6	16
37935080	3.5	8	.018	4	6	15
37935120	3.5	12	.018	4	6	15
37935150	3.5	15	.018	4	6	15
37935220	3.5	22	.018	4	6	15
37940040	4	4	.018	4	6	16
37940080	4	8	.018	4	6	15
37940120	4	12	.018	4	6	15
37940150	4	15	.018	4	6	15
37940220	4	22	.018	4	6	15
37950040	5	4	.018	4	6	14
37950080	5	8	.018	4	6	13
37950120	5	12	.018	4	6	13
37950150	5	15	.018	4	6	13
37950220	5	22	.018	4	6	13

Angioplasty Catheters

REEKROSS™ PTA Dilatation Catheter

- Special CTO PTA catheter for antegrade approach
- QUADFLEX™ balloon material
- SiLX® coating
- Available as .035", .018" and .014" versions

Shaft Length 140cm	Balloon Size		Guide Wire (inch)	Sheath Size (F)	Nominal Pressure (atm)	RBP (atm)
	Diameter (mm)	Length (cm)				
38020040	2	4	.014	4	6	16
38020080	2	8	.014	4	6	15
38020120	2	12	.014	4	6	15
38020150	2	15	.014	4	6	15
38020220	2	22	.014	4	6	15
38025040	2.5	4	.014	4	6	16
38025080	2.5	8	.014	4	6	15
38025120	2.5	12	.014	4	6	15
38025150	2.5	15	.014	4	6	15
38025220	2.5	22	.014	4	6	15
38030040	3	4	.014	4	6	16
38030080	3	8	.014	4	6	15
38030120	3	12	.014	4	6	15
38030150	3	15	.014	4	6	15
38030220	3	22	.014	4	6	15
38035040	3.5	4	.014	4	6	16
38035080	3.5	8	.014	4	6	15
38035120	3.5	12	.014	4	6	15
38035150	3.5	15	.014	4	6	15
38035220	3.5	22	.014	4	6	15
38040040	4	4	.014	4	6	16
38040080	4	8	.014	4	6	15
38040120	4	12	.014	4	6	15
38040150	4	15	.014	4	6	15
38040220	4	22	.014	4	6	15
38050040	5	4	.014	4	6	14
38050080	5	8	.014	4	6	13
38050120	5	12	.014	4	6	13
38050150	5	15	.014	4	6	13
38050220	5	22	.014	4	6	13

Angioplasty Catheters

REEFLEX™ PTA Dilatation Catheter

- Special CTO PTA catheter for contralateral approach
- QUADFLEX™ balloon material
- SiLX® coating
- .035" guide wire compatible



Shaft Length 110cm	Balloon Size		Sheath Size (F)	Nominal Pressure (atm)	RBP (atm)
	Diameter (mm)	Length (cm)			
37733040*	3	4	5	6	16
37733080*	3	8	5	6	15
37733120*	3	12	5	6	15
37733150*	3	15	5	6	15
37733220*	3	22	5	6	15
37733540*	3.5	4	5	6	16
37733580*	3.5	8	5	6	15
37733502*	3.5	12	5	6	15
37733503*	3.5	15	5	6	15
37733505*	3.5	22	5	6	15
37734040	4	4	5	6	16
37734080	4	8	5	6	15
37734120	4	12	5	6	15
37734150	4	15	5	6	15
37734220	4	22	5	6	15
37735040	5	4	5	6	14
37735120	5	12	5	6	13
37735220	5	22	5	6	13

*Please consult your Bard Representative for local availability

Drug Coated Balloons

LUTONIX® 035 Drug Coated Balloon - SFA

- Paclitaxel coated balloon
- .035" guide wire compatible
- 130cm & 100cm shaft



Shaft Length		Balloon Size		Sheath Size (F)	Nominal Pressure (atm)	RBP (atm)
130cm	100cm	Diameter (mm)	Length (cm)			
9004400043	9020410 400040	4	4	5	6	12
9004400063	9020410 400060	4	6	5	6	12
9020413400080	9020410 400080	4	8	5	6	12
9004400103	9020410 400100	4	10	5	6	12
9020413400120	9020410 400120	4	12	5	6	12
9020413400150	9020410 400150	4	15	5	6	12
9004500043	9020410 500040	5	4	5	6	12
9004500063	9020410 500060	5	6	5	6	12
9020413500080	9020410 500080	5	8	5	6	12
9004500103	9020410 500100	5	10	5	6	12
9020413500120	9020410 500120	5	12	5	6	12
9020413500150	9020410 500150	5	15	5	6	12
9004600043	9020410 600040	6	4	6	7	12
9004600063	9020410 600060	6	6	6	7	12
9020413600080	9020410 600080	6	8	6	7	12
9004600103	9020410 600100	6	10	6	7	12
9020413600120	9020410 600120	6	12	6	7	12
9020413600150	9020410 600150	6	15	6	7	12

Drug Coated Balloons

LUTONIX® 035 Drug Coated Balloon - SFA

- Paclitaxel coated balloon
- .035" guide wire compatible
- 130cm & 100cm shaft
- 5F & GEOALIGN®



Shaft Length		Balloon Size		Sheath Size (F)	Nominal Pressure (atm)	RBP (atm)
100cm	130cm	Diameter (mm)	Length (cm)			
9090410 400040	9090413 400040	4	4	5	6	12
9090410 400060	9090413 400060	4	6	5	6	12
9090410 400080	9090413 400080	4	8	5	6	12
9090410 400100	9090413 400100	4	10	5	6	12
9090410 400120	9090413 400120	4	12	5	6	12
9090410 400150	9090413 400150	4	15	5	6	12
9090410 500040	9090413 500040	5	4	5	6	12
9090410 500060	9090413 500060	5	6	5	6	12
9090410 500080	9090413 500080	5	8	5	6	12
9090410 500100	9090413 500100	5	10	5	6	12
9090410 500120	9090413 500120	5	12	5	6	12
9090410 500150	9090413 500150	5	15	5	6	12
9090410 600040	9090413 600040	6	4	5	7	12
9090410 600060	9090413 600060	6	6	5	7	12
9090410 600080	9090413 600080	6	8	5	7	12
9090410 600100	9090413 600100	6	10	5	7	12
9090410 600120	9090413 600120	6	12	5	7	12
9090410 600150	9090413 600150	6	15	5	7	12

Drug Coated Balloons

LUTONIX® 035 Drug Coated Balloon - AV Access

- Paclitaxel coated balloon
- .035" guide wire compatible

Shaft Length	Balloon Size		Sheath Size (F)	RBP (atm)
	Diameter (mm)	Length (cm)		
75cm				
9020475 500040	5	4	5	12
9020475 500060	5	6	5	12
9020475 500080	5	8	5	12
9020457 600040	6	4	6	12
9020475 600060	6	6	6	12
9020475 600080	6	8	6	12
9020475 700040	7	4	7	12
9020475 700060	7	6	7	12
9020475 800040	8	4	7	12
9020475 800060	8	6	7	12
9020475 900040	9	4	7	11
9020475 900060	9	6	7	11
9020475 100040	10	4	8	11
9020475 100060	10	6	8	11
9020475 120040	12	4	10	10

Drug Coated Balloons

LUTONIX® 035 Drug Coated Balloon - AV Access

- Paclitaxel coated balloon
- .035" guide wire compatible
- 5F available until 7mm diameter
- GEOALIGN® available on all diameters

Shaft Length	Balloon Size		Sheath Size (F)	RBP (atm)
	Diameter (mm)	Length (cm)		
75cm				
9090475 500040	5	4	5	12
9090475 500060	5	6	5	12
9090475 500080	5	8	5	12
9090475 600040	6	4	5	12
9090475 600060	6	6	5	12
9090475 600080	6	8	5	12
9090475 700040	7	4	5	12
9090475 700060	7	6	5	12
9090475 800040	8	4	7	12
9090475 800060	8	6	7	12
9090475 900040	9	4	7	11
9090475 900060	9	6	7	11
9090475 100040	10	4	8	11
9090475 100060	10	6	8	11
9090475 120040	12	4	10	10

Drug Coated Balloons

LUTONIX® 014 Drug Coated Balloon - BTK

- Paclitaxel coated balloon
- .014" guide wire compatible
- 150cm shaft

Shaft Length 150cm	Balloon Size		Sheath Size (F)	Nominal Pressure (atm)	RBP (atm)
	Diameter (mm)	Length (cm)			
9020515 200040*	2	4	5	6	15
9020515 200080*	2	8	5	6	15
9020515 200120*	2	12	5	6	15
9020515 200150	2	15	5	6	15
9020515 250040*	2.5	4	5	6	15
9020515 250080*	2.5	8	5	6	15
9020515 250120*	2.5	12	5	6	15
9020515 250150	2.5	15	5	6	15
9020515 300040*	3	4	5	6	15
9020515 300080*	3	8	5	6	15
9020515 300100*	3	10	5	6	15
9020515 300120*	3	12	5	6	15
9020515 300150	3	15	5	6	15
9020515 350040*	3.5	4	5	6	15
9020515 350080*	3.5	8	5	6	15
9020515 350100*	3.5	10	5	6	15
9020515 350120*	3.5	12	5	6	15
9020515 350150	3.5	15	5	6	15
9020515 400040*	4	4	5	6	15
9020515 400080*	4	8	5	6	15
9020515 400120*	4	12	5	6	15
9020515 400150	4	15	5	6	15

*Please consult your Bard Representative for local availability

Inflation Devices

Accessories

CALIBER™ Inflation Device

- Larger 30cc barrel provides maximum vacuum for rapid and easy deflation
- 30ATM gauge for high-pressure applications
- Ergonomic design allows for comfortable handling



Product Code	Pack Quantity
CL3030	6/box

PRESTO™ Inflation Device

- Ergonomic Design Allows for Comfortable Handling
- Highest Pressure Inflation Device on the Market – Up to 40 ATM
- 30cc barrel
- Large Barrel Allows for Rapid and Easy Deflation

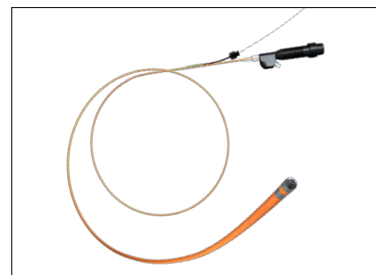


Product Code	Pack Quantity
ID4030	5/box

CTO Management

CROSSER™ CTO Recanalisation Catheter - Peripheral

- High-frequency, mechanical vibration
- Hydrophilic Coating
- Over the Wire (OTW), no wire versions and Rapid Exchange (RX)



Product Code	Type	Tip Configuration	Working Length (cm)	Guide Wire (inch)	Sheath Size (F)
CRES106	RX	Support-taper	106	.014	5
CREOS106	OTW	Support-taper	106	.014	5
CRE14S	RX	Support-taper	146	.014	5
CREO14S	OTW	Support-taper	146	.014	5
CRES6*	No Wire	-	-	-	5
CRES6106	No Wire	-	106	-	-

Generator



Product Code	Description
GEN200	CROSSER® Generator System Electronics

FLOWMATE® Injector



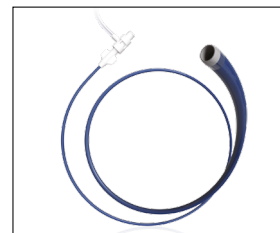
Product Code	Description
INJ100	FLOWMATE™ Injector

*Please consult your Bard Representative for local availability

CTO Management

USHER®

- For use with peripheral CROSSER® CTO Recanalisation Catheter 14P and 14S
- Supportive, thin wall technology
- Braided shaft



Product Code	Tip Configuration	Length (cm)	Sheath Size (F)
USH83T	Tapered	83	-
USH130T	Tapered	130	-
USH83AT	Angled Tapered	83	-
USH130AT	Angled Tapered	130	-

SideKick® Support Catheters

- For use with peripheral CROSSER® CTO Recanalisation Catheters S6
- Supportive, thin wall technology
- Braided shaft



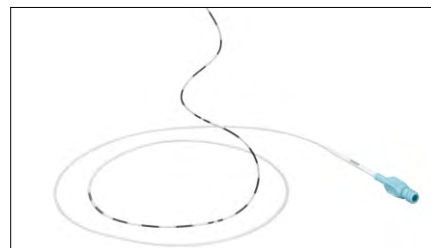
Product Code	Tip Configuration	Length (cm)	Sheath Size (F)
SD70	Straight	70	7
SD110	Straight	110	7
SD70T	Straight Tapered	70	7
SD110T	Straight Tapered	110	7
SD70A	Angled	70	7
SD110A	Angled	110	7
SD70AT	Angled Tapered	70	7
SD110AT	Angled Tapered	110	7

*Please consult your Bard Representative for local availability

CTO Management

SEEKER™ Crossing Support Catheter

- Hydrophilic Coating
- 1cm radiopaque markers positioned 1cm apart totaling 30cm

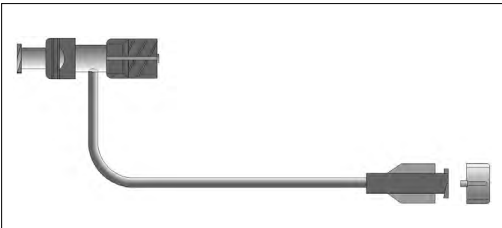


Product Code	Length (cm)	Guide Wire (inch)	Sheath Size (F)	Pack Quantity
SK6535M	65	.035	5	5
SK9018	90	.018	4	5
SK9035M	90	.035	5	5
SK13514	135	.014	4	5
SK13518	135	.018	4	5
SK13535M	135	.035	5	5
SK15014	150	.014	4	5
SK15018	150	.018	4	5
SK15035M	150	.035	5	5

Thrombus Management

Haemostatic valve

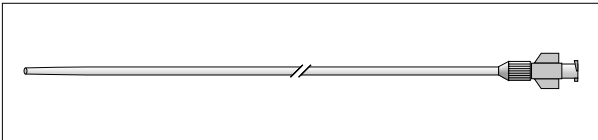
Fits all catheters up to 8.5F



Product Code	Pack Quantity
1900341*	10

Aspiration Catheter

• Single lumen



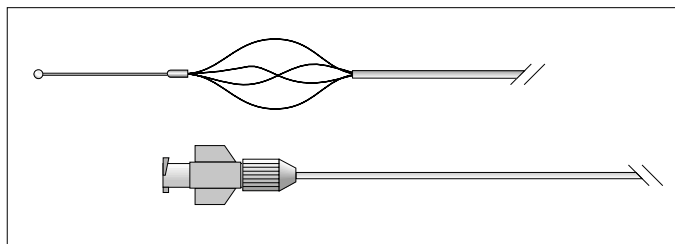
Product Code	Outer Diameter (F)	Inner Diameter (inch)	Length (cm)
21660010*	5	.049	100
21660020*	5	.049	120
21660030*	6	.056	100
21660040*	7	.065	90
21660050*	8	.074	80
21660060*	9	.084	60

*Please consult your Bard Representative for local availability

Thrombus Management

Fragmentation Basket

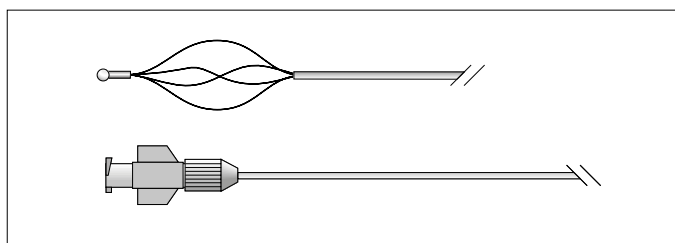
- With flexible ball-tip
- For use with Aspiration Catheter



Product Code	Diameter (F)	Length (cm)
21920010*	5	100
21920020*	5	120
21920030*	6	100
21920040*	7	90
21920050*	8	80

Fragmentation Basket

- With ball-tip
- For use with Aspiration Catheter



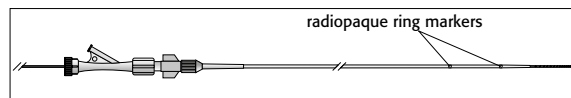
Product Code	Diameter (F)	Length (cm)
21922010*	5	100
21922030*	6	100
21922040*	7	90
21922050*	8	80

*Please consult your Bard Representative for local availability

Thrombus Management

JET-LYSIS® Catheter

- Catheter with y-adapter and guide wire preassembled
- 1ml syringe and 3-way stopcock are included



Product Code	Diameter (F)	Catheter Length (cm)	Distance with Side Holes (cm)	Guide Wire Diameter (inch)	Guide Wire Length (cm)
21860210*¹	2.7*	90	5	.014	120
21860220*¹	2.7*	90	10	.014	120
21860230*¹	2.7*	90	15	.014	120
21860410*¹	2.7*	120	5	.014	150
21860420*¹	2.7*	120	10	.014	150
21860430*¹	2.7*	120	15	.014	150
21860610*¹	2.7*	150	5	.014	180
21860620*¹	2.7*	150	10	.014	180
21860630*¹	2.7*	150	15	.014	180
21862010	5	60	5	.035	90
21862020	5	60	10	.035	90
21862030	5	60	15	.035	90
21862210	5	90	5	.035	120
21862220	5	90	10	.035	120
21862230	5	90	15	.035	120
21862410	5	120	5	.035	150
21862420	5	120	10	.035	150
21862430	5	120	15	.035	150

* Marker diameter 3.0F, catheter diameter 2.7F

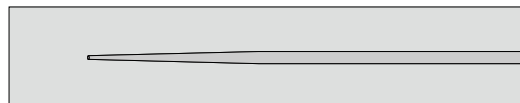
Accessories

Product Code	Description	Pack Quantity
21870000	2-ring-grip-syringe 10ml with rotational adapter	10
20055000	Y-adapter	10

*Please consult your Bard Representative for local availability

Thrombus Management

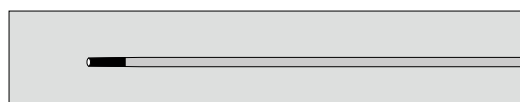
Infusion-Lysis catheters



Product Code	Diameter (F)	Length (cm)	Guide Wire (inch)	Pack Quantity
00090088	3	100	.021	10
00100041	4	65	.035	10
00100051	4	90	.035	10
00100058	4	150	.035	10

Infusion-Lysis catheters

- With radiopaque tip



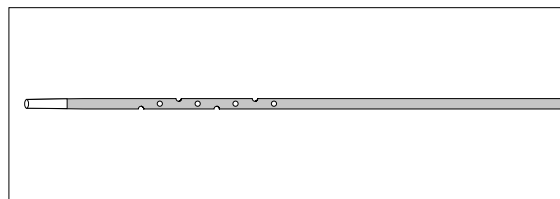
Product Code	Diameter (F)	Length (cm)	Guide Wire (inch)	Pack Quantity
00230030	4	65	.035	10
00230015	4	90	.035	10

Angiography Catheters

HIGH-FLOW Radiopaque Tip

Straight

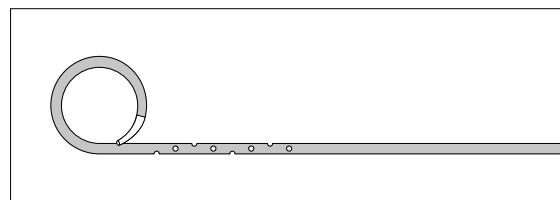
- Non braided



Product Code	Diameter (F)	Length (cm)	Side Holes	Guide Wire (inch)	Max. Flow Rate	Pack Quantity
00230040	4	65	8	.035	17ml/sec-1200psi	10
00230030	4	65	-	.035	16ml/sec-1200psi	10
00230015	4	90	-	.035	15ml/sec-1200psi	10
00230055	4	100	8	.035	15ml/sec-1200psi	10
00240040	5	65	8	.035	26ml/sec-1200psi	10
00240053	5	100	8	.035	22ml/sec-1200psi	10

Pigtail

- Non braided



Product Code	Diameter (F)	Length (cm)	Side Holes	Guide Wire (inch)	Max. Flow Rate	Pack Quantity
00230010	4	65	8	.035	18ml/sec-1200psi	10
00230020	4	90	8	.035	16ml/sec-1200psi	10
00230025	4	100	8	.035	15ml/sec-1200psi	10
00240010	5	65	8	.035	26ml/sec-1200psi	10
00240020	5	90	8	.035	23ml/sec-1200psi	10
00240030	5	110	8	.035	20ml/sec-1200psi	10

Angiography Catheters

ANGIOPASS PLUS

Straight

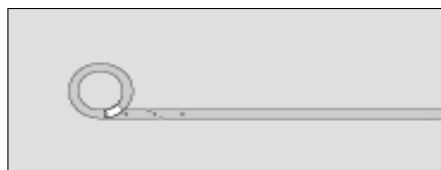
- Braided
- Soft Tip



Product Code	Diameter (F)	Length (cm)	Side Holes	Guide Wire (inch)	Max. Flow Rate	Pack Quantity
00760090	5	100	6	.035	15ml/sec-1200psi	10

Pigtail

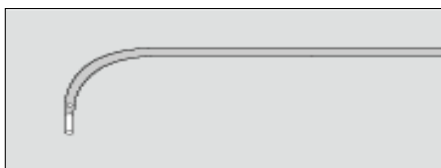
- Braided
- Soft Tip



Product Code	Diameter (F)	Length (cm)	Side Holes	Guide Wire (inch)	Max. Flow Rate	Pack Quantity
00760020	5	65	8	.035	18ml/sec-900psi	10
00760040	5	90	8	.035	14ml/sec-900psi	10
00760050	5	100	8	.035	15ml/sec-1200psi	10
00760060	5	110	8	.035	13ml/sec-900psi	10
00770020	6	65	8	.035	20ml/sec-900psi	10
00770040	6	90	8	.035	17ml/sec-900psi	10
00770050	6	100	8	.035	18ml/sec-1200psi	10
00770060	6	110	8	.035	16ml/sec-900psi	10

Multipurpose

- Braided
- Soft Tip



Product Code	Diameter (F)	Length (cm)	Side Holes	Guide wire (inch)	Max. Flow Rate	Pack Quantity
00760800	5	100	2	.035	15ml/sec-900psi	10
00770800	6	100	2	.035	18ml/sec-900psi	10

Angiography Catheters

ANGIOPASS PLUS

Visceral

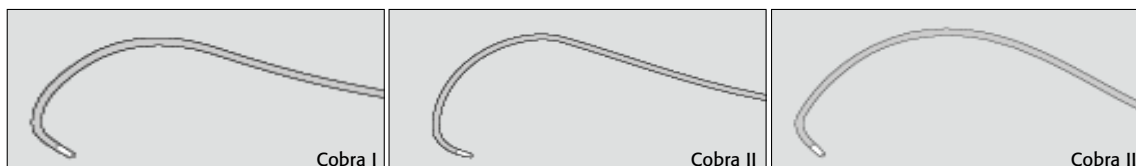
- Braided
- Soft Tip



Product Code	Diameter (F)	Length (cm)	Side Holes	Guide Wire (inch)	Max. Flow Rate	Pack Quantity
00760780	5	100	-	.035	16ml/sec-900psi	10
00770780	6	100	-	.035	16ml/sec-900psi	10

Cobra

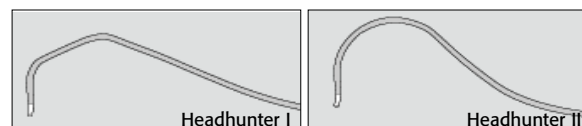
- Braided
- Soft Tip



Product Code	Configuration	Diameter (F)	Length (cm)	Side Holes	Guide wire (inch)	Max. Flow Rate	Pack Quantity
00760380	Cobra I	5	65	-	.035	18ml/sec-900psi	10
00760390	Cobra I	5	80	-	.035	19ml/sec-1200psi	10
00760400	Cobra I	5	100	-	.035	16ml/sec-900psi	10
00770380	Cobra I	6	65	-	.035	20ml/sec-900psi	10
00770390	Cobra I	6	80	-	.035	21ml/sec-1200psi	10
00770400	Cobra I	6	100	-	.035	18ml/sec-900psi	10
00760420	Cobra II	5	65	-	.035	18ml/sec-900psi	10
00760430	Cobra II	5	80	-	.035	19ml/sec-1200psi	10
00760440	Cobra II	5	100	-	.035	16ml/sec-900psi	10
00770420	Cobra II	6	65	-	.035	20ml/sec-900psi	10
00770430	Cobra II	6	80	-	.035	21ml/sec-1200psi	10
00770440	Cobra II	6	100	-	.035	18ml/sec-900psi	10
00760470	Cobra III	5	80	-	.035	19ml/sec-1200psi	10
00770470	Cobra III	6	80	-	.035	21ml/sec-1200psi	10

Headhunter

- Braided
- Soft Tip



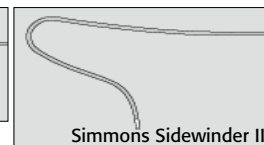
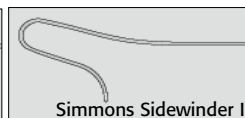
Product Code	Configuration	Diameter (F)	Length (cm)	Side Holes	Guide Wire (inch)	Max. Flow Rate	Pack Quantity
00760500	Headhunter I	5	100	-	.035	14ml/sec-900psi	10
00770500	Headhunter I	6	100	-	.035	17ml/sec-900psi	10
00760560	Headhunter III	5	100	-	.035	16ml/sec-1200psi	10

Angiography Catheters

ANGIOPASS PLUS

Simmons Sidewinder

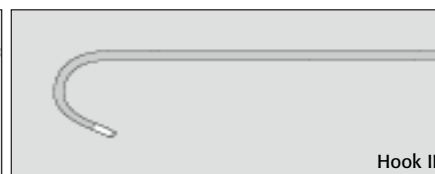
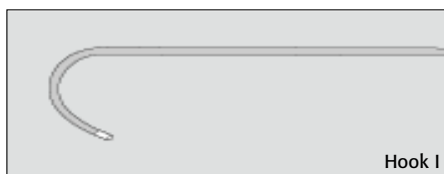
- Braided
- Soft Tip



Product Code	Configuration	Diameter (F)	Length (cm)	Side Holes	Guide Wire (inch)	Max. Flow Rate	Pack Quantity
00760580	Simmons Sidewinder I	5	100	-	.035	15ml/sec-900psi	10
00770580	Simmons Sidewinder I	6	100	-	.035	18ml/sec-900psi	10
00760640	Simmons Sidewinder II	5	100	-	.035	15ml/sec-900psi	10
00770640	Simmons Sidewinder II	6	100	-	.035	28ml/sec-900psi	10
00760700	Simmons Sidewinder III	5	100	-	.035	15ml/sec-900psi	10
00770700	Simmons Sidewinder III	6	100	-	.035	18ml/sec-900psi	10

Hook

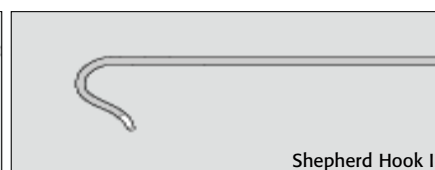
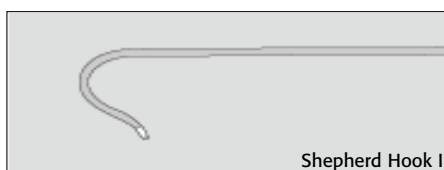
- Braided
- Soft Tip



Product Code	Configuration	Diameter (F)	Length (cm)	Side Holes	Guide Wire (inch)	Max. Flow Rate	Pack Quantity
00761010	Hook I	5	80	-	.035	19ml/sec-1200psi	10
00761040	Hook II	5	80	-	.035	19ml/sec-1200psi	10

Shepherd Hook

- Braided
- Soft Tip



Product Code	Configuration	Diameter (F)	Length (cm)	Side Holes	Guide Wire (inch)	Max. Flow Rate	Pack Quantity
00760890	Shepherd Hook I	5	80	-	.035	19ml/sec-1200psi	10
00760920	Shepherd Hook II	5	80	-	.035	19ml/sec-1200psi	10

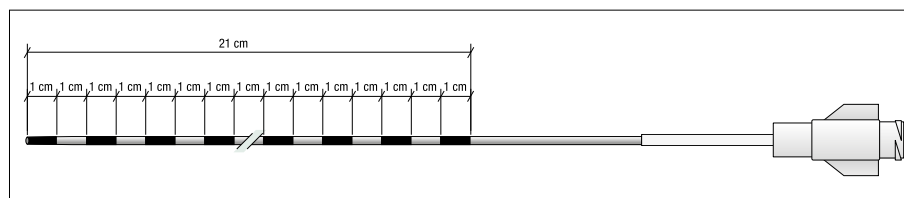
Angiography Catheters

Special Catheters

Measuring Catheter

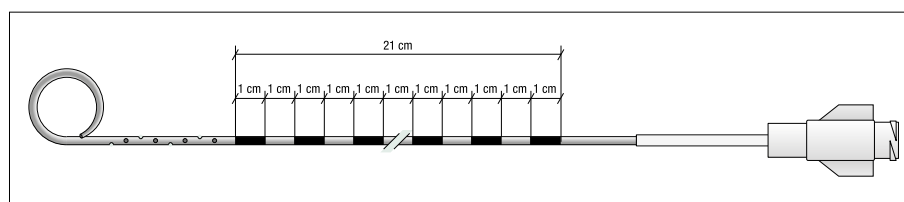
- Radiopaque markers

Straight



Product Code	Diameter (F)	Length (cm)	Side Holes	Guide Wire (inch)	Pack Quantity
20850040*	5	65	-	.035	10
20850050*	5	90	-	.035	10
20850060*	5	110	-	.035	10

Pigtail



Product Code	Diameter (F)	Length (cm)	Side Holes	Guide Wire (inch)	Pack Quantity
20850010*	5	65	8	.035	10
20850020*	5	90	8	.035	10
20850030*	5	110	8	.035	10

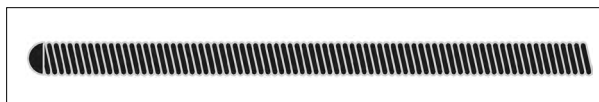
*Please consult your Bard Representative for local availability

Guide Wires

PTFE Coated

T-wire

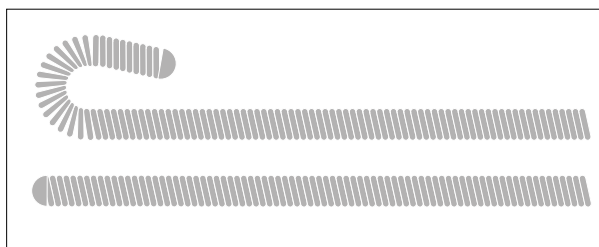
PTFE coated – fixed core - straight - flexible tip



Product Code	Diameter (inch)	Length (cm)	Pack Quantity
02200020	.018	80	10
02200040	.018	125	10
02200050	.018	150	10
02200080	.018	260	10
02310020	.035	80	10
02310030	.035	100	10
02310040	.035	125	10
02310050	.035	150	10
02310060	.035	200	10
02310070	.035	220	10
02310080	.035	260	10
02310090	.035	300	10
02310100	.035	400	10
02310110	.035	500	10
02330025	.038	80	10
02330030	.038	100	10
02330040	.038	125	10
02330050	.038	150	10
02330060	.038	200	10
02330070	.038	220	10
02330080	.038	260	10

TJ-Wire Double-Ended 3.0mm

PTFE coated, fixed core, straight/J-curved 3.0mm, 2 flexible tips



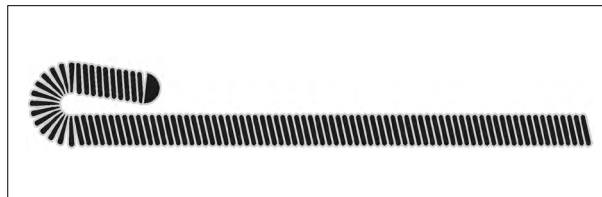
Product Code	Diameter (inch)	Length (cm)	Pack Quantity
04570050	.035	150	10

Guide Wires

PTFE Coated

TJ-Wire 1.5mm

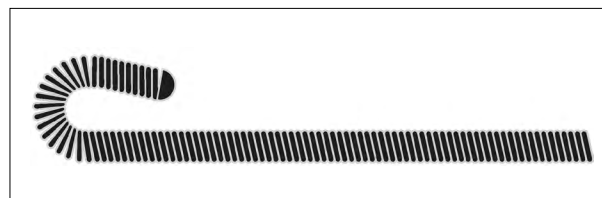
PTFE coated, fixed core, J-curved 1.5mm
– flexible tip



Product Code	Diameter (inch)	Length (cm)	Pack Quantity
03070040	.035	125	10
03070050	.035	150	10
03100060	.035	200	10

TJ-Wire 3.0mm

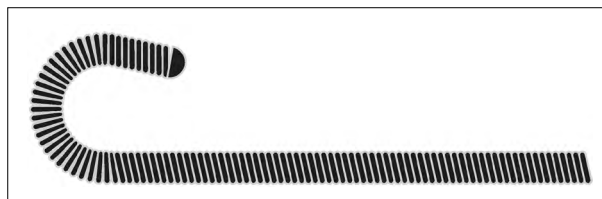
PTFE coated – fixed core – J-curved 3mm
– flexible tip



Product Code	Diameter (inch)	Length (cm)	Pack Quantity
03410020	.035	80	10
03410030	.035	100	10
03410040	.035	125	10
03410050	.035	150	10
03410055	.035	175	10
03410060	.035	200	10
03410070	.035	220	10
03410080	.035	260	10
03430030	.038	100	10
03430050	.038	150	10
03430080	.038	260	10

TJ-Wire 6.0mm

PTFE coated – fixed core – J-curved 6.0mm
– flexible tip



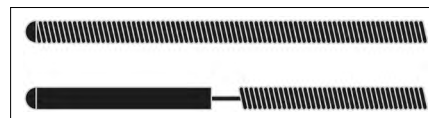
Product Code	Diameter (inch)	Length (cm)	Pack Quantity
03670050	.035	150	10

Guide Wires

PTFE Coated

TB-Wire

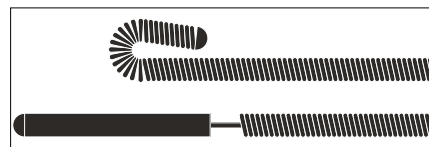
PTFE coated – movable core – straight
– flexible tip



Product Code	Diameter (inch)	Length (cm)	Pack Quantity
02720030	.035	100	10
02720040	.035	125	10
02720050	.035	150	10
02720060	.035	200	10
02720080	.035	260	10
02720100	.035	400	10

TBJ-Wire 1.5mm

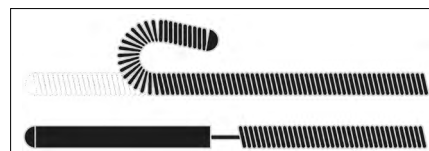
PTFE coated – movable core – J-curved 1.5mm
– flexible tip



Product Code	Diameter (inch)	Length (cm)	Pack Quantity
04310050	.035	150	10

TBJ-Wire 3.0mm

PTFE coated – movable core – J-curved 3.0mm
– flexible tip



Product Code	Diameter (inch)	Length (cm)	Pack Quantity
04320030	.035	100	10
04320040	.035	125	10
04320050	.035	150	10
04320060	.035	200	10
04320080	.035	260	10
04340040	.038	125	10
04340050	.038	150	10
04340060	.038	200	10

Amplatz BJ-Wire 3.0mm

PTFE coated – movable core – J-curved 3.0mm
– flexible tip (inner core with olive tip)

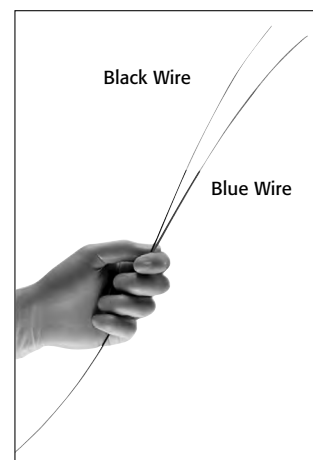
Product Code	Diameter (inch)	Length (cm)	Pack Quantity
05100050	.035	150	10

Guide Wires

Bard Nitinol

The Blue Wire

- TORQUE Guide Wire
- Flexible shaft



Product Code	Diameter (inch)	Length (cm)	Tip Length (cm)	Configuration
05420010	.035	145	4	Straight
05420020	.035	145	8	Straight
05420030	.035	145	15	Straight
05420210	.035	220	4	Straight
05420220	.035	220	8	Straight
05420261	.035	260	8	Straight
05420090	.035	400	4	Straight
05420100	.035	400	8	Straight
05421010	.035	145	4	Angled
05421020	.035	145	8	Angled
05421030	.035	145	15	Angled

The Black Wire

- ULTRA-TORQUE Guide wire
- Stiff shaft

Product Code	Diameter (inch)	Length (cm)	Tip Length (cm)	Configuration
05410000	.035	145	4	Straight
05410010	.035	145	8	Straight
05410220	.035	220	8	Straight
05410090	.035	400	4	Straight
05410100	.035	400	8	Straight
05411010	.035	145	8	Angled

Introducers

Percutaneous Introducer Set

Input Introducer SET A

- Vessel dilator
- PEBAX™ sheath with flat top and side port with 3-way stopcock

Product Code	Color Code	Diameter Sheath (F)	Length Sheath (cm)	Length Dilator (cm)	Guide Wire (inch)	Pack Quantity
050A12	grey	5	11	17	.035	5
060A12	green	6	11	17	.035	5
070A12	orange	7	11	17	.035	5
080A12	blue	8	11	17	.035	5

Input Introducer SET B

- Vessel dilator
- PEBAX™ sheath with flat top and side port with 3-way stopcock
- Stainless steel guide wire with fixed core, double-ended (40cm)
- Percutaneous needle (18G)

Product Code	Color Code	Diameter Sheath (F)	Length Sheath (cm)	Length Dilator (cm)	Guide Wire (inch)	Pack Quantity
050A11	grey	5	11	17	.035	5
060A11	green	6	11	17	.035	5
070A11	orange	7	11	17	.035	5
080A11	blue	8	11	17	.035	5

Percutaneous Introducer Set

- Vessel dilator
- FEP sheath with a flat-top valve and a side port with a 3-way stopcock
- Stainless steel guide wire with fixed core, double-ended (40cm)
- Percutaneous needle (18G)

Product Code	Color Code	Diameter (F)	Length Sheath (cm)	Length Dilator (cm)	Guide Wire (inch)	Pack Quantity
15091040	red	4*	11	17	.025	10
15091050	grey	5	11	17	.035	10
15091060	green	6	11	17	.035	10
15091070	orange	7	11	17	.035	10
15091080	blue	8	11	17	.035	10
15091090	black	9	11	17	.035	10

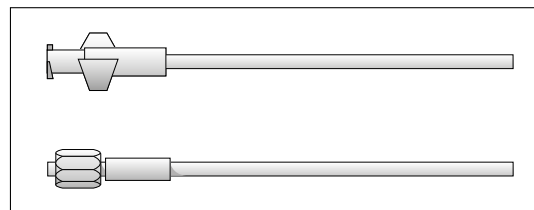
* available only with the one side cap and 19G needle

Angiography Accessories

Connecting Tubes and Stopcocks

High-Flex Connectors

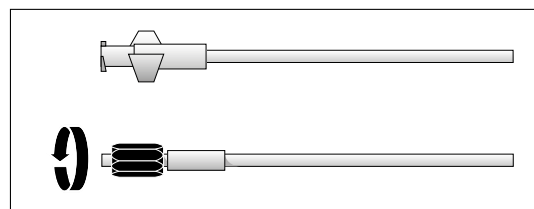
Transparent, braid-reinforced PUR (polyurethane)



Product Code	Description	Length (cm)	Pressure (psi)	Pack Quantity
15520010	Female and male Luer-Lock	30	1000	10
15520020	Female and male Luer-Lock	60	1000	10
15520030	Female and male Luer-Lock	90	1000	10
15520040	Female and male Luer-Lock	120	1000	10

High-Flex Connector with Rotation Adapter

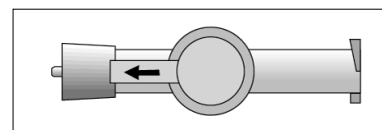
• Transparent, braid-reinforced PUR (polyurethane)



Product Code	Description	Length (cm)	Pressure (psi)	Pack Quantity
15521010	Female Luer-Lock, male rotation adapter	30	1000	10
15521020	Female Luer-Lock, male rotation adapter	60	1000	10
15521030	Female Luer-Lock, male rotation adapter	90	1000	10
15521040	Female Luer-Lock, male rotation adapter	120	1000	10

2-way stopcock with Luer-Lock fitting

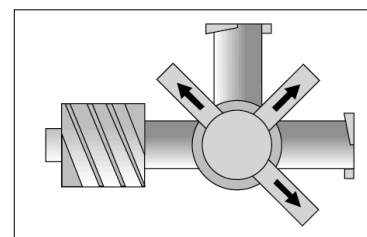
with 1 female and 1 male Luer-Lock



Product Code	Pressure (psi)	Pack Quantity
15380010	1000	10

3-way stopcock with Luer-Lock fitting

with 2 female and 1 male Luer-Lock



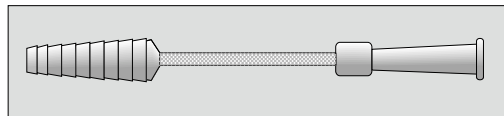
Product Code	Pressure (psi)	Pack Quantity
15400010	1200	10

Angiography Accessories

Universal Adapters

Adapter UAR-TK

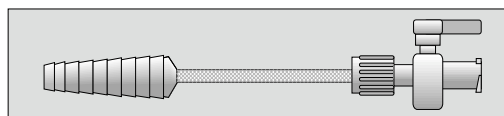
- Reducing piece fits tubes from 7.5 to 10.5mm $\varnothing$
- Funnel (small) fits reducing units from 6 to 8mm $\varnothing$



Product code	Tube Length	Pack quantity
64200010	10cm	10

Adapter UAR-WH

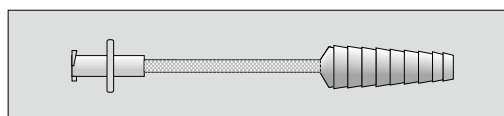
- Reducing piece fits tubes from 7.5 to 10.5mm $\varnothing$
- 2-way stopcock with female Luer-Lock



Product code	Tube Length	Pack quantity
64200020	14cm	10

Adapter UAW-R

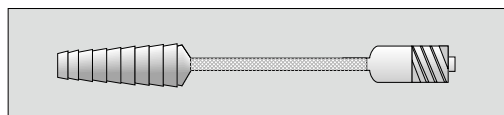
- Female Luer-Lock
- Reducing piece fits tubes from 7.5 to 10.5mm $\varnothing$



Product code	Tube Length	Pack quantity
64220010	10cm	10

Adapter UAM-R

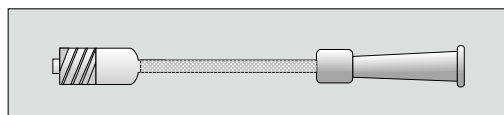
- Male Luer-Lock
- Reducing piece fits tubes from 7.5 to 10.5mm $\varnothing$



Product Code	Tube Length	Pack Quantity
64230010	10cm	10

Adapter UAM-TK

- Male Luer-Lock
- Funnel (small) fits reducing pieces from 6 to 8mm $\varnothing$



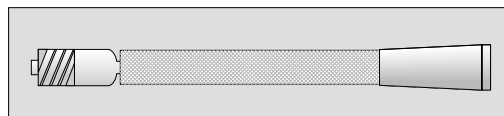
Product Code	Tube Length	Pack Quantity
64230030	5cm	10
64230031	10cm	10
64230032	15cm	10
64230033	20cm	10
64230034	25cm	10
64230035	30cm	10

Angiography Accessories

Connecting Tubes and Adapters

Adapter UAM-T

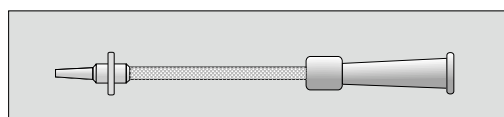
- Male Luer-Lock
- Funnel (large) fits reducing pieces from 9 to 12mm ø



Product Code	Tube Length	Pack Quantity
64230019	20cm	10
64230020	25cm	10

Adapter UAS-TK

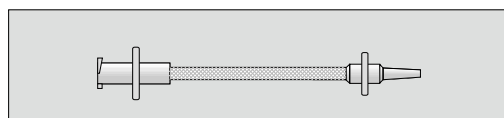
- Connecting piece
- Funnel (small) fits reducing pieces from 6 to 8mm ø



Product Code	Tube Length	Pack Quantity
64210020	10cm	10

Adapter UAW-S

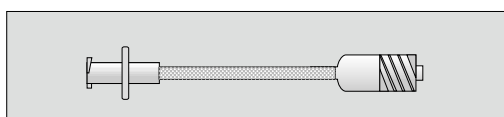
- Female Luer-Lock
- Male connecting piece



Product Code	Tube Length	Pack Quantity
64220031	20cm	10

Adapter UAW-M

- Female Luer-Lock
- Male Luer-Lock



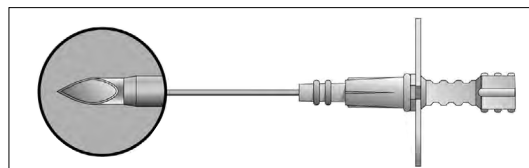
Product Code	Tube Length	Pack Quantity
64220040	10cm	10
64220042	20cm	10

Angiography Accessories

Needles

Super 4 Needle

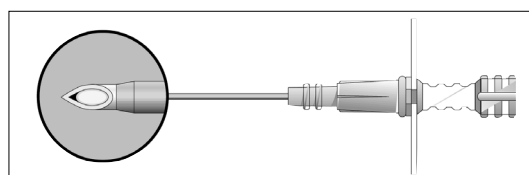
- Rounded, blunt outer cannula
- Bevel-edged stylet
- Accepts .035" guide wires



Product Code	Diameter (mm/G)	Length (mm)	Pack Quantity
15820010	1.07/19	75	10
15820012	1.07/19	150	10

Super 4 Needle - modified acc. to Jantsch

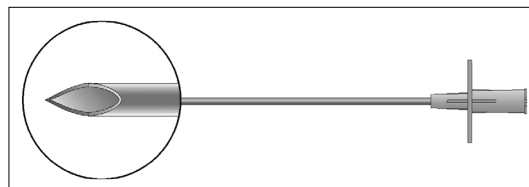
- Rounded, blunt outer cannula
- Bevel-edged hollow stylet
- Accepts .035" guide wires



Product Code	Diameter (mm/G)	Length (mm)	Pack Quantity
15820011	1.07/19	70	10

Arterial Puncture Needle - with winged hub

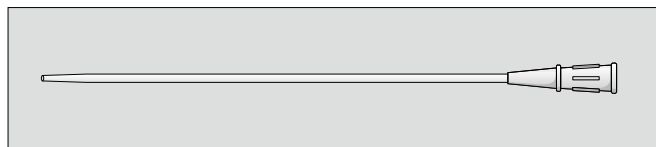
- Single part, bevel-edged
- Accepts .035" guide wire



Product Code	Diameter (mm/G)	Length (mm)	Pack Quantity
15853010	1.07/19	70	10
15853020	1.27/18	70	10

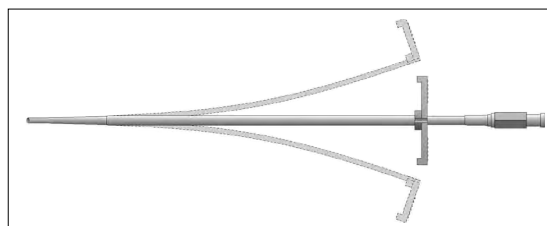
Angiography Accessories

Vessel Dilator



Product Code	Diameter (F)	Guide Wire Adaptation (inch)	Pack Quantity
15000040	4	.025	10
15000050	5	.035/.038	10
15000060	6	.035/.038	10
15000070	7	.035/.038	10
15000080	8	.035/.038	10
15000090	9	.035/.038	10
15000100	10	.035/.038	10
15000120	12	.035/.038	10
15000140	14	.035/.038	10
15000160	16	.035/.038	10

Split Sheath

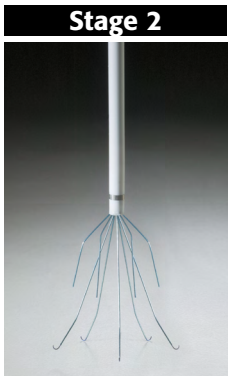


Product Code	Diameter (F)	Guide Wire Adaptation (inch)	Pack Quantity
15200010	6	.035/.038	10
15200020	7	.035/.038	10
15200030	8	.035/.038	10
15200040	9	.035/.038	10
15200050	10	.035/.038	10
15200070	12	.035/.038	10
15200090	14	.035/.038	10

Vena Cava Filters

RECOVERY® Cone System

- Urethane cone
- 10F profile



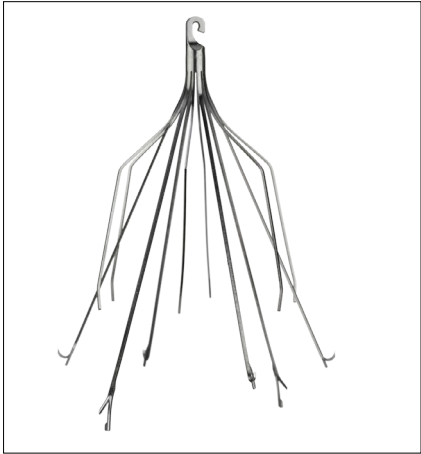
Product Code	Description
RC-15*	RECOVERY® Cone Retrieval System

*Please consult your Bard Representative for local availability

Vena Cava Filters

DENALI™

- Snare retrievable
- Vena Cava diameter up to 28mm



Product Code	Description
DL950F*	DENALI™ Filter - Femoral Delivery Kit
DL950J*	DENALI™ Filter - Jugular Delivery Kit

Bard Snare

- Retrieval snare for DENALI™ Filter
- 90° loop shape



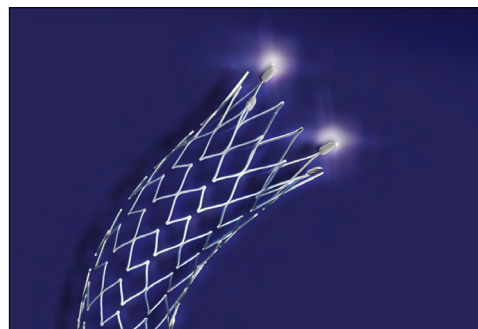
Product Code	Description
SRK35	Dual Sheath Snare Retrieval kit, 20mm

*Please consult your Bard Representative for local availability

Self Expanding Stent Non Vascular

E•LUMINEXX® Biliary Stent

- Incorporates BARD® S.A.F.E.® deployment system and PERFORMAXX® Grip
- 6F Deployment system
- .035" Guide wire compatible



Product Code for 60cm Deployment System	Expanded Stent Diameter (mm)	Stent Length (mm)
ZBS08040	8	40
ZBS08060	8	60
ZBS08080	8	80
ZBS08100	8	100
ZBS10040	10	40
ZBS10060	10	60
ZBS10080	10	80
ZBS10100	10	100

PRODUCT CATALOGUE - EUROPE

Peripheral Vascular

Section 2 - Surgical Products



Peripheral Vascular

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Self Expanding Stents

Balloon Expandable Stents

Stent Grafts

Angioplasty Catheters

Drug Coated Balloon

CTO Management

Thrombus Management

Angiography Catheters

Guide Wires

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Angiography Accessories

Vena Cava Filters

Self Expanding Stent Non Vascular

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Vascular Grafts – for Haemodialysis

Vascular Grafts – Polyester

Fabrics, Felts, Pledgets, Tapes and Patches

Vascular Catheters

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Vascular Bypass Grafts - ePTFE

CARBOFLO® Straight

- Regular wall
- With carbon



Product Code	Length (cm)	Diameter (mm)
10S04C	10	4
10S05C	10	5
10S06C	10	6
10S07C	10	7
10S08C	10	8
20S06C	20	6
30S06C	30	6
40S05C	40	5
40S06C	40	6
40S07C	40	7
40S08C	40	8
50S05C	50	5
50S06C	50	6
50S07C	50	7
50S08C	50	8
70S06C	70	6
70S07C	70	7
70S08C	70	8
80S06C	80	6
80S07C	80	7
80S08C	80	8

Vascular Bypass Grafts - ePTFE

CARBOFLO® Straight

- Thinwall
- With carbon

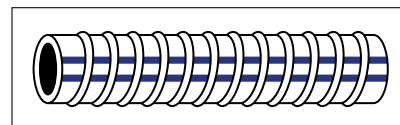


Product Code	Length (cm)	Diameter (mm)
10S04TWC	10	4
10S05TWC	10	5
10S06TWC	10	6
10S07TWC	10	7
10S08TWC	10	8
40S06TWC	40	6
40S08TWC	40	8
50S05TWC	50	5
50S06TWC	50	6
50S07TWC	50	7
50S08TWC	50	8
70S05TWC	70	5
70S06TWC	70	6
70S07TWC	70	7
70S08TWC	70	8
80S05TWC	80	5
80S06TWC	80	6
80S07TWC	80	7
80S08TWC	80	8

Vascular Bypass Grafts - ePTFE

CARBOFLO® Flex Straight

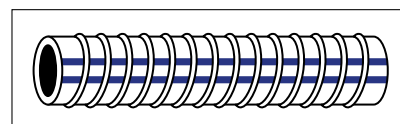
- Regular wall
- With a removable spiral
- With carbon



Product Code	Length (cm)	Diameter (mm)
F4006C	40	6
F4008C	40	8
F5006C	50	6
F5008C	50	8
F6006C	60	6
F6008C	60	8
F7006C	70	6
F7007C	70	7
F7008C	70	8
F8006C	80	6
F8007C	80	7
F8008C	80	8
F8010C	80	10

CARBOFLO® Flex Straight

- Regular wall, small beading
- With a removable spiral
- With carbon

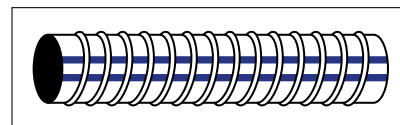


Product Code	Length (cm)	Diameter (mm)
F5006SC	50	6
F7006SC	70	6
F7008SC	70	8
F8006SC	80	6
F8008SC	80	8

Vascular Bypass Grafts - ePTFE

CARBOFLO® Flex Straight

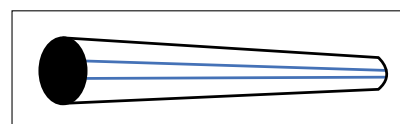
- Thinwall, small beading
- With a removable spiral
- With carbon



Product Code	Length (cm)	Diameter (mm)
F1004TWSC	10	4
F3006TWSC	30	6
F3008TWSC	30	8
F5006TWSC	50	6
F5008TWSC	50	8
F6006TWSC	60	6
F7005TWSC	70	5
F7006TWSC	70	6
F7007TWSC	70	7
F7008TWSC	70	8
F8006TWSC	80	6
F8007TWSC	80	7
F8008TWSC	80	8

CARBOFLO® Tapered

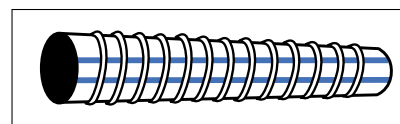
- Thinwall
- With carbon



Product Code	Length (cm)	Diameter (mm)
70T7-4TWC	70	7-4
70T8-5TWC	70	8-5

CARBOFLO® Flex - Tapered

- Thinwall, small beading
- With a removable spiral
- With carbon



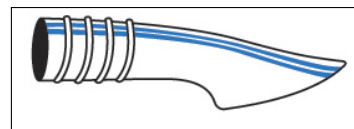
Product Code	Length (cm)	Diameter (mm)
F70T74TSC	70	7-4
F70T85TSC	70	8-5

Vascular Bypass Grafts - ePTFE

Below the Knee

DISTAFLO® Bypass Graft - Regular Cuff

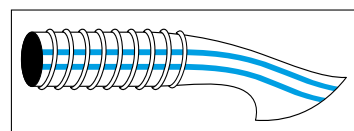
- Flex small beading
- With a removable spiral
- 1mm taper over distal 25cm
- With carbon



Product Code	Length (cm)	Diameter (mm)
DF5006SC	50	6
DF5007SC	50	7
DF5008SC	50	8
DF6006SC	60	6
DF6007SC	60	7
DF6008SC	60	8
DF7006SC	70	6
DF7007SC	70	7
DF7008SC	70	8
DF8006SC	80	6
DF8007SC	80	7
DF8008SC	80	8

DISTAFLO® Bypass Graft - Small Cuff

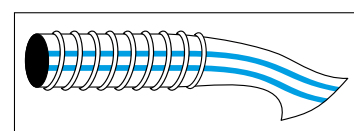
- Flex small beading
- With a removable spiral
- 1mm taper over distal 25cm
- With carbon



Product Code	Length (cm)	Diameter (mm)
DFM5006SC	50	6
DFM6006SC	60	6
DFM7006SC	70	6
DFM8006SC	80	6

DISTAFLO® Bypass Graft - Mini Cuff

- Flex small beading
- With a removable spiral
- 2mm taper over distal 25cm
- With carbon



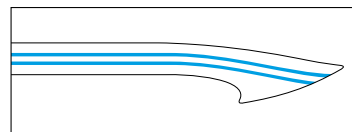
Product Code	Length (cm)	Diameter (mm)
DFX6006SC	60	6
DFX7006SC	70	6
DFX8006SC	80	6
DFX9006SC	90	6

Vascular Bypass Grafts - ePTFE

Above the Knee

DYNAFLO® Bypass Graft

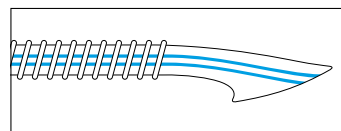
- With carbon



Product Code	Length (cm)	Diameter (mm)
DN5007C	50	7
DN5008C	50	8
DN6007C	60	7
DN6008C	60	8

DYNAFLO® Bypass Graft

- Flex small beading
- With a removable spiral
- With carbon



Product Code	Length (cm)	Diameter (mm)
DNF5007SC	50	7
DNF5008SC	50	8
DNF6007SC	60	7
DNF6008SC	60	8
DNF7007SC	70	7
DNF7008SC	70	8
DNF8007SC	80	7
DNF8008SC	80	8

Vascular Grafts ePTFE - for Haemodialysis

CARBOFLO® Straight

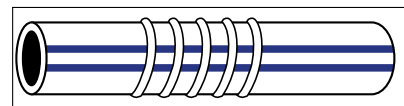
- Regular wall
- With carbon



Product Code	Length (cm)	Diameter (mm)
10S04C	10	4
10S05C	10	5
10S06C	10	6
10S07C	10	7
10S08C	10	8
20S06S	20	6
30S06C	30	6
40S05C	40	5
40S06C	40	6
40S07C	40	7
40S08C	40	8
50S05C	50	5
50S06C	50	6
50S07C	50	7
50S08C	50	8

CARBOFLO® Straight CENTERFLEX™

- CENTERFLEX™
- Regular wall
- With a non-removable spiral
- With carbon

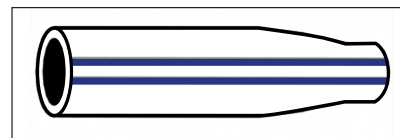


Product Code	Length (cm)	Diameter (mm)
CF4006C	40	6
CF5006C	50	6

Vascular Grafts ePTFE - for Haemodialysis

CARBOFLO® Short Tapered

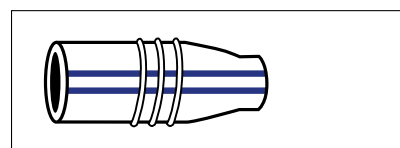
- Regular wall
- With carbon



Product Code	Length (cm)	Diameter (mm)
40A6-4C	40	6-4
40A7-4C	40	7-4

CARBOFLO® Short Tapered CENTERFLEX™

- CENTERFLEX™ short tapered
- Regular wall
- With a non-removable spiral
- With carbon



Product Code	Length (cm)	Diameter (mm)
CF40A7-4C	40	7-4

CARBOFLO® Stepped

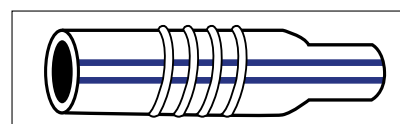
- Regular wall
- With carbon



Product Code	Length (cm)	Diameter (mm)
T454-6C	45	4-6
T454-7C	45	4-7
T455-8C	45	5-8

CARBOFLO® Stepped CENTERFLEX™

- CENTERFLEX™, stepped
- Regular wall
- With a non-removable spiral
- With carbon

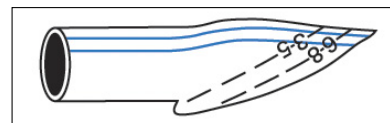


Product Code	Length (cm)	Diameter (mm)
CFT454-7C	45	4-7

Vascular Grafts ePTFE - for Haemodialysis

VENAFLO® II Graft Straight

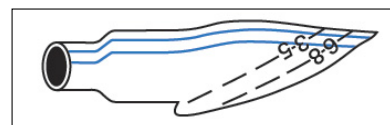
- Cuff with trim lines
- With carbon



Product Code	Length (cm)	Diameter (mm)
VL1006C	10	6
VL1007C	10	7
VL2006C	20	6
VL2007C	20	7
VL3006C	30	6
VL3007C	30	7
VL4006C	40	6
VL4007C	40	7
VL5006C	50	6
VL5007C	50	7

VENAFLO® II Graft Stepped

- Cuff with trim lines
- With carbon

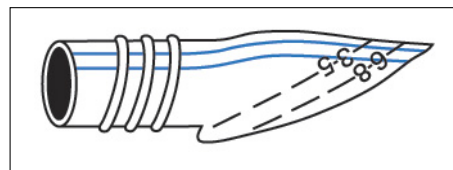


Product Code	Length (cm)	Diameter (mm)
VLT2046C	20	4-6
VLT2047C	20	4-7
VLT2546C	25	4-6
VLT2547C	25	4-7
VLT3046C	30	4-6
VLT3047C	30	4-7
VLT3546C	35	4-6
VLT3547C	35	4-7
VLT4046C	40	4-6
VLT4047C	40	4-7
VLT4546C	45	4-6
VLT4547C	45	4-7

Vascular Grafts ePTFE - for Haemodialysis

VENAFLO® II Graft Straight CENTERFLEX™

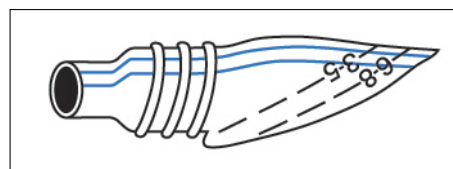
- CENTERFLEX™
- With a non-removable spiral
- Cuff with trim lines
- With carbon



Product Code	Length (cm)	Diameter (mm)
CVL4006C	40	6
CVL4007C	40	7
CVL5006C	50	6

VENAFLO® II Grafts Stepped CENTERFLEX™

- CENTERFLEX™, stepped
- With a non-removable spiral
- Cuff with trim lines
- With carbon



Product Code	Length (cm)	Diameter (mm)
CVLT4547C	45	4-7

Vascular Grafts - for Haemodialysis

VECTRA® Access Graft

- Unique, Self-Binded, Tri-Layer THORALON™ Design
- Early access



Product Code	Length (cm)	Diameter (mm)
10002-5040-001	40	5
10002-6040-001	40	6
10002-5050-001	50	5
10002-6050-001	50	6

VECTRA® Revision Graft*

- 4-5 W.P.C.

Product Code	Length (cm)	Diameter (mm)
10002-5020-002	20	5
10002-6020-002	20	6

VECTRA® Revision Graft*

- 9.5-12.5 W.P.C.

Product Code	Length (cm)	Diameter (mm)
10002-5020-003	20	5
10002-6020-003	20	6

*For graft revision use only

Wall thickness of each graft is approximately 1.0mm
W.P.C.: wraps per centimeter

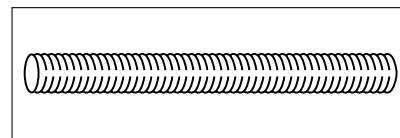
Each reinforcement monofilament is wound circumferentially in graduated concentrations along the length of the graft, with an unreinforced area at either end.

The concentration of the wraps increases from 4-5 W.P.C. at either end of the graft to 9.5-12.5 W.P.C. in the mid-portion of the graft for added kink resistance in the apex when used in a loop configuration.

Vascular Grafts - Polyester

DIALINE® II Graft

- Straight
- Collagen impregnated
- Knitted

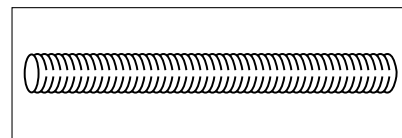


Product Code	Length (cm)	Diameter (mm)
242C206	20	6
242C207	20	7
242C208	20	8
242C210	20	10
242C212	20	12
242C214	20	14
242C216	20	16
242C218	20	18
242C220	20	20
242C222	20	22
242C224	20	24
242C406	40	6
242C407	40	7
242C408	40	8
242C410	40	10
242C412	40	12
242C414	40	14
242C416	40	16
242C418	40	18
242C420	40	20
242C422	40	22
242C424	40	24

Vascular Grafts - Polyester

DIALINE® II Graft

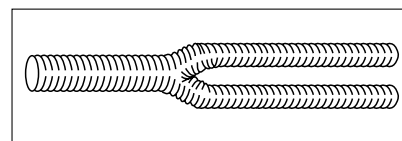
- Straight
- Collagen impregnated
- Knitted



Product Code	Length (cm)	Diameter (mm)
242C606	60	6
242C607	60	7
242C608	60	8
242C610	60	10
242C612	60	12
242C614	60	14
242C616	60	16
242C618	60	18
242C620	60	20
242C622	60	22
242C624	60	24

DIALINE® II Graft

- Bifurcated
- Collagen impregnated
- Knitted

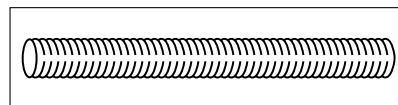


Product Code	Length (cm)	Diameter (mm)
241C126	40	12 × 6
241C147	40	14 × 7
241C168	40	16 × 8
241C189	40	18 × 9
241C200	40	20 × 10
241C221	40	22 × 11
241C242	40	24 × 12

Vascular Grafts - Polyester

WOVEX™ Graft

- Straight
- Collagen impregnated
- Woven

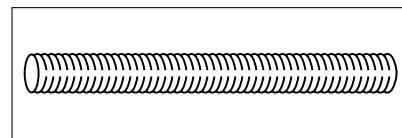


Product Code	Length (cm)	Diameter (mm)
W42C206	20	6
W42C207	20	7
W42C208	20	8
W42C209	20	9
W42C210	20	10
W42C212	20	12
W42C214	20	14
W42C216	20	16
W42C218	20	18
W42C220	20	20
W42C222	20	22
W42C224	20	24
W42C226	20	26
W42C228	20	28
W42C230	20	30
W42C232	20	32
W42C234	20	34
W42C236	20	36
W42C238	20	38
W42C406	40	6
W42C407	40	7
W42C408	40	8
W42C409	40	9
W42C410	40	10
W42C412	40	12
W42C414	40	14
W42C416	40	16
W42C418	40	18
W42C420	40	20
W42C422	40	22
W42C424	40	24
W42C426	40	26
W42C428	40	28
W42C430	40	30
W42C432	40	32
W42C434	40	34
W42C436	40	36
W42C438	40	38

Vascular Grafts - Polyester

Wovex™ Graft

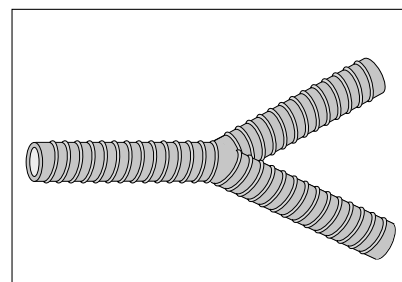
- Straight (continued)
- Collagen impregnated
- Woven



Product Code	Length (cm)	Diameter (mm)
W42C706	70	6
W42C707	70	7
W42C708	70	8
W42C709	70	9
W42C710	70	10

Wovex™ Graft

- Bifurcated
- Collagen impregnated
- Woven



Product Code	Length (cm)	Diameter (mm)
W41C126	50	12 x 6
W41C147	50	14 x 7
W41C168	50	16 x 8
W41C189	50	18 x 9
W41C200	50	20 x 10
W41C221	50	22 x 11
W41C242	50	24 x 12

Thermocutter

Product Code	Pack Quantity
AA05	10

Fabrics, Felts, Pledgets, Tapes and Patches

BARD® SAUVAGE® Filamentous Fabric

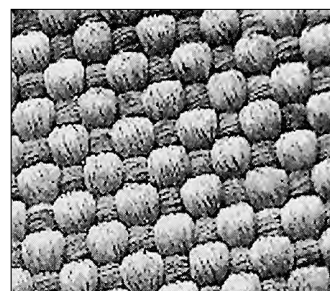
- Recommended for patch graft angioplasty such as in carotid endarterectomy procedures and ASD/VSD repairs



Product Code	Size (cm)	Nominal Thickness (mm)	Approx. Water Porosity (ml/cm ² /mn)	Pack Quantity
007940	1 × 15.2	0.61	1800 max.	10
007942	2.5 × 10.2	0.61	1800 max.	10
007943	5.1 × 5.1	0.61	1800 max.	10
007944	5.1 × 10.2	0.61	1800 max.	10
007828	10.2 × 10.2	0.61	1800 max.	5
007829	15.2 × 15.2	0.61	1800 max.	5

BARD® DEBAKEY® Woven Fabric

- A thin, lower porosity fabric for use in outflow tract repairs, patch graft angioplasty and septal defects

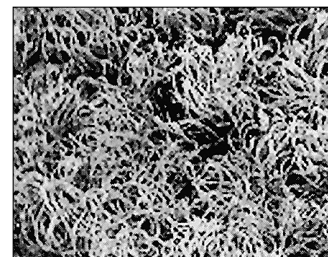


Product Code	Size (cm)	Nominal Thickness (mm)	Approx. Water Porosity (ml/cm ² /mn)	Pack Quantity
007957	5.1 × 10.2	0.25	220 max.	10
007955	10.2 × 10.2	0.25	220 max.	5
007956	15.2 × 15.2	0.25	220 max.	5

Fabrics, Felts, Pledgets, Tapes and Patches

BARD® DEBAKEY® Double Velour Fabric

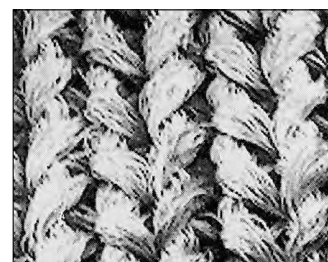
- Used for patch graft angioplasty and repair of intracardiac defects



Product Code	Size (cm)	Nominal Thickness (mm)	Approx. Water Porosity (ml/cm ² /mn)	Pack Quantity
007937	2.5 × 10.2	1.5	3800 max.	10
007939	5.1 × 10.2	1.5	3800 max.	10
007826	10.2 × 10.2	1.5	3800 max.	5
007827	15.2 × 15.2	1.5	3800 max.	5

BARD® DEBAKEY® Elastic Knit Fabric

- Used for patch graft angioplasty and repair of intracardiac defects



Product Code	Size (cm)	Nominal Thickness (mm)	Approx. Water Porosity (ml/cm ² /mn)	Pack Quantity
007830	10.2 × 10.2	0.57	2300 mean	5
007831	15.2 × 15.2	0.57	2300 mean	5

BARD® Edwards Outflow Tract Fabric

- Lower porosity material used for aortic and pulmonary outflow tract patching and intracardiac defects



Product Code	Size (cm)	Nominal Thickness (mm)	Approx. Water Porosity (ml/cm ² /mn)	Pack Quantity
007979	5.1 × 10.2	0.91	250 max.	10
007834	10.2 × 10.2	0.91	250 max.	5
007835	15.2 × 15.2	0.91	250 max.	5

Fabrics, Felts, Pledgets, Tapes and Patches

BARD® PTFE Felt

- Used as a buttress for sutures and friable tissue



Product Code	Size (cm)	Nominal Thickness (mm)	Approx. Water Porosity (ml/cm ² /mn)	Pack Quantity
007974	0.6×5.1	1.65	1700 max.	10
007975	1.2×10.2	1.65	1700 max.	10
007973	2.5×2.5	1.65	1700 max.	10
007968	2.5×10.2	1.65	1700 max.	10
007976	2.5×15.2	1.65	1700 max.	10
007977	5.1×5.1	1.65	1700 max.	10
007836	10.2×10.2	1.65	1700 max.	5
007837	15.2×15.2	1.65	1700 max.	5

BARD® Low Porosity PTFE Felt

- Low porosity helps to control bleeding



Product Code	Size (cm)	Nominal Thickness (mm)	Approx. Water Porosity (ml/cm ² /mn)	Pack Quantity
007021	2.5×2.5	1.85	<550 mean	5
007838	10.2×10.2	1.85	<550 mean	5
007839	15.2×15.2	1.85	<550 mean	5

Fabrics, Felts, Pledgets, Tapes and Patches

BARD® Polyester Felt

- Used as a buttress for sutures and friable tissue

Product Code	Size (cm)	Nominal Thickness (mm)	Approx. Water Porosity (ml/cm ² /mn)	Pack Quantity
008972	15.2 × 15.2	1.65	3017 mean	5

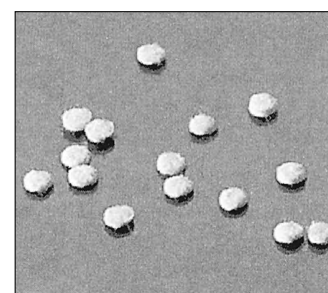
BARD® PTFE Felt (thick)

- Extra thickness provides added support to tissue

Product Code	Size (cm)	Nominal Thickness (mm)	Approx. Water Porosity (ml/cm ² /mn)	Pack Quantity
007018	1 × 15.2	2.87	750 max.	20
007019	2.5 × 2.5	2.87	750 max.	5
007958	10.2 × 10.2	2.87	750 max.	5
007959	15.2 × 15.2	2.87	750 max.	5

BARD® PTFE Felt Pledgets

- Used as buttresses under sutures when there is a possibility of sutures tearing through tissue. These pledgets are used in various surgical suturing procedures, such as vascular closure, septal repair, myocardial closure, hepatic repair and valvular suturing.

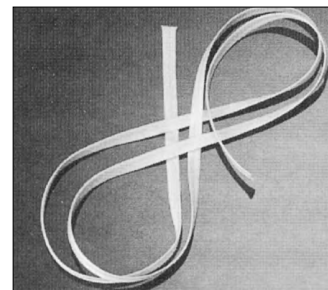


Product Code	Size (mm)	Shape	Nominal Thickness (mm)	Pack Quantity
007984	4.8	round	1.65	10 per pouch, 25 pouches per box
007971	6	round	2.87	10 per pouch, 25 pouches per box
007969	4.8 × 6	oval	1.65	10 per pouch, 25 pouches per box
007970	4.8 × 6	rectangle	1.65	10 per pouch, 25 pouches per box
007963	9.5 × 4.8	rectangle	1.65	10 per pouch, 25 pouches per box
007965	6 × 6	square	1.65	10 per pouch, 25 pouches per box
007972	7.9 × 7.9	square	1.65	10 per pouch, 25 pouches per box

Fabrics, Felts, Pledgets, Tapes and Patches

BARD® Polyester Braided Tape

- For the purpose of tissue approximation, and as a temporary or permanent ligature



Product Code	Size (mm × cm)	Pack Quantity
007915	3 × 61	2 per pouch, 10 pouches per box
007916	3 × 91.4	1 per pouch, 10 pouches per box

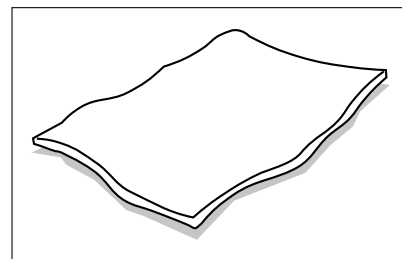
BARD® PTFE Braided Tape

Product Code	Size (mm × cm)	Pack Quantity
007913	2 × 61	2 per pouch, 10 pouches per box
007917	2 × 91.4	2 per pouch, 10 pouches per box
007914	4 × 61	2 per pouch, 10 pouches per box
007918	4 × 91.4	2 per pouch, 10 pouches per box

Fabrics, Felts, Pledgets, Tapes and Patches

ePTFE Cardiovascular Patch

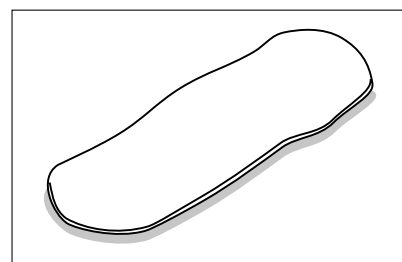
- Regular wall (0.6mm thickness)
- Rectangular



Product Code	Size (cm)
25P15006	2.5×15
30P3006	3×3
50P7506	5×7.5
50P15006	5×15
100P15006	10×15

ePTFE Cardiovascular Patch

- Thinwall (0.4mm thickness)
- Oval



Product Code	Size (cm)
10P9004	1×9
20P9004	2×9
30P6004	3×6

Vascular Catheters

Embolectomy Catheter

- Plain Tip

Product Code	Colour	Shaft (F) or (CH)	Length (cm)	Balloon	
				Volume (ml)	Diameter (mm)
CE0340		3	40	0.2	7
CE0380		3	80	0.2	7
CE0440		4	40	0.8	10
CE0480		4	80	0.8	10
CE0580		5	80	1.5	12
CE0680		6	80	2.0	14
CE0780		7	80	2.5	15

Embolectomy Catheter

- Atraumatic spring tip

Product Code	Colour	Shaft (F) or (CH)	Length (cm)	Balloon	
				Volume (ml)	Diameter (mm)
CE0260ST		2	60	0.08	4.5
CE0280ST		2	80	0.08	4.5
CE0340ST		3	40	0.2	7
CE0380ST		3	80	0.2	7
CE0440ST		4	40	0.8	10
CE0480ST		4	80	0.8	10
CE0580ST		5	80	1.5	12
CE0680ST		6	80	2.0	14
CE0780ST		7	80	2.5	15

Embolectomy Catheter

- .035" Guide Wire Compatible/Distal Irrigation
- Double lumen

Product Code	Shaft (F) or (CH)	Length (cm)	Balloon	
			Volume (ml)	Diameter (mm)
CE0340DR	5	40	0.15	5
CE0380DR	5	80	0.15	5
CE0440DR	5	40	0.5	9
CE0480DR	5	80	0.5	9
CE0540DR	5	40	0.9	11
CE0580DR	5	80	0.9	11
CE0680DR	5	80	1.4	13

All catheters are latex free

Vascular Catheters

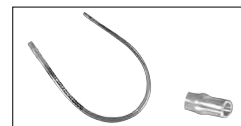
Thrombectomy Catheter

Product Code	Colour	Shaft (F) or (CH)	Length (cm)	Balloon	
				Volume (ml)	Diameter (mm)
CT038006		3	80	0.23	7
CT048009		4	80	0.75	10
CT058011		5	80	1.5	12
CT068014		6	80	1.5	13
CT088017		8	80	2.25	14
CT088019		8	80	4.0	20

All catheters are latex free

Carotid Shunts

JAVID™ Carotid Shunt



Product Code	Length (cm)	Size (F)	Pack Quantity
007714	27,5	17 tapered to 10	5

BRENER™ Carotid Shunt



Product Code	Length (cm)	Size (F)	Pack Quantity
007755	13	14 tapered to 8 with access "T" side arm	5

BURBANK™ Carotid Shunt



Product Code	Length (cm)	Size (F)	Pack Quantity
SGA149001	15,5	15 tapered to 10	5
SGA150001	15,5	12 tapered to 9	5
SGA162001	15,5	18 tapered to 12	5

BARD® Straight Shunt

- No side hole



Product Code	Length (cm)	Size (F)	Pack Quantity
000671	13	10	5
000673	13	12	5
000675	13	14	5
000677	13	16	5

BARD® Straight Shunt

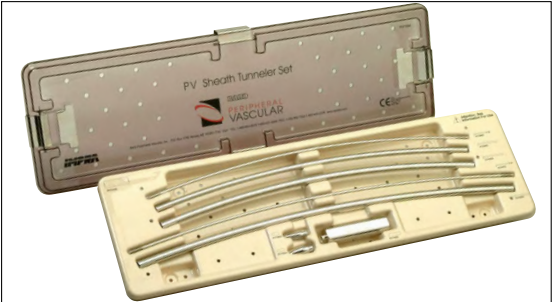
- One side hole each end



Product Code	Length (cm)	Size (F)	Pack Quantity
000679	13	10	5
000681	13	12	5
000683	13	14	5
000685	13	16	5

Tunneler Sets

Peripheral Vascular Sheath Tunneler Set



Product Code	
PVT1000	Complete Set*

*The set comprises one of each component

Replacement Parts

Product Code		Length (cm)	Diameter (mm)
PVT0100	Cassette		
PVT0200	Handle		
PVT0300	Short Sheath	48	8.5
PVT0400	Short Sheath	48	11
PVT0500	Long Sheath	58	11
PVT0600	Short Rod		
PVT0700	Long Rod		
PVT0800	8.5mm Bullet Tip		
PVT0900	11mm Bullet Tip		

Tunneler Sets

AV Access Sheath Tunneler Set



Product Code	
AVST2000	Complete Set*

Replacement Parts*

Product Code		Length (cm)
AVSTS0005	5mm Straight Sheath	23
AVSTS0605	5mm 60° Sheath* ¹	22
AVSTS1205	5mm 120° Sheath* ¹	22
AVST0015	5mm Bullet Tip	-
AVST0025	5mm Blunt Tip	-
AVSTS0006	6/7mm Straight Sheath	23
AVSTS0606	6/7mm 60° Sheath* ¹	22
AVSTS1206	6/7mm 120° Sheath* ¹	22
AVSTS1806	6/7mm 180° Sheath	19
AVST0016	6/7mm Bullet Tip	-
AVST0026	6/7mm Blunt Tip	-
AVSTR000	Straight Rod	24.5
AVSTR060	60° Rod	23.5
AVSTR120	120° Rod	23.5
AVSTR180	180° Rod	20.5
AVST0200	Handle	-
AVST0100	Cassette	-

*¹ 2/set

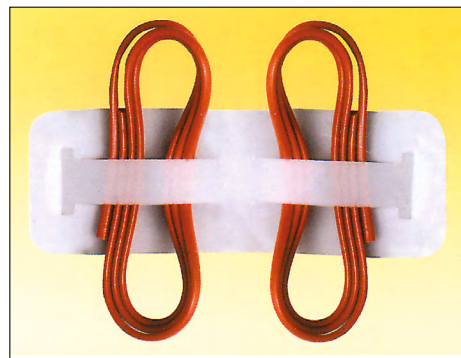
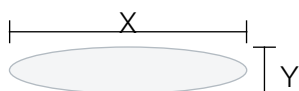
* The complete set comprises one of each component and two of each marked with *¹

Replacement parts are available on demand. Please contact your Bard representative for further information.

Vascular Accessories

BARD® Vessel Loops

- For Identification, Occlusion and Retraction



Product Code	Colour	Size	Length (cm)	X axis (mm)	Y axis (mm)
VLC45W	white	micro	45	0.7	0.5
VLS45R	red	mini	45	1.25	0.95
VLS45Y	yellow	mini	45	1.25	0.95
VLS45W	white	mini	45	1.25	0.95
VLS45B	blue	mini	45	1.25	0.95
VLM45R	red	medium	45	2.5	1.4
VLM45Y	yellow	medium	45	2.5	1.4
VLM45W	white	medium	45	2.5	1.4
VLM45B	blue	medium	45	2.5	1.4
VLL45B	blue	large	45	5.3	1.7

Packaging: Pouch contains 2 loops

Shelf box contains 10 pouches (20 loops)

Unit of sale is one shelf box

CARDIAL™ Surgical Glue



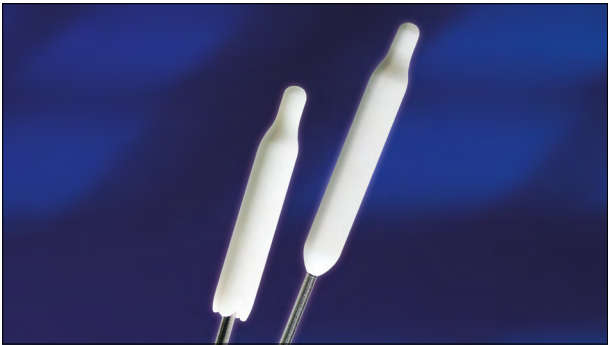
Product Code	Adhesive Tube Content (g)
52000	15

Each pack includes:

- Flexible tube containing the Gelatin Resorcinol mixture
- Opaque glass bottle containing the formaldehyde/glutaraldehyde polymerising agent
- Syringe with special extension tube for drawing up and applying the polymerising agent

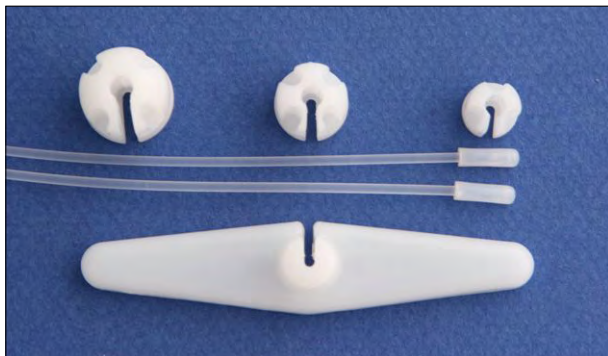
Vascular Accessories

CARDIAL™ Chevalier Valvulotome



Product Code	Length (cm)	Diameter (mm)
40025	70	2.5
40030	70	3.0
40035	70	3.5

Vein Stripper



Product Code	Description
VE-022	Complete Pack Includes: 2 cables x 100cm, handle and 3 olives (9.5mm, 12.8mm, 15.4mm)
DVS100	Economy Set Includes: 1 cable x 100cm, and 1 9.5 olive

Please consult product labels and inserts for any indication, contraindications, hazards, warnings, precautions, and instructions for use.

Atlas, Bantam, Bard, Brener, Burbank, Caliber, Carboflo, Cardial, CenterFlex, Checker, ClearPAC, Conquest, Crosser, DeBakey, Denali, Dialine, Distaflo, Dorado, Dynaflo, E•Luminexx, FlowMate, Fluency, Javid, Jet Lysis, LifeStar, LifeStent, LifeStream, LitePAC, Lutonix, MicroSheath, Pebax, PerforMAXX, Recovery, ReeFlex, ReeKross, Rival, Sauvage, Seeker, SideKick, SilkenFlex, Solo, Ultraverse, Ultra-Cross, Usher, Valeo, VascuTrak, Vectra, Venaflo, Vivexx, and Wovex are trademarks and/or registered trademarks of C. R. Bard, Inc., or an affiliate.

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OPERATING ROOM **ESSENTIALS**

THE COMPLETE
SOLUTION
YOU CAN TRUST



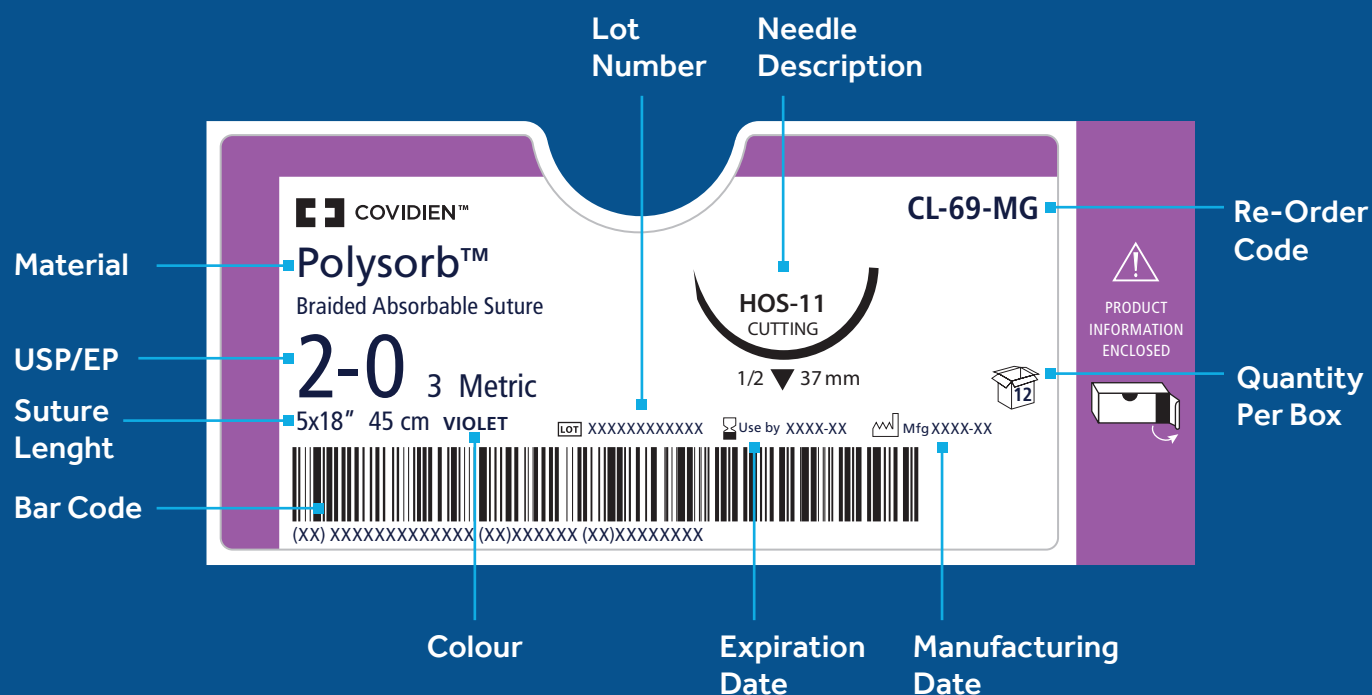
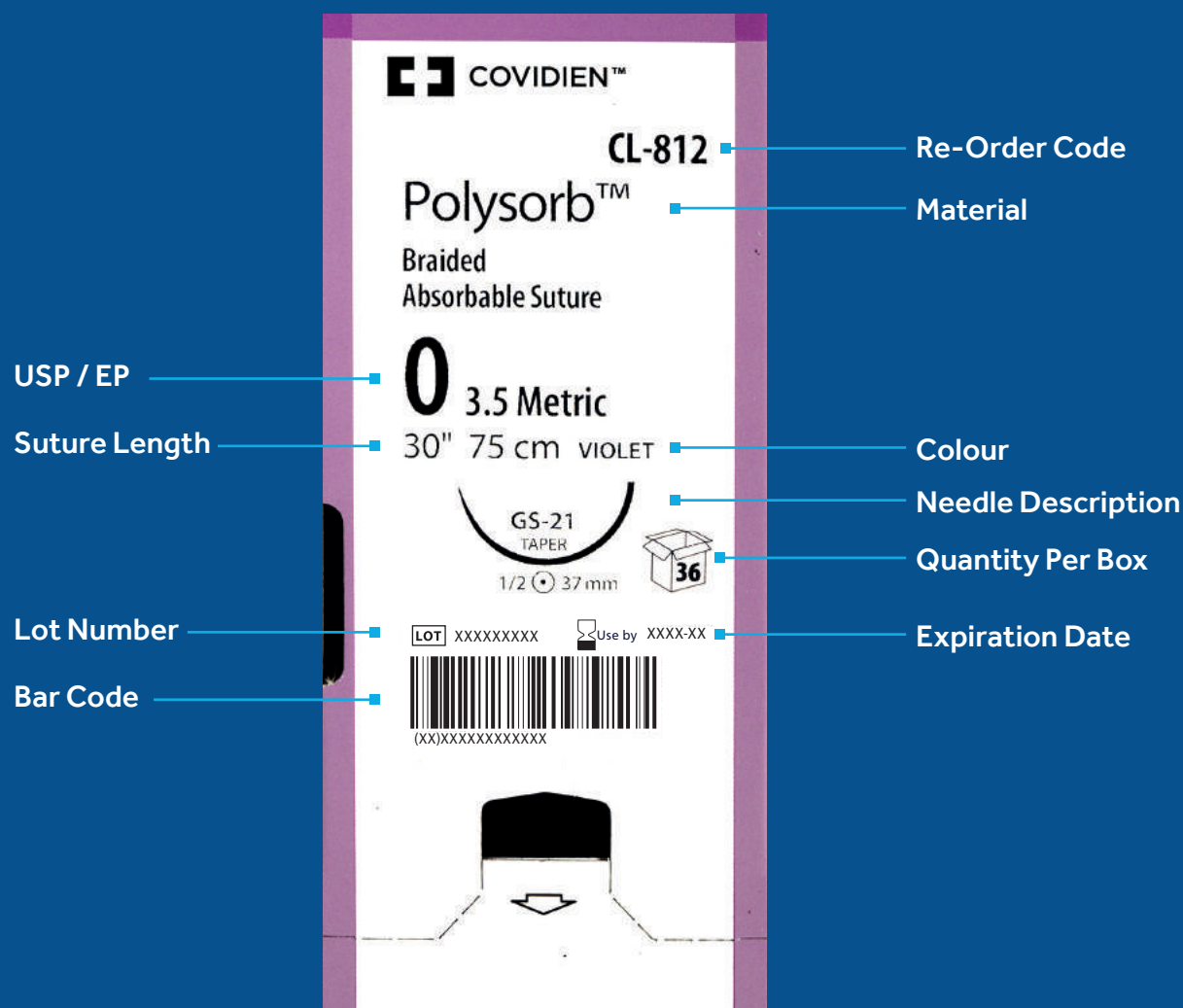
Wound Closure **Catalogue**

September 2017

Medtronic
Further, Together



HOW TO READ A SUTURE LABEL



WHY MEDTRONIC?

Medtronic have an extensive heritage in partnerships with Public Hospitals and Private Groups. Delivering value-based healthcare, clinical expertise and innovation through products and services that are focused on patient care and clinical outcomes.

OR ESSENTIALS

We pride ourselves on being a brand you can trust. With our proven track record of **quality products and services**, you can feel reassured that Medtronic's OR Essentials will help you to continue providing **the very best patient care** from the first mark to the last stitch. Let's embrace the future together.



Operating Room Supplies



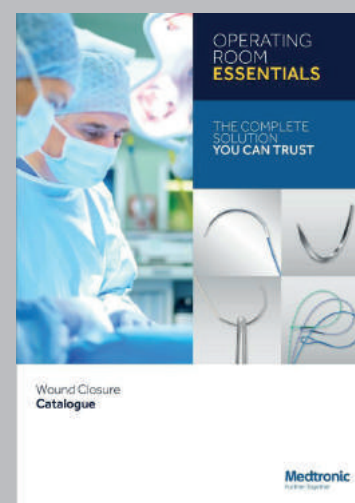
Laparoscopic Access



Cardiothoracic



Surgical Instruments



Wound Closure

INTRODUCTION

A Comprehensive Portfolio of Wound Closure Materials and Accessories

We're all part of the same community. A community entrusted with enhancing and saving the lives of patients. At Medtronic, we actively partner with you to provide your patients with the most optimal care. Every day. Whatever role you play, we're here for you — leveraging over 100 years of expertise and insight to innovate wound closure solutions. We are committed to remaining by your side for the next 100 years, evolving with your changing needs so you can keep delivering the highest levels of patient care. Our comprehensive portfolio of effective wound closure solutions is for the full spectrum of general and specialty procedures.

Absorbable Sutures

Absorbable sutures from Medtronic provide strength retention and absorption profiles to meet your surgical specialty and tissue healing requirements.

Non-Absorbable Sutures

Non-absorbable sutures from Medtronic can be used in a range of procedures, including cardiovascular, ophthalmic and neurological surgery.

Barbed Wound Closure

The V-Loc™ wound closure device is a revolutionary technology that eliminates the need to tie knots, so you can close incisions up to 50% faster without compromising strength and security

Wound Closure Accessories

Wound closure accessories from Medtronic include bone wax, bolsters, suture racks, cardiovascular pledgets and umbilical tape

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	Maxon™ / Maxon™ CV	76
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	Ti-Cron™ / Surgidac™	120
	Vascufil™	144
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VELOSORB™ FAST

Braided Fast Absorbable Suture

There when you need it. Gone when you don't.



Braided absorbable sutures for use in soft tissue approximation when 7–10 days of wound support is required.

- Velosorb™ Fast suture is stronger than the competition for the first 7 to 10 days.
- Velosorb™ Fast suture has no tensile strength after 14 days¹
- No removal means enhanced patient comfort
- Fast absorption profile

Absorption

By Hydrolysis. Essentially complete within 40 to 50 days.

Tensile Strength

No less than 45% of its original tensile strength 5 days post-implantation. All of the original tensile strength is essentially gone by 14 days.

Packaging

Are available in USP sizes 1 (4 Metric) through 6–0 (0.7 Metric). They are available undyed (natural). The sutures are supplied sterile, in pre-cut lengths affixed to various needle types.

Indications

Indicated for use in soft tissue approximation of the skin, mucosa and conjunctiva, where only 7–10 days of wound support is required, but not for use in ligation, cardiovascular or neurological tissue.



Description

Velosorb™ Fast absorbable braided sutures are composed of an absorbable synthetic polyester comprised of glycolide and lactide (derived from glycolic and lactic acids). Velosorb™ Fast absorbable sutures are prepared by coating the suture with a mixture of a glycolide and lactide copolymer and calcium stearate.

Indications

Velosorb™ Fast absorbable sutures are indicated for use in soft tissue approximation of the skin, mucosa and conjunctiva, where only 7-10 days of wound support is required, but not for use in ligation, cardiovascular or neurological tissue.

Actions

Velosorb™ Fast absorbable sutures elicit a minimal acute inflammatory reaction in tissue, which is followed by a gradual encapsulation of the suture by fibrous connective tissue. Progressive loss of tensile strength and eventual absorption of Velosorb™ Fast absorbable sutures occurs by means of hydrolysis, where the glycolide/lactide copolymer is broken down to glycolic and lactic acids which are subsequently absorbed and metabolized by the body.

Tensile Strength

Studies indicate tensile strength averages for Velosorb™ Fast absorbable sutures are no less than 45% of its original tensile strength 5 days post implantation. All of the original tensile strength is essentially gone by 14 days.

Sterilization

Gamma irradiation.

Absorbtion

Absorption begins as a loss of tensile strength without appreciable loss of mass. Absorption of Velosorb™ Fast absorbable sutures is essentially complete between the 40th and 50th day.

Packaging

Velosorb™ Fast absorbable sutures are available in USP sizes 1 (4 Metric) through 6-0 (0.7 Metric). They are available undyed (natural). The sutures are supplied sterile, in pre-cut lengths affixed to various needle types. Please refer to the individual package IFUs for complete instructions, indications, contraindications, warnings and precautions.

Please refer to the individual package IFUs for complete instructions, indications, contraindications, warnings and precautions.

1. IFU indicates tensile strength averages for Velosorb™ Fast sutures are approximately 50% of its original tensile strength 5 days post implantation. All of the original tensile strength is gone by 14 days.
Absorption of Velosorb™ Fast sutures is essentially complete between the 40th and 50th day.



Velosorb™ Fast absorbable suture

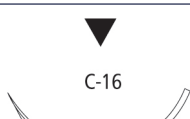
Fast braided absorbable suture for use in soft tissue approximation of the skin and mucosa, when only 7–10 days of wound support is required.

PRE-CUT								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
	4-0	1.5	6 × 45	18	Undyed	36		CV-8977
	4-0	1.5	3 × 45	18	Undyed	36		CV-8643
	3-0	2	6 × 45	18	Undyed	36		CV-8978
	3-0	2	3 × 45	18	Undyed	36		CV-8644
	2-0	3	6 × 45	18	Undyed	36		CV-8979
	2-0	3	5 × 75	30	Undyed	36		CV-8653
	0	3.5	6 × 45	18	Undyed	36		CV-8980

STANDARD LENGTH								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
CV-9006G	3-0	2	150	60	Undyed	12	Std Length	CV-9006G
CV-9007G	2-0	3	150	60	Undyed	12	Std Length	CV-9007G

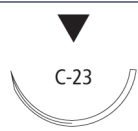
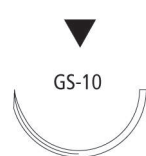
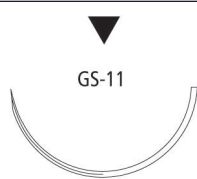
REVERSE CUTTING								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
C-1 3/8 Circle 12.0 mm 	5-0	1	75	30	Undyed	36		SV-2289
	4-0	1.5	45	18	Undyed	36		SV-1290
	4-0	1.5	75	30	Undyed	36		SV-2290
C-12 3/8 Circle 16.0 mm 	5-0	1	75	30	Undyed	36		SV-2296
	4-0	1.5	75	30	Undyed	36		SV-2294
	3-0	2	75	30	Undyed	36		SV-2295



REVERSE CUTTING										
Needles Specifications			Size		Length		Color	Units	Comments	Reorder code
			USP	EP	cm	Inches				
C-13 3/8 Circle 19.0 mm 	5-0	1	45	18	Undyed	36		SV-2910		
	4-0	1.5	45	18	Undyed	36		SV-2920		
	4-0	1.5	75	30	Undyed	36		SV-2297		
	3-0	2	45	18	Undyed	36		SV-2930		
	3-0	2	75	30	Undyed	36		SV-2298		
	2-0	3	75	30	Undyed	36		SV-2299		
C-14 3/8 Circle 24.0 mm 	4-0	1.5	75	30	Undyed	36		SV-2251		
	3-0	2	45	18	Undyed	36		SV-4431		
	3-0	2	75	30	Undyed	36		SV-2252		
	2-0	3	75	30	Undyed	36		SV-2253		
C-15 3/8 Circle 26.0 mm 	3-0	2	75	30	Undyed	12		SV-9940G		
	2-0	3	75	30	Undyed	12		SV-9941G		
C-16 3/8 Circle 30.0 mm 	3-0	2	90	36	Undyed	36		SV-2285		
	2-0	3	90	36	Undyed	36		SV-2286		
	0	3.5	90	36	Undyed	36		SV-2287		
C-17 3/8 Circle 39.0 mm 	2-0	3	75	30	Undyed	12		SV-9961G		





REVERSE CUTTING										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
C-22 1/2 Circle 20.0 mm		4-0	1.5	45	18	Undyed	36		SV-4550	
C-23 1/2 Circle 24.0 mm		4-0	1.5	45	18	Undyed	36		SV-9926	
		3-0	2	45	18	Undyed	36		SV-9927	
		2-0	3	45	18	Undyed	36		SV-9928	
GS-10 1/2 Circle 26.0 mm		2-0	3	75	30	Undyed	12		CV-9936G	
GS-11 1/2 Circle 37.0 mm		3-0	2	135	54	Undyed	12		CV-931G	
		2-0	3	90	36	Undyed	36		CV-4721	
		2-0	3	135	54	Undyed	12		CV-932G	
		0	3.5	90	36	Undyed	36		CV-4731	
GS-12 1/2 Circle 40.0 mm		0	3.5	90	36	Undyed	36		CV-485	
		1	4	90	36	Undyed	36		CV-486	

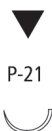
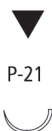




PREMIUM REVERSE CUTTING										
Needles Specifications			Size		Length		Color	Units	Comments	Reorder code
			USP	EP	cm	Inches				
P-10 3/8 Circle 11.0 mm 	6-0	0.7	45	18	Undyed	36		SV-9913		
	6-0	0.7	45	18	Violet	36		SV-32		
	6-0	0.7	75	30	Undyed	36		SV-4893		
	5-0	1	45	18	Undyed	36		SV-9915		
P-13 3/8 Circle 13.0 mm 	5-0	1	45	18	Undyed	36		SV-493		
	4-0	1.5	45	18	Undyed	36		SV-494		
	4-0	1.5	75	30	Undyed	36	Surgalloy™	SVP-494		
P-11 3/8 Circle 16.0 mm 	5-0	1	75	30	Undyed	36	Surgalloy™	SVP-2296		
	4-0	1.5	75	30	Undyed	36	Surgalloy™	SVP-2294		
	3-0	2	75	30	Undyed	36	Surgalloy™	SVP-2295		
P-12 3/8 Circle 19.0 mm 	4-0	1.5	45	18	Undyed	12		SV-496G		
	4-0	1.5	45	18	Undyed	36		SV-496		
	4-0	1.5	75	30	Undyed	36		SV-426		
	4-0	1.5	90	36	Undyed	36		SV-412		
	3-0	2	45	18	Undyed	12		SV-497G		
	3-0	2	75	30	Undyed	36		SV-425		
	2-0	3	75	30	Undyed	36		SV-424		
P-14 3/8 Circle 24.0 mm 	4-0	1.5	75	30	Undyed	36		SVP-2251		
	3-0	2	45	18	Undyed	36		SV-6830		
	3-0	2	75	30	Undyed	36		SV-935		
	2-0	3	45	18	Undyed	36		SV-6840		
	2-0	3	75	30	Undyed	36		SV-439		
P-17 3/8 Circle 30.0 mm 	3-0	2	90	36	Undyed	36		SVP-2285		
P-18 3/8 Circle 38.0 mm 	3-0	2	75	30	Undyed	12		SV-9937G		
	2-0	3	75	30	Undyed	12		SV-9938G		



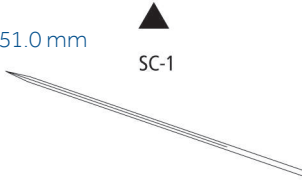
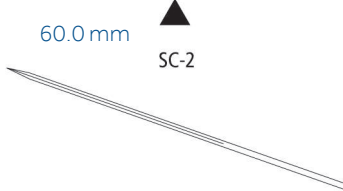


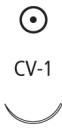
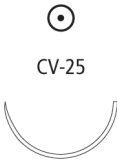
PREMIUM REVERSE CUTTING											
Needles Specifications				Size		Length		Color	Units Per box	Comments	Reorder code
				USP	EP	cm	Inches				
P-21 1/2 Circle 9.0 mm 		4-0	1.5	45	18	Undyed	36		SV-1642		
P-24 1/2 Circle 16.0 mm 		5-0	1	45	18	Undyed	12		SV-9910G		
		4-0	1.5	45	18	Undyed	12		SV-9911G		

CONVENTIONAL CUTTING										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
PC-10 3/8 Circle 13.0 mm		5-0	1	45	18	Undyed	12		SV-834G	
		4-0	1.5	45	18	Undyed	12		SV-835G	
PC-11 3/8 Circle 16.0 mm		6-0	0.7	75	30	Undyed	12		SV-489G	
		5-0	1	45	18	Undyed	12		SV-844G	
		4-0	1.5	45	18	Undyed	12		SV-845G	
		4-0	1.5	75	30	Undyed	12		SV-488G	
		3-0	2	75	30	Undyed	12		SV-487G	
SC-11 Straight 11.0 mm		4-0	1.5	45	18	Undyed	12		SV-9909G	



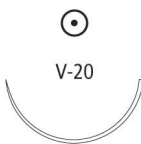
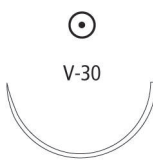


CONVENTIONAL CUTTING								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
SC-1 Straight 51.0 mm 	4-0	1.5	75	30	Undyed	36		SV-2238
	3-0	2	75	30	Undyed	36		SV-2239
	2-0	3	75	30	Undyed	36		SV-2240
SC-2 Straight 60.0 mm 	3-0	2	75	30	Undyed	36		SV-9943
	2-0	3	75	30	Undyed	12		SV-9944G

TAPER POINT								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
CV-1 3/8 Circle 9.0 mm 	8-0	0.4	30	12	Violet	12		CV-9916G
CV-23 1/2 Circle 17.0 mm 	5-0	1	75	30	Undyed	36		CV-1213
	4-0	1.5	75	30	Undyed	36		CV-1214
	3-0	2	75	30	Undyed	36		CV-1215
CV-25 1/2 Circle 22.0 mm 	4-0	1.5	75	30	Undyed	36	Optivis™	CV-3100
	3-0	2	75	30	Undyed	36	Optivis™	CV-3110
	2-0	3	75	30	Undyed	36		CV-3120

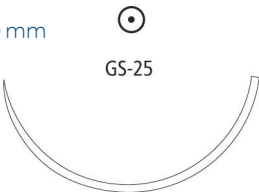
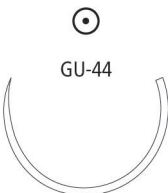
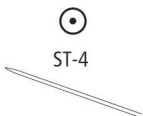




TAPER POINT										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
V-20 1/2 Circle 26.0 mm		V-20	4-0	1.5	75	30	Undyed	36		CV-415
			3-0	2	75	30	Undyed	12		CV-416G
			2-0	3	75	30	Undyed	12		CV-417G
			0	3.5	75	30	Undyed	36		CV-418
GS-22 1/2 Circle 27.0 mm		GS-22	2-0	3	75	30	Undyed	36		CV-55
			0	3.5	75	30	Undyed	36		CV-56
			1	4	75	30	Undyed	36		CV-57
V-30 1/2 Circle 30.0 mm		V-30	0	3.5	75	30	Undyed	36		CV-318
			1	4	75	30	Undyed	36		CV-319
GS-20 1/2 Circle 34.0 mm		GS-20	2-0	3	75	30	Undyed	12		CV-9975G
GS-21 1/2 Circle 37.0 mm		GS-21	3-0	2	75	30	Undyed	36		CV-322
			3-0	2	90	36	Undyed	36		CV-944
			2-0	3	75	30	Undyed	36		CV-323
			2-0	3	90	36	Undyed	36		CV-945
			0	3.5	75	30	Undyed	36		CV-1324
			0	3.5	90	36	Undyed	36		CV-946
			1	4	90	36	Undyed	36		CV-947





TAPER POINT								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
GS-24 1/2 Circle 40.0 mm 	2-0	3	90	36	Undyed	36		CV-9592
	0	3.5	90	36	Undyed	36		CV-9591
	1	4	90	36	Undyed	36		CV-9590
GS-25 1/2 Circle 48.0 mm 	2-0	3	90	36	Undyed	36		CV-606
	0	3.5	90	36	Undyed	36		CV-604
	1	4	90	36	Undyed	36		CV-605
GU-45 5/8 Circle 37.0 mm 	2-0	3	75	30	Undyed	36		UV-412
	1	4	90	36	Undyed	36		UV-401
GU-44 5/8 Circle 40.0 mm 	0	3.5	90	36	Undyed	36		UV-1381
	1	4	90	36	Undyed	36		UV-1382
ST-4 Straight 19.0 mm 	4-0	1.5	75	30	Undyed	36		CV-1673

HEAVY TAPER POINT								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
HGS-20 1/2 Circle 34.0 mm 	1	4	90	36	Undyed	36		CV-1696



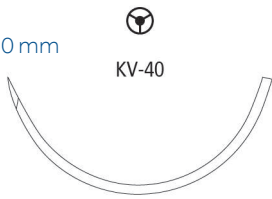


TAPERCUTTING										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
KV-11 3/8 Circle 13.0 mm	 KV-11 	5-0	1	75	30	Undyed	36		CV-2293	
KV-15 3/8 Circle 17.0 mm	 KV-15 	4-0	1.5	45	18	Undyed	12		CV-2275G	
		4-0	1.5	75	30	Undyed	36		CV-2279	
		3-0	2	75	30	Undyed	36		CV-2280	
KV-5 1/2 Circle 17.0 mm	 KV-5 	3-0	2	75	30	Undyed	12		CV-1674G	
KV-7 1/2 Circle 26.0 mm	 KV-7 	3-0	2	75	30	Undyed	12		CV-2003G	
		2-0	3	90	36	Undyed	36		CV-1002	
KV-34 1/2 Circle 37.0 mm	 KV-34 	3-0	2	90	36	Undyed	36		CV-916	
		2-0	3	90	36	Undyed	36		CV-917	
		2-0	3	120	48	Undyed	36		CV-927	
		0	3.5	90	36	Undyed	36		CV-919	
		1	4	90	36	Undyed	36		CV-918	
KV17-C14 1/2 Circle 40.0 mm Double-arm		2-0	3.5/3	3 × 90	36t	Undyed	24	0 KV-34, 2-0 C-14	CV-0146	





TAPERCUTTING

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
KV-37 1/2 Circle 40.0 mm 	2-0	3	90	36	Undyed	36		CV-2218
	0	3.5	90	36	Undyed	36		CV-2217
	1	4	90	36	Undyed	36		CV-2216
KV37-C-14 1/2 Circle 40.0 mm Double-arm	2-0	3.5/3	3 × 75	30	Undyed	24	Set, 3 strands per pouch	CV-0046
KV-40 1/2 Circle 48.0 mm 	2-0	3	90	36	Undyed	36		CV-7192
	0	3.5	90	36	Undyed	36		CV-7191
	1	4	90	36	Undyed	36		CV-7190

BLUNT POINT

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
BGS-24 1/2 Circle 40.0 mm 	0	3.5	90	36	Undyed	36		CV-9953

SPATULA

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
SE-140-8 3/8 Circle 6.3 mm 	8-0	0.4	30	12	Violet	12		CV-501G
	7-0	0.5	30	12	Violet	12		CV-500G



POLYSORB™

Braided Absorbable Suture

Stronger¹ during the critical wound healing period



The strength of Polysorb™ suture, provided by the greater[‡] number of more tightly braided filaments, provides greater security during the Critical Wound Healing Period.¹⁻³

Absorption

By Hydrolysis. Essentially complete within 56–70 days

Tensile Strength

Approximately 140% of USP and EP, 80% after 2 weeks and 30% @ 3 weeks post implantation.

Packaging

Polysorb™ sutures are available in USP sizes 2 (5 Metric) through 8-0 (0.4 Metric).

They are available undyed or violet colored.

The sutures are supplied sterile, in pre-cut lengths and ligating reels, non-needled or affixed to various needle types using both permanent and removable needle attachment techniques; in one, two or three dozen boxes.

Indications

Indicated for use in soft tissue approximation or ligation and ophthalmic surgery, but not in cardiovascular or neural tissue.



Description

Polysorb™ braided sutures are composed of Lactomer™ glycolide/lactide copolymer which is a synthetic polyester composed of glycolide and lactide (derived from glycolic and lactic acids). Polysorb™ sutures are prepared by coating the suture with a mixture of a caprolactone/glycolide copolymer and calcium stearoyl lactylate.

Indications

Polysorb™ sutures are indicated for use in soft tissue approximation or ligation and ophthalmic surgery, but not in cardiovascular or neural tissue.

Actions

Polysorb™ sutures elicit a minimal acute inflammatory reaction in tissue, which is followed by a gradual encapsulation of the suture by fibrous connective tissue. Progressive loss of tensile strength and eventual absorption of Polysorb™ sutures occurs by means of hydrolysis, where the Lactomer™ glycolide/lactide copolymer is broken down to glycolic and lactic acids which are subsequently absorbed and metabolized by the body.

Tensile Strength

Studies indicate tensile strength averages for Polysorb™ sutures are approximately 140% of USP and E.P. minimum knot strength initially, are approximately 80% after two weeks and in excess of 30% at three weeks post implant.

Sterilization

Ethylene oxide.

Absorbtion

Absorption begins as a loss of tensile strength without appreciable loss of mass. Absorption of Polysorb™ sutures is essentially complete between the 56th and 70th day.

Packaging

Polysorb™ sutures are available in USP sizes 2 (5 Metric) through 8–0 (0.4 Metric). They are available undyed (natural) or violet colored. The sutures are supplied sterile, in pre-cut lengths and ligating reels, non-neededled or affixed to various needle types using both permanent and removable needle attachment techniques. Please refer to the individual package IFUs for complete instructions, indications, contraindications, warnings and precautions.

1. van Ramshorst GH et al. World J Surg 2010;54:20–7

2. Covidien. Polysorb(tm)Instructions for use

3. Vicryl™*. Instructions for use

‡ Compared to Vicryl™* suture.

Please refer to the individual package IFUs for complete instructions, indications, contraindications, warnings and precautions.



Polysorb™

Polysorb™ suture is a brand you have trusted for over 20 years with a history of improvements and performance.

PRE-CUT								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
	4-0	1.5	3 × 45	18	Violet	36	Pre-cut	L-71
	4-0	1.5	6 × 45	18	Violet	24	Pre-cut	L-20
	4-0	1.5	12 × 45	18	Violet	24	Pre-cut	L-11
	4-0	1.5	12 × 45	18	Undyed	24	Pre-cut	L-1-
	3-0	2	3 × 45	18	Violet	36	Pre-cut	L-72
	3-0	2	6 × 45	18	Violet	24	Pre-cut	L-22
	3-0	2	12 × 45	18	Undyed	24	Pre-cut	L-2-
	3-0	2	12 × 45	18	Violet	24	Pre-cut	L-12
	3-0	2	12 × 60	24	Violet	24	Pre-cut	L-32
	3-0	2	3 × 75	30	Violet	24	Pre-cut	L-402
	3-0	2	6 × 75	30	Violet	24	Pre-cut	L-38
	2-0	3	3 × 45	18	Violet	36	Pre-cut	L-73
	2-0	3	12 × 45	18	Undyed	24	Pre-cut	L-3
	2-0	3	6 × 45	18	Violet	24	Pre-cut	L-23
	2-0	3	12 × 45	18	Violet	24	Pre-cut	L-13-
	2-0	3	12 × 60	24	Violet	24	Pre-cut	L-33
	2-0	3	12 × 75	30	Undyed	24	Pre-cut	L-43
	2-0	3	3 × 75	30	Violet	24	Pre-cut	L-403
	2-0	3	6 × 75	30	Violet	24	Pre-cut	L-39
	0	3.5	3 × 45	18	Violet	36	Pre-cut	L-74
	0	3.5	6 × 45	18	Undyed	24	Pre-cut	L-4
	0	3.5	12 × 45	18	Violet	24	Pre-cut	L-27
	0	3.5	12 × 45	18	Undyed	24	Pre-cut	L-24
	0	3.5	6 × 45	18	Violet	24	Pre-cut	L-14
	0	3.5	12 × 60	24	Violet	24	Pre-cut	L-34
	0	3.5	3 × 75	30	Violet	24	Pre-cut	L-404
	0	3.5	6 × 75	30	Violet	24	Pre-cut	L-40
	1	4	3 × 45	18	Violet	36	Pre-cut	L-75
	1	4	6 × 45	18	Undyed	24	Pre-cut	L-5
	1	4	12 × 45	18	Violet	24	Pre-cut	L-35
	1	4	12 × 45	18	Undyed	24	Pre-cut	L-25
	1	4	6 × 45	18	Violet	24	Pre-cut	L-15
	1	4	12 × 60	24	Violet	24	Pre-cut	L-36



PRE-CUT

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
	1	4	6 × 75	30	Violet	24	Pre-cut	L-41
	1	4	3 × 75	30	Violet	24	Pre-cut	L-405
	2	5	3 × 45	18	Violet	36	Pre-cut	L-76
	2	5	12 × 45	18	Violet	24	Pre-cut	L-28
	2	5	12 × 45	18	Undyed	24	Pre-cut	L-26
	2	5	6 × 75	30	Violet	24	Pre-cut	L-42
	2	5	3 × 75	30	Violet	24	Pre-cut	L-406

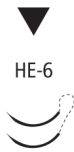
STANDARD LENGTH

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
	4-0	1.5	150	60	Violet	36	Standard length	L-111
	3-0	2	150	60	Undyed	36	Standard length	L-102
	3-0	2	150	60	Violet	36	Standard length	L-112
	2-0	3	150	60	Undyed	36	Standard length	L-103
	2-0	3	150	60	Violet	36	Standard length	L-113
	0	3.5	150	60	Violet	36	Standard length	L-114
	0	3.5	150	60	Undyed	36	Standard length	L-104
	2	5	150	60	Violet	36	Standard length	L-116
	1	4	150	60	Violet	36	Standard length	L-115





REEL								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
	4-0	1.5	150	60	Violet	24	Reel	LL-111
	4-0	1.5	150	60	Undyed	24	Reel	LL-101
	4-0	1.5	250	98	Violet	24	Reel	LL-221
	3-0	2	150	60	Violet	24	Reel	LL-112
	3-0	2	150	60	Undyed	24	Reel	LL-102
	3-0	2	250	98	Undyed	24	Reel	LL-322
	3-0	2	250	98	Violet	24	Reel	LL-222
	2-0	3	150	60	Violet	24	Reel	LL-113
	2-0	3	150	60	Undyed	24	Reel	LL-103
	2-0	3	250	98	Undyed	24	Reel	LL-323
	2-0	3	250	98	Violet	24	Reel	LL-223
	2-0	3	366	144	Violet	24	Reel	LL-233
	0	3.5	150	60	Violet	24	Reel	LL-114
	0	3.5	150	60	Undyed	24	Reel	LL-104
	0	3.5	250	98	Violet	24	Reel	LL-224
	1	4	150	60	Violet	24	Reel	LL-115
	1	4	250	98	Violet	24	Reel	LL-225
	2	5	150	60	Violet	24	Reel	LL-116
	2	5	250	98	Violet	24	Reel	LL-226

REVERSE CUTTING								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
HE-6 3/8 Circle 7.4 mm Double-arm		6-0	0.7	45	18	Violet	12	Surgalloy™ L-1551-K
C-1 3/8 Circle 12.0 mm		6-0	0.7	45	18	Undyed	36	SL-171
		5-0	1	45	18	Undyed	36	SL-172
HE-3 3/8 Circle 13.0 mm Double-arm		5-0	1	30	12	Undyed	12	Surgalloy™ L-4323K



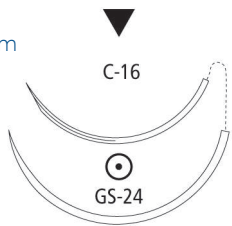
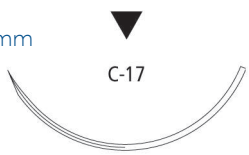




REVERSE CUTTING								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
C-12 3/8 Circle 16.0 mm 	5-0	1	75	30	Violet	36		SL-630
	4-0	1.5	75	30	Violet	36		SL-607
	4-0	1.5	75	30	Undyed	36		SL-605
	3-0	2	75	30	Violet	36		SL-608
C-13 3/8 Circle 19.0 mm 	5-0	1	45	18	Undyed	36		SL-639
	5-0	1	75	30	Violet	36		SL-634
	5-0	1	75	30	Undyed	36		SL-690
	4-0	1.5	45	18	Undyed	12		SL-638
	4-0	1.5	75	30	Undyed	12		SL-691G
	4-0	1.5	75	30	Undyed	36		SL-691
	4-0	1.5	75	30	Violet	12		SL-635G
	4-0	1.5	75	30	Violet	36		SL-635
	3-0	2	45	18	Undyed	36		SL-637
	3-0	2	75	30	Undyed	36		SL-822
	3-0	2	75	30	Undyed	12		SL-822G
	3-0	2	75	30	Violet	36		SL-636
C-14 3/8 Circle 24.0 mm 	4-0	1.5	75	30	Violet	36		SL-695
	4-0	1.5	75	30	Undyed	36		SL-692
	3-0	2	75	30	Undyed	36		SL-693
	3-0	2	75	30	Violet	36		SL-694
	2-0	3	75	30	Undyed	36		SL-823
	2-0	3	75	30	Violet	36		CL-823
C-15 3/8 Circle 26.0 mm 	3-0	2	5 × 45	18	Undyed	12	D-Tach™	SL-73-MG
	2-0	3	75	30	Undyed	36		SL-586
	0	3.5	75	30	Undyed	36		SL-587

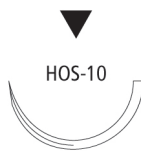
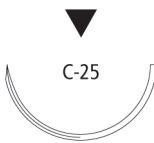
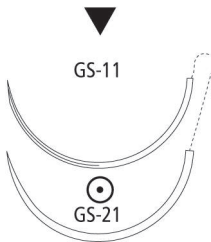




REVERSE CUTTING									
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code	
	USP	EP	cm	Inches					
C-16 3/8 Circle 30.0 mm 	3-0	2	75	30	Undyed	36		SL-696	
	2-0	3	75	30	Violet	36		SL-714	
	2-0	3	75	30	Undyed	36		SL-611	
	0	3.5	75	30	Violet	36		SL-713	
	0	3.5	75	30	Undyed	36		SL-610	
	0	3.5	90	36	Violet	36		SL-712	
C-16 - GS-24 3/8 Circle 30.0 mm Double-arm (Not to scale) 	3-0	2	150	60	Undyed	36		CL-976	
	2-0	3	150	60	Undyed	36		CL-977	
C-17 3/8 Circle 39.0 mm 	2-0	3	75	30	Undyed	36		SL-674	
	2	5	90	36	Undyed	36		SL-675	
C-23 1/2 Circle 24.0 mm 	3-0	2	45	18	Undyed	36		CL-85	
	3-0	2	5 × 45	18	Undyed	12	D-Tach™	SL-85-MG	
	3-0	2	5 × 45	18	Violet	12	D-Tach™	SL-83-MG	
	3-0	2	75	30	Violet	36		SL-632	
	3-0	2	75	30	Undyed	36		SL-613	
	2-0	3	75	30	Violet	36		SL-631	
	2-0	3	75	30	Undyed	36		SL-612	
GS-10 1/2 Circle 26.0 mm 	3-0	2	5 × 45	18	Undyed	12	D-Tach™	CL-53MG	
	3-0	2	75	30	Undyed	36		CL-868	
	2-0	3	5 × 45	18	Undyed	12	D-Tach™	CL-52-MG	
	2-0	3	75	30	Undyed	36		CL-869	
	2-0	3	75	30	Violet	36		CL-769	
	0	3.5	75	30	Undyed	36		CL-870	
	1	4	75	30	Undyed	36		CL-867	

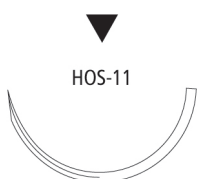




REVERSE CUTTING									
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code	
	USP	EP	cm	Inches					
HOS-10 1/2 Circle 26.0 mm 	2-0	3	3 × 45	18	Violet	12	D-Tach™	CL-356-MG	
	2-0	3	3 × 45	18	Undyed	12	D-Tach™	CL-354-MG	
	0	3.5	5 × 45	18	Undyed	12	D-Tach™	CL-55-MG	
	0	3.5	3 × 45	18	Undyed	12	D-Tach™	CL-355-MG	
	1	4	3 × 45	18	Violet	12	D-Tach™	CL-358-MG	
	1	4	75	30	Undyed	36		CL-581	
	1	4	75	30	Violet	36		CL-547	
	2	5	75	30	Violet	36		CL-552	
C-25 1/2 Circle 30.0 mm 	2-0	3	75	30	Violet	36		SL-622	
	0	3.5	90	36	Undyed	36		SL-721	
	1	4	90	36	Violet	36		SL-722	
GS-11 1/2 Circle 37.0 mm 	3-0	2	75	30	Violet	36		CL-815	
	3-0	2	75	30	Undyed	36		CL-542	
	2-0	3	75	30	Violet	36		CL-816	
	2-0	3	75	30	Undyed	36		CL-543	
	2-0	3	90	36	Violet	36		CL-916	
	0	3.5	75	30	Violet	36		CL-817	
	0	3.5	75	30	Undyed	36		CL-544	
	0	3.5	90	36	Violet	36		CL-917	
	0	3.5	90	36	Undyed	36		CL-534	
	1	4	75	30	Violet	36		CL-818	
	1	4	75	30	Undyed	36		CL-545	
	1	4	90	36	Violet	36		CL-918	
	1	4	90	36	Undyed	36		CL-535	
	2	5	90	36	Violet	36		CL-919	
	2	5	90	36	Undyed	36		CL-533	
	GS-11 - GS-21 1/2 Circle 37.0 mm Double-arm (Not to scale) 	3-0	2	150	60	Violet	36		CL-982
2-0		3	150	54	Violet	36		CL-992	



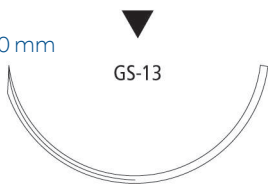
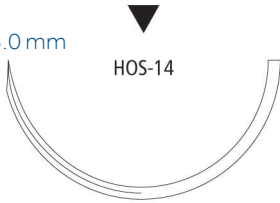


REVERSE CUTTING									
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code	
	USP	EP	cm	Inches					
HOS-11 1/2 Circle 37.0 mm 	2-0	3	3 × 45	18	Undyed	12	D-Tach™	CL-374-MG	
	2-0	3	3 × 45	18	Violet	12	D-Tach™	CL-369-MG	
	2-0	3	75	30	Violet	36		CL-526	
	2-0	3	75	30	Undyed	36		CL-536	
	0	3.5	3 × 45	18	Undyed	12	D-Tach™	CL-375-MG	
	0	3.5	3 × 45	18	Violet	12	D-Tach™	CL-370-MG	
	0	3.5	75	30	Undyed	36		CL-537	
	1	4	75	30	Undyed	36		CL-538	
	1	4	75	30	Violet	36		CL-528	
GS-12 1/2 Circle 40.0 mm 	2-0	3	75	30	Violet	36		CL-833	
	2-0	3	75	30	Undyed	36		CL-595	
	0	3.5	75	30	Violet	36		CL-804	
	0	3.5	75	30	Undyed	36		CL-596	
	0	3.5	90	36	Violet	36		CL-933	
	1	4	75	30	Violet	36		CL-805	
	1	4	75	30	Undyed	36		CL-597	
	1	4	90	36	Violet	36		CL-936	
	2	5	90	36	Violet	36		CL-937	
HOS-12 1/2 Circle 40.0 mm 	2-0	3	3 × 45	18	Violet	12	D-Tach™	CL-382-MG	
	0	3.5	3 × 45	18	Violet	12	D-Tach™	CL-380-MG	
	0	3.5	3 × 45	18	Undyed	12	D-Tach™	CL-376-MG	
	1	4	3 × 45	18	Violet	12	D-Tach™	CL-381-MG	
	1	4	3 × 45	18	Undyed	12	D-Tach™	CL-377-MG	
	1	4	5 × 75	30	Violet	12	D-Tach™	CL-97-MG	
	2	5	3 × 45	18	Violet	12	D-Tach™	CL-383-MG	





REVERSE CUTTING

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
GS-13 1/2 Circle 48.0 mm 	0	3.5	75	30	Violet	36		CL-568
	0	3.5	75	30	Undyed	36		CL-554
	0	3.5	90	36	Violet	36		CL-927
	1	4	75	30	Violet	36		CL-569
	1	4	75	30	Undyed	36		CL-555
	1	4	90	36	Violet	36		CL-928
	2	5	75	30	Violet	36		CL-570
	2	5	90	36	Undyed	36		CL-939
	2	5	90	36	Violet	36		CL-929
HOS-14 1/2 Circle 55.0 mm 	2	5	75	30	Violet	36		CL-979

PREMIUM REVERSE CUTTING

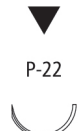
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
P-10 3/8 Circle 11.0 mm 	7-0	0.5	45	18	Undyed	12		SL-1624G
	6-0	0.7	45	18	Undyed	36	Surgalloy™	SL-1625
	6-0	0.7	45	18	Undyed	12	Surgalloy™	SL1625G
	5-0	1	45	18	Undyed	36	Surgalloy™	SL-1689
	5-0	1	45	18	Undyed	12	Surgalloy™	SL-1689G





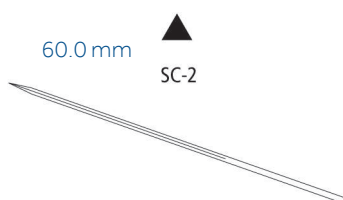
PREMIUM REVERSE CUTTING									
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code	
	USP	EP	cm	Inches					
P-13 3/8 Circle 13.0 mm 	6-0	0.7	45	18	Undyed	36	Surgalloy™	SL-5688	
	6-0	0.7	45	18	Undyed	12	Surgalloy™	SL-5688-G	
	5-0	1	45	18	Undyed	12	Surgalloy™	SL-5687G	
	5-0	1	45	18	Undyed	36	Surgalloy™	SL-5687	
	4-0	1.5	45	18	Undyed	12	Surgalloy™	SL-5691G	
	4-0	1.5	45	18	Undyed	36	Surgalloy™	SL-5690	
P-11 3/8 Circle 16.0 mm 	5-0	1	45	18	Undyed	36	Surgalloy™	SL-5626	
	4-0	1.5	45	18	Undyed	36	Surgalloy™	SL-5686	
	4-0	1.5	45	18	Undyed	12	Surgalloy™	SL-5686G	
	4-0	1.5	75	30	Undyed	36	Surgalloy™	SL-5620	
	3-0	2	75	30	Undyed	36	Surgalloy™	SL-5621	
P-12 3/8 Circle 19.0 mm 	5-0	1	45	18	Undyed	12	Surgalloy™	SL-5636-G	
	5-0	1	45	18	Undyed	36	Surgalloy™	SL-5636	
	4-0	1.5	45	18	Violet	36	Surgalloy™	SL-5629	
	4-0	1.5	45	18	Undyed	12	Surgalloy™	SL-5627-G	
	4-0	1.5	45	18	Undyed	36	Surgalloy™	SL-5627	
	4-0	1.5	75	30	Undyed	36	Surgalloy™	SL-5637	
	3-0	2	45	18	Undyed	12	Surgalloy™	SL-5628G	
	3-0	2	45	18	Undyed	36	Surgalloy™	SL-5628	
	3-0	2	75	30	Undyed	36	Surgalloy™	SL-5638	



PREMIUM REVERSE CUTTING									
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code	
	USP	EP	cm	Inches					
P-14 3/8 Circle 24.0 mm 	4-0	1.5	45	18	Undyed	12	Surgalloy™	SL-5641G	
	4-0	1.5	45	18	Undyed	36	Surgalloy™	SL-5641	
	4-0	1.5	75	30	Undyed	36	Surgalloy™	SL-5678	
	3-0	2	45	18	Undyed	12	Surgalloy™	SL-5640G	
	3-0	2	45	18	Undyed	36	Surgalloy™	SL-5640	
	3-0	2	75	30	Undyed	12	Surgalloy™	SL-5679G	
	3-0	2	75	30	Undyed	36	Surgalloy™	SL-5679	
	2-0	3	75	30	Undyed	36		SL-5680	
P-17 3/8 Circle 30.0 mm 	2-0	3	75	30	Undyed	36		SL-1596	
P-21 1/2 Circle 9.0 mm 	6-0	0.7	45	18	Undyed	12		SL-1510G	
	5-0	1	45	18	Undyed	12		SL-1644G	
	4-0	1.5	45	18	Undyed	12		SL-1645G	
P-22 1/2 Circle 13.0 mm 	6-0	0.7	45	18	Undyed	36	Surgalloy™	SL-1613	
	5-0	1	45	18	Undyed	36	Surgalloy™	SL-1614	
	5-0	1	45	18	Undyed	12	Surgalloy™	SL-1614G	
	4-0	1.5	45	18	Undyed	36	Surgalloy™	SL-1615	
P-24 1/2 Circle 16.0 mm 	5-0	1	45	18	Undyed	12	Surgalloy™	SL-5632G	
	5-0	1	45	18	Undyed	36	Surgalloy™	SL-5632	
	4-0	1.5	45	18	Undyed	12	Surgalloy™	SL-5633G	
	4-0	1.5	45	18	Undyed	36	Surgalloy™	SL-5633	

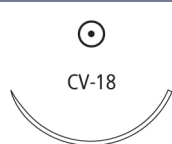
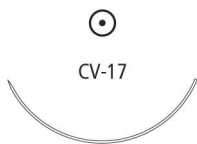




CONVENTIONAL CUTTING										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
PC-13 3/8 Circle 11.0 mm		6-0	0.7	45	18	Undyed	36		SL-1660	
		5-0	1	45	18	Undyed	36		SL-1659	
		4-0	1.5	45	18	Undyed	36		SL-1658	
PC-11 3/8 Circle 16.0 mm		6-0	0.7	45	18	Undyed	12	Surgalloy™	SL-1655G	
		5-0	1	45	18	Undyed	36		SL-1656	
		4-0	1.5	45	18	Undyed	36		SL-1657	
PC-12 3/8 Circle 19.0 mm		4-0	1.5	45	18	Undyed	36		SL-1653	
		3-0	2	45	18	Undyed	36		SL-1654	
SC-2 Straight 60.0 mm		4-0	1.5	75	30	Violet	36		SL-654	
		4-0	1.5	75	30	Undyed	36		SL-644	
		3-0	2	75	30	Violet	36		SL-653	
		3-0	2	75	30	Undyed	36		SL-643	
		2-0	3	75	30	Violet	36		SL-652	
		2-0	3	75	30	Undyed	36		SL-642	

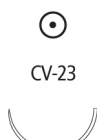




TAPER POINT										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
MV-135-5 3/8 Circle 6.0 mm		MV-135-5	8-0	0.4	13	5	Violet	12	Surgalloy™	L-2800
CV-11 3/8 Circle 13.0 mm		CV-11	6-0	0.7	75	30	Violet	36		GL-889
			5-0	1	75	30	Violet	36		GL-890
CV-15 3/8 Circle 17.0 mm		CV-15	4-0	1.5	75	30	Violet	36		GL-881
			3-0	2	75	30	Violet	36		GL-882
CV-13 3/8 Circle 22.0 mm		CV-13	4-0	1.5	75	30	Violet	36		CL-304
			3-0	2	75	30	Violet	36		GL-303
			2-0	3	75	30	Violet	36		GL-302
CV-18 3/8 Circle 26.0 mm		CV-18	2-0	3	75	30	Violet	36		CL-457
CV-17 3/8 Circle 32.0 mm		CV-17	3-0	2	75	30	Violet	36		GL-522
			2-0	3	75	30	Violet	36		GL-523
			0	3.5	75	30	Violet	36		GL-524

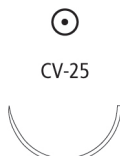
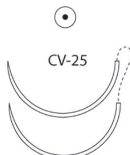




TAPER POINT										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
CVF-21 1/2 Circle 12.0 mm	 CVF-21	6-0	0.7	45	18	Violet	36	Surgalloy™	UL-102	
		6-0	0.7	45	18	Undyed	36	Surgalloy™	UL-101	
		5-0	1	45	18	Undyed	36	Surgalloy™	SL-432	
		4-0	1.5	45	18	Undyed	36		SL-431	
CV-22 1/2 Circle 13.0 mm	 CV-22	5-0	1	5 × 45	18	Violet	12	D-Tach™	GL-45-MG	
		5-0	1	75	30	Undyed	36		GL-885	
		4-0	1.5	5 × 45	18	Violet	12	D-Tach™	GL-44-MG	
		4-0	1.5	75	30	Undyed	36		GL-884	
		4-0	1.5	75	30	Violet	36		CL-782	
CV-23 1/2 Circle 17.0 mm	 CV-23	6-0	0.7	75	30	Violet	36		UL-201	
		5-0	1	75	30	Violet	36		UL-202	
		5-0	1	75	30	Undyed	36		UL-213	
		4-0	1.5	5 × 45	18	Violet	12	D-Tach™	GL-46-MG	
		4-0	1.5	75	30	Violet	36	Surgalloy™	UL-303	
		4-0	1.5	75	30	Undyed	36		UL-212	
		3-0	2	5 × 45	18	Undyed	12	D-Tach™	UL-47-MG	
		3-0	2	5 × 45	18	Violet	12	D-Tach™	GL-47-MG	
		3-0	2	75	30	Violet	36		UL-204	
		3-0	2	75	30	Undyed	36		UL-215	
		2-0	3	75	30	Undyed	36		UL-216	
		2-0	3	75	30	Violet	36		UL-205	
CVF-23 1/2 Circle 17.0 mm	 CVF-23	4-0	1.5	75	30	Undyed	36	Surgalloy™	UL-214	
		4-0	1.5	75	30	Violet	36	Surgalloy™	UL-203	
CVF-23 1/2 Circle 17.0 mm Double-arm	 CVF-23	4-0	1.5	90	36	Violet	36	Surgalloy™	CL-219	

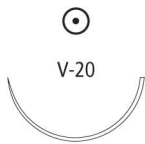
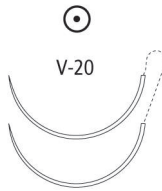




TAPER POINT										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
CV-24 1/2 Circle 20.0 mm 	CV-24	4-0	1.5	75	30	Violet	36		CL-460	
		3-0	2	75	30	Violet	36		CL-461	
		2-0	3	75	30	Violet	36		CL-462	
CV-25 1/2 Circle 22.0 mm 	CV-25	4-0	1.5	5 × 45	18	Violet	12	D-Tach™	GL-34-MG	
		4-0	1.5	75	30	Violet	36		GL-181	
		4-0	1.5	75	30	Undyed	36		GL-191	
		3-0	2	5 × 45	18	Violet	12	D-Tach™	GL-33-MG	
		3-0	2	75	30	Violet	36		GL-182	
		3-0	2	75	30	Undyed	36		GL-192	
		3-0	2	5 × 75	30	Violet	12	D-Tach™	GL-182-M	
		3-0	2	120	48	Violet	24	Surgalloy™ Endoscopy	EL-440	
		2-0	3	5 × 45	18	Violet	12	D-Tach™	GL-32-MG	
		2-0	3	75	30	Violet	36		GL-183	
CV-25 1/2 Circle 22.0 mm Double-arm 	CV-25	3-0	2	90	36	Violet	36		GL-282	
GS-23 1/2 Circle 22.0 mm 	GS-23	3-0	2	75	30	Violet	36		CL-892	
		2-0	3	5 × 45	18	Undyed	12	D-Tach™	CL-42-MG	
		2-0	3	75	30	Violet	36		CL-893	
		0	3.5	75	30	Violet	36		CL-894	

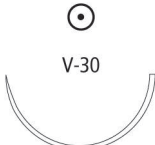




TAPER POINT								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
V-20 1/2 Circle 26.0 mm 	5-0	1	75	30	Violet	36		GL-120
	4-0	1.5	5 × 45	18	Violet	12	D-Tach™	GL-64-MG
	4-0	1.5	75	30	Undyed	36	Surgalloy™	GLS-321
	4-0	1.5	75	30	Violet	36	Surgalloy™	GLS-121
	4-0	1.5	5 × 75	30	Violet	12	D-Tach™	GL-68-M
	4-0	1.5	75	30	Undyed	36		GL-321
	4-0	1.5	75	30	Violet	36		GL-121
	3-0	2	5 × 45	18	Undyed	12	D-Tach™	GL-69-MG
	3-0	2	5 × 45	18	Violet	12	D-Tach™	GL-63-MG
	3-0	2	75	30	Undyed	36	Surgalloy™	GLS-322
	3-0	2	75	30	Violet	36	Surgalloy™	GLS-122
	3-0	2	5 × 75	30	Violet	12	D-Tach™	GL-67-M
	3-0	2	75	30	Undyed	36		GL-322
	3-0	2	75	30	Violet	36		GL-122
	3-0	2	90	36	Violet	36		GL-226
	2-0	3	5 × 45	18	Violet	12	D-Tach™	GL-62-MG
	2-0	3	5 × 45	18	Undyed	12	D-Tach™	GL-61-MG
	2-0	3	75	30	Undyed	36	Surgalloy™	GLS-323
	2-0	3	75	30	Violet	36	Surgalloy™	GLS-123
	2-0	3	5 × 75	30	Violet	12	D-Tach™	GL-66-M
	2-0	3	75	30	Undyed	36		GL-323
	2-0	3	75	30	Violet	36		GL-123
	2-0	3	90	36	Violet	36		GL-125
	0	3.5	75	30	Undyed	36		GL-324
	0	3.5	75	30	Violet	36		GL-124
V-20 1/2 Circle 26.0 mm Double-arm 	3-0	2	90	36	Violet	36		GL-332
	2-0	3	90	36	Violet	36		GL-333





TAPER POINT								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
GS-22 1/2 Circle 27.0 mm 	3-0	2	75	30	Violet	36		CL-882
	3-0	2	75	30	Undyed	36		CL-829
	2-0	3	5 × 45	18	Violet	12	D-Tach™	CL-16-MG
	2-0	3	75	30	Undyed	36		CL-830
	2-0	3	75	30	Violet	36		CL-883
	0	3.5	5 × 45	18	Violet	12	D-Tach™	CL-17-MG
	0	3.5	75	30	Violet	36	Surgalloy™	CLS-884
	0	3.5	5 × 75	30	Violet	12	D-Tach™	CL-886-M
	0	3.5	75	30	Violet	36		CL-884
	0	3.5	75	30	Undyed	36		CL-831
	0	3.5	90	36	Violet	36		CL-330
	1	4	75	30	Violet	36		CL-885
	1	4	5 × 75	30	Violet	12	D-Tach™	CL-885-M
	1	4	75	30	Undyed	36		CL-832
	1	4	90	36	Violet	36		CL-331
	2	5	75	30	Violet	36		CL-232
V-30 1/2 Circle 30.0 mm 	3-0	2	75	30	Violet	36		GL-222
	2-0	3	75	30	Violet	36		GL-223
	2-0	3	75	30	Undyed	36		GL-228
	2-0	3	5 × 75	30	Violet	12	D-Tach™	GL-223-M
	0	3.5	75	30	Violet	36		GL-224
	1	4	75	30	Violet	36		GL-225

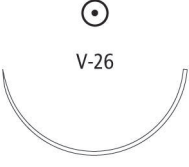
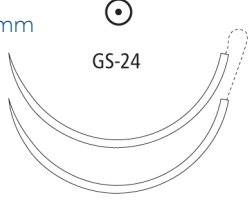




TAPER POINT								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
GS-21 1/2 Circle 37.0 mm 	4-0	1.5	75	30	Violet	36		CL-809
	3-0	2	5 × 45	18	Violet	12	D-Tach™	CL-8-MG
	3-0	2	75	30	Undyed	36		CL-842
	3-0	2	75	30	Violet	36		CL-810
	3-0	2	90	36	Violet	36		CL-922
	3-0	2	90	36	Undyed	36		CL-952
	2-0	3	5 × 45	18	Violet	12	D-Tach™	CL-9-MG
	2-0	3	5 × 45	18	Undyed	12	D-Tach™	CL-13-MG
	2-0	3	75	30	Undyed	36		CL-843
	2-0	3	75	30	Violet	36		CL-811
	2-0	3	5 × 75	30	Violet	12	D-Tach™	CL-4M
	2-0	3	90	36	Violet	36		CL-923
	2-0	3	90	36	Undyed	36		CL-953
	0	3.5	5 × 45	18	Undyed	12	D-Tach™	CL-14-MG
	0	3.5	5 × 45	18	Violet	12	D-Tach™	CL-10-MG
	0	3.5	75	30	Undyed	36		CL-844
	0	3.5	75	30	Violet	36		CL-812
	0	3.5	5 × 75	30	Violet	12	D-Tach™	CL-5-M
	0	3.5	5 × 75	30	Undyed	12	D-Tach™	CL-2M
	0	3.5	75	30	Violet	24		CL-812
	0	3.5	90	36	Undyed	36		CL-954
	0	3.5	90	36	Violet	36		CL-924
	1	4	5 × 45	18	Undyed	12	D-Tach™	CL-15-MG
	1	4	5 × 45	18	Violet	12	D-Tach™	CL-11-MG
	1	4	75	30	Undyed	36		CL-845
	1	4	75	30	Violet	36		CL-813
	1	4	5 × 75	30	Violet	12	D-Tach™	CL-6-M
	1	4	90	36	Violet	36		CL-925
	1	4	90	36	Undyed	36		CL-955
	2	5	75	30	Violet	36		CL-814
	2	5	90	36	Violet	36		CL-926





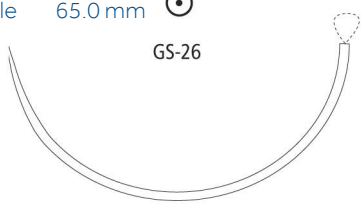
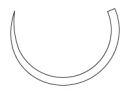
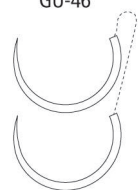
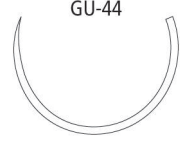
TAPER POINT								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
V-26 1/2 Circle 37.0 mm 	3-0	2	75	30	Violet	36		GL-126
	2-0	3	75	30	Violet	36		GL-127
	0	3.5	75	30	Violet	36		GL-128
	1	4	75	30	Violet	36		GL-129
GS-24 1/2 Circle 40.0 mm 	3-0	2	75	30	Violet	36		CL-800
	3-0	2	90	36	Undyed	36		CL-962
	3-0	2	90	36	Violet	36		CL-912
	2-0	3	5 × 45	18	Violet	12	D-Tach™	CL-22-MG
	2-0	3	75	30	Undyed	36		CL-853
	2-0	3	75	30	Violet	36		CL-801
	2-0	3	90	36	Violet	36		CL-913
	2-0	3	90	36	Undyed	36		CL-963
	0	3.5	5 × 45	18	Violet	12	D-Tach™	CL-20-MG
	0	3.5	75	30	Violet	36		CL-802
	0	3.5	90	36	Violet	36		CL-914
	0	3.5	90	36	Undyed	36		CL-964
	1	4	5 × 45	18	Violet	12	D-Tach™	CL-21-MG
	1	4	75	30	Violet	36		CL-803
	1	4	75	30	Undyed	36		CL-855
	1	4	90	36	Violet	36		CL-915
	1	4	90	36	Undyed	36		CL-965
	2	5	5 × 45	18	Violet	6	D-Tach™	CL-623-M
	2	5	5 × 60	24	Violet	12	D-Tach™	CL-622-M
	2	5	75	30	Violet	36		CL-779
	2	5	90	36	Violet	36		CL-911
GS-24 1/2 Circle 40.0 mm Double-arm 	3-0	2	150	60	Violet	36		CL-990





TAPER POINT								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
GS-25 1/2 Circle 48.0 mm 	3-0	2	75	30	Violet	36		CL-862
	3-0	2	90	36	Undyed	36		CL-972
	2-0	3	5 × 45	18	Undyed	12	D-Tach™	CL-36-MG
	2-0	3	75	30	Violet	36		CL-863
	2-0	3	90	36	Undyed	36		CL-973
	2-0	3	90	36	Violet	36		CL-903
	0	3.5	5 × 45	18	Undyed	12	D-Tach™	CL-35-MG
	0	3.5	5 × 45	18	Violet	12	D-Tach™	CL-30-MG
	0	3.5	75	30	Violet	36		CL-864
	0	3.5	90	36	Undyed	36		CL-974
	0	3.5	90	36	Violet	36		CL-904
	1	4	5 × 45	18	Violet	12	D-Tach™	CL-31-MG
	1	4	75	30	Violet	36		CL-865
	1	4	75	30	Violet	12	D-Tach™	CL-64-M
	1	4	90	36	Undyed	36		CL-975
	1	4	90	36	Violet	36		CL-905
	2	5	5 × 45	18	Violet	6	D-Tach™	CL-633-M
	2	5	5 × 60	24	Violet	12	D-Tach™	CL-644-M
	2	5	75	30	Violet	36		CL-866
	2	5	5 × 75	30	Violet	6	D-Tach™	CL-665-M
	2	5	90	36	Violet	36		CL-906
GS-26 1/2 Circle 65.0 mm 	2-0	3	75	30	Undyed	24		CL-63
	1	4	5 × 75	30	Violet	12		CL-60-M
	1	4	90	36	Violet	36		CL-968
	1	4	150	60	Violet	24		CL-824
	2	5	5 × 75	30	Violet	6		CL-659-M
	2	5	100	40	Undyed	36		CL-969
	2	5	150	60	Undyed	24		CL-880
	2	5	150	60	Violet	24		CL-825



TAPER POINT									
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code	
	USP	EP	cm	Inches					
GS-26 LOOP 1/2 Circle 65.0 mm  GS-26	1	4	120	48	Violet	24	Loop	CL824L	
	2	5	240	96	Violet	24	Loop	CL-835-L	
GS-27 1/2 Circle 76.0 mm  GS-27	2-0	3	75	30	Undyed	24		CL-53	
	1	4	75	30	Violet	24	455	SL-603	
GU-46 5/8 Circle 27.0 mm  GU-46	3-0	2	75	30	Violet	36		UL-879	
	2-0	3	75	30	Violet	36		UL-878	
	0	3.5	75	30	Violet	36		UL-877	
	1	4	75	30	Violet	36		UL-876	
GU-46 5/8 Circle 27.0 mm Double-arm  GU-46	0	3.5	90	36	Violet	36		UL-240	
GU-45 5/8 Circle 37.0 mm  GU-45	2-0	3	75	30	Violet	36		UL-245	
	0	3.5	75	30	Violet	36		UL-246	
GU-44 5/8 Circle 40.0 mm  GU-44	0	3.5	75	30	Violet	36		UL-146	





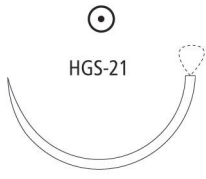
TAPER POINT										
Needles Specifications			Size		Length		Color	Units	Comments	Reorder code
			USP	EP	cm	Inches				
SK SKI	23.0 mm	 SK 	3-0	2	18	7	Violet	36	Endoscopy	EL415
			3-0	2	120	48	Violet	24	Endoscopy	EL450
TJ-32 1/2 Circle	32.0 mm	 TJ-32 	1	4	75	30	Violet	12		CL-673G
			1	4	75	30	Violet	36		CL-673

HEAVY TAPER POINT										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
HGS-22 1/2 Circle 27.0 mm		HGS-22	2-0	3	5 × 45	18	Violet	12	D-Tach™	CL-86-MG
			0	3.5	5 × 45	18	Undyed	12	D-Tach™	CL-87-MG
			1	4	75	30	Violet	36		CL-871
HGS-20 1/2 Circle 34.0 mm		HGS-20	2-0	3	5 × 75	30	Violet	12	D-Tach™	CL-996-MG
			0	3.5	5 × 75	30	Violet	12	D-Tach™	CL-997-MG
			1	4	5 × 75	30	Violet	12	D-Tach™	CL-998-MG
HGS-21 1/2 Circle 37.0 mm		HGS-21	2-0	3	5 × 45	18	Violet	12	D-Tach™	CL-202-M
			2-0	3	75	30	Violet	36		CL-930
			2-0	3	90	36	Violet	36		CL-970
			0	3.5	5 × 45	18	Violet	12	D-Tach™	CL-200-M
			0	3.5	75	30	Violet	36		CL-931
			0	3.5	5 × 75	30	Violet	12	D-Tach™	CL-71-M
			0	3.5	90	36	Violet	36		CL-971
			1	4	5 × 45	18	Violet	12	D-Tach™	CL-201-M
			1	4	75	30	Violet	36		CL-932
			1	4	90	36	Violet	36		CL-239
			2	5	75	30	Violet	36		CL-934





HEAVY TAPER POINT

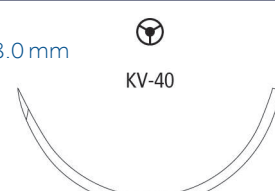
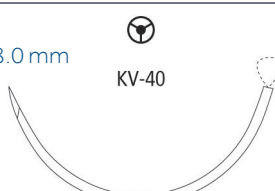
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
HGS-21 LOOP 1/2 Circle 37.0 mm 	0	3.5	150	60	Violet	24	Loop	CL-871-L
HGU-46 5/8 Circle 27.0 mm 	0	3.5	45	18	Violet	36		CL-576
	0	3.5	75	30	Violet	36		CL-677
	1	4	75	30	Violet	36		UL-676

TAPERCUTTING

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
KV-7 1/2 Circle 26.0 mm 	3-0	2	75	30	Violet	36	Surgalloy™	CL-510
	2-0	3	75	30	Violet	36	Surgalloy™	CL-511
KV-34 1/2 Circle 37.0 mm 	3-0	2	90	36	Violet	36		CL-942
	2-0	3	75	30	Violet	36		CL-837
	2-0	3	90	36	Violet	36		CL-943
	2-0	3	90	36	Undyed	36		CL-946
	0	3.5	75	30	Violet	36		CL-838
	0	3.5	90	36	Undyed	36		CL-515
	0	3.5	90	36	Violet	36		CL-944
	1	4	75	30	Violet	36		CL-839
	1	4	90	36	Undyed	36		CL-516
	1	4	90	36	Violet	36		CL-945
	2	5	90	36	Violet	36		CL-517

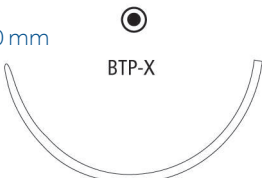




TAPERCUTTING									
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code	
	USP	EP	cm	Inches					
KV-37 1/2 Circle 40.0 mm 	2-0	3	75	30	Violet	36		CL-603	
	0	3.5	75	30	Violet	36		CL-602	
KV-40 1/2 Circle 48.0 mm 	0	3.5	90	36	Violet	36		CL-739	
	1	4	75	30	Violet	36		CL-840	
	1	4	90	36	Violet	36		CL-940	
	2	5	75	30	Violet	36		CL-841	
	2	5	90	36	Violet	36		CL-941	
KV-40 LOOP 1/2 Circle 48.0 mm 	1	4	150	60	Violet	24	Loop	CL-740-L	
	2	5	150	60	Violet	24	Loop	CL-741-L	

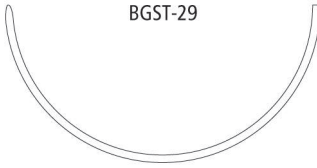
BLUNT POINT									
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code	
	USP	EP	cm	Inches					
BTV-20 1/2 Circle 26.0 mm 	3-0	2	5 × 45	18	Undyed	12	D-Tach™, ProtectPoint™	GLT-69-MG	
BGS-21 1/2 Circle 37.0 mm 	2-0	3	90	36	Violet	36	ProtectPoint™	CL-956	
	2-0	3	90	36	Undyed	36	ProtectPoint™	CL-259	
	0	3.5	5 × 45	18	Violet	12	D-Tach™, ProtectPoint™	CL-250-M	
	0	3.5	5 × 45	18	Undyed	12	D-Tach™, ProtectPoint™	CL-240-M	
	0	3.5	90	36	Violet	36	ProtectPoint™	CL-957	
	1	4	90	36	Violet	36	ProtectPoint™	CL-958	



BLUNT POINT									
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code	
	USP	EP	cm	Inches					
BTP-1 1/2 Circle 37.0 mm 	3-0	2	90	36	Undyed	36	ProtectPoint™	CLT-952	
	2-0	3	5 × 45	18	Violet	12	D-Tach™, ProtectPoint™	CLT-9-MG	
	2-0	3	5 × 45	18	Undyed	12	D-Tach™, ProtectPoint™	CLT-13-MG	
	2-0	3	75	30	Undyed	36	ProtectPoint™	CLT-259	
	2-0	3	90	36	Undyed	36	ProtectPoint™	CLT-953	
	0	3.5	5 × 45	18	Violet	12	D-Tach™, ProtectPoint™	CLT-250-MG	
	0	3.5	75	30	Violet	36		CLT-957	
	0	3.5	90	36	Undyed	36	ProtectPoint™	CLT-954	
	1	4	5 × 45	18	Undyed	12	D-Tach™, ProtectPoint™	CLT-15-MG	
	1	4	5 × 45	18	Violet	12	D-Tach™, ProtectPoint™	CLT-11-MG	
	1	4	75	30	Violet	36	ProtectPoint™	CLT-958	
	1	4	90	36	Undyed	36	ProtectPoint™	CLT-955	
BGS-24 1/2 Circle 40.0 mm 	0	3.5	90	36	Violet	36	ProtectPoint™	CL-950	
	1	4	90	36	Violet	36	ProtectPoint™	CL-951	
BTP-X 1/2 Circle 48.0 mm 	0	3.5	5 × 45	18	Violet	12	D-Tach™, ProtectPoint™	CLT-850-MG	
	0	3.5	5 × 45	18	Undyed	12	D-Tach™, ProtectPoint™	CLT-20-MG	
	1	4	5 × 45	18	Violet	12	D-Tach™, ProtectPoint™	CLT-851-MG	
	1	4	5 × 45	18	Undyed	12	D-Tach™, ProtectPoint™	CLT-21-MG	
	1	4	90	36	Undyed	36	ProtectPoint™	CLT-855	
	2	5	5 × 45	18	Violet	6	D-Tach™, ProtectPoint™	CLT-623-M	





BLUNT POINT									
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code	
	USP	EP	cm	Inches					
BGS-25 1/2 Circle 48.0 mm  BGS-25	0	3.5	90	36	Violet	36	ProtectPoint™	CL-948	
	1	4	90	36	Violet	36	ProtectPoint™	CL-949	
BGS-29 1/2 Circle 63.0 mm  BGS-29	2	5	2 × 90	36	Violet	12	ProtectPoint™	2-CL-852	
BP-27 1/2 Circle 64.0 mm  BP-27	1	4	90	36	Violet	36	ProtectPoint™	CL-271	
	2	5	90	36	Violet	36	ProtectPoint™	CL-270	
BGST-29 1/2 Circle 65.0 mm  BGST-29	2	5	5 × 75	30	Violet	6	D-Tach™, ProtectPoint™	CLT-633-M	





DIAMOND POINT								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
KV-25 1/2 Circle 22.0 mm 	1	4	75	30	Undyed	36		CL-513
KV-30 1/2 Circle 27.0 mm 	0	3.5	90	36	Undyed	36		CL-730

MULTIPURPOSE								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
3.16 3/8 Circle 16.0 mm 	4-0	1.5	45	18	Undyed	36		CL-005
4.21 (H)* 1/2 Circle 20.0 mm 	2-0	3	75	30	Violet	36		CL-015
4.31 (H)* 1/2 Circle 30.0 mm 	0	3.5	75	30	Violet	36		CL-030

*(H) = Heavy

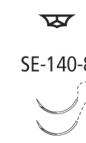




MULTIPURPOSE									
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code	
	USP	EP	cm	Inches					
4.41 1/2 Circle 40.0 mm  4.41 	2-0	3	75	30	Violet	36		CL-045	
	0	3.5	75	30	Violet	36		UL-046	
			75	30	Violet	36		CL-047	
4.5 1/2 Circle 50 mm (Not to scale)  4.50 	2	5	90	36	Violet	36		CL-055	
4.51 (H) 1/2 Circle 50 mm  4.51 	2-0	3	75	30	Violet	36		CL-060	

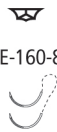
SPATULA									
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code	
	USP	EP	cm	Inches					
SE-100-8 1/4 Circle 6.3 mm Double-arm  SE-100-8 	6-0	0.7	45	18	Violet	12	Surgalloy™	L-1750K	
SS-29 1/4 Circle 7.4 mm Double-arm  SS-29 	6-0	0.7	30	12	Violet	12	Surgalloy™	L-1756K	
	6-0	0.7	45	18	Violet	12	Surgalloy™	L-1755K	



SPATULA									
Needles Specifications		Size		Length		Color	Units Per box	Comments	Reorder code
		USP	EP	cm	Inches				
SS-14 1/4 Circle 8.6 mm Double-arm		6-0	0.7	45	18	Violet	12	Surgalloy™	L-1791K
		6-0	0.7	45	18	Undyed	12	Surgalloy™	L-1670-K
		5-0	1	45	18	Violet	12	Surgalloy™	L-1792K
		5-0	1	45	18	Undyed	12	Surgalloy™	L-1669-K
SS-24 1/4 Circle 8.6 mm Double-arm		6-0	0.7	20	8	Violet	12		L-1740-K
		6-0	0.7	30	12	Violet	12	Surgalloy™	L-1742K
		6-0	0.7	30	12	Undyed	12	Surgalloy™	L-1745K
		6-0	0.7	45	18	Undyed	24	Surgalloy™	L-2752K
		5-0	1	20	8	Violet	12	Surgalloy™	L-1739-K
		5-0	1	30	12	Violet	12	Surgalloy™	L-1785K
		5-0	1	45	18	Undyed	24	Surgalloy™	L-2753K
SE-140-8 3/8 Circle 6.3 mm		8-0	0.4	30	12	Violet	12	Surgalloy™	L-2750K
		7-0	0.5	30	12	Violet	12	Surgalloy™	L-2751K
SE-140-8 3/8 Circle 6.3 mm Double-arm		8-0	0.4	20	8	Violet	12	Surgalloy™	L-2747K
		8-0	0.4	30	12	Violet	12	Surgalloy™	L-2748K
		8-0	0.4	45	18	Violet	12	Surgalloy™	L-5118K
		7-0	0.5	30	12	Violet	12	Surgalloy™	L-1796K
		7-0	0.5	45	18	Violet	12	Surgalloy™	L-1897K
SS-28 3/8 Circle 7.4 mm Double-arm		6-0	0.7	45	18	Violet	12	Surgalloy™	L-1562-K





SPATULA									
Needles Specifications		Size		Length		Color	Units Per box	Comments	Reorder code
		USP	EP	cm	Inches				
SE-160-8 1/2 Circle 5.5 mm Double-arm	 SE-160-8	8-0	0.4	20	8	Violet	12	Surgalloy™	L-2574K
		8-0	0.4	30	12	Violet	12	Surgalloy™	L-2749K
		7-0	0.5	45	18	Violet	12	Surgalloy™	L-1787K
SS-2 1/2 Circle 8.6 mm Double-arm	 SS-2	5-0	1	30	12	Undyed	12	Surgalloy™	L-0223K

CAPROSYN™

Monofilament Absorbable Suture

There when you need it. Gone when you don't.



Rapid absorption can lessen wound complications

- Fastest absorbing monofilament suture
- Short-term wound support
- Excellent pliability, handling and knot security
- Predictable strength retention

Absorption

Absorbable By Hydrolysis. Essentially complete by 56 days.

Tensile Strength

A minimum of 50 to 60% USP and EP knot strength at 5 days post implantation, and a minimum of 20–30% of USP and EP knot strength at 10 days. All original tensile strength is essentially lost by 21 days post implantation.

Packaging

Available undyed or dyed with D&C Violet No. 2 in USP sizes 1 (4 metric) through 6-0 (0.7 Metric).

The sutures are supplied sterile, in pre-cut lengths or ligating reels, nonneedled or affixed to various needle types. The sutures are available in box quantities of one, two and three dozen.

Indications

Caprosyn™ synthetic absorbable sutures are indicated for use in general soft tissue approximation and/or ligation, but not for use in cardiovascular or neurological surgery, microsurgery, or ophthalmic surgery

Description

Caprosyn™ monofilament synthetic absorbable sutures are prepared from Polyglytone™ 6211 synthetic polyester which is composed of glycolide, caprolactone, trimethylene carbonate, and lactide.

Indications

Caprosyn™ synthetic absorbable sutures are indicated for use in general soft tissue approximation and/or ligation, but not for use in ardiovascular or neurological surgery, microsurgery, or ophthalmic surgery.

Actions

Caprosyn™ synthetic absorbable sutures elicit a minimal acute inflammatory reaction in tissues, which is followed by gradual encapsulation of the suture by fibrous connective tissue. Progressive loss of tensile strength and eventual absorption of Caprosyn™ synthetic absorbable sutures occurs by means of hydrolysis.

Tensile Strength

Implantation studies in animals indicate that Caprosyn™ suture retains a minimum of 50 to 60% USP and EP knot strength at 5 days post implantation, and a minimum of 20 – 30% of USP and EP knot strength at 10 days post implantation. All of the original tensile strength is essentially lost by 21 days post implantation.

Sterilization

Ethylene oxide.

Absorbtion

Absorption begins as a loss of tensile strength followed by a loss of mass. Absorption of Caprosyn™ synthetic absorbable suture is essentially complete by 56 days.

Packaging

Caprosyn™ synthetic absorbable sutures are available undyed (natural) or dyed with D&C Violet No. 2 in USP sizes 1 (4 metric) through 6–0 (0.7 Metric). The sutures are supplied sterile, in pre-cut lengths or ligating reels, non-needled or affixed to various needle types. The sutures are available in box quantities of one, two and three dozen.

Please refer to the individual package IFUs for complete instructions, indications, contraindications, warnings and precautions.

Caprosyn™

Caprosyn™ suture is a brand you have trusted for over 10 years with a proven history of performance.

REEL

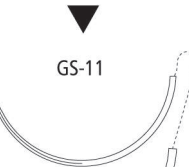
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
	3-0	2	150	60	Undyed	24		C-212
	0	3.5	150	60	Undyed	36		C-214

REVERSE CUTTING

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
C-13 3/8 Circle 19.0 mm 	5-0	1	45	18	Undyed	36		SC-3634
	4-0	1.5	45	18	Undyed	12		SC-690G
	4-0	1.5	75	30	Undyed	36		SC-691
	3-0	2	45	18	Undyed	12		SC-694G
	3-0	2	75	30	Undyed	36		SC-692
	2-0	3	75	30	Undyed	36		SC-693
C-14 3/8 Circle 24.0 mm 	3-0	2	75	30	Undyed	12	Surgalloy™	SC-693G
C-15 3/8 Circle 26.0 mm 	3-0	2	75	30	Undyed	36		SC-587
	2-0	3	75	30	Undyed	36		SC-586
C-16 3/8 Circle 30.0 mm 	0	3.5	75	30	Undyed	36	Surgalloy™	SC-585



REVERSE CUTTING

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
GS-11 1/2 Circle 37.0 mm 	2-0	3	75	30	Undyed	36		CC-543
GS-11 1/2 Circle 37.0 mm  GS-21 Taper Point 1/2 Circle 37.0 mm Double-arm 	2-0	3	150	60	Undyed	36		CC-983

PREMIUM REVERSE CUTTING

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
P-10 3/8 Circle 11.0 mm 	6-0	0.7	45	18	Undyed	12	Surgalloy™	SC-3625G
	5-0	1	45	18	Undyed	12	Surgalloy™	SC-3626G
P-13 3/8 Circle 13.0 mm 	6-0	0.7	45	18	Undyed	12	Surgalloy™	SC-5688G
	6-0	0.7	45	18	Violet	12	Surgalloy™	SC-5588G
	5-0	1	45	18	Undyed	12	Surgalloy™	SC-5689G
	5-0	1	45	18	Violet	12	Surgalloy™	SC-5587G
	4-0	1.5	45	18	Undyed	12	Surgalloy™	SC-5690G
	4-0	1.5	45	18	Violet	12	Surgalloy™	SC-5590G



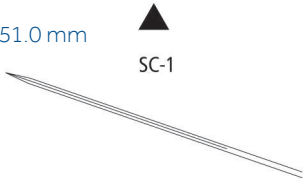
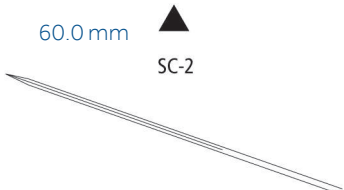


PREMIUM REVERSE CUTTING											
Needles Specifications				Size		Length		Color	Units	Comments	Reorder code
				USP	EP	cm	Inches		Per box		
P-11 3/8 Circle 16.0 mm		6-0	0.7	45	18	Undyed	12	Surgalloy™	SC-5635G		
		5-0	1	45	18	Undyed	12	Surgalloy™	SC-5626G		
		5-0	1	45	18	Undyed	36	Surgalloy™	SC-5626		
		4-0	1.5	45	18	Undyed	12	Surgalloy™	SC-5686G		
P-12 3/8 Circle 19.0 mm		5-0	1	45	18	Undyed	12	Surgalloy™	SC-5616G		
		4-0	1.5	45	18	Undyed	12	Surgalloy™	SC-5617G		
		4-0	1.5	45	18	Violet	12	Surgalloy™	SC-5627G		
		4-0	1.5	75	30	Undyed	12	Surgalloy™	SC-5637G		
		3-0	2	45	18	Undyed	12	Surgalloy™	SC-5618G		
		3-0	2	75	30	Undyed	12	Surgalloy™	SC-5638G		
P-14 3/8 Circle 24.0 mm		4-0	1.5	45	18	Undyed	36	Surgalloy™	SC-5679		
		4-0	1.5	75	30	Undyed	36	Surgalloy™	SC-5779		
		3-0	2	45	18	Undyed	36	Surgalloy™	SC-5640		
		3-0	2	75	30	Undyed	12	Surgalloy™	SC-5780G		
P-24 1/2 Circle 16.0 mm		4-0	1.5	45	18	Undyed	12	Surgalloy™	SC-5643G		





CONVENTIONAL CUTTING

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
SC-1 Straight 51.0 mm  SC-1	3-0	2	75	30	Undyed	36	Surgalloy™	SC-543
	2-0	3	75	30	Undyed	36	Surgalloy™	SC-542
SC-2 Straight 60.0 mm  SC-2	4-0	1.5	75	30	Undyed	36	Surgalloy™	SC-644
	3-0	2	75	30	Undyed	36		SC-643

DERMAX PREMIUM X CUTTINGT

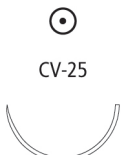
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
DX-13 3/8 Circle 13.0 mm  DX-13	5-0	1	45	18	Undyed	12	DermaX	XC-834
DX-16 3/8 Circle 16.0 mm  DX-16	5-0	1	45	18	Undyed	12	DermaX	XC-844
	4-0	1.5	45	18	Undyed	12	DermaX	XC-845



DERMAX PREMIUM X CUTTING

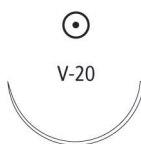
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
DX-19 3/8 Circle 19.0 mm  DX-19	4-0	1.5	45	18	Undyed	12	DermaX	XC-823

TAPER POINT

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
CV-23 1/2 Circle 17.0 mm  CV-23	5-0	1	75	30	Undyed	36	Surgalloy™	UC-202
	4-0	1.5	75	30	Undyed	36	Surgalloy™	UC-203
	4-0	1.5	75	30	Violet	36	Surgalloy™	UC-214
	3-0	2	75	30	Violet	36		UC-213
	3-0	2	75	30	Undyed	36	Surgalloy™	UC-204
CV-25 1/2 Circle 22.0 mm  CV-25	4-0	1.5	75	30	Undyed	36	Surgalloy™	UC-403
	3-0	2	5 × 45	18	Undyed	12	D-Tach™	GC-33-M
	3-0	2	75	30	Undyed	36	Surgalloy™	UC-404
GS-23 1/2 Circle 22.0 mm  GS-23	2-0	3	75	30	Undyed	36		UC-863





TAPER POINT										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
V-20 1/2 Circle 26.0 mm 	4-0	1.5	75	30	Violet	36	Surgalloy™	GC-321		
	4-0	1.5	75	30	Undyed	36	Surgalloy™	GC-121		
	3-0	2	75	30	Undyed	36	Surgalloy™	GC-122		
	3-0	2	75	30	Violet	36	Surgalloy™	GC-322		
	2-0	3	75	30	Undyed	36	Surgalloy™	GC-123		
	2-0	3	75	30	Violet	36	Surgalloy™	GC-323		
	0	3.5	75	30	Undyed	36	Surgalloy™	GC-124		
GS-22 1/2 Circle 27.0 mm 	2-0	3	75	30	Undyed	36		CC-883		
	2-0	3	75	30	Violet	36		CC-830		
	0	3.5	75	30	Undyed	36		CC-884		
	0	3.5	75	30	Violet	36		CC-831		
	1	4	75	30	Undyed	36		CC-885		
GS-21 1/2 Circle 37.0 mm 	3-0	2	75	30	Undyed	36		CC-810		
	3-0	2	90	36	Undyed	36		CC-922		
	2-0	3	75	30	Violet	36		CC-843		
	2-0	3	75	30	Undyed	36		CC-811		
	2-0	3	90	36	Undyed	36		CC-923		
	0	3.5	75	30	Violet	36		CC-844		
	0	3.5	75	30	Undyed	36		CC-812		
	0	3.5	90	36	Undyed	36		CC-924		
	1	4	75	30	Violet	36		CC-845		
	1	4	75	30	Undyed	36		CC-813		
	1	4	90	36	Undyed	36		CC-925		





TAPER POINT									
Needles Specifications		Size		Length		Color	Units Per box	Comments	Reorder code
		USP	EP	cm	Inches				
GS-24 1/2 Circle 40.0 mm 		2-0	3	75	30	Undyed	36		CC-801
		2-0	3	90	36	Undyed	36		CC-915
		0	3.5	75	30	Undyed	36		CC-802
		0	3.5	90	36	Undyed	36		CC-913
		1	4	75	30	Undyed	36		CC-803
		1	4	90	36	Undyed	36		CC-914
GS-25 1/2 Circle 48.0 mm 		2-0	3	75	30	Undyed	36		CC-872
		0	3.5	90	36	Undyed	36		CC-904
		1	4	90	36	Violet	36		CC-975
		1	4	90	36	Undyed	36		CC-905
GU-46 5/8 Circle 27.0 mm 		3-0	2	75	30	Violet	36		UC-879
		2-0	3	75	30	Undyed	36		UC-978
GU-46 5/8 Circle 27.0 mm 		2-0	3	75	30	Violet	36	Surgalloy™	CC-658
V-20 1/2 Circle 26.0 mm Double-arm 									





TAPERCUTTING

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
KV-34 1/2 Circle 37.0 mm  KV-34	2-0	3	90	36	Undyed	12		CC-1945G
	1	4	90	36	Undyed	36	Surgalloy™	CC-196

BIOSYN™

Monofilament Absorbable Sutures

Strength, suppleness and integrity.



Strength, suppleness and integrity for unbraided security

- Handling & strength of a braided suture with the benefits of a monofilament
- Excellent first-throw hold
- Precise and secure wound approximation
- The only absorbable monofilament with three weeks of wound support

Absorption

Absorbable By Hydrolysis. Essentially complete between 90–110 days.

Tensile Strength

Approximately 75% of USP and EP knot strength at 2 weeks and approximately 40% at 3 weeks post implantation.

Packaging

Available clear (undyed) or dyed violet in U.S.P. and E.P. sizes 1 (4 Metric) through 6-0 (0.7 Metric). The sutures are supplied sterile, in pre-cut lengths or affixed to various needle types using both permanent and removal needle attachment techniques.

Indications

Indicated for use in general soft tissue approximation and/or ligation including use in ophthalmic surgery, but not for use in cardiovascular or neurological surgery.

Description

Biosyn™ monofilament synthetic absorbable sutures are prepared from a synthetic polyester composed of glycolide, dioxanone, and trimethylene carbonate. Biosyn™ synthetic absorbable sutures are colored violet to increase visibility and are also available undyed.

Indications

Biosyn™ synthetic absorbable sutures are indicated for use in general soft tissue approximation and/or ligation including use in ophthalmic surgery, but not for use in cardiovascular or neurological surgery.

Actions

Biosyn™ synthetic absorbable sutures elicit a minimal acute inflammatory reaction in tissues, which is followed by gradual encapsulation of the suture by fibrous connective tissue. Progressive loss of tensile strength and eventual absorption of Biosyn™ synthetic absorbable sutures occurs by means of hydrolysis where the suture is broken down to glycolic acid, dioxanoic acid, propane diol and carbon dioxide which are subsequently absorbed and metabolized by the body.

Tensile Strength

Studies in animals indicate tensile strength averages for Biosyn™ synthetic absorbable sutures are approximately 75% of U.S.P and E.P. minimum knot strength at two weeks and approximately 40% at three weeks post-implant.

Sterilization

Ethylene oxide.

Absorbtion

Absorption begins as a loss of tensile strength without appreciable loss of mass. Absorption of Biosyn™ synthetic absorbable sutures is essentially complete between 90 and 110 days.

Packaging

Biosyn™ synthetic absorbable sutures are available undyed (natural) or dyed violet in U.S.P. and E.P. sizes 1 (4 Metric) through 6-0 (0.7 Metric). The sutures are supplied sterile, in pre-cut lengths or affixed to various needle types using both permanent and removal needle attachment techniques. Please refer to the individual package IFUs for complete instructions, indications, contraindications, warnings and precautions.

Please refer to the individual package IFUs for complete instructions, indications, contraindications, warnings and precautions.

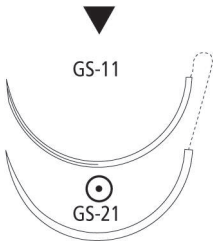
Biosyn™ suture is a brand you have trusted for over 15 years with a proven history of performance.

PRE-CUT								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
	4-0	1.5	6 × 45	18	Violet	24	Pre-cut	M-31-
	3-0	2	3 × 45	18	Violet	36	Pre-cut	M-72
	3-0	2	6 × 45	18	Violet	24	Pre-cut	M-32-
	2-0	3	6 × 45	18	Violet	24	Pre-cut	M-33-
	2-0	3	6 × 45	18	Undyed	24	Pre-cut	M-23-
	0	3.5	3 × 45	18	Violet	36	Pre-cut	M-74
	1	4	3 × 45	18	Violet	36	Pre-cut	M-75

STANDARD LENGHT								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
	0	3.5	150	60	Violet	36	Standard length	M-114

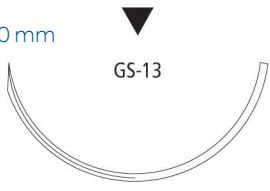
REVERSE CUTTING								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
C-13 3/8 Circle 19.0 mm 	5-0	1	75	30	Undyed	36		SM-690
	4-0	1.5	75	30	Violet	36		SM-791
	4-0	1.5	75	30	Undyed	12		SM-691G
	4-0	1.5	75	30	Undyed	36		SM-691
	3-0	2	75	30	Undyed	36		SM-822
	3-0	2	75	30	Violet	36		SM-922



REVERSE CUTTING										
Needles Specifications			Size		Length		Color	Units	Comments	Reorder code
			USP	EP	cm	Inches				
C-14 3/8 Circle 24.0 mm 	3-0	2	75	30	Undyed	36		SM-693		
	2-0	3	75	30	Violet	36		SM-923		
	2-0	3	75	30	Undyed	36		SM-823		
C-23 1/2 Circle 24.0 mm 	4-0	1.5	75	30	Violet	36		SM-633		
	3-0	2	5 × 45	18	Violet	12	D-Tach™	SM-83-M		
	3-0	2	75	30	Violet	36		SM-632		
GS-10 1/2 Circle 26.0 mm 	2-0	3	75	30	Violet	36		CM-879		
GS-11 1/2 Circle 37.0 mm 	2-0	3	75	30	Violet	36		CM-816		
	2-0	3	75	30	Undyed	36		CM-543		
	0	3.5	75	30	Violet	36		CM-817		
	0	3.5	75	30	Undyed	36		CM-544		
GS-11 - GS-21 1/2 Circle 37.0 mm *Double-arm 	3-0	2	135	54	Undyed	36		CM-991		
	2-0	3	150	60	Undyed	36		CM-932		
HOS-11 1/2 Circle 37.0 mm 	1	4	75	30	Violet	36		CM-528		



REVERSE CUTTING

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
GS-13 1/2 Circle 48.0 mm 	1	4	90	36	Violet	36		CM-222

PREMIUM REVERSE CUTTING

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
P-10 3/8 Circle 11.0 mm 	6-0	0.7	45	18	Undyed	12	Surgalloy™	SM-3625
	5-0	1	45	18	Undyed	12	Surgalloy™	SM-3626
P-13 3/8 Circle 13.0 mm 	6-0	0.7	45	18	Undyed	12	Surgalloy™	SM-5688
	5-0	1	45	18	Undyed	12	Surgalloy™	SM-5687
	4-0	1.5	45	18	Undyed	12	Surgalloy™	SM-5690
P-12 3/8 Circle 19.0 mm 	5-0	1	45	18	Undyed	12	Surgalloy™	SM-5624
	4-0	1.5	45	18	Undyed	12	Surgalloy™	SM-5627
	4-0	1.5	75	30	Undyed	12	Surgalloy™	SM-5637
	3-0	2	45	18	Undyed	12	Surgalloy™	SM-5628
	3-0	2	75	30	Undyed	12	Surgalloy™	SM-5638

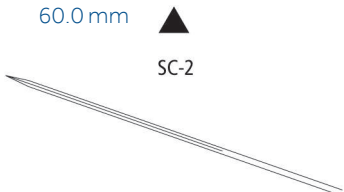




PREMIUM REVERSE CUTTING

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
P-14 3/8 Circle 24.0 mm 	4-0	1.5	45	18	Undyed	24	Surgalloy™	SM-5679
	4-0	1.5	75	30	Undyed	36	Surgalloy™	SM-5678
	3-0	2	75	30	Undyed	12	Surgalloy™	SM-5679G

CONVENTIONAL CUTTING

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
PC-13 3/8 Circle 11.0 mm 	5-0	1	45	18	Undyed	24		CM-401
	4-0	1.5	45	18	Undyed	24		CM-400
SC-2 Straight 60.0 mm 	4-0	1.5	75	30	Undyed	36		SM-644
	3-0	2	75	30	Undyed	36		SM-643





X CUTTING

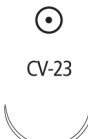
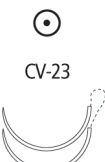
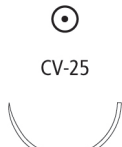
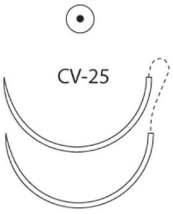
Needles Specifications	Size USP	EP	Length		Color	Units Per box	Comments	Reorder code
			cm	Inches				
DX-13 3/8 Circle 13.0 mm  DX-13 	5-0	1	45	18	Undyed	12	DermaX	XM-834
DX-16 3/8 Circle 16.0 mm  DX-16 	4-0	1.5	45	18	Undyed	12	DermaX	XM-845
DX-19 3/8 Circle 19.0 mm  DX-19 	5-0	1	45	18	Undyed	12	DermaX	XM-822
	4-0	1.5	45	18	Undyed	12	DermaX	XM-823

TAPER POINT

Needles Specifications	Size USP	EP	Length		Color	Units Per box	Comments	Reorder code
			cm	Inches				
CVF-21 1/2 Circle 12.0 mm  CVF-21 	5-0	1	45	18	Undyed	36	Surgalloy™	SM-432
	4-0	1.5	45	18	Undyed	36	Surgalloy™	SM-431
	4-0	1.5	75	30	Undyed	36	Surgalloy™	SM-434
CV-11 3/8 Circle 13.0 mm Double-arm  CV-11 	5-0	1	75	30	Violet	36	Surgalloy™	CM-126

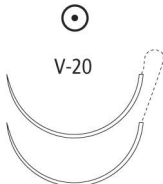
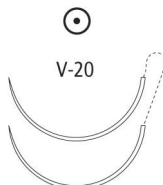
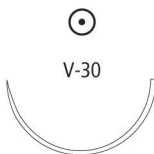




TAPER POINT										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
CV-22 1/2 Circle 13.0 mm		6-0	0.7	75	30	Violet	36	Surgalloy™	UM-986	
		6-0	0.7	75	30	Undyed	36	Surgalloy™	UM-886	
		5-0	1	75	30	Violet	36	Surgalloy™	GM-875	
CV-23 1/2 Circle 17.0 mm		6-0	0.7	75	30	Violet	36	Surgalloy™	UM-201	
		5-0	1	75	30	Violet	36	Surgalloy™	UM-202	
		5-0	1	75	30	Undyed	36	Surgalloy™	UM-213	
		4-0	1.5	75	30	Undyed	36	Surgalloy™	UM-214	
		4-0	1.5	75	30	Violet	36	Surgalloy™	UM-203	
		3-0	2	75	30	Undyed	36	Surgalloy™	UM-215	
		3-0	2	75	30	Violet	36	Surgalloy™	UM-204	
CV-23 1/2 Circle 17.0 mm Double-arm		3-0	2	75	30	Violet	36	Surgalloy™	CM-208	
		4-0	1.5	75	30	Violet	36	Surgalloy™	UM-403	
CV-25 1/2 Circle 22.0 mm		4-0	1.5	5 × 45	18	Violet	12	D-Tach™	GM-34-M	
		4-0	1.5	75	30	Violet	36	Surgalloy™	GM-181	
		3-0	2	45	18	Violet	12	D-Tach™	GMJ33M	
		3-0	2	75	30	Violet	36	Surgalloy™	GM-324	
		2-0	3	75	30	Violet	36	Surgalloy™	GM-183	
CV-25 1/2 Circle 22.0 mm Double-arm		3-0	2	90	36	Violet	36	Surgalloy™	GM-282	
		4-0	1.5	75	30	Violet	36	Surgalloy™	GM-281	
		4-0	1.5	90	36	Violet	36	Surgalloy™	GM-291	

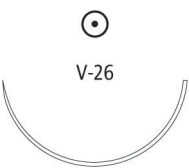




TAPER POINT										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
V-20 1/2 Circle 26.0 mm 	4-0	1.5	75	30	Violet	36	Surgalloy™	GM-121		
	4-0	1.5	75	30	Undyed	36	Surgalloy™	GM-321		
	3-0	2	5 × 45	18	Undyed	12		GM-69-M		
	3-0	2	75	30	Violet	36	Surgalloy™	GM-122		
	3-0	2	5 × 75	30	Violet	12	D-Tach™	GM-67-M		
	3-0	2	75	30	Undyed	36	Surgalloy™	GM-322		
	2-0	3	75	30	Violet	36		GM-123		
	2-0	3	75	30	Undyed	36		GM-323		
	2-0	3	90	36	Violet	36		GM-125		
V-20 1/2 Circle 26.0 mm Double-arm 	4-0	1.5	75	30	Violet	36	Surgalloy™	GM-421		
	4-0	1.5	90	36	Violet	36	Surgalloy™	GM-432		
	3-0	2	90	36	Violet	36	Surgalloy™	GM-332		
GS-22 1/2 Circle 27.0 mm 	3-0	2	75	30	Violet	36		CM-882		
	2-0	3	75	30	Violet	36		CM-883		
	2-0	3	75	30	Undyed	36		CM-830		
	0	3.5	75	30	Violet	36		CM-884		
	0	3.5	75	30	Undyed	36		CM-831		
	1	4	75	30	Violet	36		CM-832		
V-30 1/2 Circle 30.0 mm 	3-0	2	75	30	Violet	36		GM-222		
	2-0	3	75	30	Violet	36		GM-223		
	2-0	3	90	36	Violet	36		GM-326		
	0	3.5	90	36	Violet	36		GM-327		

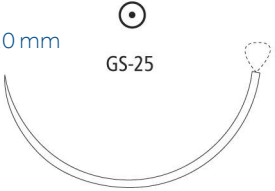




TAPER POINT									
Needles Specifications		Size		Length		Color	Units Per box	Comments	Reorder code
		USP	EP	cm	Inches				
V-26 1/2 Circle 37.0 mm 		3-0	2	75	30	Undyed	36		GM-226
		2-0	3	75	30	Undyed	36		GM-227
GS-21 1/2 Circle 37.0 mm 		3-0	2	5 × 45	18	Violet	12	D-Tach™	CM-738-M
		3-0	2	75	30	Undyed	36		CM-842
		3-0	2	75	30	Violet	36		CM-810
		3-0	2	90	36	Violet	36		CM-922
		2-0	3	5 × 45	18	Violet	12	D-Tach™	CM-9M
		2-0	3	75	30	Undyed	36		CM-843
		2-0	3	75	30	Violet	36		CM-811
		2-0	3	90	36	Undyed	36		CM-953
		2-0	3	90	36	Violet	36		CM-923
		0	3.5	5 × 45	18	Undyed	12		CM-14-M
		0	3.5	5 × 45	18	Violet	12	D-Tach™	CM-10-M
		0	3.5	75	30	Undyed	36		CM-844
		0	3.5	75	30	Violet	36		CM-812
		0	3.5	90	36	Violet	36		CM-924
		0	3.5	90	36	Undyed	36		CM-954
		1	4	5 × 45	18	Violet	12	D-Tach™	CM-11-M
		1	4	75	30	Undyed	36		CM-845
		1	4	75	30	Violet	36		CM-813
		1	4	90	36	Violet	36		CM-925

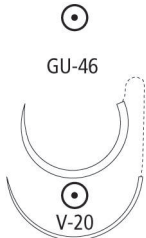
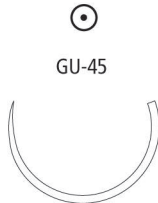
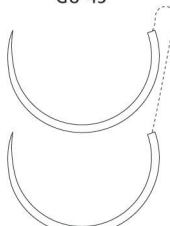
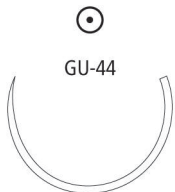




TAPER POINT									
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code	
	USP	EP	cm	Inches					
GS-24 1/2 Circle 40.0 mm 	3-0	2	90	36	Undyed	36		CM-962	
	2-0	3	75	30	Violet	36		CM-801	
	0	3.5	90	36	Violet	36		CM-914	
	0	3.5	90	36	Undyed	36		CM-964	
	1	4	90	36	Violet	36		CM-966	
GS-24 LOOP 1/2 Circle 40.0 mm 	0	3.5	150	60	Violet	12	Loop	CM-765-L	
	1	4	150	60	Violet	12	Loop	CM-767-L	
GS-25 1/2 Circle 48.0 mm 	2-0	3	90	36	Violet	36		CM-903	
	0	3.5	90	36	Undyed	36		CM-974	
	0	3.5	90	36	Violet	36		CM-904	
	1	4	5 × 45	18	Violet	12	D-Tach™	CM-31-M	
	1	4	90	36	Undyed	36		CM-975	
	1	4	90	36	Violet	36		CM-905	
GS-25 LOOP 1/2 Circle 48.0 mm 	0	3.5	150	60	Violet	12	Loop	CM-790L	
	1	4	150	60	Violet	12	Loop	CM-776L	
GS-26 LOOP 1/2 Circle 65.0 mm 	0	3.5	150	60	Violet	12	Loop	CM-779L	
	1	4	240	96	Violet	12	Loop	CM-780L	





TAPER POINT										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
GU-46 5/8 Circle 27.0 mm		GU-46	3-0	2	75	30	Violet	36		UM-879
			2-0	3	75	30	Undyed	36		UM-978
			2-0	3	75	30	Violet	36		UM-878
			0	3.5	75	30	Violet	36		UM-877
			0	3.5	75	30	Undyed	36		UM-977
GU-46 - V - 20 5/8 Circle 27.0 mm		GU-46	2-0	3	75	30	Violet	36	Loop	CM-558
GU-45 5/8 Circle 37.0 mm		GU-45	2-0	3	75	30	Undyed	36		UM-345
			2-0	3	75	30	Violet	36		UM-245
GU-45 - GU-45 5/8 Circle 37.0 mm Double-arm (Not to scale)		GU-45	3-0	2	75	30	Violet	36		UM-243
GU-44 5/8 Circle 40.0 mm		GU-44	0	3.5	75	30	Violet	36		UM-383

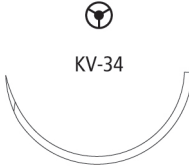
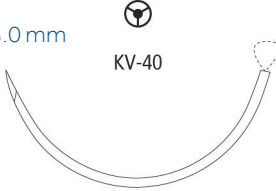




HEAVY TAPER POINT										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
HGS-20 1/2 Circle 34.0 mm			0	3.5	5 × 45	18	Violet	12	D-Tach™	CM-90-M
HGS-21 1/2 Circle 37.0 mm			0	3.5	75	30	Violet	36		CM-436





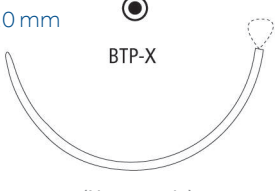
TAPERCUTTING										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
KV-34 1/2 Circle 37.0 mm  KV-34			2-0	3	75	30	Undyed	36		CM-827
KV-40 LOOP 1/2 Circle 48.0 mm  KV-40			1	4	150	60	Violet	12	Loop	CM-740L



BLUNT POINT										
Needles Specifications			Size		Length		Color	Units	Comments	Reorder code
			USP	EP	cm	Inches				
BTV-20 1/2 Circle 26.0 mm		3-0	2	75	30	Undyed	36		GMT-226	
BTP-1 1/2 Circle 37.0 mm		3-0	2	90	36	Undyed	36		CMT-952	
		2-0	3	75	30	Violet	36	ProtectPoint™	CMT-811	
		0	3.5	5 × 45	18	Violet	12	D-Tach™, ProtectPoint™	CMT-740-M	
		0	3.5	75	30	Violet	36		CMT-812	
		0	3.5	90	36	Undyed	36	ProtectPoint™	CMT-967	
		1	4	5 × 45	18	Violet	12	D-Tach™, ProtectPoint™	CMT-741-M	
BGS-24 1/2 Circle 40.0 mm		1	4	90	36	Violet	36	ProtectPoint™	CM-951	
BGS-25 1/2 Circle 48.0 mm		1	4	5 × 45	18	Violet	12	D-Tach™, ProtectPoint™	CM-949-M	





BLUNT POINT									
Needles Specifications		Size		Length		Color	Units Per box	Comments	Reorder code
		USP	EP	cm	Inches				
BTP-X 1/2 Circle 48.0 mm  (Not to scale)	 BTP-X	0	3.5	5 × 45	18	Violet	12	D-Tach™, ProtectPoint™	CMT-950-M
		0	3.5	90	36	Undyed	36	ProtectPoint™	CMT-974
		1	4	5 × 45	18	Violet	12	D-Tach™, ProtectPoint™	CMT-949-M
BTP-X LOOP 1/2 Circle 48.0 mm  (Not to scale)	 BTP-X	0	3.5	150	60	Violet	12	LOOP, ProtectPoint™	CMT-789-L

MAXON™

Monofilament Absorbable Suture

Highest knot holding capacity versus competition.



- Long-term monofilament absorbable suture
- Unequalled strength during critical stages of healing*
- Six weeks of wound support
- Monofilament construction provides smooth passage through tissue, minimizing tissue drag and trauma
- Maxon™ looped sutures provide double strength of a single strand and can reduce closure time by 50%

Absorption

By Hydrolysis. Essentially complete within 6 months.

Tensile Strength

Approximately 80% of the original suture strength 1 week post implantation. Approximately 75% @ 2 weeks, 65% @ 3 weeks, 50% @ 4 weeks and 25% @ 6 weeks post-implant.

Packaging

Available in USP and E.P sizes 1 (4 Metric) through 7-0 (0.5 Metric).

Maxon™ sutures are dyed with D&C Green No. 6.

Maxon™ sutures are also available in clear (Undyed).

The sutures are supplied sterile, affixed to various needle types, using permanent needle attachment techniques.

Indications

Indicated for use as absorbable sutures in general soft tissue approximation and/or ligation, including use in pediatric cardiovascular tissue, where growth is expected to occur, and in peripheral vascular tissue. Maxon™ sutures are not indicated for use in adult cardiovascular tissue, ophthalmic surgery, microsurgery, and neural tissue.

Description

Maxon™ monofilament polyglyconate synthetic absorbable sutures are prepared from a copolymer of glycolic acid and trimethylene carbonate.

Indications

Maxon™ sutures are indicated for use as absorbable sutures in general soft tissue approximation and/or ligation, including use in pediatric cardiovascular tissue, where growth is expected to occur, and in peripheral vascular tissue. Maxon™ sutures are not indicated for use in adult cardiovascular tissue, ophthalmic surgery, microsurgery, and neural tissue.

Actions

Maxon™ synthetic absorbable sutures elicit a minimal acute inflammatory reaction in tissues, which is followed by gradual encapsulation of the suture by fibrous connective tissue. Progressive loss of tensile strength and eventual absorption of Maxon™ synthetic absorbable sutures occurs by means of hydrolysis where the suture is broken down and subsequently absorbed and metabolized by the body.

Tensile Strength

Studies indicate that tensile strength for Maxon™ sutures is approximately 80% of the original suture strength at one week post-implant. Approximately 75% of the original suture strength remains at two weeks, 65% at three weeks, 50% at four weeks and 25% at six weeks post-implant.

Sterilization

Ethylene oxide.

Absorbtion

Absorption of Maxon™ synthetic absorbable sutures is minimal until about the 60th day after implantation and is essentially complete within six months.

Packaging

Maxon™ sutures are available in USP and E.P sizes 1 (4 Metric) through 7–0 (0.5 Metric). Maxon™ sutures are dyed with D&C Green No. 6. Maxon™ sutures are also available in clear (Undyed). The sutures are supplied sterile, affixed to various needle types, using permanent needle attachment techniques. Please refer to the individual package IFUs for complete instructions, indications, contraindications, warnings and precautions.

Please refer to the individual package IFUs for complete instructions, indications, contraindications, warnings and precautions.

Maxon™ suture is a brand you have trusted for over 25 years with a history of improvements and performance

PRE-CUT								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
	3-0	2	3 × 45	18	Green	36	Pre-cut	8886600741
	2-0	3	3 × 45	18	Green	36	Pre-cut	8886600751
	0	3.5	5 × 45	18	Green	12	Pre-cut	8886601563

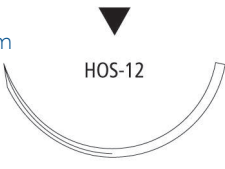
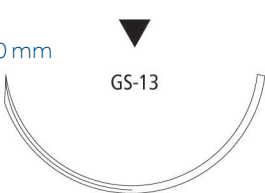
REVERSE CUTTING								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
C-1 3/8 Circle 12.0 mm 	5-0	1	45	18	Green	36		8886660521
	4-0	1.5	45	18	Green	36		8886660531
C-12 3/8 Circle 16.0 mm 	4-0	1.5	75	30	Clear	36		8886611831
C-13 3/8 Circle 19.0 mm 	5-0	1	45	18	Clear	36		8886660821
	4-0	1.5	45	18	Clear	36		8886660831
	4-0	1.5	75	30	Green	36		8886663931
	4-0	1.5	75	30	Clear	36		8886661231
	3-0	2	45	18	Clear	36		8886660841
	3-0	2	75	30	Green	36		8886663941
	3-0	2	75	30	Clear	36		8886661241



REVERSE CUTTING								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
C-14 3/8 Circle 24.0 mm 	4-0	1.5	75	30	Clear	36		8886661831
	3-0	2	75	30	Clear	36		8886661841
	3-0	2	75	30	Green	36		8886664141
	2-0	3	75	30	Green	36		8886664151
	2-0	3	75	30	Clear	36		8886661851
C-16 3/8 Circle 30.0 mm 	2-0	3	75	30	Clear	36		8886662651
C-27 1/2 Circle 20.0 mm 	3-0	2	45	18	Green	36		8886605941
GS-10 1/2 Circle 26.0 mm 	3-0	2	75	30	Clear	36		8886674441
	2-0	3	5 × 45	18	Green	12	D-Tach™	CMM-435-MG
	2-0	3	75	30	Green	36		8886674551
	2-0	3	75	30	Clear	36		8886674451
HOS-10 1/2 Circle 26.0 mm 	1	4	75	30	Green	36		88866751-71





REVERSE CUTTING								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
GS-11 1/2 Circle 37.0 mm 	2-0	3	75	30	Green	36		8886675551
	0	3.5	75	30	Green	36		8886675561
	1	4	75	30	Green	36		8886675571
HOS-11 1/2 Circle 37.0 mm 	1	4	75	30	Green	36		88866757-71
HOS-12 1/2 Circle 40.0 mm 	1	4	75	30	Green	36		8886678771
GS-13 1/2 Circle 48.0 mm 	1	4	90	36	Green	36		8886676971



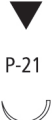


PREMIUM REVERSE CUTTING										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
P-10 3/8 Circle 11.0 mm		6-0	0.7	45	18	Green	36	Surgalloy™	8886653311	
		6-0	0.7	45	18	Clear	36	Surgalloy™	8886653211	
		5-0	1	45	18	Clear	36	Surgalloy™	8886653221	
P-13 3/8 Circle 13.0 mm		6-0	0.7	45	18	Clear	36	Surgalloy™	SMM-5516	
		5-0	1	45	18	Clear	36	Surgalloy™	SMM-5526	
		4-0	1.5	45	18	Clear	36	Surgalloy™	SMM-5536	
P-11 3/8 Circle 16.0 mm		5-0	1	45	18	Clear	36	Surgalloy™	SMM-5221	
		4-0	1.5	45	18	Clear	36	Surgalloy™	SMM-5431	
P-12 3/8 Circle 19.0 mm		5-0	1	45	18	Clear	36	Surgalloy™	SMM-5042	
		4-0	1.5	45	18	Clear	36	Surgalloy™	SMM-5043	
		4-0	1.5	45	18	Green	36	Surgalloy™	SMM-5033	
		4-0	1.5	75	30	Clear	36	Surgalloy™	SMM-5323	
		3-0	2	45	18	Clear	36	Surgalloy™	SMM-5044	
		3-0	2	75	30	Clear	36	Surgalloy™	8886663241	
P-14 3/8 Circle 24.0 mm		3-0	2	45	18	Clear	36	Surgalloy™	SMM-5241	
		2-0	3	45	18	Clear	36		8886662451	

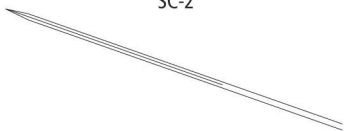
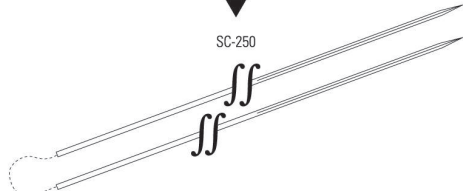




PREMIUM REVERSE CUTTING

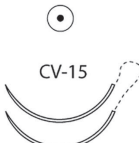
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
P-21 1/2 Circle 9.0 mm 	5-0	1	45	18	Clear	12		88866704-23
P-24 1/2 Circle 16.0 mm 	4-0	1.5	45	18	Clear	36	Surgalloy™	SMM-5831

CONVENTIONAL CUTTING

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
SC-2 Straight 60.0 mm 	4-0	1.5	75	30	Clear	36		8886690831
	3-0	2	75	30	Clear	36		8886690841
SC-250 Straight 254.0 mm Double-arm (Not to scale) 	2-0	3	75	30	Green	12		8886639053

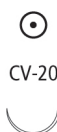
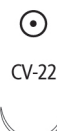
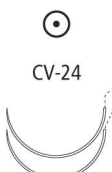




TAPER POINT									
Needles Specifications		Size		Length		Color	Units Per box	Comments	Reorder code
		USP	EP	cm	Inches				
CV-1 3/8 Circle 9.0 mm Double-arm		7-0	0.5	45	18	Green	36	Surgalloy™	8886614501
		7-0	0.5	60	24	Green	36	Surgalloy™	8886613901
		7-0	0.5	75	30	Green	36	Surgalloy™	8886612701
		6-0	0.7	60	24	Green	36	Surgalloy™	8886613911
		6-0	0.7	75	30	Green	36	Surgalloy™	8886612711
CV 3/8 Circle 11.0 mm Double-arm		6-0	0.7	45	18	Green	36	Surgalloy™	8886611511
CV-11 3/8 Circle 13.0 mm		6-0	0.7	75	30	Green	36	Surgalloy™	8886614811
		5-0	1	75	30	Green	36	Surgalloy™	8886614821
CV-11 3/8 Circle 13.0 mm Double-arm		6-0	0.7	45	18	Green	36	Surgalloy™	8886612111
		6-0	0.7	60	24	Green	36	Surgalloy™	8886614711
		6-0	0.7	75	30	Green	36	Surgalloy™	8886612411
		5-0	1	4×60	24	Green	12	Surgalloy™	8886616523
		5-0	1	60	24	Green	36	Surgalloy™	8886614721
		5-0	1	75	30	Green	36	Surgalloy™	8886612421
		5-0	1	90	36	Green	36	Surgalloy™	8886612821
CV-15 3/8 Circle 17.0 mm		4-0	1.5	75	30	Green	36		8886605731
CV-15 3/8 Circle 17.0 mm Double-arm		5-0	1	75	30	Green	36	Surgalloy™	8886646221
		4-0	1.5	75	30	Green	36	Surgalloy™	8886646231

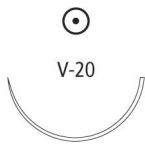
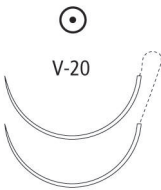
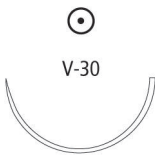




TAPER POINT										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
CV-20 1/2 Circle 10.0 mm		6-0	0.7	75	30	Green	36	Surgalloy™	8886600111	
CV-22 1/2 Circle 13.0 mm		6-0	0.7	75	30	Green	36	Surgalloy™	8886621311	
		5-0	1	75	0	Green	36		8886621321	
		4-0	1.5	5×45	18	Green	12	D-Tach™	8886620133	
		4-0	1.5	75	30	Green	36	Surgalloy™	8886621331	
CV-22 1/2 Circle 13.0 mm Double-arm		6-0	0.7	75	30	Green	36	Surgalloy™	8886613211	
		5-0	1	75	30	Green	36	Surgalloy™	8886612221	
CV-23 1/2 Circle 17.0 mm		5-0	1	75	30	Green	36	Surgalloy™	8886620721	
		4-0	1.5	75	30	Green	36	Surgalloy™	8886620731	
		3-0	2	75	30	Green	36	Surgalloy™	8886620741	
CV-23 1/2 Circle 17.0 mm Double-arm		5-0	1	75	30	Green	36	Surgalloy™	8886614921	
		4-0	1.5	90	36	Green	36	Surgalloy™	8886613431	
CV-24 1/2 Circle 20.0 mm		5-0	1	75	30	Green	36		8886621721	
		4-0	1.5	5×45	18	Green	12	D-Tach™	8886621933	
		4-0	1.5	75	30	Green	36		8886621731	
		3-0	2	5×45	18	Green	12	D-Tach™	8886621943	
		3-0	2	75	30	Green	36		8886621741	
CV-24 1/2 Circle 20.0 mm Double-arm		4-0	1.5	90	36	Green	36		8886622131	
		3-0	2	90	36	Green	36		8886603641	

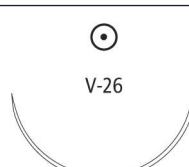




TAPER POINT									
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code	
	USP	EP	cm	Inches					
V-20 1/2 Circle 26.0 mm 	4-0	1.5	45	18	Green	12	D-Tach™	8886622933	
	4-0	1.5	5 × 75	30	Green	12	D-Tach™	8886603433	
	4-0	1.5	105	42	Green	36		8886614331	
	3-0	2	5 × 45	18	Green	12	D-Tach™	8886622943	
	3-0	2	75	30	Green	36	Surgalloy™	8886623341	
	3-0	2	75	30	Green	36		8886623341	
	3-0	2	75	30	Clear	36	Surgalloy™	8886623241	
	3-0	2	5 × 75	30	Green	12	D-Tach™	8886603443	
	2-0	3	5 × 45	18	Green	12	D-Tach™	8886622953	
	2-0	3	75	30	Green	36		8886623351	
	4-0	1.5	75	30	Green	36	Surgalloy™	8886623331	
V-20 1/2 Circle Double-arm 26.0 mm 	4-0	1.5	75	30	Green	36	Surgalloy™	8886623131	
	4-0	1.5	90	36	Green	36		8886623531	
	3-0	2	90	36	Green	36		8886623541	
GS-22 1/2 Circle 27.0 mm 	3-0	2	75	30	Green	36		8886624541	
	2-0	3	5 × 45	18	Green	12	D-Tach™	8886624753	
	2-0	3	75	30	Green	36		8886624551	
	0	3.5	75	30	Green	36		8886624561	
	1	4	75	30	Green	36		8886624571	
V-30 1/2 Circle 30.0 mm 	4-0	1.5	75	30	Green	36		8886626131	
	3-0	2	75	30	Green	36		8886626141	
	2-0	3	75	30	Green	36		8886626151	
	0	3.5	75	30	Green	36		8886626161	

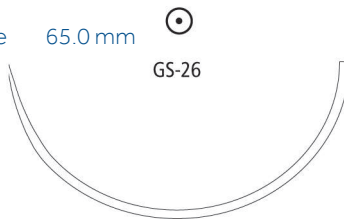




TAPER POINT								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
GS-21 1/2 Circle 37.0 mm 	3-0	2	75	30	Green	36		8886626741
	2-0	3	5 × 45	18	Green	12	D-Tach™	8886627553
	2-0	3	75	30	Green	36		8886626751
	2-0	3	90	36	Green	36		8886626951
	2-0	3	150	60	Green	12		GMM-951
	0	3.5	5 × 45	18	Green	12	D-Tach™	8886627563
	0	3.5	75	30	Green	36		8886626761
	0	3.5	90	36	Green	36		8886626961
	1	4	5 × 45	18	Green	12	D-Tach™	8886627573
	1	4	75	30	Green	36		8886626771
	1	4	90	36	Green	36		8886626971
V-26 1/2 Circle 37.0 mm 	3-0	2	75	30	Green	36		8886625741
	2-0	3	75	30	Green	36		8886625751
	0	3.5	75	30	Green	36		8886625761
GS-24 1/2 Circle 40.0 mm 	2-0	3	90	36	Green	36		8886628751
	0	3.5	75	30	Green	36		8886628561
	0	3.5	90	36	Green	36		8886628761
	1	4	75	30	Green	36		8886628571
	1	4	90	36	Green	36		8886628771
GS-24 LOOP 1/2 Circle 40.0 mm 	0	3.5	150	60	Green	12	Loop	GMM-563L
	1	4	150	60	Green	12	Loop	GMM573L

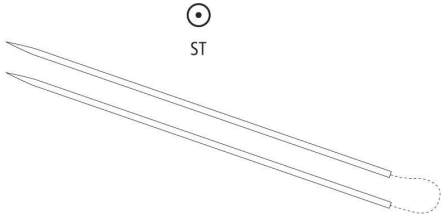


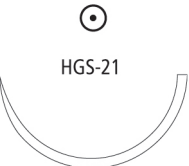


TAPER POINT									
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code	
	USP	EP	cm	Inches					
GS-25 1/2 Circle 48.0 mm 	0	3.5	5 × 45	18	Green	12	D-Tach™	8886631163	
	0	3.5	90	36	Green	36		8886630761	
	1	4	5 × 45	18	Green	12	D-Tach™	8886631173	
	1	4	90	36	Green	36		8886630771	
	1	4	150	60	Green	24		8886630972	
GS-25 LOOP 1/2 Circle 48.0 mm 	0	3.5	150	60	Green	12	Loop	GMM-634L	
	1	4	150	60	Green	12	Loop	GMM-632L	
GS-26 1/2 Circle 65.0 mm 	0	3.5	150	60	Green	24		8886631962	
	1	4	100	40	Green	36		8886632271	
	1	4	150	60	Green	24		8886631972	
GS-26 LOOP 1/2 Circle 65.0 mm 	0	3.5	150	60	Green	12	Loop	GMM-341L	
	0	3.5	240	96	Green	12	Loop	GMM-343L	
	1	4	240	96	Green	12	Loop	GMM-344L	
GU-46 5/8 Circle 27.0 mm 	2-0	3	75	30	Green	36		8886640351	
GU-46 5/8 Circle 27.0 mm Double-arm 	2-0	3	75	30	Green	36		8886640451	



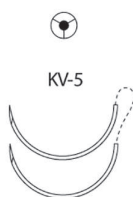


TAPER POINT								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
ST Straight 60.0 mm Double-arm (Not to scale) 	3-0	2	75	30	Green	36		8886623741
	0	3.5	75	30	Green	36		8886623761

HEAVY TAPER POINT								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
HGS-22 1/2 Circle 27.0 mm 	0	3.5	75	30	Green	36		8886624961
HGS-21 1/2 Circle 37.0 mm 	0	3.5	90	36	Green	36		8886633961
	1	4	90	36	Green	36		88866339-71
HGU-46 5/8 Circle 27.0 mm 	0	3.5	45	18	Green	36		8886645561
	0	3.5	75	30	Green	36		8886645661
	1	4	75	30	Green	36		8886641971



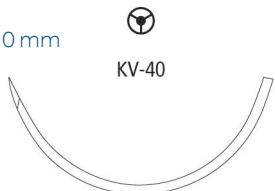
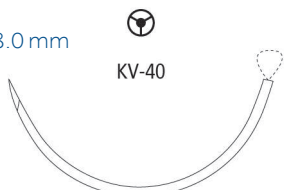


TAPERCUTTING										
Needles Specifications			Size		Length		Color	Units	Comments	Reorder code
			USP	EP	cm	Inches				
KV-1 3/8 Circle 9.0 mm		KV-1	6-0	0.7	75	30	Green	36	Surgalloy™	88866768-11
KV-11 3/8 Circle 13.0 mm		KV-11	6-0	0.7	75	30	Green	36	Surgalloy™	88866297-11
			5-0	1	75	30	Green	36	Surgalloy™	88866297-21
KV-11 3/8 Circle 13.0 mm Double-arm		KV-11	6-0	0.7	75	30	Green	36	Surgalloy™	88866288-11
			5-0	1	75	30	Green	36	Surgalloy™	88866288-21
KV-5 1/2 Circle 17.0 mm Double-arm		KV-5	4-0	1.5	90	36	Green	36	Surgalloy™	VMM-137
KV-7 1/2 Circle 26.0 mm		KV-7	2-0	3	75	30	Green	36		88866292-51
KV-34 1/2 Circle 37.0 mm		KV-34	0	3.5	90	36	Green	36		8886627761





TAPERCUTTING

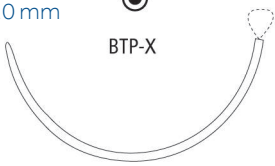
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
KV-37 LOOP 1/2 Circle 40.0 mm  KV-37	1	4	150	60	Green	12	Loop	GMM-873L
KV-40 1/2 Circle 48.0 mm  KV-40	1	4	90	36	Green	36		8886629571
KV-40 LOOP 1/2 Circle 48.0 mm  KV-40	0	3.5	150	60	Green	12	Loop	GMM-806L
	1	4	150	60	Green	12	Loop	GMM-807L

BLUNT POINT

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
BTP-1 1/2 Circle 37.0 mm  BTP-1	2-0	3	90	36	Green	36	ProtectPoint™	GMMT-951
	0	3.5	5 × 45	18	Green	12	D-Tach™, ProtectPoint™	GMMT-563-MG
	0	3.5	90	36	Green	36	ProtectPoint™	GMMT-961



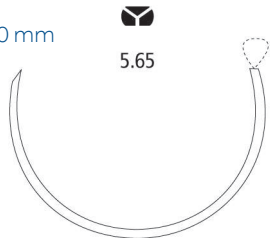


BLUNT POINT									
Needles Specifications		Size		Length		Color	Units Per box	Comments	Reorder code
		USP	EP	cm	Inches				
BTP-X 1/2 Circle 48.0 mm 	 BTP-X	0	3.5	5 × 45	18	Green	12	D-Tach™, ProtectPoint™	GMMT-541-MG
		1	4	5 × 45	18	Green	12	D-Tach™, ProtectPoint™	GMMT-540-MG
BTP-X LOOP 1/2 Circle 48.0 mm 	 BTP-X	0	3.5	150	60	Green	12	Loop, ProtectPoint™	GMMT-89L
		1	4	150	60	Green	12	Loop, ProtectPoint™	GMMT-90L
BGS-25 1/2 Circle 48.0 mm 	 BGS-25	0	3.5	90	36	Green	12	ProtectPoint™	8886606163
		1	4	90	36	Green	12	ProtectPoint™	8886606173
BGS-29 1/2 Circle 63.0 mm 	 BGS-29	1	4	150	60	Green	12	ProtectPoint™	8886606773





MULTIPURPOSE

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
5.65 LOOP 5/8 Circle 65.0 mm  5.65	0	3.5	150	60	Green	12	Loop	GMM-496L
	1	4	180	72	Green	12	Loop	GMM-497L

SPATULA

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
DGE-6 3/8 Circle 8.0 mm  DGE-6	7-0	0.5	45	18	Green	36		8886662801



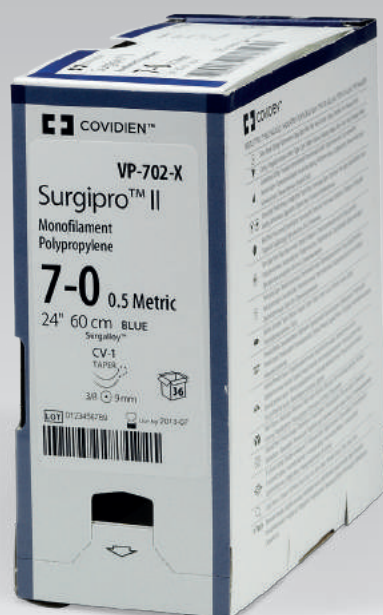
Maxon™ and Maxon™ CV



SURGIPRO™ II

Monofilament Polypropylene

Meeting the demands in cardiovascular surgery.



Used for cardiovascular and peripheral vascular procedures

Surgipro™ II suture is a brand you have trusted for many years with several product innovations. Our history of innovation and experience provides you with consistent and reliable outcomes. With us, your patient's life can be safe and secure.

Suture Performance

The continuous improvement in handling characteristics ensures ease of use.

Tensile Strength

Surgipro™ and Surgipro™ II polypropylene sutures are not absorbed, nor is any significant change in strength retention known to occur in vivo.

Packaging

Available in sizes 1 (4 Metric), through 6–0 (0.7 Metric).

Surgipro™ II sutures are available in sizes 3–0 (2 Metric) through 8–0 (0.4 Metric). The sutures are supplied sterile; affixed to various types of needles, using both permanent needle attachment techniques.

Surgipro™ and Surgipro™ II polypropylene sutures are also available with PTFE (polytetrafluorethylene) Pledgets for use as a pad between the suture area and the tissue surface to increase the load bearing area.

Surgipro™ polypropylene sutures are available in presentations containing Bead and Collar components to anchor the ends of the suture for subcuticular closure or for use as tendon sutures.

Indicated for use in general soft tissue approximation and/or ligation, including use in cardiovascular, ophthalmic, and neural tissue.

Indicated for use in soft tissue approximation of the skin, mucosa and conjunctiva, where only 7–10 days of wound support is required, but not for use in ligation, cardiovascular or neurological tissue.

Indications

Surgipro™ and Surgipro™ II polypropylene sutures are indicated for use in general soft tissue approximation and/or ligation, including use in cardiovascular, ophthalmic, and neural tissue.

Description

Surgipro™ and Surgipro™ II monofilament sutures (pigmented) are inert, nonabsorbable, sterile sutures composed of an isotactic crystalline stereoisomer of polypropylene (a synthetic linear polyolefin) and polyethylene.

Indications

Surgipro™ and Surgipro™ II polypropylene sutures are indicated for use in general soft tissue approximation and/or ligation, including use in cardiovascular, ophthalmic, and neural tissue.

Actions

Surgipro™ and Surgipro™ II polypropylene sutures elicit a minimal acute inflammatory reaction in tissues, which is followed by gradual encapsulation of the suture by fibrous connective tissue.

Tensile Strength

Surgipro™ and Surgipro™ II polypropylene sutures are not absorbed, nor is any significant change in strength retention known to occur in vivo.

Sterilization

Ethylene oxide.

Packaging

Surgipro™ II polypropylene sutures are available either undyed (clear) or dyed with Copper Phthalocyanine Blue. Surgipro™ sutures are available in sizes 1 (4 Metric), through 6-0 (0.7 Metric). Surgipro™ II sutures are available in sizes 3-0 (2 Metric) through 8-0 (0.4 Metric). The sutures are supplied sterile; affixed to various types of needles, using both permanent needle attachment techniques. Surgipro™ and Surgipro™ II polypropylene sutures are also available with PTFE (polytetrafluorethylene) Pledgets for use as a pad between the suture area and the tissue surface to increase the load bearing area. Surgipro™ polypropylene sutures are available in presentations containing Bead and Collar components to anchor the ends of the suture for subcuticular closure or for use as tendon sutures.

Please refer to the individual package IFUs for complete instructions, indications, contraindications, warnings and precautions.

Surgipro™ / Surgipro™ II

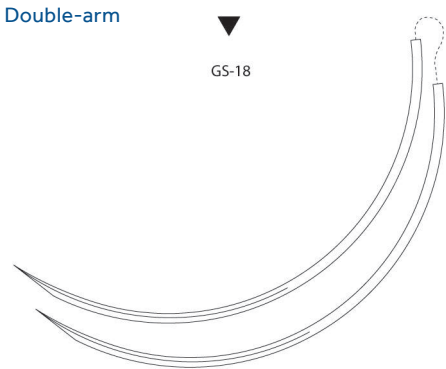
Surgipro™ / Surgipro™ II suture is a brand you have trusted for many years with several product innovations.

REVERSE CUTTING								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
C-12 3/8 Circle 16.0 mm 	6-0	0.7	45	18	Blue	12		SP-660G
	6-0	0.7	45	18	Blue	36		SP-660
	5-0	1	45	18	Blue	12		SP-559G
	4-0	1.5	75	30	Blue	36		SP-631
C-13 3/8 Circle 19.0 mm 	5-0	1	45	18	Blue	36		SP-661
	5-0	1	45	18	Blue	12		SP-661G
	4-0	1.5	45	18	Blue	36		SP-683
	4-0	1.5	45	18	Blue	12		SP-683G
	3-0	2	45	18	Blue	12		SP-665G
	3-0	2	45	18	Blue	36		SP-665
	3-0	2	75	30	Blue	36		SP-655
C-14 3/8 Circle 24.0 mm 	4-0	1.5	45	18	Blue	36		SP-629
	3-0	2	45	18	Blue	36		SP-684
	3-0	2	45	18	Blue	12		SP-684G



REVERSE CUTTING									
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code	
	USP	EP	cm	Inches					
C-15 3/8 Circle 26.0 mm 	2-0	3	45	18	Blue	12		SP-868G	
	2-0	3	45	18	Blue	36		SP-868	
	2-0	3	75	30	Blue	36		SP-685	
C-16 3/8 Circle 30.0 mm 	4-0	1.5	75	30	Blue	36	Nupack	SP-670	
	3-0	2	75	30	Blue	36		SP-675	
C-18 3/8 Circle 35.0 mm 	3-0	2	75	30	Blue	12	2 beads & 2 collars	SP-624-BC	
C-17 3/8 Circle 39.0 mm 	3-0	2	75	30	Blue	36		SP-649	
	2-0	3	75	30	Blue	36		SP-689	
	0	3.5	75	30	Blue	36		SP-690	



REVERSE CUTTING									
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code	
	USP	EP	cm	Inches					
GS-18 3/8 Circle 77.0 mm 	2	5	75	30	Blue	24		CP-460	
GS-18 3/8 Circle 77.0 mm Double-arm 	2	5	3 × 60	24	Blue	12	Long pack	3-CP-360	
GS-10 1/2 Circle 26.0 mm 	2-0	3	75	30	Blue	36		CP-443	
GS-11 1/2 Circle 37.0 mm 	2-0	3	75	30	Blue	36		CP-453	





PREMIUM REVERSE CUTTING										
Needles Specifications			Size		Length		Color	Units	Comments	Reorder code
			USP	EP	cm	Inches				
P-10 3/8 Circle 11.0 mm		7-0	0.5	45	18	Blue	12	Surgalloy™	SP-1696G	
		7-0	0.5	45	18	Blue	36	Surgalloy™	SP-1696	
		6-0	0.7	45	18	Blue	36	Surgalloy™	SP-1697	
		6-0	0.7	45	18	Clear	36	Surgalloy™	SP-1606	
		6-0	0.7	45	18	Blue	12	Surgalloy™	SP-5697G	
		5-0	1	45	18	Blue	12	Surgalloy™	SP-2698G	
P-13 3/8 Circle 13.0 mm		6-0	0.7	45	18	Blue	12	Surgalloy™	SP-5695-G	
		6-0	0.7	45	18	Blue	36	Surgalloy™	SP-5695	
		5-0	1	45	18	Blue	12	Surgalloy™	SP-5698-G	
		5-0	1	45	18	Blue	36	Surgalloy™	SP-5698	
		4-0	1.5	45	18	Blue	12	Surgalloy™	SP-5699G	
		4-0	1.5	45	18	Blue	36	Surgalloy™	SP-5699	
P-11 3/8 Circle 16.0 mm		6-0	0.7	45	18	Blue	12	Surgalloy™	SP-5680G	
		5-0	1	45	18	Blue	12	Surgalloy™	SP-5681G	
		5-0	1	45	18	Blue	36	Surgalloy™	SP-5681	
		4-0	1.5	45	18	Blue	12	Surgalloy™	SP-5692G	
		3-0	2	45	18	Blue	12	Surgalloy™	SP-1693G	
P-12 3/8 Circle 19.0 mm		5-0	1	45	18	Blue	12	Surgalloy™	SP-5686G	
		5-0	1	45	18	Blue	36	Surgalloy™	SP-5686	
		4-0	1.5	45	18	Blue	12	Surgalloy™	SP-5682G	
		4-0	1.5	45	18	Blue	36	Surgalloy™	SP-5682	
		3-0	2	45	18	Blue	36	Surgalloy™	SP-5687	
		3-0	2	45	18	Blue	12	Surgalloy™	SP-5687G	
		3-0	2	75	30	Blue	36		SP-5587	

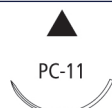
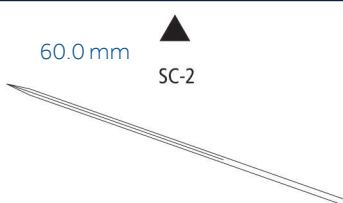




PREMIUM REVERSE CUTTING											
Needles Specifications				Size		Length		Color	Units Per box	Comments	Reorder code
				USP	EP	cm	Inches				
P-14 3/8 Circle 24.0 mm		3-0	2	45	18	Blue	12	Surgalloy™	SP-5663G		
		3-0	2	75	30	Blue	36		SP-5563		
P-22 1/2 Circle 13.0 mm		4-0	1.5	45	18	Blue	12	Surgalloy™	SP-8656G		

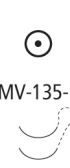




CONVENTIONAL CUTTING										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
PC-13 3/8 Circle 11.0 mm 	6-0	0.7	45	18	Blue	36		SP-1617		
	5-0	1	45	18	Blue	36		SP-1618		
PC-11 3/8 Circle 16.0 mm 	6-0	0.7	45	18	Blue	36		SP-1636		
	5-0	1	45	18	Blue	36	Surgalloy™	SP-1635		
	4-0	1.5	45	18	Blue	36		SP-1634		
PC-12 3/8 Circle 19.0 mm 	4-0	1.5	45	18	Blue	36		SP-1644		
	3-0	2	45	18	Blue	36		SP-1643		
SC-2 Straight 60.0 mm 	4-0	1.5	75	30	Blue	36		SP-621		
	3-0	2	75	30	Blue	36		SP-622		
	3-0	2	75	30	Blue	24	2 beads and 2 collars	SP-622-BC		
	2-0	3	75	30	Blue	24	2 beads and 2 collars	SP-623-BC		
	2-0	3	75	30	Blue	36		SP-623		





TAPER POINT										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
MV-70-3 3/8 Circle 4.0 mm 	10-0	0.2	13	5	Blue	12	Surgalloy™	P-2790G		
MV-100-4 3/8 Circle 5.0 mm 	10-0	0.2	13	5	Blue	12	Surgalloy™	P-2794G		
MV-100-4 3/8 Circle 5.0 mm Double-arm 	10-0	0.2	5	30	Blue	12	Surgalloy™	P-2795G		
MV-135-5 3/8 Circle 6.0 mm Double-arm 	8-0	0.4	45	18	Blue	36	Surgalloy™	VP-900-X		
	8-0	0.4	5 × 45	18	Blue	12	Surgalloy™, LONG PACK	VP-901-MX		
	8-0	0.4	2 × 45	18	Blue	12	Surgalloy™, LONG PACK	VP-900-MX		
	8-0	0.4	60	24	Blue	36	Surgalloy™	VP-902-X		
	8-0	0.4	5 × 60	24	Blue	12	Surgalloy™, LONG PACK	VP-903-MX		
	8-0	0.4	2 × 60	24	Blue	12	Surgalloy™, LONG PACK	VP-902-MX		
	8-0	0.4	75	30	Blue	12	Surgalloy™, LONG PACK	VP-973-X		
	7-0	0.5	60	24	Blue	36	Surgalloy™	VP-904-X		
	7-0	0.5	2 × 60	24	Blue	12	Surgalloy™, LONG PACK	VP-904-MX		





TAPER POINT									
Needles Specifications		Size		Length		Color	Units Per box	Comments	Reorder code
		USP	EP	cm	Inches				
MVF-135-5 3/8 Circle 6.0 mm Double-arm	 MV-135-5 	8-0	0.4	2 × 60	24	Blue	12	Surgalloy™, LONG PACK	VP-209MX
MV-175-8 3/8 Circle 8.0 mm Double-arm	 MV-175-8 	8-0	0.4	45	18	Blue	36	Surgalloy™	VP-744-X
		8-0	0.4	2 × 45	18	Blue	12	Surgalloy™, LONG PACK	VP-744-MX
		8-0	0.4	60	24	Blue	36	Surgalloy™	VP-745-X
		8-0	0.4	2 × 60	24	Blue	12	Surgalloy™, LONG PACK	VP-743-MX
		8-0	0.4	2 × 75	30	Blue	12	Surgalloy™, LONG PACK	VP-753-MX
		7-0	0.5	2 × 45	18	Blue	12	LONG PACK	VP-736-M
		7-0	0.5	45	18	Blue	36	Surgalloy™	VP-628
		7-0	0.5	5 × 45	18	Blue	12	Surgalloy™, LONG PACK	VP-734-MX
		7-0	0.5	60	24	Blue	36	Surgalloy™	VP-735-X
		7-0	0.5	2 × 60	24	Blue	12	Surgalloy™, LONG PACK	VP-737-MX
		7-0	0.5	5 × 60	24	Blue	12	Surgalloy™, LONG PACK	VP-735-MX
		7-0	0.5	75	30	Blue	36	Surgalloy™	VP-747-X
		7-0	0.5	2 × 75	30	Blue	12	Surgalloy™, LONG PACK	VP-747-MX
MVF-175-8 3/8 Circle 8.0 mm Double-arm	 MV-175-8 	8-0	0.4	60	24	Blue	12		VPF-738-MX
		7-0	0.5	60	24	Blue	36	Surgalloy™	VPF-735-X

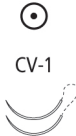




TAPER POINT									
Needles Specifications		Size		Length		Color	Units Per box	Comments	Reorder code
		USP	EP	cm	Inches				
CV-351 3/8 Circle 8.0 mm Double-arm	 CV-351	8-0	0.4	60	24	Blue	36	Cardiopoint™	VP-738-X
		8-0	0.4	2 × 60	24	Blue	12	Cardiopoint™, LONG PACK	VP-738-MX
		7-0	0.5	60	24	Blue	36	Cardiopoint™	VP-630-X
		6-0	0.7	60	24	Blue	36	Cardiopoint™	VP-631-X
CVF-1 3/8 Circle 9.0 mm Double-arm	 CVF-1	7-0	0.5	60	24	Blue	12	Surgalloy™, LONG PACK	VP-102-MX
		7-0	0.5	60	24	Blue	36	Surgalloy™, NUPACK™	VPF-702-X
		7-0	0.5	75	30	Blue	36	Surgalloy™, NUPACK™	VPF-713-X
		6-0	0.7	60	24	Blue	36	Surgalloy™, NUPACK™	VPF-703-X
		6-0	0.7	75	30	Blue	36	Surgalloy™, NUPACK™	VPF-709-X

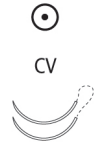




TAPER POINT										
Needles Specifications			Size		Length		Color	Units	Comments	Reorder code
			USP	EP	cm	Inches				
CV-1 3/8 Circle 9.0 mm 		7-0	0.5	5 × 45	18	Blue	36	Surgalloy™, NUPACK™	VP-701-X	
		7-0	0.5	45	18	Blue	12	Surgalloy™, LONG PACK	VP-701-MX	
		7-0	0.5	60	24	Blue	36	Surgalloy™, NUPACK™	VP-702-X	
		7-0	0.5	5 × 60	24	Blue	12	Surgalloy™, LONG PACK	VP-702-MX	
		7-0	0.5	75	30	Blue	36	Surgalloy™, NUPACK	VP-713-X	
		7-0	0.5	5 × 75	30	Blue	12	Surgalloy™, LONG PACK	VP-713-MX	
		6-0	0.7	45	18	Blue	36	Surgalloy™, NUPACK™	VP-746-X	
		6-0	0.7	2 × 45	18	Blue	12	Surgalloy™, LONG PACK	VP-746-MX	
		6-0	0.7	60	24	Blue	36	Surgalloy™, NUPACK™	VP-703-X	
		6-0	0.7	60	24	Blue	12	Surgalloy™, LONG PACK	VP-703-MX	
		6-0	0.7	75	30	Blue	12	Surgalloy™, LONG PACK	VP-709-MX	
		6-0	0.7	75	30	Blue	36	Surgalloy™, NUPACK	VP-709-X	
		6-0	0.7	90	36	Blue	36	Surgalloy™, NUPACK	VP-365-X	
CV-1 OPTIVIS 3/8 Circle 9.0 mm Double-arm		7-0	0.5	60	24	Blue	36	Optivis™	VP-72-X	
		7-0	0.5	5 × 60	24	Blue	12	Optivis™, LONG PACK	VP-72-MX	
		7-0	0.5	75	30	Blue	12	Optivis™, LONG PACK	VP-37-MX	
		6-0	0.7	60	24	Blue	36	Optivis™, NUPACK™	VP-73-X	
		6-0	0.7	5 × 60	24	Blue	12	Optivis™, LONG PACK	VP-73-MX	





TAPER POINT									
Needles Specifications		Size		Length		Color	Units Per box	Comments	Reorder code
		USP	EP	cm	Inches				
MV-175-9 3/8 Circle 10.0 mm Double-arm	 MV-175-9	8-0	0.4	60	24	Blue	36	Surgalloy™	VP-763-X
		7-0	0.5	5 × 75	30	Blue	12	Surgalloy™, LONG PACK	VP-875-MX
		7-0	0.5	75	30	Blue	36	Surgalloy™	VP-875-X
CV 3/8 Circle 11.0 mm Double-arm	 CV	6-0	0.7	60	24	Blue	36	Optivis™, NUPACK™	VP-74-X
		6-0	0.7	75	30	Blue	36	Surgalloy™, NUPACK	VP-776-X
CVF 3/8 Circle 11.0 mm Double-arm	 CVF	6-0	0.7	75	30	Blue	36	Surgalloy™, NUPACK	VPF-776-X

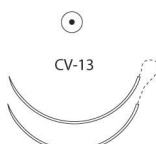




TAPER POINT									
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code	
	USP	EP	cm	Inches					
CV-11 3/8 Circle 13.0 mm Double-arm	 CV-11	7-0	0.5	45	18	Blue	36	Surgalloy™, NUPACK™	VP-800-X
		7-0	0.5	60	24	Blue	36	Surgalloy™, NUPACK™	VP-727-X
		7-0	0.5	75	30	Blue	36	Surgalloy™, NUPACK™	VP-812-X
		6-0	0.7	45	18	Blue	36	Optivis™, NUPACK™	VP-78-X
		6-0	0.7	45	18	Blue	36	Surgalloy™, NUPACK™	VP-718-X
		6-0	0.7	5 × 45	18	Blue	12	Surgalloy™, LONG PACK	VP-718-MX
		6-0	0.7	60	24	Blue	36	Surgalloy™, NUPACK™	VP-726-X
		6-0	0.7	5 × 60	24	Blue	12	Surgalloy™, LONG PACK	VP-726-MX
		6-0	0.7	75	30	Blue	36	Optivis™, NUPACK™	VP-76-X
		6-0	0.7	75	30	Blue	36	Surgalloyv, NUPACK™	VP-706-X
		6-0	0.7	5 × 75	30	Blue	12	Optivis™, LONG PACK	VP-76-MX
		6-0	0.7	5 × 75	30	Blue	12	Surgalloy™, LONG PACK	VP-706-MX
		6-0	0.7	90	36	Blue	36	Surgalloy™, NUPACK™	VP-363-X
		5-0	1	45	18	Blue	36	Surgalloy™, NUPACK™	VP-719-X
		5-0	1	45	18	Blue	12	Surgalloy™, LONG PACK	VP-719-MX
		5-0	1	60	24	Blue	36	Optivis™	VP-75-X
		5-0	1	60	24	Blue	36	Surgalloy™, NUPACK™	VP-725-X
		5-0	1	5 × 60	24	Blue	12	Surgalloy™, LONG PACK	VP-725-MX
CV-11 3/8 Circle 13.0 mm	 CV-11	4-0	1.5	75	30	Blue	36	Surgalloy™	VP-891
		6-0	0.7	75	30	Blue	36	Surgalloy™	VP-889-X
		5-0	1	75	30	Blue	36	Surgalloy™	VP-890-X





TAPER POINT										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
CVF-11 3/8 Circle 13.0 mm Double-arm		6-0	0.7	60	24	Blue	36	NUPACK	VPF-726-X	
		6-0	0.7	60	24	Blue	12	Surgalloy™, LONG PACK	VP-126-MX	
		6-0	0.7	75	30	Blue	36	Surgalloy™, NUPACK	VPF-706-X	
		5-0	1	90	36	Blue	36	Surgalloy™	VPF-720-X	
		5-0	1	90	36	Blue	12	Surgalloy™, LONG PACK	VP-120-MX	
CV-15 3/8 Circle 17.0 mm		4-0	1.5	75	30	Blue	36	Surgalloy™	VP-881-X	
CV-15 3/8 Circle 17.0 mm Double-arm		5-0	1	75	30	Blue	36	Surgalloy™	VP-570X	
		5-0	1	90	36	Blue	36	Surgalloy™, NUPACK	VP-580-X	
		4-0	1.5	60	24	Blue	36	Surgalloy™	VP-584-X	
		4-0	1.5	90	36	Blue	36	3 mm × 7 mm FIRM	VP-582-X	
		4-0	1.5	90	36	Blue	36	Surgalloy™	VP-581-X	
		4-0	1.5	120	48	Blue	36	Surgalloy™	VP-583-X	
		3-0	2	90	36	Blue	36	Surgalloy™	VP-585-X	
CV-13 3/8 Circle 22.0 mm Double-arm		4-0	1.5	75	30	Blue	36	Surgalloy™	VP-841-X	
		4-0	1.5	90	36	Blue	36	Surgalloy™	VP-851-X	
		3-0	2	90	36	Blue	36	Surgalloy™	VP-532-X	
		2-0	3	90	36	Blue	36		VP-533	
CV-20 1/2 Circle 10.0 mm Double-arm		7-0	0.5	60	24	Blue	36	Surgalloy™, NUPACK™	VP-772-X	
		6-0	0.7	60	24	Blue	36	Surgalloy™, NUPACK™	VP-754-X	
		5-0	1	60	24	Blue	36	Surgalloy™, NUPACK™	VP-755-X	





TAPER POINT									
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code	
	USP	EP	cm	Inches					
CV-22 1/2 Circle 13.0 mm Double-arm	 CV-22	6-0	0.7	45	18	Blue	36	Surgalloy™, NUPACK™	VP-714-X
		6-0	0.7	60	24	Blue	36	Surgalloy™, NUPACK™	VP-711-X
		6-0	0.7	5 × 75	30	Blue	12	Surgalloy™, LONG PACK	VP-733-MX
		6-0	0.7	75	30	Blue	36	Surgalloy™, NUPACK	VP-733-X
		5-0	1	45	18	Blue	36	Surgalloy™, NUPACK™	VP-715-X
		5-0	1	60	24	Blue	36	Surgalloy™, NUPACK™	VP-205-X
		5-0	1	5 × 75	30	Blue	12	Surgalloy™, LONG PACK	VP-710-MX
		5-0	1	75	30	Blue	36	Surgalloy™, NUPACK	VP-710-X
		4-0	1.5	60	24	Blue	36	Surgalloy™	VP-204-X
CV-23 1/2 Circle 17.0 mm	 CV-23	5-0	1	75	30	Blue	36	Surgalloy™, NUPACK	VP-870-X
		4-0	1.5	75	30	Blue	36	Surgalloy™	VP-871-X
		3-0	2	75	30	Blue	36	Surgalloy™	VP-872-X
CV-23 1/2 Circle 17.0 mm Double-arm	 CV-23	6-0	0.7	90	36	Blue	36	Surgalloy™, NUPACK	VP-555X
		5-0	1	90	36	Blue	36	Surgalloy™, NUPACK	VP-556X
		5-0	1	90	36	Blue	36	Optivis™	VP-660-X
		5-0	1	60	24	Blue	36	Surgalloy™, NUPACK™	VP-566X
		5-0	1	5 × 90	36	Blue	12	Surgalloy™, LONG PACK	VP-556MX
		4-0	1.5	45	18	Blue	36	Surgalloy™	VP-757-X
		4-0	1.5	90	36	Blue	36	Pledgets 3 mm × 7 mm FIRM	VPP-557-X
		4-0	1.5	90	36	Blue	36	Surgalloy™	VP-557X





TAPER POINT									
Needles Specifications		Size		Length		Color	Units	Comments	Reorder code
		USP	EP	cm	Inches				
CV-337 1/2 Circle 10.0 mm Double-arm		6-0	0.7	60	24	Blue	36	Cardiopoint™	VP-854-X
CVF-21 1/2 Circle 12.0 mm Double-arm		4-0	1.5	60	24	Blue	36	Surgalloy™	VPF-610-X
CVF-22 1/2 Circle 13.0 mm Double-arm		6-0	0.7	75	30	Blue	36	Surgalloy™, NUPACK	VPF-733-X
		5-0	1	75	30	Blue	36	Surgalloy™, NUPACK	VPF-710-X
		5-0	1	90	36	Blue	36	Surgalloy™, NUPACK	VPF-711-X

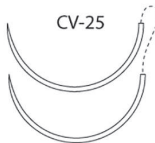
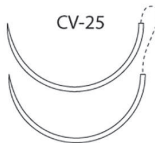




TAPER POINT									
Needles Specifications		Size		Length		Color	Units Per box	Comments	Reorder code
		USP	EP	cm	Inches				
CVL Cardio curve 11.0 mm Double-arm	 CVL 	7-0	0.5	2 × 60	24	Blue	12	Optivis™	VP-652-MX

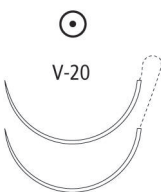




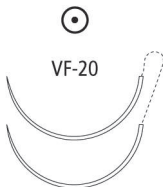
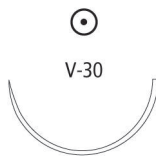
TAPER POINT										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
CV-23 1/2 Circle 17.0 mm 		CV-23	3-0	2	75	30	Blue	36	Surgalloy™	VP-872-X
			4-0	1.5	120	48	Blue	36	Surgalloy™	X-1252
			5-0	1	75	30	Blue	36	Surgalloy™	VP-870-X
			4-0	1.5	75	30	Blue	36	Surgalloy™	VP-871-X
CV-23 1/2 Circle 17.0 mm Double-arm 		CV-23	4-0	1.5	5 × 90	36	Blue	12	Surgalloy™, LONG PACK	VP-557MX
			3-0	2	90	36	Blue	36	Surgalloy™	VP-558X
			2-0	3	90	36	Blue	36		VP-559-X
CVF-23 1/2 Circle 17.0 mm Double-arm 		CVF-23	4-0	1.5	90	36	Blue	36	Surgalloy™	VPF-557-X
CV-24 1/2 Circle 20.0 mm Double-arm 		CV-24	4-0	1.5	90	36	Blue	36		VP-331X
CV-25 1/2 Circle 22.0 mm 		CV-25	4-0	1.5	75	30	Blue	36	Surgalloy™	VP-771-X
CV-25 1/2 Circle 22.0 mm Double-arm 		CV-25	4-0	1.5	90	36	Blue	36	Surgalloy™	VP-761-X
			4-0	1.5	5 × 90	36	Blue	12	Surgalloy™, LONG PACK	VP-761-MX
			3-0	2	75	30	Blue	36	Surgalloy™	VP-760-X
			3-0	2	90	36	Blue	36	Surgalloy™	VP-762-X





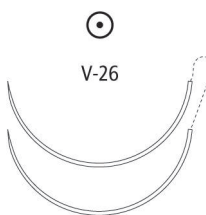
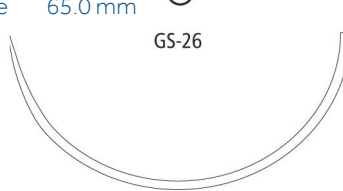
TAPER POINT									
V-20 1/2 Circle 26.0 mm		4-0	1.5	75	30	Blue	36	Surgalloy™	VP-831X
		3-0	2	75	30	Blue	36	Surgalloy™	VP-832X
		2-0	3	75	30	Blue	36	Surgalloy™	VP-833
		0	3.5	75	30	Blue	36	Surgalloy™	VP-834
V-20 1/2 Circle 26.0 mm Double-arm		5-0	1	75	30	Blue	36	Surgalloy™, NUPACK	VP-510X
		5-0	1	90	36	Blue	36	Surgalloy™	VP-520X
		4-0	1.5	75	30	Blue	36	Surgalloy™	VP-511-X
		4-0	1.5	90	36	Blue	36	4.8 mm × 9.5 mm SOFT	VP-621-X
		4-0	1.5	90	36	Blue	36	Surgalloy™	VP-521-X
		4-0	1.5	90	36	Blue	36	3 mm × 7 mm FIRM	VP-421X
		4-0	1.5	120	48	Blue	36	Surgalloy™	VP-541X
		3-0	2	90	36	Blue	36	Surgalloy™	VP-522-X
		3-0	2	90	36	Blue	36	3 mm × 7 mm FIRM	VP-422X
		3-0	2	120	48	Blue	36	Surgalloy™	VP-542-X
		2-0	3	90	36	Blue	36	Surgalloy™	VP-523
		2-0	3	120	48	Blue	36	Surgalloy™	VP-543



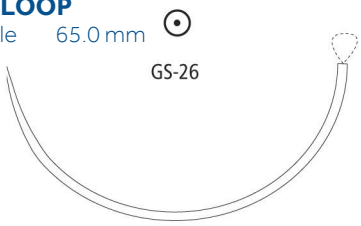
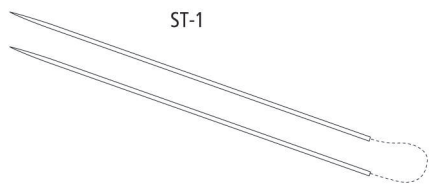
TAPER POINT										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
VF-20 1/2 Circle 26.0 mm		3-0 VF-20	2	45	18	Blue	36	Surgalloy™	VPF354X	
VF-20 1/2 Circle 26.0 mm Double-arm		4-0	1.5	90	36	Blue	36	Surgalloy™	VPF-521-X	
		3-0	2	90	36	Blue	36	Surgalloy™	VPF-522-X	
		3-0	2	135	54	Blue	36	Surgalloy™	VPF-354-X	
		2-0	3	120	48	Blue	36	Surgalloy™	VPF-543	
GS-22 1/2 Circle 27.0 mm		2-0	3	5 × 45	18	Blue	12	D-Tach™	CP-16-M	
		2-0	3	75	30	Blue	36		CP-411	
		0	3.5	5 × 45	18	Blue	12	D-Tach™	CP-17-M	
		0	3.5	75	30	Blue	36		CP-412	
V-30 1/2 Circle 30.0 mm		2-0	3	75	30	Blue	36		VP-945	
GS-21 1/2 Circle 37.0 mm		3-0	2	75	30	Blue	36		CP-422	
		2-0	3	75	30	Blue	36		CP-423	
		0	3.5	5 × 45	18	Blue	12	D-Tach™	CP-10-M	
		0	3.5	75	30	Blue	36		CP-424	
		1	4	75	30	Blue	36		CP-425	





TAPER POINT								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
V-26 1/2 Circle 37.0 mm Double-arm 	3-0	2	90	36	Blue	36		VP-842-X
	2-0	3	90	36	Blue	36		VP-843
	2-0	3	120	48	Blue	36		VP-853
GS-24 1/2 Circle 40.0 mm 	2-0	3	75	30	Blue	36		CP-433
	0	3.5	75	30	Blue	36		CP-434
	1	4	75	30	Blue	36		CP-435
	1	4	100	40	Blue	36		CP-535
GS-25 1/2 Circle 48.0 mm 	0	3.5	5 × 45	18	Blue	12	D-Tach™, LONG PACK	CP-30-M
	0	3.5	75	30	Blue	36		CP-454
	1	4	75	30	Blue	36		CP-455
GS-26 1/2 Circle 65.0 mm 	0	3.5	3 × 60	24	Blue	12		3CP-444
	1	4	150	60	Blue	24		CP-824
	2	5	150	60	Blue	24		CP-825



TAPER POINT								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
GS-26 LOOP 1/2 Circle 65.0 mm  GS-26	1	4	120	48	Blue	24	Loop	CP-824-L
	1	4	240	96	Blue	24	Loop	CP-834-L
ST-1 Straight Double-arm 51.0 mm  ST-1	2-0	3	90	36	Blue	36		GP-282

HEAVY TAPER POINT								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
HGS-23 1/2 Circle 22.0 mm  HGS-23	0	3.5	5 × 45	18	Blue	12	D-Tach™, LONG PACK	CP-92-M
HGS-22 1/2 Circle 27.0 mm  HGS-22	0	3.5	75	30	Blue	36		CP-414
	1	4	90	36	Blue	36		CP-415

PENETRATING TAPER								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
YV-95 3/8 Circle 9.5 mm  Double-arm YV-95	7-0	0.5	60	24	Blue	36	Cardiopoint™	VP-911-X

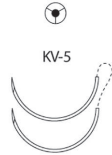
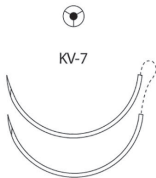




TAPERCUTTING										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
KV-1 3/8 Circle 9.0 mm Double-arm	 KV-1 	7-0	0.5	45	18	Blue	12	LONG PACK	VP-721-MX	
		7-0	0.5	60	24	Blue	36	Surgalloy™	VP-704-X	
		7-0	0.5	5 × 60	24	Blue	12	Surgalloy™, LONG PACK	VP-704-MX	
		6-0	0.7	60	24	Blue	36	Surgalloy™, NUPACK	VP-712-X	
		6-0	0.7	5 × 60	24	Blue	12	Surgalloy™, LONG PACK	VP-712-MX	
KVF-1 3/8 Circle 9.0 mm Double-arm	 KVF-1 	7-0	0.5	60	24	Blue	36	Surgalloy™, NUPACK	VPF-704-X	
		6-0	0.7	75	30	Blue	36	Surgalloy™, NUPACK	VPF-807-X	
KV-11 3/8 Circle 13.0 mm Double-arm	 KV-11 	6-0	0.7	60	24	Blue	36	Surgalloy™, NUPACK	VP-707-X	
		6-0	0.7	75	30	Blue	36	Surgalloy™, NUPACK	VP-728-X	
		6-0	0.7	5 × 75	30	Blue	12	Surgalloy™, LONG PACK	VP-728-MX	
		5-0	1	75	30	Blue	36	Surgalloy™, NUPACK	VP-708-X	
		5-0	1	90	36	Blue	36	Surgalloy™, NUPACK	VP-751-X	
KVF-11 3/8 Circle 13.0 mm Double-arm	 KVF-11 	6-0	0.7	75	30	Blue	36	Surgalloy™, NUPACK	VPF-728-X	



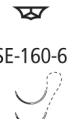


TAPERCUTTING										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
KV-15 3/8 Circle 17.0 mm		5-0	1	75	30	Blue	36	Surgalloy™, NUPACK	VP-941-X	
KV-15 3/8 Circle 17.0 mm Double-arm		5-0	1	75	30	Blue	36	Surgalloy™, NUPACK	VP-914-X	
		5-0	1	90	36	Blue	36	Surgalloy™	VP-924-X	
		4-0	1.5	75	30	Blue	36		VP-942-X	
		4-0	1.5	90	36	Blue	36	Surgalloy™	VP-925-X	
		3-0	2	90	36	Blue	36	Surgalloy™	VP-926-X	
KV-26 3/8 Circle 26.0 mm Double-arm		4-0	1.5	120	48	Blue	36	Surgalloy™	VP-965	
		3-0	1.5	120	48	Blue	36		VP-956	
KV-5 1/2 Circle 17.0 mm Double-arm		5-0	1	90	36	Blue	36	Surgalloy™, NUPACK	VP-934-X	
		4-0	1.5	90	36	Blue	36	Surgalloy™	VP-935-X	
		4-0	1.5	90	36	Blue	36	3 mm × 7 mm FIRM	VP-435-X	
		3-0	2	90	36	Blue	36	Surgalloy™	VP-936-X	
		2-0	3	90	36	Blue	36	Surgalloy™	VP-937	
KV-7 1/2 Circle 26.0 mm Double-arm		4-0	1.5	90	36	Blue	36	Surgalloy™	VP-975-X	
		3-0	2	90	36	Blue	36	Surgalloy™	VP-976-X	
		3-0	2	90	36	Blue	36	3 mm × 7 mm FIRM	VP-986-X	
		2-0	3	90	36	Blue	36	Surgalloy™	VP-977	
		0	3.5	90	36	Blue	36	Surgalloy™	VP-978	
KV-34 1/2 Circle 37.0 mm		0	3.5	75	30	Blue	36		CP-844	
		1	4	75	30	Blue	36		CP-845	





BLUNT POINT									
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code	
	USP	EP	cm	Inches					
BGS-21 1/2 Circle 37.0 mm  BGS-21	0	3.5	75	30	Blue	36	ProtectPoint™	CP-957	
BGS-25 1/2 Circle 48.0 mm  BGS-25	1	4	100	40	Blue	36	ProtectPoint™	CP-836	

SPATULA									
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code	
	USP	EP	cm	Inches					
SE-140-8 3/8 Circle 6.3 mm Double-arm  SE-140-8	10-0	0.2	30	12	Blue	12	Surgalloy™	P-2771K	
SE-160-6 1/2 Circle 5.5 mm Double-arm  SE-160-6	10-0	0.2	30	12	Blue	12	Surgalloy™	P-2756K	

TI-CRON™ / SURGIDAC™

Coated and Uncoated Braided and Monofilament Polyester

A brand you have trusted for over 35 years.



- Ti-Cron™ suture polyester strand is soft and supple
- Silicone (impregnated) coating designed for excellent handling and pliability²
- Uniform braiding process designed to provide resistance to breaking¹
- Excellent knot security²

Absorption

Ti-Cron™ and Surgidac™ polyester sutures are not absorbed, nor is any significant change in tensile strength retention known to occur in vivo.

Tensile Strength

Ti-Cron™ and Surgidac™ polyester sutures are not absorbed, nor is any significant change in tensile strength retention known to occur in vivo.

Indications

Indicated for use in general soft tissue approximation and/or ligation, including use in cardiovascular, ophthalmic and neurological surgery.

Description

Ti-Cron™ and Surgidac™ polyester sutures are non absorbable, sterile, surgical sutures composed of Polyethylene Terephthalate. They are prepared from fibers of high molecular weight, long-chain, linear polyesters having recurrent aromatic rings as an integral component. Ti-Cron™ braided sutures are available coated uniformly with silicone to increase surface lubricity, thereby enhancing handling characteristics, ease of passage through tissue, and knot run-down properties. Surgidac™ monofilament sutures are uncoated and the braided sutures are available uncoated or coated uniformly with polybutylene adipate to increase surface lubricity, thereby enhancing handling characteristics, ease of passage through tissue, and knot run-down properties.

Indications

Ti-Cron™ and Surgidac™ polyester sutures are indicated for use in general soft tissue approximation and/or ligation, including use in cardiovascular, ophthalmic and neurological surgery.

Actions

Ti-Cron™ and Surgidac™ polyester sutures elicit a minimal acute inflammatory reaction in tissues, followed by gradual encapsulation of the suture by fibrous connective tissue.

Tensile Strength

Ti-Cron™ and Surgidac™ polyester sutures are not absorbed, nor is any significant change in tensile strength retention known to occur in vivo.

Sterilization

Ti-Cron™ and Surgidac™ polyester sutures in sizes 6-0 or smaller or pledgeted sutures are sterilized by ethylene oxide. Sizes 5-0 or greater are sterilized by gamma irradiation.

Packaging

Ti-Cron™ polyester sutures are available undyed (white) or dyed with D&C Blue No. 6 and braided, coated, in sizes 5 (7 Metric), size 2 (5 metric), size 1 (4 metric), 0 size (3.5 metric) through 5-0 (1 Metric). SURGIDAC™ polyester sutures are available undyed (white), braided and uncoated in USP and EP sizes 5-0 (1 metric). The sutures are supplied sterile, in pre-cut lengths, affixed to various needle types using both permanent and removable needle attachment techniques. Ti-Cron™ polyester sutures are also available with PTFE (polytetrafluorethylene) pledgets for use as a pad between the suture area and the tissue surface to increase the load bearing area. Please refer to the individual package IFUs for complete instructions, indications, contraindications, warnings and precautions.

1. Individual standard deviations were used to calculate the intervals. Based on internal test report, Suture analysis Ti-Cron™ suture large sizes. September 2013.
2. Medtronic R&D Testing Services Report, Ti-Cron™ suture 2-0 knot security benchmark data. August 2015

Ti-Cron™ / Surgidac™

Ti-Cron™ / Surgidac™ is a suture brand you have trusted for over 35 years with a proven history for performance

PRE-CUT

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
	5-0	1	12×45	18	Blue	36	Pre-cut	88863008-21
	4-0	1.5	12×45	18	Blue	36	Pre-cut	88863008-31
	4-0	1.5	12×75	30	Blue	24	Pre-cut	88863003-32
	3-0	2	12×45	18	Blue	36	Pre-cut	88863008-41
	3-0	2	6×45	18	Blue	36	Pre-cut	88863001-41
	3-0	2	12×75	30	Blue	24	Pre-cut	88863003-42
	2-0	3	5×45	18	White	12	Pre-cut	88863011-51
	2-0	3	12×45	18	Blue	36	Pre-cut	88863008-51
	2-0	3	12×75	30	Blue	24	Pre-cut	88863003-52
	0	3.5	6×45	18	Blue	24	Pre-cut	88863001-62
	0	3.5	6×75	30	Blue	24	Pre-cut	88863002-62
	1	4	6×45	18	Blue	24	Pre-cut	88863001-72

REEL

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
	3-0	2	250	100	Blue	24	Reel	88863380-42
	2-0	3	250	100	Blue	24	Reel	88863380-52
	0	3.5	250	100	Blue	24	Reel	88863380-62
	1	4	250	100	Blue	24	Reel	88863380-72
	2	5	250	100	Blue	24	Reel	88863380-82
	4	6	150	60	Blue	24	Reel	88863381-09
	5	7	150	60	Blue	24	Reel	88863381-89



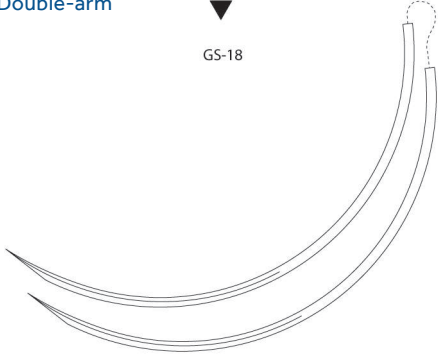
REVERSE CUTTING

Needles Specifications			Size		Length		Color	Units	Comments	Reorder code
			USP	EP	cm	Inches		Per box		
C-12 3/8 Circle 16.0 mm		C-12	5-0	1	45	18	Blue	36		88863045-21
			4-0	1.5	75	30	Blue	36		88863046-31
C-13 3/8 Circle 19.0 mm		C-13	4-0	1.5	45	18	Blue	36		88863047-31
			3-0	2	75	30	Blue	36		88863047-41
			3-0	2	45	18	Blue	36		88863055-41
			2-0	3	75	30	Blue	36		88863048-51
C-14 3/8 Circle 24.0 mm		C-14	3-0	2	45	18	Blue	36		88863069-41
			3-0	2	75	30	Blue	36		88863050-41
			2-0	3	75	30	Blue	36		88863050-51
			2-0	3	90	36	Blue	36		88863065-51
			0	3.5	75	30	Blue	36		88863050-61
			0	3.5	90	36	Blue	36		88863065-61
C-15 3/8 Circle 26.0 mm		C-15	2-0	3	75	30	Blue	36		88863070-51
C-16 3/8 Circle 30.0 mm		C-16	2-0	3	75	30	Blue	36		88863023-51
			0	3.5	75	30	Blue	36		88863023-61
			0	3.5	90	36	Blue	36		88863012-61
			1	4	75	30	Blue	36		88863023-71





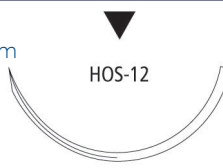
REVERSE CUTTING

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
C-17 3/8 Circle 39.0 mm 	2-0	3	75	30	Blue	36		88863054-51
	0	3.5	75	30	Blue	36		88863054-61
	1	4	75	30	Blue	36		88863054-71
	2	5	75	30	Blue	36		88863054-81
GS-18 3/8 Circle 77.0 mm 	5	7	45	18	Blue	12		88863056-89
GS-18 3/8 Circle 77.0 mm Double-arm 	5	7	75	30	Blue	24		88863128-79
	2	5	75	30	Blue	24		88863128-82
	2	5	75	30	Green	24		CD-496
HOS-10 1/2 Circle 26.0 mm 	2-0	3	75	30	Blue	36		88863395-51
	0	3.5	75	30	Blue	36		88863395-61
	1	4	75	30	Blue	36		88863395-71
	2	5	75	30	Blue	36		88863395-81
GS-11 1/2 Circle 37.0 mm 	2-0	3	75	30	Blue	36		88863309-51
	0	3.5	75	30	Blue	36		88863309-61
	1	4	75	30	Blue	36		88863309-71
	4	6	75	30	Blue	36		88863154-09
HOS-11 1/2 Circle 37.0 mm 	1	4	75	30	Blue	36		88863028-71
	2	5	75	30	Blue	36		88863028-81

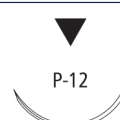




REVERSE CUTTING

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
GS-12 1/2 Circle 40.0 mm 	2	5	75	30	Blue	36		88863155-81
HOS-12 1/2 Circle 40.0 mm 	1	4	75	30	Blue	36		88863026-71
	2	5	75	30	Blue	36		88863026-81
HOS-14 1/2 Circle 55.0 mm 	5	7	75	30	Blue	36		88863027-79

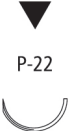
PREMIUM REVERSE CUTTING

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
P-13 3/8 Circle 13.0 mm 	5-0	1	45	18	Blue	12	Surgalloy™	SCD-3058G
	5-0	1	45	18	White	12	Surgalloy™	SCD-2864G
	4-0	1.5	45	18	Blue	12	Surgalloy™	SCD-3059G
	4-0	1.5	45	18	White	12	Surgalloy™	88862862-34
P-12 3/8 Circle 19.0 mm 	4-0	1.5	45	18	Blue	12	Surgalloy™	SCD-3049G

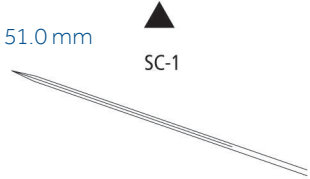
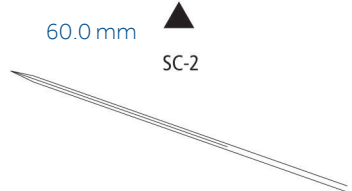
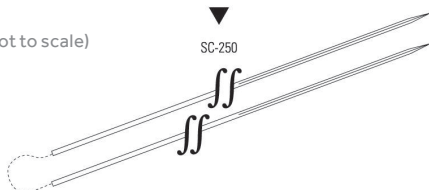




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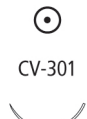
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
P-21 1/2 Circle 9.0 mm 	4-0	1.5	45	18	White	12		88862854-33
P-22 1/2 Circle 13.0 mm 	3-0	2	45	18	Blue	12	Surgalloy™	88863109-43
P-24 1/2 Circle 16.0 mm 	2-0	3	45	18	Blue	12	Surgalloy™	88863059-53

CONVENTIONAL CUTTING

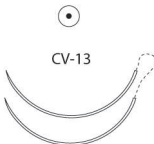
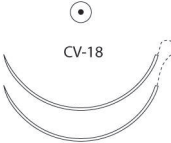
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
SCC 1/2 Circle 48.0 mm 	5	7	5×75	30	Blue	6		88863127-79
SC-1 Straight 51.0 mm 	2-0	3	75	30	Blue	36		88863163-51
	0	3.5	75	30	Blue	36		88863163-61
	1	4	75	30	Blue	36		88863163-71
SC-2 Straight 60.0 mm 	3-0	2	75	30	Blue	36		88863062-41
	2-0	3	75	30	Blue	36		88863062-51
	2-0	3	90	36	Blue	36		88863165-51
	0	3.5	75	30	Blue	36		88863062-61
SC-250 Straight 254.0 mm (Not to scale) 	2-0	3	75	30	Blue	12		88862947-53





TAPER POINT										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
CV-310 3/8 Circle 10.0 mm Double-arm			7-0	0.5	45	18	Blue	36	Cardiopoint™	88863288-01
CV-301 3/8 Circle 13.0 mm			4-0	1.5	75	30	Blue	36	Cardiopoint™	88863106-31
CV-301 3/8 Circle 13.0 mm Double-arm			6-0	0.7	75	30	Blue	36	Cardiopoint™	88863280-11
			5-0	1	75	30	Blue	36	3mm x 3mm FIRM, Cardiopoint™	88863314-21
			5-0	1	75	30	Blue	36	Cardiopoint™	88863280-21
			5-0	1	75	30	White	36	Cardiopoint™	88862801-21
			4-0	1.5	75	30	Blue	36	3 mm x 3 mm Firm, Cardiopoint™	88863314-31
			4-0	1.5	75	30	Blue	36	Cardiopoint™	88863280-31
			3-0	2	75	30	Blue	36	Cardiopoint™	88863280-41



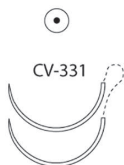
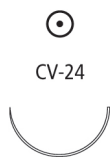
TAPER POINT										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
CV-15 3/8 Circle 17.0 mm Double-arm		2-0	3	90	36	White	6	Surgalloy™	88862636-56	
CV-327 3/8 Circle 18.0 mm Double-arm		5-0	1	75	30	Blue	36	Cardiopoint™	88862775-21	
		4-0	1.5	75	30	Blue	36	Cardiopoint™	88862775-31	
		3-0	2	75	30	Blue	36	Cardiopoint™	88862775-41	
CV-13 3/8 Circle 22.0 mm Double-arm		3-0	2	90	36	Blue	36	Surgalloy™	88862627-41	
CV-18 3/8 Circle 26.0 mm Double-arm		2-0	3	10×90	36	5 Blue and 5 White	6		88863230-56	





TAPER POINT									
Needles Specifications		Size		Length		Color	Units Per box	Comments	Reorder code
		USP	EP	cm	Inches				
CV-337 1/2 Circle 10.0 mm Double-arm		5-0	1	75	30	Blue	36	Cardiopoint™	88863298-21
		5-0	1	90	36	Blue	36	Pledgets 3 mm × 3 mm FIRM, Cardiopoint™	88863297-21
		5-0	1	90	36	Blue	36	Cardiopoint™	88863139-21
CV-330 1/2 Circle 13.0 mm Double-arm		5-0	1	60	24	Blue	36	Cardiopoint™	88863226-21
		4-0	1.5	60	24	Blue	36	Cardiopoint™	88863226-31
		4-0	1.5	90	36	Blue	36	Cardiopoint™	88863249-31
		3-0	2	45	18	Blue	36	Pledgets 3 mm × 3 mm FIRM, Cardiopoint™	88863295-41
		3-0	2	60	24	Blue	36	Cardiopoint™	88863226-41

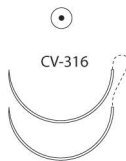


TAPER POINT											
Needles Specifications				Size		Length		Color	Units	Comments	Reorder code
				USP	EP	cm	Inches				
CV-331 1/2 Circle 16.0 mm		5-0	1	75	30	Blue	36	Cardiopoint™	88863186-21		
		4-0	1.5	75	30	Blue	36	Cardiopoint™	88863186-31		
		3-0	2	75	30	Blue	36	Cardiopoint™	88863186-41		
		2-0	3	75	30	Blue	36	Cardiopoint™	88863186-51		
CV-331 1/2 Circle 16.0 mm Double-arm		5-0	1	90	36	Blue	36	Cardiopoint™	88863271-21		
		4-0	1.5	75	30	Blue	36	Cardiopoint™	88863087-31		
		4-0	1.5	90	36	Blue	36	Cardiopoint™	88863271-31		
		3-0	2	10×75	30	Blue	6	Cardiopoint™	88863084-46		
		3-0	2	75	30	Blue	36	Cardiopoint™	88863087-41		
		3-0	2	90	36	Blue	36	Cardiopoint™	88863271-41		
		2-0	3	8×75	30	4 Blue and 4 White	6	3 mm × 3 mm FIRM, Cardiopoint™	88863086-56		
		2-0	3	8×75	30	4 Blue and 4 White	6	Cardiopoint™	88863083-56		
		2-0	3	10×75	30	Blue	6	Cardiopoint™	88863084-56		
		2-0	3	8×75	30	4 Blue and 4 White	6	Pledgets 3 mm × 7 mm FIRM, Cardiopoint™	88863091-56		
		2-0	3	75	30	Blue	36	Cardiopoint™	88863087-51		
		2-0	3	90	36	5 Blue and 5 White	6	Pledgets 3 mm × 3 mm FIRM, Cardiopoint™	88863273-56		
		2-0	3	10×90	36	5 Blue and 5 White	6	Pledgets 3mm × 7 mm FIRM, Cardiopoint™	88863269-56		
CV-24 1/2 Circle 20.0 mm		3-0	2	5×45	18	Blue	24	D-Tach™	88863267-42		



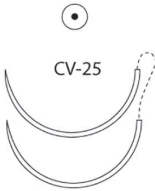


TAPER POINT

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
CV-316 1/2 Circle 20.0 mm Double-arm 	4-0	1.5	75	30	Blue	36	Pledgets 3 mm × 7 mm FIRM, Cardioint™	88863348-31
	4-0	1.5	90	36	Blue	36	Cardioint™	88863369-31
	3-0	2	75	30	Blue	36	Cardioint™	88863227-41
	3-0	2	90	36	Blue	36	Cardioint™	88863369-41
	2-0	3	10×75	30	5 Blue and 5 White	6	Cardioint™	88863385-56
	2-0	3	75	30	Blue	36	Cardioint™	88863227-51
	2-0	3	75	30	Blue	36	3 mm × 7 mm FIRM, Cardioint™	88863348-51
	2-0	3	10×75	30	5 Blue and 5 White	6	3 mm × 7 mm FIRM, Cardioint™	88863323-56
	2-0	3	75	30	White	36	3 mm × 7 mm FIRM, Cardioint™	88862978-51
	2-0	3	10×75	30	5 Blue and 5 White	6	Pledgets 3 mm × 3 mm FIRM, Cardioint™	88863277-56
	2-0	3	8×75	30	4 Blue and 4 White	6	Pledgets 3 mm × 7 mm SOFT, Cardioint™	VCD-375
	2-0	3	10×75	30	Blue	6	Cardioint™	88863344-56
	2-0	3	90	36	White	36	Cardioint™	88862839-51
	2-0	3	90	36	Blue	36	Cardioint™	88863369-51



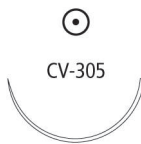
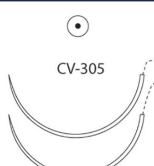


TAPER POINT										
Needles Specifications			Size		Length		Color	Units	Comments	Reorder code
			USP	EP	cm	Inches				
GS-23 1/2 Circle 22.0 mm		GS-23	0	3.5	5×45	18	Blue	24	D-Tach™	88863257-62
CV-25 1/2 Circle 22.0 mm Double-arm		CV-25	3-0	2	90	36	Blue	36		88863370-41
			2-0	3	90	36	Blue	36	Surgalloy™	88863370-51





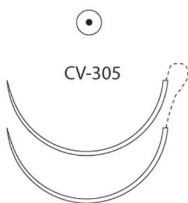
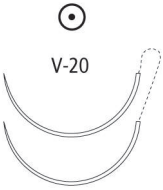
TAPER POINT

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
CV-305 1/2 Circle 25.0 mm 	4-0	1.5	75	30	Blue	36	Cardioint™	88863185-31
	3-0	2	75	30	Blue	36	Cardioint™	88863185-41
	2-0	3	10×75	30	5 Blue and 5 White	6	Cardioint™	88863353-56
	2-0	3	5×75	30	Blue	24	Cardioint™	88863033-52
	0	3.5	75	30	Blue	36	Cardioint™	88863185-61
	1	4	75	30	Blue	36	Cardioint™	88863185-71
CV-305 1/2 Circle 25.0 mm Double-arm 	4-0	1.5	90	36	Blue	36	Cardioint™	88863256-31
	3-0	2	90	36	Blue	36	Pledgets 3 mm × 7 mm FIRM, Cardioint™	88863336-41
	3-0	2	90	36	Blue	36	Cardioint™	88863256-41
	3-0	2	105	42	Blue	36	Cardioint™	88863035-41
	2-0	3	10×75	30	5 Blue and 5 White	6	3 mm × 7 mm FIRM, Cardioint™	88863324-56
	2-0	3	8×75	30	4 Blue AND 4 White	6	Pledgets 3 mm × 7 mm SOFT, Cardioint™	VCD-346
	2-0	3	75	30	Blue and White	6		VCD-2030556MSE
	2-0	3	75	30	Blue and White	6		VCD-2030556MFE
	2-0	3	10×75	30	5 Blue and 5 White	6	Cardioint™	88863356-56
	2-0	3	75	30	Blue	36	Cardioint™	88863185-51
	2-0	3	5×75	30	Blue	6	Cardioint™	88863040-56
	2-0	3	10×75	30	5 Blue and 5 White	6	Pledgets 4 mm × 8 mm FIRM, Cardioint™	88863037-56
	2-0	3	90	36	Blue	36	3 mm × 7 mm FIRM, Cardioint™	88863336-51
	2-0	3	90	36	Blue	36	Cardioint™	88863256-51
	2-0	3	10×90	36	5 Blue and 5 White	6	Cardioint™	88862981-56
	2-0	3	90	36	White	36	Cardioint™	88862914-51
	2-0	3	90	36	White	36	3 mm × 7 mm FIRM, Cardioint™	88862953-51



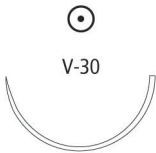
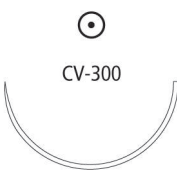
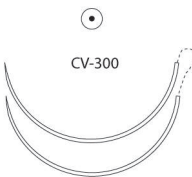
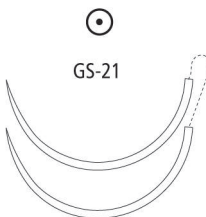


TAPER POINT

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
CV-305 1/2 Circle 25.0 mm Double-arm 	2-0	3	8×90	36	4 Blue and 4 White	6	Pledgets 3 mm × 3 mm FIRM, Cardioint™	88863307-56
	2-0	3	6×90	36	3 Blue and 3 White	6	Pledgets 3 mm × 7 mm FIRM, Cardioint™	88863306-56
	2-0	3	10×90	36	Blue	6	Cardioint™	88863220-56
	2-0	3	105	42	Blue	36	Cardioint™	88863035-51
	0	3.5	90	36	Blue	36	Cardioint™	88863256-61
	0	3.5	90	36	White	36	Cardioint™	88862914-61
V-20 1/2 Circle 26.0 mm 	4-0	1.5	5×45	18	Blue	24	D-Tach™	88863258-32
	3-0	2	5×45	18	Blue	24	D-Tach™	88863258-42
	2-0	3	5×45	18	Blue	24	D-Tach™	88863258-52
	2-0	3	120	48	Blue	36	Endoscopy	88863129-51
	0	3.5	120	48	Blue	36	Endoscopy	88863015-61
V-20 1/2 Circle 26.0 mm Double-arm 	2-0	3	90	36	Blue	36	Surgalloy™	88863251-51
GS-22 1/2 Circle 27.0 mm 	2-0	3	75	30	Blue	36		88863093-51
	0	3.5	5×45	18	Blue	24	D-Tach™	88863259-62
	0	3.5	75	30	Blue	36		88863093-61

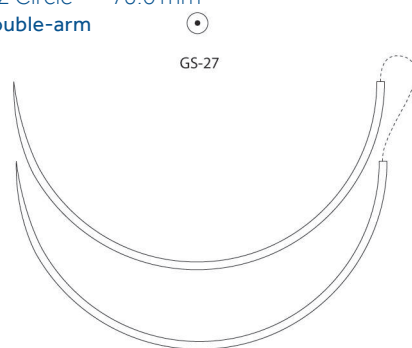
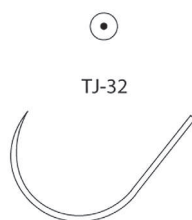




TAPER POINT										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
V-30 1/2 Circle 30.0 mm		3-0	2	75	30	Blue	36		88863205-41	
		2-0	3	75	30	Blue	36		88863205-51	
		0	3.5	75	30	Blue	36		88863205-61	
CV-300 1/2 Circle 35.0 mm		0	3.5	75	30	Blue	36	Cardiopoint™	88863082-61	
		2-0	3	75	30	Blue	36	Cardiopoint™	88863082-51	
CV-300 1/2 Circle 35.0 mm Double-arm		2-0	3	75	30	Blue	36	Cardiopoint™	88863274-51	
		2-0	3	90	36	Blue	36	Cardiopoint™	88863393-51	
		0	3.5	75	30	Blue	36	Cardiopoint™	88863274-61	
		0	3.5	90	36	Blue	36	Cardiopoint™	88863393-61	
GS-21 1/2 Circle 37.0 mm		2-0	3	5×45	18	Blue	24	D-Tach™	88863260-52	
		2-0	3	75	30	Blue	36		88863090-51	
		0	3.5	45	18	Blue	24	D-Tach™	88863260-62	
		0	3.5	75	30	Blue	36		88863090-61	
		1	4	5×45	18	Blue	24	D-Tach™	88863260-72	
		1	4	75	30	Blue	36		88863090-71	
		2	5	75	30	Blue	36		88863090-81	
GS-21 1/2 Circle 37.0 mm Double-arm		2	5	90	36	Blue	36		88863146-81	





TAPER POINT									
Needles Specifications		Size		Length		Color	Units	Comments	Reorder code
		USP	EP	cm	Inches				
GS-25 1/2 Circle 48.0 mm 	0	3.5	5×45	18	Blue	24	D-Tach™	88863261-62	
	0	3.5	75	30	Blue	36		88863097-61	
	1	4	5×45	18	Blue	24	D-Tach™	88863261-72	
	1	4	75	30	Blue	36		88863097-71	
	2	5	5×45	18	Blue	24	D-Tach™	88863261-82	
GS-27 1/2 Circle 76.0 mm Double-arm 	0	3.5	75	30	Blue	36		88863190-61	
GU-46 5/8 Circle 27.0 mm 	2-0	3	75	30	Blue	36		88862768-51	
SK SKI 23.0 mm 	2-0	3	120	48	Blue	36		88863017-51	
	0	3.5	120	48	Blue	36		88863017-61	
TJ-32 1/2 Circle 32.0 mm 	1	4	75	30	Blue	36		88863103-71	





HEAVY TAPER POINT										
Needles Specifications			Size		Length		Color	Units	Comments	Reorder code
			USP	EP	cm	Inches		Per box		
HGS-23 1/2 Circle 22.0 mm		HGS-23	2-0	3	5×45	18	Blue	24	D-Tach™	88863374-52
			0	3.5	5×45	18	Blue	24	D-Tach™	88863374-62
			1	4	75	30	Blue	36		88863375-71
HGU-46 5/8 Circle 27.0 mm		HGU-46	0	3.5	5×45	18	Blue	24	D-Tach™	88863386-62
HGS-22 1/2 Circle 27.0 mm		HGS-22	2-0	3	5×45	18	Blue	24	D-Tach™	88863379-52
			1	4	5×45	18	Blue	24	D-Tach™	88863372-72
			2	5	5×45	18	Blue	24		88863372-82
HGS-21 1/2 Circle 37.0 mm		HGS-21	1	4	75	30	Blue	36		88863113-71
			2	5	75	30	Blue	36		88863113-81
			5	7	75	30	Blue	36		88863111-79

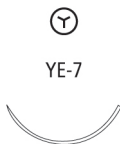




HEAVY TAPER POINT

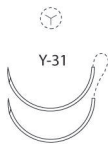
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
HGS-24 1/2 Circle 40.0 mm  HGS-24	2	5	75	30	Blue	36		88863376-81

PENETRATING TAPER

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
YE-7 3/8 Circle 18.0 mm  YE-7	4-0	1.5	75	30	Blue	36	Cardioint™	88863107-31
YE-7 3/8 Circle 18.0 mm Double-arm  YE-7	4-0	1.5	75	30	Blue	36	Cardioint™	88863182-31
	3-0	2	10×75	30	Blue	6	Cardioint™	VCD-320
	3-0	2	75	30	Blue	36	Cardioint™	88863182-41
	2-0	3	10×75	30	5 Blue and 5 White	6	Pledgets 3 mm × 7 mm FIRM, Cardioint™	88863365-56
	2-0	3	75	30	Blue	36	Pledgets 3 mm × 7 mm FIRM, Cardioint™	88863233-51
	2-0	3	10×75	30	5 Blue and 5 White	6	Cardioint™	88863211-56
	2-0	3	75	30	Blue	36	Cardioint™	88863182-51
	2-0	3	5×90	36	5 Blue and 5 White	6	Cardioint™	88863052-56
	2-0	3	90	36	5 Blue and 5 White	6	Pledgets 3 mm × 7 mm FIRM, Cardioint™	88862658-56
	2-0	3	90	36	Blue	36	Cardioint™	88862631-51

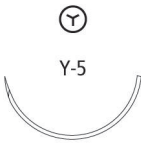
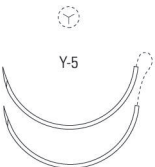




PENETRATING TAPER								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
Y-31 1/2 Circle 16.0 mm Double-arm 	4-0	1.5	8×75	30	4 Blue and 4 White	6	Pledgets 3 mm × 3 mm FIRM, Cardiopoint™	88863218-36
	4-0	1.5	90	36	Blue	36	Cardiopoint™	88863160-31
	3-0	2	75	30	White	36	Cardiopoint™	88862880-41
	3-0	2	90	36	Blue	36	Cardiopoint™	88863160-41
	2-0	3	10×75	30	5 Blue and 5 White	6	3 mm v 7 mm FIRM, Cardiopointv	88863221-56
	2-0	3	8×75	30	4 Blue and 4 White	6	3 mm × 7 mm FIRM, Cardiopointv	88863219-56
	2-0	3	8×75	30	4 Blue and 4 White	6	3 mm × 3 mm FIRM, Cardiopointv	88863218-56
	2-0	3	4×75	30	2 Blue and 2 White	6	Pledgets 3 mm v 5 mm FIRM, Cardiopointv	VCD-110
	2-0	3	75	30	Blue	36	Cardiopoint™	88863125-51
	2-0	3	75	30	White	36	Cardiopointv	88862880-51
	2-0	3	10×75	30	5 Blue and 5 White	6	Cardiopointv	88862877-56
	2-0	3	8×75	30	4 Blue and 4 White	6	Pledgets 3 mm × 7 mm SOFT, Cardiopoint™	VCD-656
	2-0	3	90	36	White	36	3 mm × 3 mm FIRM, Cardiopointv	88862811-51
	2-0	3	90	36	White	36	3 mm × 7 mm FIRM, Cardiopoint™	88862808-51
	2-0	3	90	36	Blue	36	3 mm × 3 mm FIRM, Cardiopoint™	88863191-51
	2-0	3	10×90	36	5 Blue and 5 White	6	Pledgets 3 mm × 3 mm FIRM, Cardiopoint™	88863255-56
	2-0	3	90	36	Blue	36	Pledgets 3 mm × 7 mm FIRM, Cardiopoint™	88863204-51
	2-0	3	90	36	Blue	36	Cardiopoint™	88863160-51
	2-0	3	10×90	36	5 Blue and 5 White	6	Cardiopoint™	88862851-56
Y-16 1/2 Circle 20.0 mm Double-arm 	2-0	3	6×75	30	3 Blue and 3 White	6	Pledgets 3 mm × 7 mm FIRM, Cardiopoint™	88863303-56
	2-0	3	10×75	30	5 Blue and 5 White	6	Cardiopoint™	88863241-56
	2-0	3	90	36	Blue	36	Cardiopoint™	88863157-51



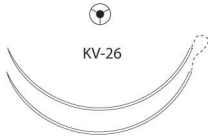
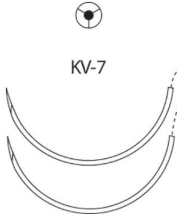


PENETRATING TAPER									
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code	
	USP	EP	cm	Inches					
Y-5 1/2 Circle 26.0 mm 	3-0	2	75	30	Blue	36	Cardiopoint™	88863088-41	
	2-0	3	75	30	Blue	36	Cardiopoint™	88863088-51	
Y-5 1/2 Circle 26.0 mm Double-arm 	4-0	1.5	90	36	Blue	36	Cardiopoint™	88863167-31	
	3-0	2	75	30	Blue	36	Cardiopoint™	88863088-41	
	3-0	2	90	36	Blue	36	Cardiopoint™	88863167-41	
	2-0	3	8×75	30	4 Blue and 4 White	6	3 mm × 7 mm SOFT, Cardiopoint™	VCD-256	
	2-0	3	10×75	30	5 Blue and 5 White	6	Cardiopoint™	88863222-56	
	2-0	3	8×75	30	4 Blue and 4 White	6	Pledgets 3 mm × 7 mm FIRM, Cardiopoint™	88863213-56	
	2-0	3	8×75	30	4 Blue and 4 White	6	Pledgets 3 mm × 3 mm FIRM, Cardiopoint™	88863203-56	
	2-0	3	75	30	Blue	36	Cardiopoint™	88863202-51	
	2-0	3	75	30	Blue	36	Cardiopoint™	88863088-51	
	2-0	3	75	30	White	36	Cardiopoint™	88862855-51	
	2-0	3	10×90	36	5 Blue and 5 White	6	Pledgets 3 mm × 7 mm FIRM, Cardiopoint™	88863290-56	
	2-0	3	90	36	Blue	36	Pledgets 3 mm × 7 mm FIRM, Cardiopoint™	88863212-51	
	2-0	3	90	36	Blue	36	Cardiopoint™	88863167-51	
	2-0	3	90	36	White	36	Cardiopoint™	88862815-51	
	2-0	3	10×90	36	5 Blue and 5 White	6	Cardiopoint™	88862852-56	
	2-0	3	90	36	White	36	Pledgets 3 mm × 7 mm FIRM, Cardiopoint™	88862840-51	
	0	3.5	8×75	30	4 Blue and 4 White	6	Pledgets 3 mm × 7 mm FIRM, Cardiopoint™	88863213-66	
	0	3.5	75	30	Blue	36	Cardiopoint™	88863202-61	
	0	3.5	90	36	Blue	36	Cardiopoint™	88863167-61	





TAPERCUTTING

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
KV-15 3/8 Circle 17.0 mm Double-arm 	2-0	3	4 × 75	30	Blue	6	Surgalloy™	88863131-56
KV-26 3/8 Circle 26.0 mm Double-arm 	2-0	3	10 × 90	36	5 Blue and 5 White	6	Pledgets 3 mm × 7 mm FIRM	88863275-56
KV-5 1/2 Circle 17.0 mm Double-arm 	4-0	1.5	90	36	Blue	36	Surgalloy™	88863159-31
	3-0	2	90	36	Blue	36	Surgalloy™	88863159-41
	2-0	3	8 × 75	30	4 Blue and 4 White	6	Pledgets 3 mm × 3 mm FIRM Pledgets	88863236-56
	2-0	3	8 × 75	30	4 Blue and 4 White	6	Pledgets 3 mm × 7 mm FIRM	88863235-56
	2-0	3	10 × 75	30	5 Blue and 5 White	6	Surgalloy™	88862879-56
	2-0	3	90	36	Blue	36	Surgalloy™	88863159-51
	2-0	3	90	36	Blue	36	Pledgets 3 mm × 3 mm FIRM	88863193-51
KV-7 1/2 Circle 26.0 mm Double-arm 	2-0	3	75	30	Blue	36	Surgalloy™	88863319-51
	2-0	3	8 × 75	30	4 Blue and 4 White	6	Pledgets 3 mm × 7 mm FIRM	88863240-56
	2-0	3	10 × 75	30	5 Blue and 5 White	6	Pledgets 3 mm × 7 mm FIRM	88863228-56
	2-0	3	90	36	Blue	36	Pledgets 3 mm × 7 mm FIRM	88863239-51
	2-0	3	90	36	Blue	36	Surgalloy™	88863168-51
KV-34 1/2 Circle 37.0 mm 	0	3.5	75	30	Blue	36		88863119-61





TAPERCUTTING								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
KV-37 1/2 Circle 40.0 mm 	0	3.5	75	30	Blue	36		88863092-61
	1	4	75	30	Blue	36		88863092-71
	2	5	5×75	30	Blue	12		88863147-83
	5	7	5×75	30	Blue	12		88863147-89
KV-40 1/2 Circle 48.0 mm 	5	7	4×75	30	Blue	12		88862818-89



STRAIGHT

Needles Specifications			Size		Length		Color	Units	Comments	Reorder code
			USP	EP	cm	Inches				
SS-24 1/4 Circle 8.6 mm Double-arm		6-0	0.7	45	18	White	12	Surgalloy™	CD-3113K	
		5-0	1	45	18	White	12	Surgalloy™	CD-3123K	
		5-0	1	45	18	White	12	Surgalloy™	D-1764K	
		4-0	1.5	45	18	White	12	Surgalloy™	D-1763K	
SS-14 1/4 Circle 8.6 mm Double-arm		6-0	0.7	45	18	White	12	Surgalloy™	D-1722K	
		5-0	1	45	18	White	12	Surgalloy™	D-1760K	
SS-28 3/8 Circle 7.4 mm Double-arm		6-0	0.7	45	18	White	12	Surgalloy™	D-1683K	
SS-2 1/2 Circle 8.6 mm Double-arm		5-0	1	45	18	White	12	Surgalloy™	CD-0423K	
		5-0	1	45	18	White	12	Surgalloy™	D-1780K	
		4-0	1.5	45	18	White	12	Surgalloy™	D-1779K	

VASCUFIL™

Coated Monofilament Polybutester

Innovation in Cardiovascular Surgery.



Vascufil™ suture provides a 20% greater luminal opening than polypropylene sutures.¹

Important wherever restricted blood flow is a concern.



Vascufil™ suture is elastic, soft and supple, with less memory compared to polypropylene suture.²

Ideal when ease of use, excellent knot security and tighter, smaller knots are priorities.

Tensile Strength

Vascufil™ sutures are not absorbed, nor is any significant change in strength retention known to occur in vivo. Excretion of the absorbable coating is essentially complete within thirty days.

Packaging

Available dyed with Copper Phthalocyanine Blue in U.S.P. sizes 2–0 (3 Metric) through 7–0 (0.5 Metric). The sutures are supplied sterile, in pre-cut lengths affixed to various needle types, using permanent needle attachment techniques. Please refer to the individual package IFUs for complete instructions, indications, contraindications, warnings and precautions.

Indications

Indicated for use in general soft tissue approximation and/or ligation, including use in cardiovascular and ophthalmic surgery, but not in microsurgery and neural tissue.



Description

Vascufil™ monofilament polybutester sutures are nonabsorbable, sterile, surgical sutures composed of a copolymer of butylene terephthalate and polytetramethylene ether glycol. The suture is coated with Polytribolate™, an absorbable polymer of e-caprolactone / glycolide / poloxamer 188.

Indications

Vascufil™ polybutester sutures are indicated for use in general soft tissue approximation and/or ligation, including use in cardiovascular and ophthalmic surgery, but not in microsurgery and neural tissue.

Actions

Vascufil™ sutures elicit a minimal acute inflammatory reaction in tissues, which is followed by gradual encapsulation of the suture by fibrous connective tissue.

Tensile Strength

Vascufil™ sutures are not absorbed, nor is any significant change in strength retention known to occur in vivo. Excretion of the absorbable coating is essentially complete within thirty days.

Sterilization

Gamma irradiation.

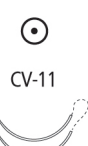
Packaging

Vascufil™ monofilament sutures are available dyed with Copper Phthalocyanine Blue in U.S.P. sizes 2-0 (3 Metric) through 7-0 (0.5 Metric). The sutures are supplied sterile, in pre-cut lengths affixed to various needle types, using permanent needle attachment techniques. Please refer to the individual package IFUs for complete instructions, indications, contraindications, warnings and precautions.

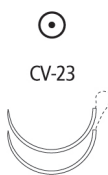
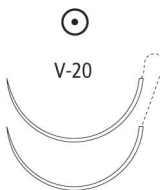
Please refer to the individual package IFUs for complete instructions, indications, contraindications, warnings and precautions.

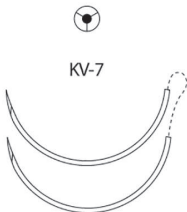
1. Baumgartner, Norbert, et al. Influence of suture technique and suture material selection on the mechanics of end-to-end and end-to-side anastomoses. J Thorac Cardiovasc Surg 1996; 111: 1063-72.
2. Rodeheaver, G., Ph. D., et al. An Innovative Absorbable Coating for the Polybutester Suture. 2005. Pg 6-11.



TAPER POINT									
Needles Specifications		Size		Length		Color	Units Per box	Comments	Reorder code
		USP	EP	cm	Inches				
MV-175-8 3/8 Circle 8.0 mm Double-arm		5-0	1	75	30	Blue	36	Surgalloy™	88864741-21V
		7-0	0.5	4×60	24	Blue	12	Surgalloy™	88864788-05V
		7-0	0.7	2×60	24	Blue	12	Surgalloy™	88864795-06V
CV-1 3/8 Circle 9.0 mm Double-arm		7-0	0.5	45	18	Blue	36	Surgalloy™	88864703-01V
		7-0	0.5	60	24	Blue	36	Surgalloy™	88864705-01V
		7-0	0.5	4×60	24	Blue	12	Surgalloy™	88864702-05V
		7-0	0.5	75	30	Blue	36	Surgalloy™	88864704-01V
		7-0	0.5	4×75	30	Blue	12	Surgalloy™	88864701-05V
		6-0	0.7	45	18	Blue	36	Surgalloy™	88864703-11V
		6-0	0.7	60	24	Blue	36	Surgalloy™	88864705-11V
		6-0	0.7	75	30	Blue	36	Surgalloy™	88864704-11V
CV 3/8 Circle 11.0 mm Double-arm		6-0	0.7	75	30	Blue	36	Surgalloy™	88864756-11V
CV-11 3/8 Circle 13.0 mm		5-0	1	75	30	Blue	36	Surgalloy™	88864722-21V
CV-11 3/8 Circle 13.0 mm Double-arm		6-0	0.7	45	18	Blue	36	Surgalloy™	88864707-11V
		6-0	0.7	60	24	Blue	36	Surgalloy™	88864709-11V
		6-0	0.7	75	30	Blue	36	Surgalloy™	88864710-11V
		5-0	1	60	24	Blue	36	Surgalloy™	88864709-21V
		5-0	1	75	30	Blue	36	Surgalloy™	88864710-21V
		5-0	1	90	36	Blue	36	Surgalloy™	88864711-21V
CV-15 3/8 Circle 17.0 mm		5-0	1	75	30	Blue	36	Surgalloy™	88864739-21V
		4-0	1.5	75	30	Blue	36	Surgalloy™	88864739-31V
CV-15 3/8 Circle 17.0 mm Double-arm		5-0	1	90	36	Blue	36	Surgalloy™	88864716-21V
		4-0	1.5	90	36	Blue	36	Surgalloy™	88864716-31V



TAPER POINT									
Needles Specifications		Size		Length		Color	Units Per box	Comments	Reorder code
		USP	EP	cm	Inches				
CV-22 1/2 Circle 13.0 mm Double-arm		6-0	0.7	4×75	30	Blue	12	Surgalloy™	88864742-15V
		6-0	0.7	75	30	Blue	36	Surgalloy™	88864741-11V
		7-0	0.5	4×60	24	Blue	36	Surgalloy™	88864794-01V
CV-23 1/2 Circle 17.0 mm Double-arm		5-0	1	90	36	Blue	36	Surgalloy™	88864719-21V
		4-0	1.5	90	36	Blue	36	Surgalloy™	88864719-31V
V-20 1/2 Circle 26.0 mm Double-arm		2-0	3	90	36	Blue	36	Surgalloy™	88864750-51V
		3-0	2	90	36	Blue	36	Surgalloy™	88864750-41V
		4-0	1.5	90	36	Blue	36	Surgalloy™	88864750-31V

TAPERCUTTING										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
KV-7 1/2 Circle 26.0 mm		2-0	3	90	36	Blue	36	Surgalloy™	88864730-51V	
KV-7 1/2 Circle 26.0 mm Double-arm		4-0	1.5	90	36	Blue	36	Surgalloy™	88864731-31V	
		3-0	2	90	36	Blue	36	Surgalloy™	88864731-41V	
		2-0	3	90	36	Blue	36	Surgalloy™	88864731-51V	
KV-11 3/8 Circle 13.0 mm Double-arm		6-0	0.7	75	30	Blue	36	Surgalloy™	88864734-11V	
		5-0	1	75	30	Blue	36	Surgalloy™	88864734-21V	
KV-1 3/8 Circle 9.0 mm Double-arm		6-0	0.7	60	24	Blue	36	Surgalloy™	88864714-11V	



FLEXON™

Multifilament Temporary Cardiac Pacing Lead

Excellent Stability with Great Flexibility.



- FLEXON™ temporary cardiac pacing leads are specifically designed to insulate the lead and be less traumatic during removal after pacing is complete.
- Breakaway cutting needle after chest wall penetration: eliminates requirement to cut needle and provides convenience to the clinician.
- Maximized area of coating in reference to the pacing lead end: less traumatic during removal of temporary pacing lead.

Tensile Strength

Permanent

Packaging

Available coated with orange or white PTFE or clear FEP in size 0 (3.5 metric), size 2–0 (3 metric) and 3–0 (2 metric). Flexon™ temporary cardiac pacing lead is supplied sterile affixed to various types of needles, including Breakaway™ needles.

Indications

Indicated for use in temporary atrial and ventricular pacing and sensing during and after cardiac surgery.



Description

Flexon™ temporary cardiac pacing lead is a stainless steel twisted, multistrand wire coated with orange or white PTFE poly (tetrafluoroproethylene) or clear FEP poly (tetrafluoroethylene-co- hexafluoropropylene).

Indications

Flexon™ temporary cardiac pacing lead is indicated for use in temporary atrial and ventricular pacing and sensing during and after cardiac surgery.

Actions

Flexon™ temporary cardiac pacing lead elicits minimal acute inflammatory reaction in tissues and is not absorbed.

Tensile Strength

Permanent.

Sterilization

Ethylene oxide.

Packaging

Flexon™ temporary cardiac pacing lead are available coated with orange or white PTFE or clear FEP in size 0 (3.5 metric), size 2-0 (3 metric) and 3-0 (2 metric). Flexon™ temporary cardiac pacing lead is supplied sterile affixed to various types of needles, including Breakaway™ needles.

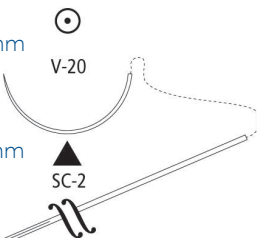
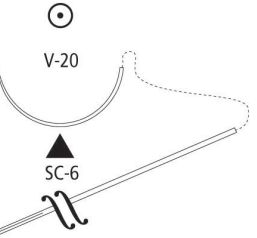
Please refer to the individual package IFUs for complete instructions, indications, contraindications, warnings and precautions.

1. IFU indicates tensile strength averages for Velosorb™ Fast sutures are approximately 50% of its original tensile strength 5 days post implantation. All of the original tensile strength is gone by 14 days. Absorption of Velosorb™ Fast sutures is essentially complete between the 40th and 50th day.





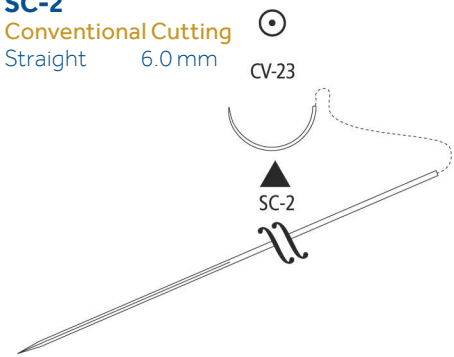
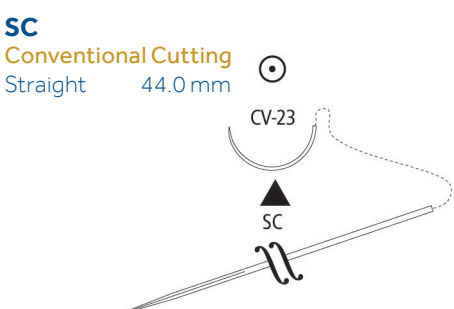
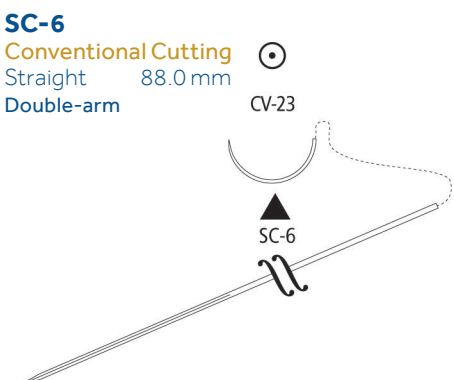
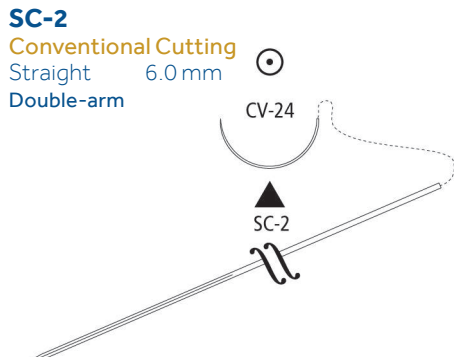
Flexon™

TAPER POINT								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
SC-2 Straight 60.0 mm  V-20 Taper Point 1/2 Circle 26.0 mm Double-arm (Not to scale)	0	3.5	60	24	Undyed	12		88862597-63
SC-6 Straight  (Not to scale)	2-0	3	2 × 60	24	1 Orange 1 White	12		88862623-53
	2-0	3	60	24	Orange	12		88862617-53
	2-0	3	60	24	White	12		88862615-53
	0	3.5	60	24	Undyed	12		88862589-63





TAPER POINT

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
CV-23 1/2 Circle 17.0 mm	3-0	2	60	24	Undyed	12	FEP Coating	88862592-43
SC-2 Conventional Cutting Straight 6.0 mm								
								
SC Conventional Cutting Straight 44.0 mm								
	3-0	2	60	24	Undyed	12	FEP Coating	88862591-43
SC-6 Conventional Cutting Straight 88.0 mm Double-arm								
								
CV-24 1/2 Circle 20.0 mm								
SC-2 Conventional Cutting Straight 6.0 mm Double-arm	0	3.5	60	24	Undyed	12	FEP Coating	88862593-63
								



STEEL

Monofilament Stainless Steel

Providing Maximum Tensile Strength.



- Rotogrip™ needles (available on some monofilament steel) reduce kinking, making the suture easier to handle and helps prevent breakage at the needle suture junction.
- Mylar™/Tyvek™ outer envelope allows for easy suture removal and arming of needles.
- SCC needle, a very strong and sharp needle, excellent for sternotomy closure.

Tensile Strength

Permanent

Packaging

Available in monofilament strands in size 1 (4 Metric), size 2 (6 metric), size 4 (6 metric) through 7 (9 Metric). The sutures are supplied sterile, in pre-cut lengths affixed to various types of needles using permanent needle attachment technique.

Indications

Indicated for use in abdominal wound closure, hernia repair and sternal closure.

**Description**

Stainless monofilament steel sutures are composed of 316L stainless steel conforming to ASTM Standard F138 Grade 2 "Stainless steel bar and wire for surgical implants."

Indications

Steel sutures are indicated for use in abdominal wound closure, hernia repair and sternal closure.

Actions

Steel sutures elicit a minimal acute inflammatory reaction in tissue, and are not absorbed.

Tensile Strength

Permanent.

Sterilization

Ethylene oxide or gamma irradiation.

Packaging

Steel sutures are available in monofilament strands in size 1 (4 Metric), size 2 (6 metric), size 4 (6 metric) through 7 (9 Metric). The sutures are supplied sterile, in pre-cut lengths affixed to various types of needles using permanent needle attachment technique.

Please refer to the individual package IFUs for complete instructions, indications , contraindications, warnings and precautions.



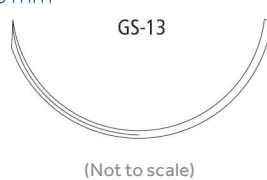
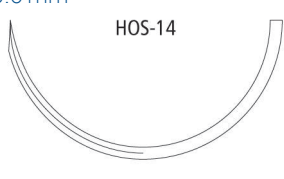


Steel

PRE-CUT

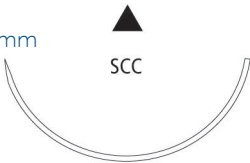
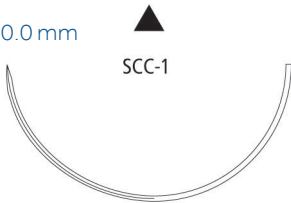
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
	2-0	3	12×45	18	Undyed	12	Pre-cut	88862407-53
	0	3.5	12×45	18	Undyed	12	Pre-cut	88862407-63
	1	4	6×45	18	Undyed	12	Pre-cut	88862408-73
	2	5	6×45	18	Undyed	12	Pre-cut	88862408-83
	3-0	2	12×45	18	Undyed	12	Pre-cut	88862407-43
	7	9	12×45	18	Undyed	12	Pre-cut	88862408-73

REVERSE CUTTING

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
GS-12 1/2 Circle 40.0 mm 	2	5	5×45	18	Undyed	12		88862413-83
GS-13 ROTO 1/2 Circle 48.0 mm 	2	5	2×45	18	Undyed	12	ROTOGRIP™	88862420-83
	4	6	2×45	18	Undyed	12	ROTOGRIP™	88862420-09
HOS-14 1/2 Circle 55.0 mm 	5	7	4×45	18	Undyed	12	ROTOGRIP™	88862410-89
	5	7	2×75	30	Undyed	12	ROTOGRIP™	88862424-89
	5	7	75	30	Undyed	12	ROTOGRIP™	88862412-89
	6	8	4×45	18	Undyed	12	ROTOGRIP™	88862410-69





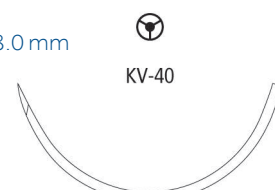
CONVENTIONAL CUTTING								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
SCC 1/2 Circle 48.0 mm 	5	7	4 × 45	18	Undyed	12		88862224-89
	5	7	2 × 45	18	Undyed	12		88862222-89
	5	7	6 × 45	18	Undyed	12		88862226-89
	6	8	4 × 45	18	Undyed	12		88862224-69
	6	8	6 × 45	18	Undyed	12		88862226-69
	6	8	2 × 45	18	Undyed	12		88862222-69
	7	9	4 × 45	18	Undyed	12		88862224-49
SCC-1 1/2 Circle 60.0 mm 	5	7	2 × 75	30	Undyed	12		88862228-89



TAPER POINT

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
GS-21 1/2 Circle 37.0 mm  GS-21	2-0	3	5 × 45	18	Undyed	12		88862345-53
GS-25 1/2 Circle 48.0 mm  GS-25	2-0	3	5 × 60	24	Undyed	12		88862348-53

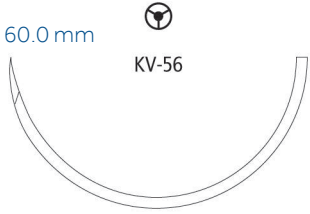
TAPERCUTTING

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
KV-37 1/2 Circle 40.0 mm  KV-37	2	5	5 × 45	18	Undyed	12		88862382-83
KV-40 1/2 Circle 48.0 mm  (Not to scale)	3	6	5 × 45	18	Undyed	12		88862466-25
	5	7	4 × 45	18	Undyed	12		88862414-89
	5	7	4 × 45	18	Undyed	12	ROTOGRIP	88862393-89
	5	7	2 × 45	18	Undyed	12		88862376-89
	6	8	2 × 45	18	Undyed	12		88862392-69
	6	8	4 × 45	18	Undyed	12		88862393-69
	7	9	2 × 45	18	Undyed	12		88862392-49





TAPERCUTTING

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
KV-56 1/2 Circle 60.0 mm 	5	7	5 × 75	30	Undyed	12		88862396-89

BLUNT TAPER POINT

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
BGS-26 1/2 Circle 44.0 mm  (Not to scale)	5	7	75	30	Undyed	12	ProtectPoint™	88862497-89
BGS-29 1/2 Circle 63.0 mm 	5	7	5 × 45	18	Undyed	12	ProtectPoint™	88862495-89

BLUNT POINT

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
BP-27 1/2 Circle 64.0 mm 	5	7	2 × 75	30	None	12	ProtectPoint™	88862494-89



DERMALON™ / MONOSOF™

Monofilament Nylon

High Tensile Strength. Low tissue Reactivity.



The advanced extrusion process of the nylon molecule gives the suture:

- Uniform diameter
- Maximum flexibility of the strand
- Excellent security with snug and flattened knots
- Minimal memory
- Excellent and consistent knotting strength

Tensile Strength

As with any nylon suture, though not absorbed, progressive hydrolysis of the suture, in vivo, may result in gradual loss of its tensile strength over time.

Packaging

Available dyed blue with FD&C Blue No. 2 in sizes 2–0 (3 Metric) through 6–0 (0.7 metric). MONOSOF™ monofilament nylon sutures are available either clear (undyed) or dyed black with Logwood extract, in sizes 2 (5 Metric) through 11–0 (0.1 Metric). Both sutures are supplied sterile, in pre-cut lengths affixed to needles using permanent needle attachment techniques.

Indications

Indicated for use in general soft tissue approximation and/or ligation, including use in cardiovascular, ophthalmic, and neurological surgery.



Description

DERMALON™ and MONOSOF™ monofilament sutures are inert, nonabsorbable, sterile surgical sutures composed of the longchain aliphatic polymers Nylon 6 and Nylon 6.6.

Indications

DERMALON™ and MONOSOF™ monofilament nylon sutures are indicated for use in general soft tissue approximation and/or ligation, including use in cardiovascular, ophthalmic, and neurological surgery.

Actions

Both DERMALON™ and MONOSOF™ monofilament nylon sutures elicit a minimal acute inflammatory reaction in tissue, which is followed by gradual encapsulation of the suture by fibrous connective tissue.

Tensile Strength

As with any nylon suture, though not absorbed, progressive hydrolysis of the suture, in vivo, may result in gradual loss of its tensile strength over time.

Sterilization

DERMALON™ and MONOSOF™ monofilament nylon sutures are sterilized by ethylene oxide or gamma irradiation.

Packaging

DERMALON™ monofilament nylon sutures are available dyed blue with FD&C Blue No. 2 in sizes 2-0 (3 Metric) through 6-0 (0.7 metric). MONOSOF™ monofilament nylon sutures are available either clear (undyed) or dyed black with Logwood extract, in sizes 2 (5 Metric) through 11-0 (0.1 Metric). Both sutures are supplied sterile, in pre-cut lengths affixed to needles using permanent needle attachment techniques.

Please refer to the individual package IFUs for complete instructions, indications, contraindications, warnings and precautions.



Dermalon™ / Monosof™

Dermalon™ / Monosof™ suture is a brand you have trusted for ~ 50 years with a proven history of performance.

PRE-CUT

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
	3-0	2	12×45	18	Black	36	Pre-cut	N-63
	2-0	3	6×45	18	Black	36	Pre-cut	N-59
	2	5	6×45	18	Black	36	Pre-cut	N-64

REVERSE CUTTING

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
C-1 3/8 Circle 12.0 mm 	6-0	0.7	25	10	Black	12		SN-770G
	6-0	0.7	45	18	Black	12		SN-667G
	6-0	0.7	45	18	Black	36		SN-667
	6-0	0.7	45	18	Blue	36		88861741-11
	6-0	0.7	75	30	Black	36		SN-367
	5-0	1	25	10	Black	12		SN-771G
	5-0	1	45	18	Black	36		SN-871
	5-0	1	45	18	Blue	36		88861741-21
	5-0	1	75	30	Black	36		SN-368
	4-0	1.5	25	10	Black	12		SN-772G
	4-0	1.5	45	18	Black	36		SN-872
	4-0	1.5	45	18	Blue	36		88861741-31



REVERSE CUTTING

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
C-12 3/8 Circle 16.0 mm 	6-0	0.7	45	18	Blue	36		88861747-11
	6-0	0.7	45	18	Black	36		SN-660
	6-0	0.7	75	30	Black	36		SN-760
	5-0	1	45	18	Black	36		SN-659
	5-0	1	45	18	Black	12		SN-659G
	5-0	1	75	30	Black	36		SN-761
	4-0	1.5	75	30	Black	36		SN-762
	3-0	2	75	30	Black	36		SN-763
C-13 3/8 Circle 19.0 mm 	6-0	0.7	45	18	Blue	36		88861756-11
	5-0	1	45	18	Blue	36		88861756-21
	5-0	1	45	18	Black	12		SN-661G
	5-0	1	45	18	Black	36		SN-661
	5-0	1	75	30	Black	36		SN-643
	4-0	1.5	25	10	Black	12		SN-552G
	4-0	1.5	45	18	Black	12		SN-662G
	4-0	1.5	45	18	Black	36		SN-662
	4-0	1.5	45	18	Blue	36		88861756-31
	4-0	1.5	75	30	Blue	36		88861757-31
	4-0	1.5	90	36	Black	36		SN-644
	3-0	2	45	18	Black	36		SN-653
	3-0	2	45	18	Blue	36		88861756-41
	3-0	2	75	30	Black	36		SN-641
	3-0	2	75	30	Blue	36		88861757-41
	3-0	2	90	36	Black	36		SN-665
	2-0	3	45	18	Blue	36		88861756-51
	2-0	3	75	30	Black	36		SN-750
	2-0	3	90	36	Black	36		SN-666

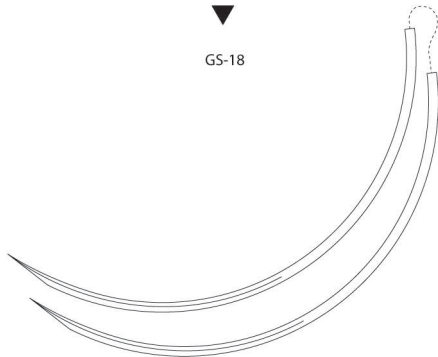




REVERSE CUTTING								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
C-14 3/8 Circle 24.0 mm 	4-0	1.5	45	18	Black	36		SN-658
	4-0	1.5	45	18	Blue	36		88861744-31
	4-0	1.5	75	30	Blue	36		88861799-31
	4-0	1.5	90	36	Black	36		SN-649
	3-0	2	45	18	Black	12		SN-663G
	3-0	2	45	18	Black	36		SN-663
	3-0	2	45	18	Blue	36		88861744-41
	3-0	2	75	30	Blue	36		88861799-41
	3-0	2	75	30	Black	36		SN-669
	3-0	2	90	36	Black	36		SN-648
	2-0	3	45	18	Black	36		SN-758
	2-0	3	75	30	Undyed	36		88861799-51
	2-0	3	90	36	Black	36		SN-747
C-15 3/8 Circle 26.0 mm 	2-0	3	45	18	Black	12		SN-764G
	2-0	3	45	18	Black	36		SN-764
	2-0	3	45	18	Blue	36		88861744-51
	2-0	3	75	30	Black	12		SN-664G
	2-0	3	75	30	Black	36		SN-664
	2-0	3	90	36	Blue	36		88861720-51
	0	3.5	75	30	Black	36		SN-765
C-16 3/8 Circle 30.0 mm 	4-0	1.5	75	30	Black	36		SN-670
	3-0	2	75	30	Blue	36		88861750-41
	3-0	2	75	30	Black	12		SN-671G
	3-0	2	75	30	Black	36		SN-671
	3-0	2	90	36	Black	36		SN-771
	2-0	3	75	30	Black	36		SN-688
	2-0	3	90	36	Black	36		SN-788
	0	3.5	75	30	Black	36		SN-689
	1	4	90	36	Black	36		SN-790





REVERSE CUTTING									
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code	
	USP	EP	cm	Inches					
C-18 3/8 Circle 35.0 mm 	3-0	2	90	36	Black	36		SN-693	
	2-0	3	90	36	Black	36		SN-694	
C-17 3/8 Circle 39.0 mm 	4-0	1.5	75	30	Black	36		SN-672	
	3-0	2	75	30	Black	12		SN-673G	
	3-0	2	75	30	Black	36		SN-673	
	3-0	2	75	30	Blue	36		88861727-41	
	2-0	3	75	30	Blue	36		88861727-51	
	2-0	3	75	30	Black	36		SN-674	
	0	3.5	90	36	Black	36		SN-775	
	1	4	90	36	Black	36		SN-776	
	2	5	90	36	Black	36		SN-777	
GS-18 3/8 Circle 77.0 mm 	2	5	45	18	Black	24	With bolster and weight	CN-290	
GS-18 3/8 Circle 77.0 mm Double-arm 	2	5	75	30	Black	24		CN-490	





REVERSE CUTTING										
Needles Specifications			Size		Length		Color	Units	Comments	Reorder code
			USP	EP	cm	Inches		Per box		
C-22 1/2 Circle 20.0 mm 			5-0	1	75	30	Black	36		SN-629
			4-0	1.5	75	30	Black	36		SN-630
			3-0	2	75	30	Black	36		SN-631
C-23 1/2 Circle 24.0 mm 			3-0	2	90	36	Black	36		SN-247
C-25 1/2 Circle 30.0 mm 			3-0	2	75	30	Black	36		SN-681
			3-0	2	90	36	Black	36		SN-781
			2-0	3	75	30	Black	36		SN-682
			2-0	3	90	36	Black	36		SN-782
GS-11 1/2 Circle 37.0 mm 			3-0	2	90	36	Black	36		SN-881
			2-0	3	75	30	Black	36		CN-819
			1	4	90	36	Black	36		CN-822





PREMIUM REVERSE CUTTING										
Needles Specifications			Size		Length		Color	Units	Comments	Reorder code
			USP	EP	cm	Inches				
P-16 3/8 Circle 7.0 mm		7-0	0.5	45	18	Black	12			SN-1647G
		7-0	0.5	45	18	Black	36			SN-1647
P-10 3/8 Circle 11.0 mm		7-0	0.5	45	18	Black	12	Surgalloy™		SN-3686
		6-0	0.7	45	18	Black	12	Surgalloy™		SN-3697
		6-0	0.7	45	18	Clear	12	Surgalloy™		SN-1689G
		6-0	0.7	45	18	Black	36	Surgalloy™		SN-5697
		6-0	0.7	45	18	Clear	36	Surgalloy™		SN-1689
		6-0	0.7	45	18	Blue	12			88861754-13
		5-0	1	45	18	Black	12	Surgalloy™		SN-3695
P-13 3/8 Circle 13.0 mm		6-0	0.7	45	18	Black	36	Surgalloy™		SN-5696
		6-0	0.7	45	18	Black	12	Surgalloy™		SN-5696G
		6-0	0.7	45	18	Blue	12	Surgalloy™		SDN-5696G
		5-0	1	45	18	Black	12	Surgalloy™		SN-5698G
		5-0	1	45	18	Clear	12	Surgalloy™		SN-5690G
		5-0	1	45	18	Black	36	Surgalloy™		SN-5698
		5-0	1	45	18	Clear	36	Surgalloy™		SN-5690
		5-0	1	45	18	Blue	12	Surgalloy™		88861749-24
		4-0	1.5	45	18	Black	12	Surgalloy™		SN-5699G
		4-0	1.5	45	18	Black	36	Surgalloy™		SN-5699
		4-0	1.5	45	18	Clear	36	Surgalloy™		SN-5691
		4-0	1.5	45	18	Blue	12	Surgalloy™		SDN-5691G
P-11 3/8 Circle 16.0 mm		6-0	0.7	45	18	Black	12	Surgalloy™		SN-5767G
		5-0	1	45	18	Black	12	Surgalloy™		SN-5668G
		5-0	1	45	18	Black	36	Surgalloy™		SN-5668
		4-0	1.5	45	18	Black	12	Surgalloy™		SN-5694G
		4-0	1.5	45	18	Black	36	Surgalloy™		SN-5694





PREMIUM REVERSE CUTTING								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
P-12 3/8 Circle 19.0 mm 	6-0	0.7	45	18	Black	12	Surgalloy™	SN-5665G
	5-0	1	45	18	Black	12	Surgalloy™	SN-5666G
	5-0	1	45	18	Black	36	Surgalloy™	SN-5666
	4-0	1.5	45	18	Clear	12	Surgalloy™	SN-5677
	4-0	1.5	45	18	Black	12	Surgalloy™	SN-5667G
	4-0	1.5	45	18	Black	36	Surgalloy™	SN-5667
	4-0	1.5	45	18	Blue	12	Surgalloy™	SDN-5666G
	3-0	2	45	18	Black	12	Surgalloy™	SN-5669G
	3-0	2	45	18	Black	36	Surgalloy™	SN-5669
	2-0	3	45	18	Black	36	Surgalloy™	SN-5670





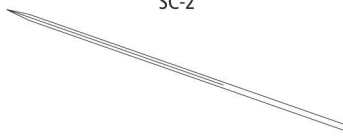
PREMIUM REVERSE CUTTING										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
P-14 3/8 Circle 24.0 mm 	4-0	1.5	45	18	Black	12	Surgalloy™	SN-5862G		
	3-0	2	45	18	Black	12	Surgalloy™	SN-5663G		
	3-0	2	45	18	Black	36	Surgalloy™	SN-5663		
	3-0	2	45	18	Blue	12	Surgalloy™	SDN-5943G		
P-24 1/2 Circle 16.0 mm 	6-0	0.7	45	18	Black	12	Surgalloy™	SN-5660G		
	4-0	1.5	45	18	Black	12	Surgalloy™	SN-5662G		
	4-0	1.5	45	18	Black	36	Surgalloy™	SN-5662		



CONVENTIONAL CUTTING										
Needles Specifications			Size		Length		Color	Units	Comments	Reorder code
			USP	EP	cm	Inches		Per box		
PC-13 3/8 Circle 11.0 mm		6-0	0.7	45	18	Black	36		SN-1956	
		5-0	1	45	18	Black	36		SN-1955	
		4-0	1.5	45	18	Black	36		SN-1954	
PC-11 3/8 Circle 16.0 mm		6-0	0.7	45	18	Black	36		SN-1966	
		5-0	1	45	18	Black	12	Surgalloy™	SN-3965	
		4-0	1.5	45	18	Black	36		SN-1964	
PC-12 3/8 Circle 19.0 mm		5-0	1	45	18	Black	36		SN-1995	
		4-0	1.5	45	18	Black	36		SN-1994	
		3-0	2	45	18	Black	36		SN-1693	
SCE-4 3/8 Circle 19.0 mm		5-0	1	45	18	Blue	36		88861742-21	
		4-0	1.5	45	18	Blue	36		88861742-31	
		4-0	1.5	45	18	Black	36		SN-568	
		3-0	2	45	18	Blue	36		88861742-41	
GCC-90 3/8 Circle 90.0 mm		2-0	3	100	40	Black	36		CN-791	
		0	3.5	100	40	Black	36		CN-792	
		1	4	100	40	Black	36		CN-793	





CONVENTIONAL CUTTING								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
SC-1 Straight 51.0 mm ▲ SC-1 	4-0	1.5	90	36	Black	36		SN-615
	3-0	2	90	36	Black	36		SN-616
	2-0	3	90	36	Black	36		SN-617
SC-2 Straight 60.0 mm ▲ SC-2 	3-0	2	75	30	Black	36		SN-627
	3-0	2	75	30	Blue	36		88861764-41
	2-0	3	75	30	Black	36		SN-628
	2-0	3	75	30	Blue	36		88861764-51
	2-0	3	100	40	Black	36		SN-728





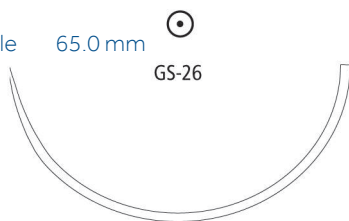
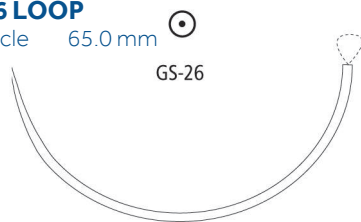
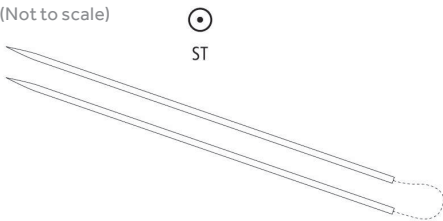
TAPER POINT										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
MV-50-3 3/8 Circle 4.0 mm	 MV-50-3 	11-0	0.1	13	5	Black	12	Surgalloy™	N-2500	
MV-70-3 3/8 Circle 4.0 mm	 MV-70-3 	11-0	0.1	13	5	Black	12	Surgalloy™	N-2510	
		10-0	0.2	13	5	Black	12	Surgalloy™	N-2512	
MV-135-3 3/8 Circle 4.0 mm	 MV-135-3 	10-0	0.2	13	5	Black	12	Surgalloy™	N-2540	
		9-0	0.3	8	3	Black	12	Surgalloy™	N-1603G	
		8-0	0.4	13	5	Black	12	Surgalloy™	N-2541	
MV-70-4 3/8 Circle 5.0 mm	 MV-70-4 	10-0	0.2	13	5	Black	12	Surgalloy™	N-2514	
MV-100-4 3/8 Circle 5.0 mm	 MV-100-4 	10-0	0.2	13	5	Black	12	Surgalloy™	N-2530	
		9-0	0.3	13	5	Black	12	Surgalloy™	N-2532	
MV-135-4 3/8 Circle 5.0 mm	 MV-135-4 	10-0	0.2	13	5	Black	12	Surgalloy™	N-2544	
		9-0	0.3	13	5	Black	12	Surgalloy™	N-2546	
		8-0	0.4	13	5	Black	12	Surgalloy™	N-2543	
MV-135-5 3/8 Circle 6.0 mm	 MV-135-5 	9-0	0.3	13	5	Black	12	Surgalloy™	N-2548	
		8-0	0.4	13	5	Black	12	Surgalloy™	N-2547	





TAPER POINT									
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code	
	USP	EP	cm	Inches					
GS-22 1/2 Circle 27.0 mm 	0	3.5	100	40	Black	36		CN-225	
GS-24 1/2 Circle 40.0 mm 	0	3.5	100	40	Black	36		CN-723	
	1	4	100	40	Black	36		CN-722	
GS-24 LOOP 1/2 Circle 40.0 mm 	0	3.5	150	60	Black	24	Loop	CN-825-L	



TAPER POINT									
Needles Specifications		Size		Length		Color	Units Per box	Comments	Reorder code
		USP	EP	cm	Inches				
GS-25 1/2 Circle 48.0 mm 		1	4	100	40	Black	36		CN-724
GS-25 LOOP 1/2 Circle 48.0 mm 		1	4	150	60	Black	24	Loop	CN-830-L
GS-26 1/2 Circle 65.0 mm 		1	4	150	60	Black	24		CN-824
		2	5	150	60	Black	24		CN-825
GS-26 LOOP 1/2 Circle 65.0 mm 		0	3.5	240	96	Black	24	Loop	CN-823-L
ST Straight 60.0 mm Double-arm (Not to scale) 		2-0	3	90	36	Black	36		GN-283
		0	3.5	90	36	Black	36		GN-284





HEAVY TAPER POINT

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
HGS-22 1/2 Circle 27.0 mm 	0	3.5	100	40	Black	36		CN-925
	1	4	100	40	Black	36		CN-926

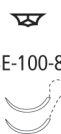
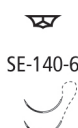
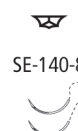
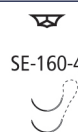
TAPERCUTTING

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
MVK-70-3 3/8 Circle 4.0 mm 	10-0	0.2	13	5	Black	12	Surgalloy™	N-2513
MVK-100-4 3/8 Circle 5.0 mm 	10-0	0.2	13	5	Black	12	Surgalloy™	N-2531
	9-0	0.3	13	5	Black	12	Surgalloy™	N-2533

BLUNT POINT

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
BGS-25 1/2 Circle 48.0 mm 	1	4	100	40	Black	36	ProtectPoint™	CN-771



PREMIUM SPATULA										
Needles Specifications			Size		Length		Color	Units	Comments	Reorder code
			USP	EP	cm	Inches				
SE-100-8 1/4 Circle 6.3 mm Double-arm		8-0	0.4	30	12	Black	12	Surgalloy™	N-2714K	
SS-24 1/4 Circle 8.6 mm Double-arm		5-0	1	45	18	Black	12	Surgalloy™	N-2781K	
SE-140-6 3/8 Circle 6.3 mm		10-0	0.2	20	8	Black	12	Surgalloy™	N-2730-K	
SE-140-6 3/8 Circle 6.3 mm Double-arm		10-0	0.2	30	12	Black	12	Surgalloy™	N-2770-K	
		9-0	0.3	30	12	Black	12	Surgalloy™	N-2771-K	
SE-140-8 3/8 Circle 6.3 mm		10-0	0.2	20	8	Black	12	Surgalloy™	N-2736K	
SE-140-8 3/8 Circle 6.3 mm Double-arm		10-0	0.2	30	12	Black	12	Surgalloy™	N-2718K	
		9-0	0.3	30	12	Black	12	Surgalloy™	N-2717-K	
SE-CC-6 Compound curve 4.8 mm Double-arm		10-0	0.2	30	12	Black	12	Surgalloy™	N-2799-K	
SE-160-4 1/2 Circle 5.5 mm Double-arm		11-0	0.1	30	12	Black	12	Surgalloy™	N-2705K	
		10-0	0.2	30	12	Black	12	Surgalloy™	N-2704K	





SPATULA										
Needles Specifications			Size		Length		Color	Units	Comments	Reorder code
			USP	EP	cm	Inches		Per box		
SE-160-6 1/2 Circle 5.5 mm	 SE-160-6		10-0	0.2	20	8	Black	12	Surgalloy™	N-2734K
SE-160-6 1/2 Circle 5.5 mm Double-arm	 SE-160-6		10-0	0.2	15	6	Black	12	Surgalloy™	N-2757K
			10-0	0.2	30	12	Black	12	Surgalloy™	N-2756K
			9-0	0.3	30	12	Black	12	Surgalloy™	N-2760K
SE-160-8 1/2 Circle 5.5 mm	 SE-160-8		10-0	0.2	15	6	Black	12	Surgalloy™	N-2766K
SE-160-8 1/2 Circle 5.5 mm Double-arm	 SE-160-8		10-0	0.2	30	12	Black	12	Surgalloy™	N-2786K
			9-0	0.3	30	12	Black	12	Surgalloy™	N-2787K
SE-175-8 1/2 Circle 6.9 mm Double-arm	 SE-175-8		10-0	0.2	30	12	Black	12	Surgalloy™	N-2719K
			8-0	0.4	30	12	Black	12	Surgalloy™	N-2716K
SE-175-6 1/2 Circle 7.0 mm Double-arm	 SE-175-6		10-0	0.2	30	12	Black	12		N-2966K
			9-0	0.3	30	12	Black	12	Surgalloy™	N-2967
SS-2 1/2 Circle 8.6 mm Double-arm	 SS-2		5-0	1	45	18	Black	12	Surgalloy™	N-2761K



NOVAFIL™

Monofilament Polybutester

Supple and Flexible. Stretches with Healing.



SUPPLE & FLEXIBLE

- With less memory and less resistant against creep structural fatigue³
- Easier to work with and handle for the user^{1,3}

HYDROPHOBIC

- Repels water, doesn't absorb body fluids¹
- Easier removal

ELASTICITY

- Stretches with edema and returns to its original shape when swelling subsides¹
- Better cosmesis¹, and reduced risk of hypertrophic scarring^{2*}

Tensile Strength

Novafil™ polybutester sutures are not absorbed, nor is any significant change in tensile strength retention known to occur in vivo.

Packaging

Available clear or pigmented with Copper Phthalocyanine Blue, in sizes 1 (4 Metric), size 2–0 (metric 3) through 7–0 (0.5 Metric). The sutures are supplied sterile, in pre-cut lengths affixed to reverse cutting needle type using permanent needle attachment techniques.

Indications

Indicated for use in general soft tissue approximation and/or ligation, including use in cardiovascular and ophthalmic surgery, but not in microsurgery and neural tissue.



Description

Novafil™ monofilament polybutester sutures are nonabsorbable, sterile, surgical sutures composed of a copolymer of butylene terephthalate and polytetramethylene ether glycol.

Indications

Novafil™ polybutester sutures are indicated for use in general soft tissue approximation and/or ligation, including use in cardiovascular and ophthalmic surgery, but not in microsurgery and neural tissue.

Actions

Novafil™ polybutester sutures elicit a minimal acute inflammatory reaction in tissues, followed by gradual encapsulation of the suture by fibrous connective tissue.

Tensile Strength

Novafil™ polybutester sutures are not absorbed, nor is any significant change in tensile strength retention known to occur in vivo.

Sterilization

Gamma irradiation.

Packaging

Novafil™ polybutester sutures are available clear or pigmented with Copper Phthalocyanine Blue, in sizes 1 (4 Metric), size 2-0 (metric 3) through 7-0 (0.5 Metric). The sutures are supplied sterile, in pre-cut lengths affixed to reverse cutting needle type using permanent needle attachment techniques. Please refer to the individual package IFUs for complete instructions, indications, contraindications, warnings and precautions.

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Novafil™

Novafil™ suture is a brand you have trusted for
~ 30 years with a proven history of performance..

REVERSE CUTTING									
Needles Specifications	Size USP	EP	Length		Color	Units Per box	Comments	Reorder code	
			cm	Inches					
C-1 3/8 Circle 12.0 mm 	6-0	0.7	45	18	Blue	12		8886441913	
	5-0	1	45	18	Blue	12		8886441923	
	4-0	1.5	45	18	Blue	12		8886441933	
C-12 3/8 Circle 16.0 mm 	5-0	1	45	18	Blue	12		88864555-23	
C-13 3/8 Circle 19.0 mm 	6-0	0.7	45	18	Blue	12	455	8886442013	
	5-0	1	45	18	Blue	12		8886442023	
	4-0	1.5	45	18	Blue	12		8886442033	
	4-0	1.5	75	30	Blue	36		8886403231	
	3-0	2	45	18	Blue	12		8886442043	
	3-0	2	75	30	Blue	36		88864554-41	
C-14 3/8 Circle 24.0 mm 	4-0	1.5	45	18	Blue	12		8886442233	
	3-0	2	45	18	Blue	12		8886442243	
	3-0	2	90	36	Blue	36		8886400241	
	2-0	3	45	18	Blue	12		8886442253	
	2-0	3	75	30	Blue	12		8886442153	



REVERSE CUTTING								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
C-16 3/8 Circle 30.0 mm  C-16	4-0	1.5	75	30	Blue	36		8886442431
	3-0	2	75	30	Blue	36		8886442441
	2-0	3	75	30	Blue	36		8886442451
	0	3.5	75	30	Blue	36		8886442461
C-17 3/8 Circle 39.0 mm  C-17	3-0	2	75	30	Blue	36		8886442641
	2-0	3	75	30	Blue	36		8886442651
	0	3.5	75	30	Blue	36		8886442661
GS-11 1/2 Circle 37.0 mm  GS-11	0	3.5	100	40	Blue	12		8886400963
	1	4	75	30	Blue	36		8886443371
GS-13 1/2 Circle 48.0 mm (Not to scale)  GS-13	1	4	75	30	Blue	36		8886443671
	1	4	100	40	Blue	12		CPB-738G





PREMIUM REVERSE CUTTING										
Needles Specifications			Size		Length		Color	Units	Comments	Reorder code
			USP	EP	cm	Inches				
P-10 3/8 Circle 11.0 mm		7-0	0.5	45	18	Blue	12	Surgalloy™	8886441003	
		6-0	0.7	45	18	Blue	12	Surgalloy™	8886441013	
		5-0	1	45	18	Blue	12	Surgalloy™	8886441023	
P-13 3/8 Circle 13.0 mm		6-0	0.7	45	18	Blue	12	Surgalloy™	SPB-1213G	
		5-0	1	45	18	Blue	12	Surgalloy™	SPB-5223G	
		5-0	1	75	30	Blue	36	Surgalloy™	8886402721	
		4-0	1.5	45	18	Blue	12	Surgalloy™	SPB-1233G	
SBE-2 3/8 Circle 13.0 mm		6-0	0.7	45	18	Blue	12		8886440013	
		5-0	1	45	18	Blue	12		8886440023	
P-11 3/8 Circle 16.0 mm		6-0	0.7	45	18	Blue	12	Surgalloy™	SPB-5413G	
		5-0	1	45	18	Blue	12	Surgalloy™	SPB-5142G	
		5-0	1	75	30	Blue	36	Surgalloy™	8886402821	
		4-0	1.5	45	18	Blue	12	Surgalloy™	SPB-5143G	
		4-0	1.5	45	18	Blue	36	Surgalloy™	8886441431	
		4-0	1.5	75	30	Blue	36	Surgalloy™	8886402831	
SBE-3 3/8 Circle 16.0 mm		6-0	0.7	45	18	Blue	12		8886440113	
		5-0	1	45	18	Blue	12		8886440123	
		4-0	1.5	45	18	Blue	12		8886440133	

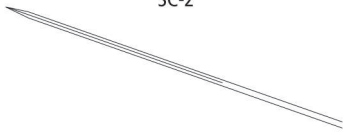




PREMIUM REVERSE CUTTING										
Needles Specifications			Size		Length		Color	Units	Comments	Reorder code
			USP	EP	cm	Inches		Per box		
P-12 3/8 Circle 19.0 mm		5-0	1	45	18	Blue	12	Surgalloy™	SPB-1623G	
		4-0	1.5	45	18	Blue	12	Surgalloy™	SPB-5633G	
		4-0	1.5	75	30	Blue	36	Surgalloy™	8886442531	
		3-0	2	45	18	Blue	12	Surgalloy™	SPB-1643G	
		3-0	2	45	18	Blue	36	Surgalloy™	8886441543	
SBE-4 3/8 Circle 19.0 mm		5-0	1	45	18	Blue	12		8886440223	
		4-0	1.5	45	18	Blue	12		8886440233	
		3-0	2	45	18	Blue	12		8886440243	
P-14 3/8 Circle 24.0 mm		4-0	1.5	45	18	Blue	12	Surgalloy™	SPB-5833G	
		3-0	2	45	18	Blue	12	Surgalloy™	SPB-5843G	
		3-0	2	75	30	Blue	36	Surgalloy™	88864582-43	
		2-0	3	45	18	Blue	12	Surgalloy™	88864418-53	
		2-0	3	75	30	Blue	36	Surgalloy™	88864582-53	
SBE-6 3/8 Circle 24.0 mm		4-0	1.5	45	18	Blue	12		8886440333	
		3-0	2	45	18	Blue	12		8886440343	
P-24 1/2 Circle 16.0 mm		4-0	1.5	45	18	Clear	12	Surgalloy™	SPB-5433G	



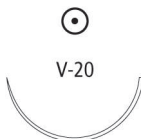
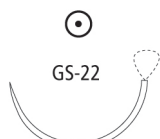
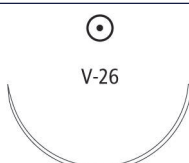


CONVENTIONAL CUTTING											
Needles Specifications				Size		Length		Color	Units Per box	Comments	Reorder code
				USP	EP	cm	Inches				
PC-12 3/8 Circle 19.0 mm 			5-0	1	45	18	Blue	12		SPB-1945G	
SC-2 Straight 60.0 mm 			3-0	2	75	30	Blue	36		88864490-41	
			2-0	3	75	30	Blue	36		88864490-51	

X CUTTING										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
DX-11 3/8 Circle 11.0 mm	 DX-11 	6-0	0.7	45	18	Blue	12	DermaX	XNF-697	
DX-16 3/8 Circle 16.0 mm	 DX-16 	6-0	0.7	45	18	Blue	12	DermaX	XNF-1966	
		5-0	1	45	18	Blue	12	DermaX	XNF-1965	
		4-0	1.5	45	18	Blue	12	DermaX	XNF-1964	
DX-19 3/8 Circle 19.0 mm	 DX-19 	5-0	1	45	18	Blue	12	DermaX	XNF-1995	
		4-0	1.5	45	18	Blue	12	DermaX	XNF-1994	
		3-0	2	45	18	Blue	12	DermaX	XNF-1993	





TAPER POINT										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
V-20 1/2 Circle 26.0 mm		V-20	3-0	2	75	30	Blue	36	Surgalloy™	8886445241
			2-0	3	75	30	Blue	36	Surgalloy™	8886445251
			0	3.5	75	30	Blue	36	Surgalloy™	8886445261
GS-22 1/2 Circle 27.0 mm		GS-22	2-0	3	75	30	Blue	36		8886445951
			2-0	3	5×45	18	Blue	12	D-Tach™	8886445853
			0	3.5	5×45	18	Blue	12	D-Tach™	8886445863
			0	3.5	75	30	Blue	36		8886445961
			1	4	75	30	Blue	36		8886445971
GS-22 LOOP 1/2 Circle 27.0 mm		GS-22	2-0	3	150	60	Blue	36	Loop	88864619-51
V-26 1/2 Circle 37.0 mm		V-26	3-0	2	75	30	Blue	36		8886445041
GS-21 1/2 Circle 37.0 mm		GS-21	0	3.5	5×45	18	Blue	12	D-Tach™	8886445463
			0	3.5	75	30	Blue	36		8886445561
			1	4	5×45	18	Blue	12	D-Tach™	8886445473
			1	4	75	30	Blue	36		8886445571
GS-24 1/2 Circle 40.0 mm		GS-24	1	4	75	30	Blue	36		88864463-71



TAPER POINT								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
GS-25 1/2 Circle 48.0 mm (Not to scale) 	2	5	75	30	Blue	36		88864465-81
	1	4	5×45	18	Blue	12	D-Tach™	88864464-73
	1	4	75	30	Blue	36		88864465-71
GS-25 LOOP 1/2 Circle 48.0 mm 	0	3.5	200	80	Blue	12	Loop	88864538-63
GS-26 1/2 Circle 65.0 mm 	2	5	150	60	Blue	36		88864470-81
GS-26 LOOP 1/2 Circle 65.0 mm 	0	3.5	150	60	Blue	36	Loop	8886440861

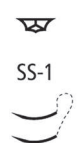




HEAVY TAPER POINT

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
HGS-22 1/2 Circle 27.0 mm 	0	3.5	5×45	18	Blue	12	D-Tach™	8886446063

SPATULA

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
SS-1 1/6 Circle 5.6 mm Double-arm 	5-0	1	30	12	Blue	12	Surgalloy™	PB-7740K
SS-24 1/4 Circle 8.6 mm Double-arm 	6-0	0.7	30	12	Blue	12	Surgalloy™	PB-6713K
	5-0	1	30	12	Blue	12	Surgalloy™	PB-6723K



SURGILON™

Braided Nylon

Coated with Silicone to Enhance Handling.



The advanced extrusion process of the nylon molecule gives the suture:

- Uniform diameter
- Maximum flexibility of the strand
- Excellent security with snug and flattened knots
- Minimal memory
- Excellent and consistent knotting strength

Tensile Strength

As with any nylon suture, though not absorbed, progressive hydrolysis of the suture, in vivo, may result in gradual loss of its tensile strength over time.

Packaging

Available dyed black in sizes 1 (4 Metric) through 4-0 (1.5 Metric) and size 6-0 (0.7 metric). The sutures are supplied sterile, in pre-cut lengths or affixed to needles using both permanent and removable needle attachment techniques.

Indications

Indicated for use in general soft tissue approximation and/or ligation, including use in cardiovascular, ophthalmic, and neurological surgery.



Description

SURGILON™ braided sutures are inert, nonabsorbable, sterile sutures composed of the long-chain aliphatic polymers Nylon 6 and Nylon 6.6. The braided sutures are coated uniformly with silicone to enhance handling characteristics, ease of passage through tissue and reduction of capillarity.

Indications

SURGILON™ braided nylon sutures are indicated for use in general soft tissue approximation and/or ligation, including use in cardiovascular, ophthalmic, and neurological surgery.

Actions

SURGILON™ braided nylon sutures all elicit a minimal acute inflammatory reaction in tissue, which is followed by gradual encapsulation of the suture by fibrous connective tissue.

Tensile Strength

As with any nylon suture, though not absorbed, progressive hydrolysis of the suture, in vivo, may result in gradual loss of its tensile strength over time.

Sterilization

Surgilon™ braided nylon sutures are sterilized by ethylene oxide in sizes 6-0 (0.7 metric) and smaller and by gamma irradiation in sizes 2 (5 metric) through 5-0 (1 metric).

Packaging

SURGILON™ braided nylon sutures are available dyed black in sizes 1 (4 Metric) through 4-0 (1.5 Metric) and size 6-0 (0.7 metric). The sutures are supplied sterile, in pre-cut lengths or affixed to needles using both permanent and removable needle attachment techniques.

Please refer to the individual package IFUs for complete instructions, indications, contraindications, warnings and precautions.



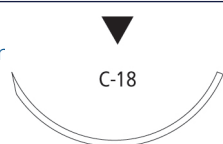
PRE-CUT

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
	4-0	1.5	12×45	18	Black	36	Pre-cut, RACETRAC	88861918-31
	4-0	1.5	7×75	30	Black	36	Pre-cut	88861919-31
	3-0	2	12×45	18	White	36	Pre-cut, RACETRAC	88861899-41
	3-0	2	12×45	18	Black	36	Pre-cut, RACETRAC	88861918-41
	3-0	2	7×75	30	Black	36	Pre-cut	88861919-41
	2-0	3	12×45	18	White	36	Pre-cut, RACETRAC	88861899-51
	2-0	3	12×45	18	Black	36	Pre-cut, RACETRAC	88861918-51
	2-0	3	7×75	30	Black	36	Pre-cut	88861919-51
	0	3.5	6×45	18	Black	36	Pre-cut, RACETRAC	88861917-61
	0	3.5	6×45	18	White	36	Pre-cut, RACETRAC	88861902-61
	0	3.5	7×75	30	Black	36	Pre-cut	88861919-61
	1	4	6×45	18	Black	36	Pre-cut, RACETRAC	88861917-71
	1	4	6×45	18	White	36	Pre-cut, RACETRAC	88861902-71
	1	4	7×75	30	Black	36	Pre-cut	88861919-71
	2	5	6×45	18	Black	24	Pre-cut, RACETRAC	88861917-82

REEL

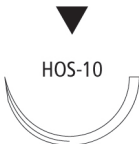
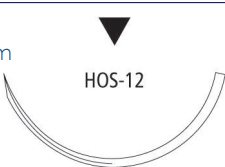
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
	3-0	2	366	144	Black	24	Reel	88861906-42
	2-0	3	366	144	Black	24	Reel	88861906-52
	0	3.5	250	98	Black	24	Reel	88861920-62
	1	4	250	98	Black	24	Reel	88861920-72
	2	5	300	120	Black	12	Reel	88861914-83
	3	6	238	95	Black	12	Reel	88861920-93



REVERSE CUTTING										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
C-13 3/8 Circle 19.0 mm		3-0	2	45	18	Black	12		88861931-43	
		2-0	3	75	30	Black	36		88861982-51	
C-14 3/8 Circle 24.0 mm		3-0	2	75	30	Black	36		88861935-41	
		2-0	3	45	18	Black	12		88861934-53	
		2-0	3	75	30	Black	36		88861935-51	
		0	3.5	75	30	Black	36		88861935-61	
C-16 3/8 Circle 30.0 mm		3-0	2	5 × 45	18	Black	24	D-Tach™	88861991-42	
		2-0	3	75	30	Black	36		88861883-51	
		0	3.5	75	30	Black	36		88861883-61	
		1	4	75	30	Black	36		88861883-71	
C-18 3/8 Circle 35.0 mm		1	4	75	30	Black	36		88861922-71	
GS-10 1/2 Circle 26.0 mm		2-0	3	75	30	Black	36		88861932-51	



REVERSE CUTTING

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
HOS-10 1/2 Circle 26.0 mm 	1	4	75	30	Black	36		88861896-71
GS-11 1/2 Circle 37.0 mm 	0	3.5	75	30	Black	36		88861915-61
	1	4	75	30	Black	36		88861915-71
HOS-12 1/2 Circle 40.0 mm 	1	4	5 × 45	18	Black	24	D-Tach™	88861913-72
	1	4	75	30	Black	36		88861895-71

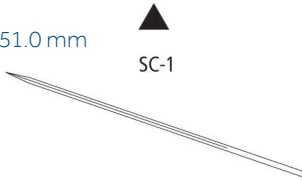
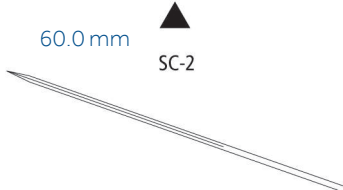
PREMIUM REVERSE CUTTING

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
P-13 3/8 Circle 13.0 mm 	5-0	1	45	18	Black	12	Surgalloy™	SBS-1928G
	4-0	1.5	45	18	White	12	Surgalloy™	SBS-1880G
P-11 3/8 Circle 16.0 mm 	4-0	1.5	45	18	Black	12		88861981-33
P-12 3/8 Circle 19.0 mm 	4-0	1.5	45	18	White	12	Surgalloy™	SBS-1884G
	3-0	2	45	18	White	12	Surgalloy™	SBS-1883G





CONVENTIONAL CUTTING

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
SC-1 Straight 51.0 mm 	2-0	3	75	30	Black	36		88861985-51
	0	3.5	75	30	Black	36		88861985-61
	1	4	75	30	Black	36		88861985-71
SC-2 Straight 60.0 mm 	0	3.5	75	30	Black	36		88861948-61
	2	5	75	30	Black	36		88861948-81

TAPER POINT

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
CV-20 1/2 Circle 10.0 mm 	5-0	1	5 × 45	18	Black	24	D-Tach™	88861910-22
	4-0	1.5	5 × 45	18	Black	24	D-Tach™	88861910-32
CV-22 1/2 Circle 13.0 mm 	4-0	1.5	5 × 45	18	Black	24	D-Tach™	88861957-32
CV-23 1/2 Circle 17.0 mm 	4-0	1.5	5 × 45	18	Black	24	D-Tach™	88861927-32
	4-0	1.5	75	30	Black	36		88861995-31
	3-0	2	5 × 45	18	Black	24	D-Tach™	88861927-42
	3-0	2	75	30	Black	36		88861995-41



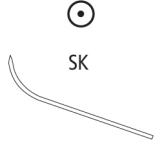


TAPER POINT										
Needles Specifications			Size		Length		Color	Units	Comments	Reorder code
			USP	EP	cm	Inches		Per box		
CV-24 1/2 Circle 20.0 mm			4-0	1.5	5 × 45	18	Black	24	D-Tach™	88861989-32
			3-0	2	5 × 45	18	Black	24	D-Tach™	88861989-42
GS-23 1/2 Circle 22.0 mm			0	3.5	5 × 45	18	Black	24	D-Tach™	88861993-62
V-20 1/2 Circle 26.0 mm			3-0	2	5 × 45	18	Black	24	D-Tach™	88861958-42
			3-0	2	75	30	Black	36		88861951-41
			3-0	2	75	30	Black	24	D-Tach™	88861926-42
			2-0	3	45	18	Black	24	D-Tach™	88861958-52
			2-0	3	5 × 75	30	Black	24	D-Tach™	88861967-52
			2-0	3	75	30	Black	36		88861951-51
			0	3.5	75	30	Black	36		88861951-61
GS-22 1/2 Circle 27.0 mm			2-0	3	5 × 45	18	Black	24	D-Tach™	88861969-52
			0	3.5	5 × 45	18	Black	24	D-Tach™	88861969-62
			0	3.5	75	30	Black	36		88861968-61
			1	4	5 × 45	18	Black	24	D-Tach™	88861969-72
V-30 1/2 Circle 30.0 mm			2-0	3	75	30	Black	36		88861964-51
			0	3.5	75	30	Black	36		88861964-61





TAPER POINT

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
GS-21 1/2 Circle 37.0 mm 	2-0	3	5 × 45	18	Black	24	D-Tach™	88861962-52
	0	3.5	75	30	Black	36		88861971-61
	1	4	5 × 45	18	Black	24	D-Tach™	88861962-72
	1	4	75	30	Black	36		88861971-71
GS-25 1/2 Circle 48.0 mm 	0	3.5	5 × 45	18	Black	24	D-Tach™	88861998-62
SK SKI 23.0 mm 	2-0	3	250	98	Black	36		88862011-51

HEAVY TAPER POINT

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
HGS-22 1/2 Circle 27.0 mm 	2-0	3	5 × 45	18	Black	24	D-Tach™	88861928-52
	0	3.5	5 × 45	18	Black	24	D-Tach™	88861928-62
	1	4	5 × 45	18	Black	24	D-Tach™	88861928-72

DIAMOND POINT

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
KV-25 1/2 Circle 22.0 mm 	0	3.5	5 × 45	18	Black	24	D-Tach™	88861909-62

SOFSILK™

Wax Coated Braided Silk

Maximum Surgical Handling.



Sofsilk™ braided silk sutures are nonabsorbable, sterile, non-mutagenic surgical sutures composed of natural proteinaceous silk fibers called fibroin. The braided sutures are available coated uniformly with either silicone or a special wax mixture to reduce capillarity and to increase surface lubricity which enhances handling characteristics, ease of passage through tissue, and knot run-down properties.

Tensile Strength

While Sofsilk™ sutures are not absorbed, progressive degradation of the proteinaceous silk fiber in vivo may result in gradual loss of the suture's tensile strength over time.

Packaging

Available in black with Logwood extract and uniformly coated with silicone or a special wax mixture, in sizes 2 (5 Metric) through 8-0 (0.4 Metric). The sutures are supplied sterile, in pre-cut lengths and ligating reels, nonneedled or affixed to needles using both permanent and removable needle attachment techniques.

Indications

Indicated for use in general soft tissue approximation and/or ligation, including use in cardiovascular, ophthalmic, microsurgery, and neurological surgery.

Description

Sofsilk™ braided silk sutures are nonabsorbable, sterile, non-mutagenic surgical sutures composed of natural proteinaceous silk fibers called fibroin. This protein is derived from the domesticated silkworm species *Bombyx mori* of the family *bombycidae*. The silk fibers are treated to remove the naturally- occurring sericin gum and braided to produce Sofsilk™ surgical silk sutures. The braided sutures are available coated uniformly with either silicone or a special wax mixture to reduce capillarity and to increase surface lubricity which enhances handling characteristics, ease of passage through tissue, and knot run-down properties.

Indications

Sofsilk™ sutures are indicated for use in general soft tissue approximation and/or ligation, including use in cardiovascular, ophthalmic, microsurgery, and neurological surgery.

Actions

Sofsilk™ sutures elicit a minimal acute inflammatory reaction in tissue, which is followed by gradual encapsulation of the suture by fibrous connective tissue.

Tensile Strength

While Sofsilk™ sutures are not absorbed, progressive degradation of the proteinaceous silk fiber in vivo may result in gradual loss of the suture's tensile strength over time.

Sterilization

Gamma irradiation.

Packaging

Sofsilk™ sutures are available in black with Logwood extract and uniformly coated with silicone or a special wax mixture, in sizes 2 (5 Metric) though 8–0 (0.4 Metric). The sutures are supplied sterile, in pre-cut lengths and ligating reels, nonneedled or affixed to needles using both permanent and removable needle attachment techniques. Please refer to the individual package IFUs for complete instructions, indications, contraindications, warnings and precautions.

Please refer to the individual package IFUs for complete instructions, indications , contraindications, warnings and precautions.

PRE-CUT								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
	5-0	1	12×45	18	Black	36	Pre-cut	S-182
	4-0	1.5	12×45	18	Black	24	Pre-cut, racetrac	S-193
	4-0	1.5	12×45	18	Black	36	Pre-cut	S-183
	4-0	1.5	12×60	24	Black	36	Pre-cut	S-243
	4-0	1.5	12×75	30	Black	36	Pre-cut	S-303
	3-0	2	12×45	18	Black	24	Pre-cut, racetrac	S-194
	3-0	2	12×45	18	Black	36	Pre-cut	S-184
	3-0	2	12×60	24	Black	24	Pre-cut, racetrac	S-254
	3-0	2	12×60	24	Black	36	Pre-cut	S-244
	3-0	2	12×75	30	Black	24	Pre-cut, racetrac	S-404
	3-0	2	12×75	30	Black	36	Pre-cut	S-304
	2-0	3	12×45	18	Black	24	Pre-cut, racetrac	S-195
	2-0	3	12×45	18	Black	36	Pre-cut	S-185
	2-0	3	12×60	24	Black	36	Pre-cut	S-245
	2-0	3	12×75	30	Black	36	Pre-cut	S-305
	2-0	3	2×150	60	Black	36	Pre-cut	S-605
	0	3.5	6×45	18	Black	24	Pre-cut, racetrac	S-196
	0	3.5	12×45	18	Black	24	Pre-cut	S-176
	0	3.5	12×60	24	Black	24	Pre-cut	S-346
	0	3.5	6×60	24	Black	36	Pre-cut	S-246
	0	3.5	12×75	30	Black	24	Pre-cut	S-316
	0	3.5	2×150	60	Black	36	Pre-cut	S-606
	1	4	6×45	18	Black	24	Pre-cut, racetrac	S-197
	1	4	6×45	18	Black	36	Pre-cut	S-187
	1	4	12×75	30	Black	24	Pre-cut	S-317
	1	4	2×150	60	Black	36	Pre-cut	S-607
	2	5	12×75	30	Black	24	Pre-cut	S-318
	2	5	2×150	60	Black	36	Pre-cut	S-608



PRE-CUT

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
	5	7	3 × 60	24	Black	36	Pre-cut	S-282
	5	7	2 × 150	60	Black	12	Pre-cut	S-610

NON-NEEDED-STANDARD LENGTH

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
	2	5	100	40	Black	36	Standard length	S-206
	4	6	180	72	Black	12	Standard length	S-199

REEL

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
	4-0	1.5	250	98	Black	24	Reel	LS-640
	3-0	2	250	98	Black	24	Reel	LS-639
	2-0	3	250	98	Black	24	Reel	LS-638
	0	3.5	250	98	Black	24	Reel	LS-637
	1	4	250	98	Black	24	Reel	LS-636

REVERSE CUTTING

Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
HE-6 3/8 Circle 7.4 mm Double-arm								
	7-0	0.5	45	18	Black	12		S-1768K
	6-0	0.7	45	18	Black	12	Surgalloy™	S-1769K
HE-5 3/8 Circle 8.6 mm Double-arm								
	6-0	0.7	30	12	Black	12	Surgalloy™	S-1746K





REVERSE CUTTING										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
HE-1 3/8 Circle 11.0 mm Double-arm		6-0	0.7	45	18	Black	12	Surgalloy™	S-1750K	
C-1 3/8 Circle 12.0 mm		6-0	0.7	45	18	Black	36		S-1172	
		5-0	1	45	18	Black	36		S-1173	
		4-0	1.5	45	18	Black	36		S-1174	
		4-0	1.5	75	30	Black	36		S-1373	
C-1 3/8 Circle 12.0 mm Double-arm		6-0	0.7	45	18	Black	12		S-1272	
		4-0	1.5	30	12	Black	12		S-1735	
		4-0	1.5	45	18	Black	12		S-1274	
HE-3 3/8 Circle 13.0 mm Double-arm		4-0	1.5	45	18	Black	12	Surgalloy™	S-1789K	
		4-0	1.5	45	18	Black	12	Surgalloy™	S-1783K	





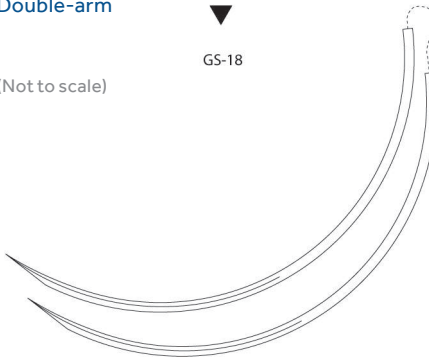
REVERSE CUTTING								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
C-12 3/8 Circle 16.0 mm 	6-0	0.7	45	18	Black	36		SS-681
	5-0	1	75	30	Black	36		SS-673
	4-0	1.5	45	18	Black	12		SS-686
	4-0	1.5	75	30	Black	36		SS-645
	3-0	2	75	30	Black	36		SS-745
	2-0	3	75	30	Black	36		SS-746
C-13 3/8 Circle 19.0 mm 	5-0	1	45	18	Black	36		SS-682
	5-0	1	75	30	Black	36		SS-652
	4-0	1.5	45	18	Black	12		SS-683G
	4-0	1.5	45	18	Black	36		SS-683
	4-0	1.5	75	30	Black	36		SS-653
	3-0	2	45	18	Black	36		SS-694
	3-0	2	75	30	Black	36		SS-654
	2-0	3	75	30	Black	36		SS-655
	0	3.5	75	30	Black	36		SS-656



REVERSE CUTTING									
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code	
	USP	EP	cm	Inches					
C-14 3/8 Circle 24.0 mm 	4-0	1.5	45	18	Black	36		SS-629	
	3-0	2	45	18	Black	36		SS-684	
	3-0	2	45	18	Black	12		SS-684G	
	3-0	2	75	30	Black	36		SS-784	
	2-0	3	45	18	Black	36		SS-695	
	2-0	3	75	30	Black	36		SS-785	
	0	3.5	75	30	Black	36		SS-786	
	1	4	75	30	Black	36		SS-787	
C-15 3/8 Circle 26.0 mm 	2-0	3	45	18	Black	12		SS-685G	
	2-0	3	45	18	Black	36		SS-685	
C-16 3/8 Circle 30.0 mm 	3-0	2	75	30	Black	36		SS-675	
	2-0	3	45	18	Black	36		SS-677	
	2-0	3	75	30	Black	36		SS-679	
	0	3.5	45	18	Black	36		SS-678	
	0	3.5	5 × 75	30	Black	24	D-Tach™	SS-70-M	
	0	3.5	75	30	Black	36		SS-680	
	1	4	75	30	Black	36		SS-689	





REVERSE CUTTING									
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code	
	USP	EP	cm	Inches					
C-17 3/8 Circle 39.0 mm  C-17	2-0	3	75	30	Black	36		SS-648	
	0	3.5	75	30	Black	36		SS-647	
	1	4	75	30	Black	36		SS-646	
	2	5	75	30	Black	36		SS-651	
GS-18 3/8 Circle 77.0 mm Double-arm  GS-18 (Not to scale)	2	5	75	30	Black	24		CS-482	
	5	7	75	30	Black	24		CS-485	
HE-7 1/2 Circle 7.4 mm Double-arm  HE-7	7-0	0.5	45	18	Black	12		S-1766K	
	6-0	0.7	45	18	Black	12	Surgalloy™	S-1765K	
C-21 1/2 Circle 13.0 mm  C-21	4-0	1.5	5 × 45	18	Black	24	D-Tach™	SS-82-M	





REVERSE CUTTING										
Needles Specifications			Size		Length		Color	Units	Comments	Reorder code
			USP	EP	cm	Inches				
C-22 1/2 Circle 20.0 mm		4-0	1.5	45	18	Black	36		SS-733	
C-23 1/2 Circle 24.0 mm		3-0	2	45	18	Black	36		SS-732	
		3-0	2	75	30	Black	36		SS-632	
		2-0	3	45	18	Black	36		SS-734	
		2-0	3	75	30	Black	36		SS-633	
GS-10 1/2 Circle 26.0 mm		2-0	3	45	18	Black	36		CS-390	
GS-11 1/2 Circle 37.0 mm		2-0	3	75	30	Black	36		CS-490	

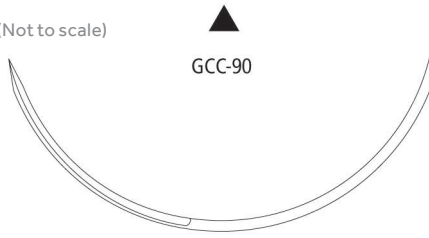
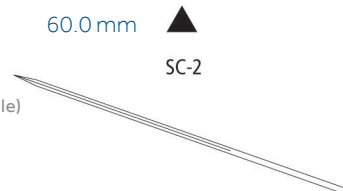


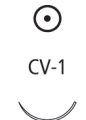


PREMIUM REVERSE CUTTING										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
P-10 3/8 Circle 11.0 mm		6-0	0.7	45	18	Black	36	Surgalloy™	SS-5639	
		6-0	0.7	45	18	Black	12	Surgalloy™	SS-1639G	
P-13 3/8 Circle 13.0 mm		6-0	0.7	45	18	Black	12	Surgalloy™	SS-5649G	
		5-0	1	45	18	Black	36	Surgalloy™	SS-5640	
		4-0	1.5	45	18	Black	12	Surgalloy™	SS-5641G	
		4-0	1.5	45	18	Black	36	Surgalloy™	SS-5641	
P-11 3/8 Circle 16.0 mm		5-0	1	45	18	Black	36	Surgalloy™	SS-5678	
P-12 3/8 Circle 19.0 mm		5-0	1	45	18	Black	36	Surgalloy™	SS-5676	
		4-0	1.5	45	18	Black	36	Surgalloy™	SS-5677	
		3-0	2	45	18	Black	36	Surgalloy™	SS-5679	
P-14 3/8 Circle 24.0 mm		3-0	2	45	18	Black	36	Surgalloy™	SS-5684	
		2-0	3	45	18	Black	12		SS-5685G	
P-24 1/2 Circle 16.0 mm		4-0	1.5	45	18	Black	12	Surgalloy™	SS-1694G	



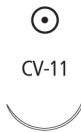


CONVENTIONAL CUTTING									
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code	
	USP	EP	cm	Inches					
GCC-90 3/8 Circle 90.0 mm (Not to scale) 	2-0	3	100	40	Black	36		CS-791	
	0	3.5	100	40	Black	36		CS-792	
	1	4	100	40	Black	36		CS-793	
	2	5	100	40	Black	36		CS-794	
SC-1 Straight Double-arm 51.0 mm (Not to scale) 	2-0	3	75	30	Black	36		SS-523	
	1	4	75	30	Black	36		SS-525	
SC-2 Straight 60.0 mm (Not to scale) 	4-0	1.5	75	30	Black	36		SS-621	
	3-0	2	75	30	Black	36		SS-622	
	3-0	2	100	40	Black	36		SS-722	
	2-0	3	75	30	Black	36		SS-623	
	2-0	3	100	40	Black	36		SS-723	
	0	3.5	75	30	Black	36		SS-624	

TAPER POINT									
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code	
	USP	EP	cm	Inches					
CV-1 3/8 Circle 9.0 mm 	6-0	0.7	45	18	Black	36	Surgalloy™	VS-802	
CV-1 3/8 Circle Double-arm 9.0 mm 	7-0	0.5	45	18	Black	36	Surgalloy™	VS-809	





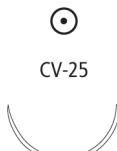
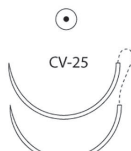
TAPER POINT										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
CV-11 3/8 Circle 13.0 mm		6-0	0.7	75	30	Black	36	Surgalloy™	VS-889	
		5-0	1	75	30	Black	36	Surgalloy™	VS-890	
		4-0	1.5	75	30	Black	36	Surgalloy™	VS-891	
CV-11 3/8 Circle 13.0 mm Double-arm		6-0	0.7	45	18	Black	36	Surgalloy™	VS-806	
		6-0	0.7	5 × 60	24	Black	12	Surgalloy™	VS-706-M	
		4-0	1.5	45	18	Black	36	Surgalloy™	VS-709	
CV-15 3/8 Circle 17.0 mm		5-0	1	75	30	Black	36	Surgalloy™	VS-880	
		4-0	1.5	75	30	Black	36	Surgalloy™	VS-881	
		3-0	2	75	30	Black	36	Surgalloy™	VS-882	
		2-0	3	75	30	Black	36	Surgalloy™	VS-823	
CV-15 3/8 Circle 17.0 mm Double-arm		4-0	1.5	60	24	Black	36	Surgalloy™	VS-581	



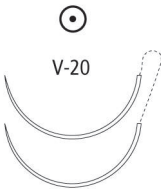
TAPER POINT										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
CVF-21 1/2 Circle 12.0 mm	 CVF-21	5-0	1	45	18	Black	36	Surgalloy™	CS-210	
		4-0	1.5	45	18	Black	36	Surgalloy™	CS-211	
CV-22 1/2 Circle 13.0 mm	 CV-22	4-0	1.5	5 × 45	18	Black	24	D-Tach™	GS-44-M	





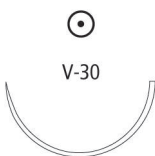
TAPER POINT										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
CV-23 1/2 Circle 17.0 mm		5-0	1	75	30	Black	36	Surgalloy™	VS-870	
		4-0	1.5	75	30	Black	36	Surgalloy™	VS-871	
		3-0	2	5 × 45	18	Black	24	D-Tach™	GS-47-M	
		3-0	2	75	30	Black	36	Surgalloy™	VS-872	
		2-0	3	75	30	Black	36	Surgalloy™	VS-873	
CV-24 1/2 Circle 20.0 mm		4-0	1.5	75	30	Black	36		GS-451	
		3-0	2	75	30	Black	36		GS-452	
		2-0	3	75	30	Black	36		GS-453	
CV-25 1/2 Circle 22.0 mm		4-0	1.5	5 × 45	18	Black	24	D-Tach™	GS-34-M	
		3-0	2	5 × 45	18	Black	24	D-Tach™	GS-33-M	
		3-0	2	5 × 75	30	Black	24	D-Tach™	GS-30-M	
CV-25 1/2 Circle 22.0 mm Double-arm		3-0	2	75	30	Black	36	Surgalloy™	VS-552	
GS-23 1/2 Circle 22.0 mm		2-0	3	75	30	Black	36		CS-562	



TAPER POINT										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
V-20 1/2 Circle 26.0 mm 	4-0	1.5	5 × 45	18	Black	24	D-Tach™	GS-64-M		
	4-0	1.5	75	30	Black	36		GS-831		
	3-0	2	5 × 45	18	Black	24	D-Tach™	GS-63-M		
	3-0	2	5 × 75	30	Black	24	D-Tach™	GS-67-M		
	3-0	2	75	30	Black	36		GS-832		
	2-0	3	5 × 45	18	Black	24	D-Tach™	GS-62-M		
	2-0	3	75	30	Black	36		GS-833		
	2-0	3	5 × 75	30	Black	24	D-Tach™	GS-66-M		
	0	3.5	75	30	Black	36		GS-834		
	1	4	75	30	Black	36		GS-835		
V-20 1/2 Circle 26.0 mm Double-arm 	2-0	3	90	36	Black	36	Surgalloy™	VS-533		
GS-22 1/2 Circle 27.0 mm 	2-0	3	5 × 45	18	Black	24	D-Tach™	CS-16-M		
	0	3.5	5 × 45	18	Black	24	D-Tach™	CS-17-M		





TAPER POINT											
Needles Specifications				Size		Length		Color	Units Per box	Comments	Reorder code
				USP	EP	cm	Inches				
V-30 1/2 Circle 30.0 mm 	3-0	2	75	30	Black	36		GS-822			
	2-0	3	75	30	Black	36		GS-823			
	0	3.5	75	30	Black	36		GS-824			
GS-21 1/2 Circle 37.0 mm 	2-0	3	75	30	Black	36		CS-423			
	0	3.5	5 × 45	18	Black	24	D-Tach™	CS-10-M			
	0	3.5	75	30	Black	36		CS-424			
	1	4	75	30	Black	36		CS-425			
V-26 1/2 Circle 37.0 mm 	3-0	2	75	30	Black	36		VS-842			
	2-0	3	75	30	Black	36		VS-843			
	0	3.5	75	30	Black	36		VS-844			
	1	4	75	30	Black	36		VS-845			
	1	4	2 × 75	30	White	24	D-Tach™	CS-745			
	1	4	75	30	White	36		CS-744			
	2	5	75	30	Black	36		VS-846			
	2	5	2 × 75	30	White	24	D-Tach™	CS-746			



HEAVY TAPER POINT										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
HGS-23 1/2 Circle 22.0 mm		HGS-23	2-0	3	5 × 45	18	Black	24	D-Tach™	CS-93-M
			0	3.5	5 × 45	18	Black	24	D-Tach™	CS-92-M
HGS-22 1/2 Circle 27.0 mm		HGS-22	0	3.5	5 × 45	18	Black	24	D-Tach™	CS-85-M
HGS-20 1/2 Circle 34mm		HGS-20	1	4	5 × 75	30	Black	12		X-1095

TAPERCUTTING										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
KV-5 1/2 Circle 17.0 mm	 KV-5 	3-0	2	75	30	Black	36	Surgalloy™	VS-863	
KV-7 1/2 Circle 26.0 mm	 KV-7 	2-0	3	75	30	Black	36	Surgalloy™	VS-964	
KV-34 1/2 Circle 37.0 mm	 KV-34 	1	4	2 × 75	30	White	12	D-Tach™	VS-766G	





SPATULA									
Needles Specifications		Size		Length		Color	Units Per box	Comments	Reorder code
		USP	EP	cm	Inches				
SE-100-8 1/4 Circle 6.3 mm Double-arm	 SE-100-8	8-0	0.4	45	18	Black	12	Surgalloy™	S-2176K
SS-14 1/4 Circle 8.6 mm Double-arm	 SS-14	6-0	0.7	45	18	Black	12	Surgalloy™	S-1780K
SS-24 1/4 Circle 8.6 mm Double-arm	 SS-24	6-0	0.7	45	18	Black	12	Surgalloy™	S-2780K
		4-0	1.5	45	18	White	12		S-2782K
SE-140-8 3/8 Circle 6.3 mm Double-arm	 SE-140-8	8-0	0.4	30	12	Black	12	Surgalloy™	S-2752K
		8-0	0.4	45	18	Black	12	Surgalloy™	S-1734K
		7-0	0.5	45	18	Black	12	Surgalloy™	S-1733K
		6-0	0.7	45	18	Black	12	Surgalloy™	S-1732K

V-LOC™ 90

Absorbable Wound Closure Device

Secure. Fast. Effective.†



**THE VLOC™ DEVICE
ADVANTAGE
NOW WITH STRONGER,
SHARPER NEEDLES***

Tensile Strength

Approximately 90% of initial tensile strength at 1 week, 75% at 2 weeks post implant.

Packaging

Available in USP and EP sizes 2–0 (3 metric) through 4–0 (1.5 Metric). The V-LOC™ 90 absorbable wound closure devices are available dyed violet or undyed (clear).

The devices are supplied sterile, in pre-cut lengths affixed to various needle types.

The devices are available in box quantities of one dozen.

Indications

Indicated for soft tissue approximation where use of an absorbable suture is appropriate. The safety and effectiveness of the V-LOC™ 90 absorbable wound closure device has not been established for use in fascial closures (abdominal wall, thoracic, extremity fascial closures), gastrointestinal anastomoses, cardiovascular anastomoses, neurological, ophthalmic, orthopedic or microsurgery.

Description

The V-Loc™ 90 absorbable wound closure device consists of a barbed absorbable thread, armed with a surgical needle at one end and a loop end effector at the other. The barb and loop end effector design allow for tissue approximation without the need to tie surgical knots. The V-Loc™ 90 absorbable wound closure device is prepared from a synthetic polyester composed of glycolide, dioxanone, and trimethylene carbonate. The absorbable wound closure device is available undyed or violet. The device is sterile, inert, noncollagenous and nonantigenic.

Indications

V-Loc™ 90 absorbable wound closure devices are indicated for soft tissue approximation where use of an absorbable suture is appropriate. The safety and effectiveness of the V-Loc™ 90 absorbable wound closure device has not been established for use in fascial closures (abdominal wall, thoracic, extremity fascial closures), gastrointestinal anastomoses, cardiovascular anastomoses, neurological, ophthalmic, orthopedic or microsurgery.

Actions

V-Loc™ 90 absorbable wound closure devices elicit a minimal acute inflammatory reaction in tissues, which is followed by a gradual encapsulation of the device by fibrous connective tissue. Progressive loss of tensile strength and eventual absorption of V-Loc™ 90 absorbable wound closure device occurs by means of hydrolysis where the device is broken down to glycolic acid, dioxanoic acid, propane diol and carbon dioxide which are subsequently absorbed and metabolized by the body.

Tensile Strength

Approximately 90% of initial tensile strength at 1 week, 75% at 2 weeks postimplant.

Sterilization

Ethylene oxide.

Absorbtion

Absorption begins as a loss of tensile strength without appreciable loss of mass. Animal data indicates that the absorption is essentially complete between 90 and 110 days.

Packaging

The V-Loc™ 90 absorbable wound closure devices are available in USP and EP sizes 2-0 (3 metric) through 4-0 (1.5 Metric). The V-Loc™ 90 absorbable wound closure devices are available dyed violet or undyed (clear). The devices are supplied sterile, in pre-cut lengths affixed to various needle types. The devices are available in box quantities of one dozen. Please refer to the individual package IFUs for complete instructions, indications, contraindications, warnings and precautions.

Please refer to the individual package IFUs for complete instructions, indications, contraindications, warnings and precautions.

* When compared with previous generation

† When compared with traditional suture

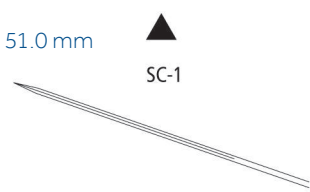
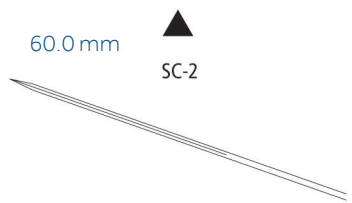
V-Loc™ 90 Absorbable

V-Loc™ 90 wound closure device is a uni-directional short-term absorbable knotless barbed suture.

PREMIUM REVERSE CUTTING											
Needles Specifications				Size		Length		Color	Units	Comments	Reorder code
				USP	EP	cm	Inches				
P-11 3/8 Circle 16.0 mm		4-0	1.5	30	12	Undyed	12	Surgalloy™	VLOCM1413		
		4-0	1.5	45	18	Undyed	12	Surgalloy™	VLOCM1423		
P-12 3/8 Circle 19.0 mm		4-0	1.5	15	6	Undyed	12	Surgalloy™	VLOCM0003		
		4-0	1.5	30	12	Undyed	12	Surgalloy™	VLOCM0013		
		4-0	1.5	45	18	Undyed	12	Surgalloy™	VLOCM0023		
		4-0	1.5	58	23	Undyed	12	Surgalloy™	VLOCM0033		
		3-0	2	15	6	Undyed	12		VLOCM0004		
		3-0	2	30	12	Undyed	12		VLOCM0014		
		3-0	2	45	18	Undyed	12		VLOCM0024		
		3-0	2	58	23	Undyed	12	Surgalloy™	VLOCM0034		
		2-0	3	15	6	Undyed	12		VLOCM0005		
		2-0	3	30	12	Undyed	12		VLOCM0015		
		2-0	3	45	18	Undyed	12		VLOCM0025		
		2-0	3	58	23	Undyed	12		VLOCM0035		

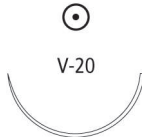


PREMIUM REVERSE CUTTING								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
P-14 3/8 Circle 24.0 mm 	4-0	1.5	30	12	Undyed	12	Surgalloy™	VLOCM0113
	4-0	1.5	45	18	Undyed	12	Surgalloy™	VLOCM0123
	4-0	1.5	58	23	Undyed	12	Surgalloy™	VLOCM0133
	3-0	2	30	12	Undyed	12	Surgalloy™	VLOCM0114
	3-0	2	45	18	Undyed	12	Surgalloy™	VLOCM0124
	3-0	2	58	23	Undyed	12	Surgalloy™	VLOCM0134
	2-0	3	30	12	Undyed	12		VLOCM0115
	2-0	3	45	18	Undyed	12		VLOCM0125
	2-0	3	58	23	Undyed	12		VLOCM0135
P-17 3/8 Circle 30.0 mm 	3-0	2	45	18	Undyed	12		VLOCM1824

CONVENTIONAL CUTTING								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
SC-1 Straight 51.0 mm 	3-0	2	45	18	Undyed	12	Reliapoint™	VLOCM1624
SC-2 Straight 60.0 mm 	4-0	1.5	45	18	Undyed	12	Reliapoint™	VLOCM0223
	3-0	2	45	18	Undyed	12		VLOCM0224





TAPER POINT										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
CV-15 3/8 Circle 17.0 mm		4-0	1.5	15	6	Violet	12		VLOCM1203	
		3-0	2	15	6	Violet	12	Surgalloy™	VLOCM1204	
CV-23 1/2 Circle 17.0 mm		4-0	1.5	23	9		12		VLOCM0843	
		4-0	1.5	30	12	Violet	12		VLOCM0813	
		3-0	2	15	6	Undyed	12	Surgalloy™	VLOCM1904	
		3-0	2	15	6	Violet	12	Surgalloy™	VLOCM0804	
		3-0	2	23	9	Undyed	12	Surgalloy™	VLOCM1944	
		3-0	2	23	9	Violet	12	Surgalloy™	VLOCM0844	
		3-0	2	30	12	Violet	12		VLOCM0814	
		3-0	2	45	18	Violet	12		VLOCM0824	
V-20 1/2 Circle 26.0 mm		4-0	1.5	15	6	Violet	12	Surgalloy™	VLOCM0603	
		4-0	1.5	45	18	Violet	12	Surgalloy™	VLOCM0623	
		3-0	2	15	6	Violet	12		VLOCM0604	
		3-0	2	15	6	Undyed	12	Surgalloy™	VLOCM2004	
		3-0	2	23	9	Violet	12	Surgalloy™	VLOCM0644	
		3-0	2	23	9	Undyed	12	Surgalloy™	VLOCM2044	
		3-0	2	30	12	Violet	12		VLOCM0614	
		3-0	2	45	18	Violet	12		VLOCM0624	
		2-0	3	45	18	Violet	12		VLOCM0625	





TAPER POINT										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
GS-22 1/2 Circle 27.0 mm		GS-22	2-0	3	15	6	Violet	12		VLOCM2105
			2-0	3	15	6	Undyed	12		VLOCM2205
			2-0	3	23	9	Violet	12		VLOCM2145
			2-0	3	23	9	Undyed	12		VLOCM2245
			2-0	3	30	12	Violet	12		VLOCM2115
V-30 1/2 Circle 30.0 mm		V-30	3-0	2	23	9	Violet	12		VLOCM1544
			2-0	3	23	9	Violet	12		VLOCM1545
GS-21 1/2 Circle 37.0 mm		GS-21	3-0	2	23	9	Violet	12		VLOCM0344
			3-0	2	45	18	Violet	12		VLOCM0324
			2-0	3	15	6	Violet	12		VLOCM0305
			2-0	3	23	9	Violet	12		VLOCM0345
			2-0	3	30	12	Violet	12		VLOCM0315
			2-0	3	45	18	Undyed	12		VLOCM3225
GU-46 5/8 Circle 27.0 mm		GU-46	3-0	2	15	6	Violet	12	Surgalloy™	VLOCM1704
			3-0	2	23	9	Violet	12		VLOCM1744



V-LOC™ 180

Absorbable Wound Closure Device

Secure. Fast. Effective.†



THE VLOC™ DEVICE
ADVANTAGE
**NOW WITH STRONGER,
SHARPER NEEDLES***

Tensile Strength

Approximately 80% of initial tensile strength at 1 week, 75% at 2 weeks, and 65% at 3 weeks post implant.

Packaging

Available in USP and EP sizes 4–0 (1.5 Metric) through 0 (3.5 Metric). The V-LOC™ 180 absorbable wound closure devices are dyed with D&C No. 6 or available Clear (Undyed).

The devices are supplied sterile, in pre-cut lengths affixed to various needle types. The devices are available in box quantities of one dozen.

Indications

Indicated for soft tissue approximation where use of an absorbable suture is appropriate. The safety and effectiveness of the V-LOC™ 180 absorbable wound closure device has not been established for use in fascial closures (abdominal wall, thoracic, extremity fascial closures), gastrointestinal anastomoses, cardiovascular anastomoses, neurological, ophthalmic, orthopedic or microsurgery.

Description

The V-Loc™ 180 absorbable wound closure device consists of a barbed absorbable thread, armed with a surgical needle at one end and a loop end effector at the other. The barb and loop end effector design allow for tissue approximation without the need to tie surgical knots. The V-Loc™ 180 absorbable wound closure device is prepared from a copolymer of glycolic acid and trimethylene carbonate. The absorbable wound closure device is available clear or green. The device is sterile, inert, noncollagenous and nonantigenic.

Indications

V-Loc™ 180 absorbable wound closure devices are indicated for soft tissue approximation where use of an absorbable suture is appropriate. The safety and effectiveness of the V-Loc™ 180 absorbable wound closure device has not been established for use in fascial closures (abdominal wall, thoracic, extremity fascial closures), gastrointestinal anastomoses, cardiovascular anastomoses, neurological, ophthalmic, orthopedic or microsurgery.

Actions

When implanted in animal tissue, V-Loc™ 180 absorbable wound closure devices elicit a minimal tissue reaction characteristic of foreign body response to substance. The tissue reaction resolves as the device is absorbed. Experimental animal studies for this absorbable material produced no evidence of antigenicity, systemic toxicity, carcinogenicity, mutagenicity, teratogenicity or adverse effects on reproductive performance.

Tensile Strength

Studies demonstrate the following approximate % of U.S.P. and E.P. knot pull minimum average specification for the labeled diameter size: Approximately 80% of initial tensile strength at 1 week, 75% at 2 weeks, and 65% at 3 weeks post implant.

Sterilization

Ethylene oxide.

Absorbtion

Animal data indicates that the absorption is minimal until about the 60th day after implantation. Absorption is substantially complete within six months.

Packaging

The V-Loc™ 180 absorbable wound closure devices are available in USP and EP sizes 4–0 (1.5 Metric) through 0 (3.5 Metric). The V-Loc™ 180 absorbable wound closure devices are dyed with D&C No. 6 or available Clear (Undyed). The devices are supplied sterile, in pre-cut lengths affixed to various needle types. The devices are available in box quantities of one dozen.

Please refer to the individual package IFUs for complete instructions, indications, contraindications, warnings and precautions.

* When compared with previous generation

† When compared with traditional suture

V-Loc™ 180 Absorbable

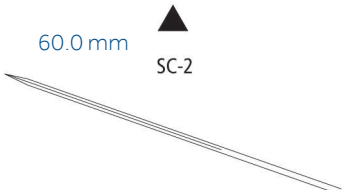
V-Loc™ 180 wound closure device is a uni-directional long-term absorbable knotless barbed suture.

REVERSE CUTTING									
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code	
	USP	EP	cm	Inches					
GS-11 1/2 Circle 37.0 mm 	2-0	3	30	12	Clear	12	Reliapoint™	VLOCL2815	
	0	3.5	45	18	Clear	12	Reliapoint™	VLOCL2826	

PREMIUM REVERSE CUTTING									
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code	
	USP	EP	cm	Inches					
P-11 3/8 Circle 16.0 mm 	4-0	1.5	30	12	Green	12		VLOCL1413	
P-12 3/8 Circle 19.0 mm 	4-0	1.5	15	6	Clear	12	Surgalloy™	VLOCL0003	
	4-0	1.5	30	12	Clear	12	Surgalloy™	VLOCL0013	
	4-0	1.5	45	18	Clear	12	Surgalloy™	VLOCL0023	
	4-0	1.5	58	23	Clear	12	Surgalloy™	VLOCL0033	
	3-0	2	15	6	Clear	12		VLOCL0004	
	3-0	2	30	12	Clear	12		VLOCL0014	
	3-0	2	45	18	Clear	12		VLOCL0024	
	3-0	2	58	23	Clear	12		VLOCL0034	
	2-0	3	30	12	Clear	12		VLOCL0015	
	2-0	3	45	18	Clear	12		VLOCL0025	

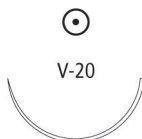
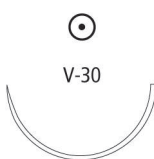


PREMIUM REVERSE CUTTING								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
P-14 3/8 Circle 24.0 mm 	4-0	1.5	45	18	Clear	12	Surgalloy™	VLOCL0123
	4-0	1.5	58	23	Clear	12	Surgalloy™	VLOCL0133
	3-0	2	30	12	Clear	12		VLOCL0114
	3-0	2	45	18	Clear	12		VLOCL0124
	3-0	2	60	24	Clear	12		VLOCL0134
	2-0	3	30	12	Clear	12		VLOCL0115
	2-0	3	45	18	Clear	12		VLOCL0125
	2-0	3	60	24	Clear	12		VLOCL0135

CONVENTIONAL CUTTING								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
SC-2 Straight 60.0 mm 	4-0	1.5	45	18	Clear	12		VLOCL0223
	3-0	2	45	18	Clear	12		VLOCL0224

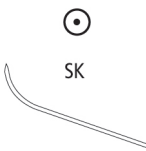
TAPER POINT								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
CV-23 1/2 Circle 17.0 mm 	4-0	1.5	15	6	Green	12		VLOCL0803
	4-0	1.5	30	12	Green	12	Surgalloy™	VLOCL0813
	3-0	2	15	6	Green	12		VLOCL0804
	3-0	2	15	6	Steel	12		VLOCL1904
	3-0	2	23	9	Green	12	Surgalloy™	VLOCL0844
	3-0	2	30	12	Green	12		VLOCL0814
	3-0	2	45	18	Green	12		VLOCL0824



TAPER POINT										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
V-20 1/2 Circle 26.0 mm 	4-0	1.5	15	6	Green	12		VLOCL0603		
	4-0	1.5	30	12	Green	12		VLOCL0613		
	3-0	2	15	6	Green	12		VLOCL0604		
	3-0	2	23	9	Green	12	Surgalloy™	VLOCL0644		
	3-0	2	30	12	Green	12	Surgalloy™	VLOCL0614		
	3-0	2	45	18	Green	12	Surgalloy™	VLOCL0624		
	2-0	3	30	12	Green	12		VLOCL0615		
	2-0	3	45	18	Green	12		VLOCL0625		
GS-22 1/2 Circle 27.0 mm 	2-0	3	15	6	Green	12		VLOCL2105		
	2-0	3	23	9	Green	12		VLOCL2145		
V-30 1/2 Circle 30.0 mm 	3-0	2	23	9	Green	12		VLOCL1544		
	2-0	3	23	9	Green	12		VLOCL1545		
GS-21 1/2 Circle 37.0 mm 	3-0	2	23	9	Green	12		VLOCL0344		
	3-0	2	45	18	Green	12		VLOCL0324		
	2-0	3	15	6	Green	12		VLOCL0305		
	2-0	3	23	9	Green	12		VLOCL0345		
	2-0	3	30	12	Green	12		VLOCL0315		
	2-0	3	45	18	Green	12		VLOCL0325		
	2-0	3	60	24	Green	12		VLOCL0335		
	0	3.5	15	6	Green	12		VLOCL0306		
	0	3.5	23	9	Green	12		VLOCL0346		
	0	3.5	30	12	Green	12		VLOCL0316		
	0	3.5	45	18	Green	12		VLOCL0326		
	0	3.5	60	24	Green	12		VLOCL0336		
GS-25 1/2 Circle 48.0 mm (Not to scale) 	0	3.5	30	12	Green	12		VLOCL0416		
	0	3.5	45	18	Green	12		VLOCL0426		
	0	3.5	60	24	Green	12		VLOCL0436		





TAPER POINT										
Needles Specifications			Size		Length		Color	Units	Comments	Reorder code
			USP	EP	cm	Inches				
SK SKI	23.0 mm		3-0	2	23	9	Green	12		VLOCL2744



V-LOC™ PBT

PBT Non Absorbable Wound Closure Device

Secure. Fast. Effective.†



Dual-Angle Cut



Dual-angle cut

Produces barbs with strong anchoring force while preserving the integrity of the strand's strength.

Tensile Strength

No known significant change in tensile retention occurs in vivo for the V-LOC™ PBT non-absorbable wound closure device.

Packaging

Available in USP and EP sizes 1 (4 Metric) through 3-0 (2 Metric). The V-LOC™ PBT nonabsorbable wound closure devices are pigmented with Copper Phthalocyanine Blue. The devices are supplied sterile, affixed to taperpoint needle types. The devices are available in box quantities of one dozen.

Indications

Indicated for soft tissue approximation where use of an absorbable suture is appropriate. The safety and effectiveness of the V-LOC™ 90 absorbable wound closure device has not been established for use in fascial closures (abdominal wall, thoracic, extremity fascial closures), gastrointestinal anastomoses, cardiovascular anastomoses, neurological, ophthalmic, orthopedic or microsurgery.



Description

The V-Loc™ Polybutester (PBT) non-absorbable wound closure device consists of a barbed non-absorbable thread, armed with a surgical needle at one end and a loop end effector at the other. The barb and loop end effector design allow for tissue approximation without the need to tie surgical knots. The V-Loc™ PBT nonabsorbable wound closure device is composed of a copolymer of butylene terephthalate and polytetramethylene ether glycol. The device is sterile, inert, noncollagenous and nonantigenic.

Indications

V-Loc™ PBT non-absorbable wound closure devices are indicated for soft tissue approximation. The safety and effectiveness of the V-Loc™ PBT non-absorbable wound closure device has not been established for use in fascial closures (abdominal wall, thoracic, extremity fascial closures), gastrointestinal anastomoses, cardiovascular anastomoses, neurological, ophthalmic, orthopedic or microsurgery.

Actions

Sofsil™ sutures elicit a minimal acute inflammatory reaction in tissue, which is followed by gradual encapsulation of the suture by fibrous connective tissue.

Tensile Strength

No known significant change in tensile retention occurs in vivo for the V-Loc™ PBT non-absorbable wound closure device.

Sterilization

Gamma irradiation.

Absorbtion

Permanent.

Packaging

The V-Loc™ PBT non-absorbable wound closure devices are available in USP and EP sizes 1 (4 Metric) through 3-0 (2 Metric). The V-Loc™ PBT non-absorbable wound closure devices are pigmented with Copper Phthalocyanine Blue. The devices are supplied sterile, affixed to taperpoint needle types. The devices are available in box quantities of one dozen.

Please refer to the individual package IFUs for complete instructions, indications, contraindications, warnings and precautions.

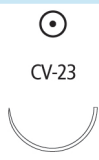
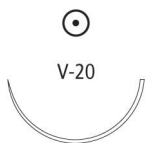
* When compared with previous generation

† When compared with traditional suture



V-Loc™ PBT

V-Loc™ PBT wound closure device is a uni-directional permanent knotless barbed suture.

TAPER POINT										
Needles Specifications			Size		Length		Color	Units Per box	Comments	Reorder code
			USP	EP	cm	Inches				
CV-23 1/2 Circle 17.0 mm		CV-23	3-0	2	30	12	Blue	12	Surgalloy™	VLOCN0814
V-20 1/2 Circle 26.0 mm		V-20	3-0	2	15	6	Blue	12		VLOCN0604
			3-0	2	23	9	Blue	12		VLOCN0644
			3-0	2	30	12	Blue	12	Surgalloy™	VLOCN0614
			2-0	3	15	6	Blue	12		VLOCN0605
			2-0	3	30	12	Blue	12		VLOCN0615
GS-22 1/2 Circle 27.0 mm		GS-22	0	3.5	45	18	Blue	12		VLOCN1126
GS-21 1/2 Circle 37.0 mm		GS-21	2-0	3	15	6		12		VLOCN0305
			2-0	3	45	18	Blue	12		VLOCN0325
			0	3.5	15	6	Blue	12		VLOCN0306
			0	3.5	45	18	Blue	12		VLOCN0326
			1	4	45	18	Blue	12		VLOCN0327
GS-25 1/2 Circle 48.0 mm		GS-25	1	4	60	24	Blue	12		VLOCN0437





PLEDGETS

Non-Absorbable, undyed fabrics constructed of PTFE

Simple strength. Secure placement.



Oval pledgets provide you with the same performance you have come to expect from our existing product line, just in a different shape to better meet your cardiovascular procedural needs.

Like our rectangular pledgets, the oval pledgets act as a buttress under sutures when there is a possibility of sutures tearing through tissue.¹ They are inert² — plus they have adequate stiffness, yet do not fall apart.[†]

Compared to rectangular pledgets:



Oval pledgets conform better to the shape of the anatomical structure and result in less foreign mass in the body²



The lack of corners prevents the oval pledget from catching the wrong orientation and the edges are less likely to overlap²



Soft oval pledgets are compliant, yet not fuzzy²





Description

PTFE Pledgets are non-absorbable, undyed fabrics composed of poly (tetrafluoroethylene).

Indications

PTFE Pledgets are indicated for use as non-absorbable suture buttresses when there is a possibility of sutures tearing through tissue. These pledgets are used in various surgical procedures such as vascular closure, septal repair, myocardial closure, valvular suturing and hepatic repair.

Actions

PTFE Pledgets elicit a minimal acute inflammatory reaction in tissues, followed by gradual encapsulation of the fabric by fibrous connective tissue.

Absorption

PTFE Pledgets are not absorbed, nor is any significant change in tensile strength retention known to occur in vivo.

Packaging

PTFE Pledgets are available sterile, prepunched, square , rectangular or oval in shape and in box quantities of 3 dozen.

1. Oval pledget [instructions for use]. Minneapolis, MN: Medtronic, 2015.
2. Based on survey of 6 CV surgeons in two cities - NYC and Chicago. HMV Report: Pledget Usability Lab Focus Group, conducted on June 10, 2015. — 06-10-15 , 06-10-16, 06-10-17, 06-10-18, 06-10-20, 06-10-22, 06-10-25, 06-10-28.
3. Medtronic R&D Engineering Report. Report Number: RE00017984. Determination of Pledget Removal Force. Aug. 7, 2015.





PLEDGETS

CATEGORY								
Needles Specifications	Size		Length		Color	Units Per box	Comments	Reorder code
	USP	EP	cm	Inches				
						36	Pledgets 4.5mm x 6mm SOFT	VPG56SE
						36	Pledgets 4.5mm x 6mm FIRM	VPG56FE
						36	Pledgets 3mm x 6mm SOFT	VPG36SE
						36	Pledgets 3mm x 6mm FIRM	VPG36FE
						36	3mm x 7mm FIRM	8886867701
						36	3mm x 3mm FIRM 10 pledgets per envelope	8886867501
						36	Pledgets 3mm x 7mm SOFT	8886868201
						36	Pledgets 4.8mm x 9.5mm SOFT 5 per pouch	8886867901
						36	Pledgets 4.8mm x 9.5mm FIRM 5 per pouch	8886867801







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For more information, please visit
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IMPORTANT: Please refer to the package insert for complete instructions, contraindications, warnings and precautions.

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