Masters HP[™] Mechanical Heart Valve (Page 1 of 2)

Aortic Valves

Product Highlights

- Sewing cuff redesigned to facilitate supra-annular placement, allowing for an increase in orifice size for a given tissue annulus diameter
- Increased effective orifice area (EOA), lower pressure gradients, and improved performance^{3,4,7-9}
- 85 degree leaflet opening angle offers improved laminar flow and reduces turbulence²⁻⁴
- Controlled torque rotation mechanism allows for easy rotation and intraoperative adjustment
- St. Jude Medical heart valves are MR conditional⁵

Ordering Information

Contents: Aortic Valve (1 unit per box)

Model/Reorder Number	Tissue Annulus Diameter (mm)	Valve Orifice Inner Diameter (mm)	Geometric Orifice Area (cm²)	Effective Orifice Area ⁶ (cm ²)	Cuff Style
17AHPJ-505	17	14.8	1.63	1.16	Standard
19AHPJ-505	19	16.7	2.06	1.51	Standard
21AHPJ-505	21	18.6	2.55	2.03	Standard
23AHPJ-505	23	20.4	3.09	2.59	Standard
25AHPJ-505	25	22.5	3.67	3.08	Standard
27AHPJ-505	27	24.2	4.41	3.73	Standard



Product referenced is approved for CE Mark.



Masters HP[™] Mechanical Heart Valve (Page 2 of 2)

Aortic Valves

Product Highlights

- Sewing cuff redesigned to facilitate supra-annular placement, allowing for an increase in orifice size for a given tissue annulus diameter
- Increased effective orifice area (EOA), lower pressure gradients, and improved performance^{3,4,7-9}
- 85 degree leaflet opening angle offers improved laminar flow and reduces turbulence^{2,4}
- Controlled torque rotation mechanism allows for easy rotation and intraoperative adjustment
- The expanded HP cuff has approximately 15% more cuff than the standard HP cuff
- St. Jude Medical heart valves are MR conditional⁵

Ordering Information

Contents: Aortic Valve (1 unit per box)

Model/Reorder Number	Tissue Annulus Diameter (mm)	Valve Orifice Inner Diameter (mm)	Geometric Orifice Area (cm²)	Effective Orifice Area (cm²)	Cuff Style
17AEHPJ-505	17	14.8	1.63	1.16	Expanded
19AEHPJ-505	19	16.7	2.06	1.51	Expanded
21AEHPJ-505	21	18.6	2.55	2.03	Expanded
23AEHPJ-505	23	20.4	3.09	2.59	Expanded
25AEHPJ-505	25	22.5	3.67	3.08	Expanded
27AEHPJ-505	27	24.2	4.41	3.73	Expanded



Product referenced is approved for CE Mark.





SJM Declaration of Conformity Mechanical Heart Valves and Valved Grafts

St. Jude Medical (SJM) hereby declares that the following SJM facilities and products conform to the applicable provisions of Annex II of the Medical Device Directive (MDD) 93/42/EEC as amended by 2007/47/EC. Valved Graft products containing bovine material conform to Regulation 722/2012. All supporting documentation is retained under the premises of SJM. We declare no application has been lodged with any other notified body for the same products. This declaration is issued under the sole responsibility of the manufacturer. This declaration supersedes any declaration issued previously for the same product(s).

Manufacturer Address:	St. Jude Medical 177 County Road B East St. Paul, Minnesota 55117 USA
European Representative:	St. Jude Medical Coordination Center BVBA The Corporate Village Da Vincilaan 11 Box F1 1935 Zaventem, Belgium
Product Type:	Mechanical Heart Valves Valved Grafts Annuloplasty Rings
Product Name(s):	SJM Masters Series (Rotatable) SJM Regent Valve (Rotatable) SJM™ Masters Series Aortic Valved Graft with Hemashield™ graft technology SJM Masters HP™ Valved Graft with Gelweave Valsalva™ Technology Rigid Saddle Ring St. Jude Medical Seguin Annuloplasty Ring Tailor Annuloplasty Ring Tailor Annuloplasty Band
Model Number(s):	See attached.
Classification:	Mechanical Heart Valves: Class III per MDD, Annex IX, rule 8
	Valved Grafts: Class III per MDD, Annex IX, rule 17
	Annuloplasty Rings: Class III per MDD, Annex IV, rule 8
GMDN Code(s):	Mechanical Heart Valves: • Aortic – 60240 • Mitral - 60241 Valved Grafts: • Aortic - 60423 Annuloplasty Rings: • Mitral - 45577

Mitral/Tricuspid - 45578



SJM Declaration of Conformity **Mechanical Heart Valves and Valved Grafts**

Original CE Mark Date: See attached.

Certificate No: CE 578287 FQA Certificate No and expiration date:

Expiration Date: 26 May 2024

Annex II DE Certificate No and expiration

date:

Applicable Quality System Standards: ISO 13485: 2016

Notified Body: BSI Group The Netherlands B.V.

Say Building

See attached.

John M. Keynesplein 9 1066 EP Amsterdam The Netherlands

Notified Body Number: 2797

Manufacturing Facilities: St. Jude Medical

177 County Road B East

St. Paul, Minnesota 55117 USA

St. Jude Medical Puerto Rico LLC Lot 20-B Street

Caguas West Industrial Park Caguas, Puerto Rico 00725

Signature:

Digitally signed by Angie Riascos Date: 2020.05.20

08:56:59 -05'00'

Angie Riascos

Manager, Regulatory Affairs

20 May, 2020

Issue Date

Mechanical Valve Products

SJM Masters Series (Rotatable) EC Certificate No.: CE 578290 Expiration Date: 17 February 2024
Aortic Hemodynamic Plus (HP), size 15mmAHPJ-505 Original CE Mark Date: 21 Aug 2019
Mitral Hemodynamic Plus (HP), size 15mmMHPJ-505 Original CE Mark Date: 21 Aug 2019
Aortic Hemodynamic Plus (HP), sizes 17-27mmAHPJ-505 Original CE Mark Date: 13 Sep 1995
Aortic Standard Cuff-Polyester, sizes 19-31mm
Mitral Standard Cuff-Polyester, sizes 35-37mmMJ-501 Original CE Mark Date: 02 Nov 1998
Aortic Standard PTFE cuff, sizes 19-31mm
SJM Regent Valve (Rotatable) EC Certificate No.: CE 578290 Expiration Date: 17 February 2024
Aortic standard cuff - polyester, sizes 17 - 29mm
Valve Repair Products
Rigid Saddle Ring EC Certificate No.: CE 578289 Expiration Date: 30 March 2024
Rigid Saddle Ring, sizes 24 – 34mmRSAR-(size) Original CE Mark Date: 24 Feb 2005

St. Jude Medical Sequin Annuloplasty Ring

EC Certificate No.: CE 578288 Expiration Date: 14 May 2024

St. Jude Medical Seguin Annuloplasty Ring, sizes 24-40mmSARP-(size)

Original CE Mark Date: 28 Jan 2002

Tailor Annuloplasty Ring

EC Certificate No.: CE 578289 Expiration Date: 30 March 2024

Tailor Annuloplasty Ring, sizes 25-35mm......TARP-(size)

Original CE Mark Date: 28 Jan 2002

Tailor Annuloplasty Band

EC Certificate No.: CE 578289 Expiration Date: 30 March 2024

Tailor Annuloplasty Band, sizes 25-35mm......TAB-(size)

Original CE Mark Date: 24 Oct 2002

Valved Grafts¹

SJMTM Masters Series Aortic Valved Graft with HemashieldTM graft technology

EC Certificate No.: CE 578292 Expiration Date: 26 May 2024

SJM[™] Masters Series Aortic Valved Graft with Hemashield[™] graft technology

Sizes 19 – 33mm......CAVGJ-514 00

Original CE Mark Date: 04 May 2001

SJM Masters HP™ Valved Graft with Gelweave Valsalva™ Technology

EC Certificate No. : CE 578291 Expiration Date: 26 May 2024

SJM Masters HP™ Valved Graft with Gelweave Valsalva™ Technology

Sizes 19 – 29mmVAVGJ-515

Original CE Mark Date: 19 Aug 2005

Page 2 of 2





Directive 93/42/EEC on Medical Devices, Annex II excluding Section 4

No. CE 578287

Issued To: St. Jude Medical

177 County Road B East

St Paul Minnesota 55117 USA

In respect of:

Design and manufacture of Mechanical and Tissue Heart Valves, Transcatheter Heart Valves, Valved Grafts, Annuloplasty Rings and Related Accessories.

on the basis of our examination of the quality assurance system under the requirements of Council Directive 93/42/EEC, Annex II excluding section 4. The quality assurance system meets the requirements of the directive. For the placing on the market of class III products an Annex II section 4 certificate is required.

For and on behalf of BSI, a Notified Body for the above Directive (Notified Body Number 2797):

Gary E Slack, Senior Vice President Medical Devices

Gay C Stade

First Issued: **2012-01-30** Date: **2019-12-11** Expiry Date: **2024-05-26**

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Page 1 of 4





Supplementary Information to CE 578287

Issued To: St. Jude Medical

177 County Road B East

St Paul Minnesota 55117 USA

Number	Device Name	Intended Purpose per IFU
Class III		
	Masters Series Mechanical Heart Valve – Mechanical Heart Valves	See CE 578290
	Masters Series Mechanical Heart Valve with Expanded Polyester Sewing Cuff – Mechanical Heart Valves	
	Masters Series Mechanical Heart Valve with PTFE Sewing Cuff – Mechanical Heart Valves	
	 Masters Series Mechanical Heart Valve with Expanded PTFE Sewing Cuff – Mechanical Heart Valves 	
	 Masters Series Mechanical Heart Valve with Hemodynamic Plus (HP) Sewing Cuff – Mechanical Heart Valves 	2 d d d 3 d
	 Masters Series Mechanical Heart Valve with Expanded Hemodynamic Plus (HP) Sewing Cuff – Mechanical Heart Valves 	
	Regent Heart Valve – Mechanical Heart Valves	3005 \ []
	Regent Heart Valve with FlexCuff – Mechanical	434
	Heart Valves	

First Issued: **2012-01-30** Date: **2019-12-11** Expiry Date: **2024-05-26**

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Page 2 of 4





Supplementary Information to CE 578287

Issued To: St. Jude Medical

177 County Road B East

St Paul Minnesota 55117 USA

Number	Device Name	Intended Purpose per IFU
Class III		A DESTRUCTION
	Masters HP Valved Graft with Gelweave Valsalva Technology (VAVGJ) – Valved Grafts	See CE 578291
	Masters Valved Graft with Hemashield Graft Technology (CAVGJ) – Valved Grafts	See CE 578292
	Tailor Annuloplasty Ring and Tailor Annuloplasty Band – Annuloplasty Rings Rigid Saddle Ring Annuloplasty Ring – Annuloplasty Rings	See CE 578289
	Seguin Annuloplasty Ring – Annuloplasty Rings	See CE 578288
	Portico Transcatheter Aortic Heart Valve System – Transcatheter Heart Valves	See CE 585003
	Trifecta and Trifecta GT – Tissue Heart Valves	See CE 617862
	Biocor, Epic and Epic Supra – Tissue Heart Valves	See CE 617865

First Issued: **2012-01-30** Date: **2019-12-11** Expiry Date: **2024-05-26**

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Page 3 of 4





Supplementary Information to CE 578287

Issued To: St. Jude Medical

177 County Road B East

St Paul Minnesota 55117 USA

Number	Device Name	Intended Purpose per IFU
Class IIa		A COLOR
MD0106, MDS7006	Mechanical Heart Valve Leaflet Tester – Related Accessories	
MD0106	 Masters Series Mechanical Heart Valve Replacement Holder/Rotators – Related Accessories Masters Series Hemodynamic Plus (HP) Mechanical Heart Valve Replacement Holder/Rotators – Related Accessories Regent Mechanical Heart Valve Replacement Holder/Rotators – Related Accessories Rigid Saddle Ring Annuloplasty Sizer Set – Related Accessories Tailor Annuloplasty Ring Sizer Set – Related Accessories Tailor Ring Robotic Sizer Set – Related Accessories Seguin Annuloplasty Ring Sizer Set – Related Accessories Mechanical Heart Valve Sizer – Related Accessories Regent Mechanical Heart Valve Sizer Set – Related Accessories Trifecta Valve Series Sizer Set – Related Accessories Bioprosthetic Heart Valve Sizer Set – Related Accessories 	

First Issued: **2012-01-30** Date: **2019-12-11** Expiry Date: **2024-05-26**

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Page 4 of 4





Directive 93/42/EEC on Medical Devices, Annex II excluding Section 4

List of Significant Subcontractors

Recognised as being involved in services relating to the product covered by:

Certificate No: **CE 578287**

Date: 2019-12-11
Issued To: St. Jude Medical

177 County Road B East

St Paul Minnesota 55117 USA

Subcontractor:

Service(s) supplied

Abbott Medical 5050 Nathan Lane North

Plymouth Minnesota 55442 USA Manufacture

Abbyland PorkPak Inc. 539 North Meridian Street

Curtiss Wisconsin 54422 USA **Animal Tissues / Derivatives**

Agrodanieli Indústria e Comércio Ltda Rodivia 463, KM 14,5

Rodivia 463, KM 14,5 Disrito Industrial Vila Langaro Rio Grande do Sul Brasil **Animal Tissues / Derivatives**





Directive 93/42/EEC on Medical Devices, Annex II excluding Section 4

List of Significant Subcontractors

Recognised as being involved in services relating to the product covered by:

Certificate No: **CE 578287**Date: **2019-12-11**

Issued To: St. Jude Medical

177 County Road B East

St Paul Minnesota 55117 USA

Subcontractor:

Service(s) supplied

Agropecuária Bolson Ltda.

(Bolson)

Rua Vereador Waldomiro Franco de

Souza, S/N - Zona Suburbana

Toledo Paraná

Parana Brasil

Animal Tissues / Derivatives

Animal Tissues / Derivatives

Bierig Brothers Inc. 3539 Reilly Ct.

Vineland

New Jersey

08360

USA

BRF - Brasil Foods S.A.

Rua Senador Atilio Fontana, 86,

Concordia/SC

Brasil

Animal Tissues / Derivatives





Directive 93/42/EEC on Medical Devices, Annex II excluding Section 4

List of Significant Subcontractors

Recognised as being involved in services relating to the product covered by:

Certificate No: **CE 578287**Date: **2019-12-11**

Issued To: St. Jude Medical

177 County Road B East

St Paul Minnesota 55117 USA

Subcontractor:

Service(s) supplied

Frigoestrela S.A. Estrada Vicinal Romão Lopes Martins, S/N - KM 0+700M, Jardim Marabá, Tupã/SP

Jardim Marabá, Ti Brasil **Animal Tissues / Derivatives**

Frigorifico Miolar Ltda

Estrada para Fazenda Mazurana S/N,

Dois Vizinhos/PR

Brasil

Animal Tissues / Derivatives

Frimesa Cooperativa Central

Rua Bahia, 159, Medianeira/PR

Brasil

Animal Tissues / Derivatives

Hereaus Medical Components, LLC

5030 Centerville Road

St. Paul Minnesota 55127

USA

Manufacture





Directive 93/42/EEC on Medical Devices, Annex II excluding Section 4

List of Significant Subcontractors

Recognised as being involved in services relating to the product covered by:

Certificate No: **CE 578287** Date: 2019-12-11

Issued To: St. Jude Medical

177 County Road B East

St Paul **Minnesota** 55117 USA

Subcontractor:

Service(s) supplied

InterVascular SAS Z.I. Athélia 1 13705 La Ciotat Cedex Manufacture

France

(IDV) Rodovia BR 116, KM 116 Caixa Postal 04 - Bairro: Campo Alto - Santa Cecilia

Santa Catarina

Irmãos do Valle

Brasil

Animal Tissues / Derivatives

Isomedix Operations, Inc. 380 90th Avenue NW Minneapolis Minnesota 55433 USA

ETO Sterilization





Animal Tissues / Derivatives

Directive 93/42/EEC on Medical Devices, Annex II excluding Section 4

List of Significant Subcontractors

Recognised as being involved in services relating to the product covered by:

Certificate No: **CE 578287** 2019-12-11

Issued To: St. Jude Medical

177 County Road B East

St Paul **Minnesota** 55117 USA

Service(s) supplied **Subcontractor:**

JBS Aves Ltda Rua João Andriollo, 1167, Ana Rech Caxias do Sul/RS

Brasil

Date:

JBS S.A. **Animal Tissues / Derivatives**

Parque Industrial S/N Distrito Industrial, LINS/SP

Brasil

JBS S.A. **Animal Tissues / Derivatives**

Rodovia, GO 164, Km 167 S/N, Zona Rural, Mozarlândia/GO

Brasil

JBS S.A. **Animal Tissues / Derivatives**

Rua Principal S/N, Vila Miisa, Ituiutaba/MG

Brasil





Directive 93/42/EEC on Medical Devices, Annex II excluding Section 4

List of Significant Subcontractors

Recognised as being involved in services relating to the product covered by:

Certificate No: **CE 578287**Date: **2019-12-11**

Issued To: St. Jude Medical

177 County Road B East

St Paul Minnesota 55117 USA

Subcontractor:

Service(s) supplied

JBS S.A. Facility I

Av. Duque de Caxias 7255

Vila Nova

Campo Grande/MS

Brasil

Animal Tissues / Derivatives

Animal Tissues / Derivatives

Mac Frios Rod. Antônio de Paiva Cantelmo, PR 566- KM 02, Zona Rural, Francisco Beltrão/PR

Brasil

Animal Tissues / Derivatives

Marcho Farms Inc. 519 Allentown Road Franconia Pennsylvania 18924 USA





Directive 93/42/EEC on Medical Devices, Annex II excluding Section 4

List of Significant Subcontractors

Recognised as being involved in services relating to the product covered by:

Certificate No: **CE 578287**Date: **2019-12-11**

Issued To: St. Jude Medical

177 County Road B East

St Paul Minnesota 55117 USA

Subcontractor:

USA

Australia

Service(s) supplied

Midwest Sterilization Corporation 1204 Lenco Avenue Jackson Missouri 63755 **ETO Sterilization**

Oakey Abattoir Lot 1, Oakey Connection Road, Oakey QLD 4401 **Animal Tissues / Derivatives**

P&N Packaging Inc. 11627 Route 187 Wyalusing Pennsylvania 18853 USA **Animal Tissues / Derivatives**





Directive 93/42/EEC on Medical Devices, Annex II excluding Section 4

List of Significant Subcontractors

Recognised as being involved in services relating to the product covered by:

Certificate No: **CE 578287**Date: **2019-12-11**

Issued To: St. Jude Medical

177 County Road B East

St Paul Minnesota 55117 USA

Subcontractor:

Service(s) supplied

Phillips-Medisize, LLC 705 Wisconsin Drive New Richmond Wisconsin 54017 Manufacture

POCO Graphite, Inc. an Entegris Company 300 Old Greenwood Road Decatur **Crucial Supplier**

Decatur Texas 76234

USA

USA

Quality Central de Esterilização Estrada Celso Charur, i23 Aracoiaba de Serra Sao Paulo 18190-000 Brasil **ETO Sterilization**





Directive 93/42/EEC on Medical Devices, Annex II excluding Section 4

List of Significant Subcontractors

Recognised as being involved in services relating to the product covered by:

Certificate No: **CE 578287**Date: **2019-12-11**

Issued To: St. Jude Medical

177 County Road B East

St Paul Minnesota 55117 USA

Subcontractor:

Service(s) supplied

Rio Branco Alimentos S.A. (Pif Paf) BR 365 Km 455, Patrocínio/MG **Animal Tissues / Derivatives**

Patrocínio/M Brasil

Seara Alimentos Ltda Rua Tranquilo Damo, 209 -Santo Antonio, Frederico Westphalen/RS

Brasil

Animal Tissues / Derivatives

Sioux-Preme Packing Company 4241 U.S. 75 Ave Sioux Center

Iowa

1250 USA **Animal Tissues / Derivatives**





Directive 93/42/EEC on Medical Devices, Annex II excluding Section 4

List of Significant Subcontractors

Recognised as being involved in services relating to the product covered by:

Certificate No: **CE 578287**

Date: 2019-12-11

Issued To: St. Jude Medical

177 County Road B East

St Paul Minnesota 55117 USA

Subcontractor:

Manufacture

Service(s) supplied

St. Jude Medical 14901 DeVeau Place Minnetonka Minnesota 55345-2126 USA

St. Jude Medical 177 County Road B East

St. Paul Minnesota 55117 USA Final Inspection
Labelling
Manufacture
Moist Heat Sterilization
Packaging

St. Jude Medical Brasil Ltda. Rua Professor Jose Vierra de Mendonca 1301 Bairro Engenho Nogueira Pampulha, Belo Horizonte Minas Gerais 31.310-026 Brasil Manufacture





Directive 93/42/EEC on Medical Devices, Annex II excluding Section 4

List of Significant Subcontractors

Recognised as being involved in services relating to the product covered by:

Certificate No: **CE 578287**Date: **2019-12-11**

Issued To: St. Jude Medical

177 County Road B East

St Paul Minnesota 55117 USA

Subcontractor:

Service(s) supplied

St. Jude Medical Coordination Center BVBA The Corporate Village Da Vincilaan 11 Box F1

1935 Zaventem Belgium **EU Representative Labelling**

Packaging Packaging

St. Jude Medical Costa Rica Ltda.

Edificio #44
Calle 0, Ave. 2
Zona Franca Coyol
El Coyol, Alajuela
Costa Rica

Manufacture

St. Jude Medical PR LLC Caguas West Industrial Park

Lot 20 Caguas 00725 Puerto Rico Final Inspection
Manufacture
Moist Heat Sterilization





Directive 93/42/EEC on Medical Devices, Annex II excluding Section 4

List of Significant Subcontractors

Recognised as being involved in services relating to the product covered by:

Certificate No: **CE 578287**Date: **2019-12-11**

Issued To: St. Jude Medical

177 County Road B East

St Paul Minnesota 55117 USA

Subcontractor:

Service(s) supplied

St. Jude Medical Puerto Rico LLC Lot A Interior - #2 Rd Km. 67.5 Santana Industrial Park Arecibo

Puerto Rico 00612 USA **ETO Sterilization**

Sterigenics Costa Rica S.R.L. Zona Franca Propark Calle Principal, Edificio 10, El Coyol Alajuela

Alajuela 20101 Costa Rica **ETO Sterilization**

Sterigenics US, LLC 7775 South Quincy Willowbrook Illinois 60527 USA **ETO Sterilization**





Directive 93/42/EEC on Medical Devices, Annex II excluding Section 4

List of Significant Subcontractors

Recognised as being involved in services relating to the product covered by:

Certificate No:

CE 578287

Date:

2019-12-11

Issued To:

St. Jude Medical

177 County Road B East

St Paul Minnesota 55117 USA

Subcontractor:

Service(s) supplied

Sterigenics US, LLC 5725 West Harold Gatty Drive Salt Lake City

Salt Lake City Utah

84116 USA **ETO Sterilization**

Steris Isomedix Puerto Rico LLC

State Road 690

KM 1.7 Barrio Sabana Hoyos

Vega Alta 00692 Puerto Rico

USA

Gamma Irradiation

Teys Australia Southern, Tamworth

Phoenix street

Tamworth, NSW 2340

Australia

Animal Tissues / Derivatives





Directive 93/42/EEC on Medical Devices, Annex II excluding Section 4

List of Significant Subcontractors

Recognised as being involved in services relating to the product covered by:

Certificate No: **CE 578287**Date: **2019-12-11**

Issued To: St. Jude Medical

177 County Road B East

St Paul Minnesota 55117 USA

Subcontractor:

Service(s) supplied

Vascutek Limited Newmains Avenue Inchinnan PA4 9RR United Kingdom Animal Tissues / Derivatives Manufacture





EC Certificate - Full Quality Assurance System Certificate History

Certificate No: **CE 578287**Date: **2019-12-11**

Issued To: St. Jude Medical

177 County Road B East

St Paul Minnesota 55117 USA

Date Reference Number		Action		
30 January 2012	7727627	First issue of mirror certificate to CE 544668.		
8 June 2012	7816634	Addition of significant subcontractor for sterilization to St Jude Medical Puerto Rico LLC for VAVGJ devices.		
16 November 2012	7910273	Transcatheter valves added to the scope. Addition of St Jude Medical (Minnetonka), St Jude Medical (Maple Grove), Marcho Farms and Abbyland PorkPak to the of subcontractors.		
13 December 2012	7930677	Update to subcontractor address St Jude Medical PR LLC.		
16 January 2013	7943381	St Jude Medical (Costa Rica) added to the list of subcontractors.		
18 April 2013	7984806	St Jude Medical (Maple Grove) removed from the list of subcontractors.		
10 November 2013	8071312	Addition of significant subcontractor InterVascular SAS (Maquet) La Ciotat France facility as a fabric supplier for SJM Mechanical Heart Valves, Valved Grafts and Annuloplasty Rings.		
19 November 2014	8245105	Certificate renewal.		
01 December 2014	8194269	Tissue valves and pericardial patches added to the scope (transferred from another Notified Body). St Jude Medical Brasil, Phillips Plastics and bovine porcine abattoirs added to the list of subcontractors.		

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Page 1 of 3

Validity of this certificate is conditional on the quality system being maintained to the requirements of the Directive as demonstrated through the required surveillance activities of the Notified Body. This approval excludes all products designed and/or manufactured by a third party on behalf of the company named on this certificate, unless specifically agreed with BSI.





EC Certificate - Full Quality Assurance System Certificate History

Certificate No:

CE 578287

Date:

2019-12-11

Issued To:

St. Jude Medical

177 County Road B East

St Paul Minnesota 55117 USA

Date	Reference Number	Action
16 March 2015	8297445	Addition of Packaging & Labelling to activities of St. Jude Medical Coordination Center BVBA.
08 July 2015	8288225	Addition of the US abattoir Greater Omaha Packaging Company as a Bovine Tissue Source for Trifecta™ Heart Valve. Removal of subcontractors STERIS Spartanburg and Maquet Cardiovascular.
03 August 2015	8351515	Addition of Brazilian abbatoirs Frigorifico K-Celet Alimentos, Primaz Frigorifico Ltda, and SBR Suinos Brazil Ltda as porcine cusps suppliers for the manufacture of the Biocor, Epic and Epic Supra Heart Valves.
07 December 2015	8433259	Addition of Sterigenics US, LLC, Willowbrook, IL as a significant subcontractor for ETO sterilization.
01 August 2016	8520657	JBS S.A. Facility I added as a bovine pericardium supplier.
23 January 2017	8632751	Removal of subcontractor W&G Marketing.
30 March 2017	8576083	Addition of Agropecuária Bolson Ltda., Irmãos do Valle and W&G Marketing Company as animal tissue suppliers.
4 September 2017	8693815	Addition of subcontractor Quality Central de Esterilização, Brasil as an alternate sterilizer for Biocor Pericardial Patch.
26 October 2017	8694458	Addition of Poco Graphite as crucial supplier and Sterigenics Costa Rica as EO sterilizer. Removal of Steris Minneapolis.
02 May 2018	8917138	Addition of Bierig Brothers Inc. and P&N Packaging Inc. as bovine pericardium suppliers for the Portico valve.

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Page 2 of 3

Validity of this certificate is conditional on the quality system being maintained to the requirements of the Directive as demonstrated through the required surveillance activities of the Notified Body. This approval excludes all products designed and/or manufactured by a third party on behalf of the company named on this certificate, unless specifically agreed with BSI.





EC Certificate - Full Quality Assurance System Certificate History

Certificate No: **CE 578287**Date: **2019-12-11**

Issued To: St. Jude Medical

177 County Road B East

St Paul Minnesota 55117 USA

Date	Reference Number	Action	
07 March 2019	7780704	Traceable to NB 0086.	
07 May 2019	9752176	Addition of Sterigenics US, LLC, Salt Lake City, Utah USA as a significant subcontractor for ETO Sterilization.	
03 December 2019	9688437	Addition of Isomedix Operations Inc. (Steris), Minneapolis USA as a significant subcontractor for ETO sterilization, following inadvertent deletion.	
Current	9775758	Certificate Renewal. Removal of Pericardial Patches from the scope. Addition of product table. Removal of discontinued animal tissue suppliers: Greater Omaha Packaging Company, Frigorifico Argus Ltda, Frigorifico K-Celet Alimentos, Primaz Frigorifico Ltda and W&G Marketing Company. Addition of Abbott Medical Plymouth Site as a subcontractor for	
		Manufacture. Addition of Midwest Sterilization Corporation as a subcontractor for ETO sterilization.	
		Change subcontractor name 'SBR Suinos Brazil Ltda' to 'Agrodanieli Indústria e Comércio Ltda'.	
		Additional minor alignments of subcontractor name and addresses with ISO certificates.	

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Page 3 of 3

Validity of this certificate is conditional on the quality system being maintained to the requirements of the Directive as demonstrated through the required surveillance activities of the Notified Body. This approval excludes all products designed and/or manufactured by a third party on behalf of the company named on this certificate, unless specifically agreed with BSI.





Directive 93/42/EEC on Medical Devices, Annex II Section 4

No. CE 617865

Issued To: St. Jude Medical

177 County Road B East

St Paul Minnesota 55117 USA

In respect of:

Biocor[™], Epic[™] and Epic[™] Supra Heart Valves

BSI has performed a design examination on the above devices in accordance with the Council Directive 93/42/EEC Annex II Section 4 and Regulation 722/2012. The design conforms to the requirements of this directive and regulation. For marketing of these products an additional Annex II excluding Section 4 certificate is required.

For and on behalf of BSI, a Notified Body for the above Directive (Notified Body Number 2797):

Gary E Slack, Senior Vice President Medical Devices

Gay C Stade

First Issued: **2014-12-01** Date: **2019-11-25** Expiry Date: **2024-05-26**

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Page 1 of 6

Validity of this certificate is conditional on the quality system being maintained to the requirements of the Directive as demonstrated through the required surveillance activities of the Notified Body.





Supplementary Information to CE 617865

Issued To: St. Jude Medical

177 County Road B East

St Paul Minnesota 55117 USA

Biocor Valve

	1			
Catalogue Number	Device Name	Model Type	Intended Purpose	Classification
B100-21A	Biocor Valve	Aortic Model Number	Biocor [™] and Epic [™] valves	Class III
B100-23A	Biocor Valve	Aortic Model Number	are indicated for patients requiring replacement of a	Class III
B100-25A	Biocor Valve	Aortic Model Number	diseased, damaged, or	Class III
B100-27A	Biocor Valve	Aortic Model Number	and/or mitral heart valve. Biocor and Epic valves may also be used as replacements for previously implanted aortic and/or mitral prosthetic heart valves.	Class III
B100-29A	Biocor Valve	Aortic Model Number		Class III
B100-25M	Biocor Valve	Mitral Model Number		Class III
B100-27M	Biocor Valve	Mitral Model Number		Class III
B100-29M	Biocor Valve	Mitral Model Number		Class III
B100-31M	Biocor Valve	Mitral Model Number		Class III
B100-33M	Biocor Valve	Mitral Model Number		Class III

First Issued: **2014-12-01** Date: **2019-11-25** Expiry Date: **2024-05-26**

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Validity of this certificate is conditional on the quality system being maintained to the requirements of the Directive as demonstrated through the required surveillance activities of the Notified Body.





Supplementary Information to CE 617865

Issued To:

St. Jude Medical

177 County Road B East

St Paul Minnesota 55117 USA

Epic Valve

Catalogue Number	Device Name	Model Type	Intended Purpose	Classification
Catalogue Number	Device Haine	1-louer Type	Tittellueu Fulpose	Classification
E100-21A	Epic Valve	Aortic Model Number	Biocor [™] and Epic [™] valves	Class III
E100-23A	Epic Valve	Aortic Model Number	are indicated for patients requiring replacement of a	Class III
E100-25A	Epic Valve	Aortic Model Number	diseased, damaged, or	Class III
E100-27A	Epic Valve	Aortic Model Number	and/or mitral heart valve. Biocor and Epic valves may also be used as replacements for previously implanted aortic and/or mitral prosthetic heart valves.	Class III
E100-29A	Epic Valve	Aortic Model Number		Class III
E100-25M	Epic Valve	Mitral Model Number		Class III
E100-27M	Epic Valve	Mitral Model Number		Class III
E100-29M	Epic Valve	Mitral Model Number		Class III
E100-31M	Epic Valve	Mitral Model Number		Class III
E100-33M	Epic Valve	Mitral Model Number		Class III

First Issued: **2014-12-01** Date: **2019-11-25** Expiry Date: **2024-05-26**

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Supplementary Information to CE 617865

Issued To:

St. Jude Medical

177 County Road B East

St Paul Minnesota 55117 USA

Epic Supra Valve

Catalogue Number	Device Name	Model, Type	Intended Purpose	Classification
ESP100-19		Aortic Supra-annular Model Number	The Epic [™] Supra valve is indicated for patients	Class III
ESP100-21		Aortic Supra-annular Model Number	requiring replacement of a diseased, damaged, or	Class III
ESP100-23		Aortic Supra-annular Model Number	heart valve. The Epic Supra valve may also be used as a replacement for a previously	Class III
ESP100-25		Aortic Supra-annular Model Number		Class III
ESP100-27		Aortic Supra-annular Model Number	implanted aortic prosthetic heart valve.	Class III
ESP100-29		Aortic Supra-annular Model Number	/ Assessing	Class III

First Issued: **2014-12-01** Date: **2019-11-25** Expiry Date: **2024-05-26**

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Supplementary Information to CE 617865

Issued To: St. Jude Medical

177 County Road B East

St Paul Minnesota 55117 USA

Certificate History

Date	Reference Number	Action
01 December 2014	10149977	First issue - Transfer from another Notified Body.
03 August 2015	10156419	Addition of Brazilian abattoirs Frigorifico K-Celet Alimentos, Primaz Frigorifico Ltda, and SBR Suinos Brazil Ltda as porcine cusps suppliers for the manufacture of the Biocor, Epic and Epic Supra Heart Valves.
25 August 2015	10156926	Dupont Tyvek Medical Transition Project Update.
30 March 2017	10165131	Addition of Agropecuária Bolson Ltda., Irmãos do Valle and W&G Marketing Company as animal tissue suppliers for the Biocor, Epic and Epic Supra Heart Valves.
26 October 2017 8694459		Addition of Sterigenics Costa Rica as ETO sterilizer for the jar set assemblies.
14 March 2018	8852511	Addition of ATEX Technologies Inc, as an alternate fabric supplier.
07 March 2019	7780704	Traceable to NB 0086.

First Issued: **2014-12-01** Date: **2019-11-25** Expiry Date: **2024-05-26**

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Validity of this certificate is conditional on the quality system being maintained to the requirements of the Directive as demonstrated through the required surveillance activities of the Notified Body.





Supplementary Information to CE 617865

Issued To: St. Jude Medical

177 County Road B East

St Paul Minnesota 55117 USA

Date	Reference Number	Action
Current	9775426	Certificate Renewal. Administrative update to product table format.

First Issued: **2014-12-01** Date: **2019-11-25** Expiry Date: **2024-05-26**

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Validity of this certificate is conditional on the quality system being maintained to the requirements of the Directive as demonstrated through the required surveillance activities of the Notified Body.





Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 13485:2016

This is to certify that: St. Jude Medical

177 County Road B East

St Paul Minnesota 55117 USA

Holds Certificate No: FM 558476

and operates a Quality Management System which complies with the requirements of ISO 13485:2016 for the following scope:

Design, development and Manufacture of and finished Mechanical Heart Valves, Tissue Heart Valves, Annuloplasty Rings, Valve and Annuloplasty Ring Sizer Sets, Mechanical Valve Leaflet Testers, Holder Rotators, Transcatheter Heart Valve Delivery and Loading Systems and related accessories along with manufacturing of intermediate components used in other medical devices.

For and on behalf of BSI:

Gary E Slack, Senior Vice President - Medical Devices

Original Registration Date: 2009-12-24 Effective Date: 2020-02-29 Latest Revision Date: 2020-01-13 Expiry Date: 2023-02-28

Page: 1 of 2

bsi.



Certificate No: FM 558476

St. Jude Medical 177 County Road B East St Paul Minnesota 55117 USA

Location

St. Jude Medical Brasil Ltda. Rua Professor Jose Vieira de Mendonca 1301 Bairro Engenho Nogueira Pampulha, Belo Horizonte Minas Gerais 31.310-026 Brasil

Registered Activities

Design, development and Manufacture of and finished Mechanical Heart Valves, Tissue Heart Valves, Annuloplasty Rings, Valve and Annuloplasty Ring Sizer Sets, Mechanical Valve Leaflet Testers, Holder Rotators, Transcatheter Heart Valve Delivery and Loading Systems and related accessories along with manufacturing of intermediate components used in other medical devices.

The Manufacture and final inspection of tissue made heart valves and tissue vascular prostheses.



Original Registration Date: 2009-12-24 Effective Date: 2020-02-29 Latest Revision Date: 2020-01-13 Expiry Date: 2023-02-28

Page: 2 of 2

This certificate remains the property of BSI and shall be returned immediately upon request. An electronic certificate can be authenticated <u>online</u>. Printed copies can be validated at www.bsigroup.com/ClientDirectory To be read in conjunction with the scope above or the attached appendix.





CERTIFICATE





This is to certify that



SANTE INTERNATIONAL S.A.

Str. Mantuleasa nr. 33, Sector 2 023961 Bucuresti Romania

has implemented and maintains a Quality Management System.

Scope:

Import, trade and storage of medical and laboratory equipment, disinfectants, laboratory reagents, cardiovascular surgery devices, service for medical and laboratory equipment. Consulting for state and private medical units.

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

ISO 9001: 2015

Certificate registration no. 497269 QM15

Valid from 2021-06-16

Valid until 2024-06-15

Date of certification 2021-06-16





DQS GmbH

Markus Bleher Managing Director







Annex to certificate Registration No. 497269 QM15

SANTE INTERNATIONAL S.A.

Str. Mantuleasa nr. 33, Sector 2 023961 Bucuresti Romania

Location

075906 Sante International SA Sos. Mihai Bravu nr. 7, bl. P37-P37A, sector 2 021303 Bucuresti Romania

497270

Sante International SA Str. Pupitrului, nr. 81, sect. 3 033036 Bucuresti Romania

31050285

Sante International SA Calea Ghirodei, nr. 36 300327 Timisoara Romania

31050284

Sante International SA Calea Dorobantilor, nr. 111 400609 Cluj-Napoca Romania

31050283

Sante International SA Str. Lascar Catargi, nr. 37 700107 Iasi Romania

Scope

Import, trade and storage of medical and laboratory equipment, disinfectants, laboratory reagents, cardiovascular surgery devices. Consulting for state and private medical units.

Storage of medical and laboratory equipment, disinfectants, laboratory reagents, cardiovascular surgery devices, service for medical and laboratory equipment. Consulting for state and private medical units.

Trade of medical and laboratory equipment, disinfectants, laboratory reagents, cardiovascular surgery devices, service for medical and laboratory equipment. Consulting for state and private medical units.

Trade of medical and laboratory equipment, disinfectants, laboratory reagents, cardiovascular surgery devices, service for medical and laboratory equipment. Consulting for state and private medical units.

Trade of medical and laboratory equipment, disinfectants, laboratory reagents, cardiovascular surgery devices, service for medical and laboratory equipment. Consulting for state and private medical units.

