

NATURAL SADDLE-SHAPED DESIGN ALLOWS DURABLE, FULL REMODELING.

The unique shape of the Rigid Saddle Ring is designed to mimic a healthy mitral annulus. Multiple studies show that the saddle shape contributes to the efficient distribution of stresses and tension over the leaflets and chordae tendineae.¹⁻³ This redistribution of stress may increase repair durability.^{2,3,5}

SHAPE MIMICS A HEALTHY ANNULUS

- Three-dimensional design restores the natural saddle shape.¹⁻⁴
- Annular-height-to-commissural-width ratio of 15 percent mimics a healthy mitral annulus.²
- Complete titanium alloy core maintains anatomical shape and provides annular remodeling.

CLINICAL BENEFITS

- Saddle shape contributes to efficient distribution of leaflet stress and chordal tension.¹⁻³
- Redistribution of leaflet stress and chordal tension through saddle-shape remodeling may increase repair durability.^{2,3,5}
- Polyester double-velour EZ Suture[™] Cuff may encourage tissue in-growth.^{6,7}

PROPRIETARY FEATURES EASE IMPLANTATION

- EZ Suture Cuff is supported by a unique triangular core for a larger suture target.
- Clear, well-marked holder is designed to increase visibility during implant.
- Secure ergonomic handle quickly attaches and detaches to save time during implant.



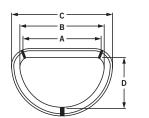
Ordering Information

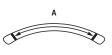
Rigid Saddle Ring

Model Number	Ring Size (mm)	Commissure Dimension (A) (mm)	Inside Dimension (B) (mm)	Outside Dimension (C) (mm)	A-P Dimension (D) (mm)	Internal 2-D Orifice Area (mm ²)
RSAR-24	24	24	22	30	13.6	227
RSAR-26	26	26	24	32	15.1	276
RSAR-28	28	28	26	34	16.2	331
RSAR-30	30	30	28	36	17.9	387
RSAR-32	32	32	30	38	19.2	450
RSAR-34	34	34	32	40	20.6	511

Accessories Model

Number	Contents		
RSAR-507A	RSAR Sizer Set Complete		
	One (1) malleable holder handle		
	One (1) extension handle		
	Six (6) sizers (24, 26, 28, 30, 32, 34)		
	One (1) autoclavable tray for storage of components		
	One (1) autoclavable tray cover		
HH-05	Replacement Holder Handle		
EX-05	Replacement Extension Handle		





Specifications

Sizer Specifications

Rigid Saddle Ring Specifications Fabric: Polyester Double Velour Core: Titanium

Handle: Polyphenylsulfone Shaft: Nitinol Polysulfone Head:

1. Jimenez JH, Soerensen DD, He Z, et al. Effects of a saddle shaped annulus on mitral valve function and chordal force distribution: an in vitro study. Ann Biomed Eng. 2003;31(10):1171-81.

- 2. Salgo IS, Gorman JH 3rd, Gorman RC, et al. Effect of annular shape on leaflet curvature in reducing mitral leaflet stress. Circulation. 2002;106(6):711-7.
- 3. Jimenez JH, Liou SW, Padala M, et al. A saddle-shaped annulus reduces systolic strain on the central region of the mitral valve anterior leaflet. J Thorac Cardiovasc Surg. 2007;134(6):1562-8. 4. Flachskampf FA, Chandra S, Gaddipatti A, et al. Analysis of shape and motion of the mitral annulus in subjects with and without cardiomyopathy by echocardiographic 3-dimensional reconstruction. J Am Soc Echocardiogr. 2000;13(4):277-87.
- 5. Gorman JH 3rd, Jackson BM, Enomoto Y, et al. The effect of regional ischemia on mitral valve annular saddle shape. Ann Thorac Surg. 2004;77(2):544-8.
- 6. Haverich A, Maatz W, Stegmann T, et al. Experimental and clinical experiences with double-velour woven Dacron prostheses. *Thorac Cardiovasc Surg.* 1986;34(1):52-3. 7. Sato O, Tada Y, Takagi A. The biologic fate of Dacron double velour vascular prostheses. *Jpn J Surg.* 1989;19(3):301-11.

St. Jude Medical

B-1935 Zaventem

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Belgium +32 2 774 68 11

ATRIAL FIBRILLATION

Global Headquarters

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+1 651 756 3310 Fax

USA

One St. Jude Medical Drive

St. Paul, Minnesota 55117

CARDIAC RHYTHM MANAGEMENT

Cardiovascular Division

177 East County Road B

+1 651 490 4470

+1 651 490 4466 Fax

St. Paul, Minnesota 55117

CARDIOVASCULAR NEUROMODUL ATION

St. Jude Medical Brasil Ltda. Coordination Center BVBA Rua Frei Caneca, 1380 The Corporate Village Avenue Da Vinci Iaan 11 Box F1 7º ao 9º andares 01307-002 - São Paulo (SP) Brazil +55 11 5080 5400 +55 11 5080 5423 Fax

St. Jude Medical (Hong Kong) Ltd. St. Jude Medical Japan Co., Ltd. 3-1-30, Minami-Aoyama

Minato-ku Tokyo 107 0062

Japan +81 3 3423 6450

USA

Suite 1608, 16/F Exchange Tower 33 Wang Chiu Road Kowloon Bay, Kowloon Hong Kong SAR +852 2996 7688 +852 2956 0622 Fax

+81 3 3402 5586 Fax SJMprofessional.com

ST. JUDE MEDICAL More control. Less risk

Caution: Federal Law restricts this device to sale by or on the order of a physician or properly licensed practitioner. Please see the physician's manual for a full description of indications, contraindications, side effects, precautions, warnings, and instructions for use.

Rx Only

Brief Summary: Please review the Instructions for Use prior to using this device for a complete listing of indications, contraindications, precautions, potential adverse events, and directions for use.

SJM, EZ Suture, ST. JUDE MEDICAL, the nine-squares symbol and MORE CONTROL. LESS RISK. are registered and unregistered trademarks and service marks of St. Jude Medical, Inc. and its related companies. ©2009 St. Jude Medical, Inc. All rights reserved





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

86480 SJM Declaration of Conformity Template Rev B

Page 1 of 2

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SJM Declaration of Conformity Mechanical Heart Valves and Valved Grafts

Original CE Mark Date:

FQA Certificate No and expiration date:

Annex II DE Certificate No and expiration date: Applicable Quality System Standards:

Notified Body:

See attached.

Certificate No: CE 578287 Expiration Date: 26 May 2024

See attached.

ISO 13485: 2016

BSI Group The Netherlands B.V. Say Building John M. Keynesplein 9 1066 EP Amsterdam The Netherlands

Notified Body Number:

Manufacturing Facilities:

2797

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:

Augustinucos Date: 2020.05.20 08:56:59-05'00'

Angie Riascos Manager, Regulatory Affairs 20 May, 2020 Issue Date

Mechanical Valve Products

<u>SJM Masters Series (Rotatable)</u> 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 15mm 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 19-31mmATJ-503 Mitral Standard PTFE cuff, sizes 19-33mmMTJ-503 Mitral Expanded PTFE cuff, sizes 19-33mmMETJ-504 <i>Original CE Mark Date: 31 Jul 1997</i>
<u>SJM Regent Valve (Rotatable)</u> EC Certificate No.: CE 578290 Expiration Date: 17 February 2024
Aortic standard cuff - polyester, sizes 17 - 29mmAGN-751 Aortic flex cuff - polyester, sizes 17-29mmAGFN-756 Original CE Mark Date: 27 Dec 1999
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

<u>St. Jude Medical Seguin Annuloplasty Ring</u> 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 Original CE Mark Date: 28 Jan 2002
<u>Tailor Annuloplasty Band</u> EC Certificate No.: CE 578289 Expiration Date: 30 March 2024
Tailor Annuloplasty Band, sizes 25-35mmTAB-(size) Original CE Mark Date: 24 Oct 2002
Valved Grafts ¹
SJM [™] Masters Series Aortic Valved Graft with Hemashield [™] graft technology EC Certificate No.: CE 578292 Expiration Date: 26 May 2024
SJM [™] Masters Series Aortic Valved Graft with Hemashield [™] graft technology Sizes 19 – 33mmCAVGJ-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 <i>Original CE Mark Date: 19 Aug 2005</i>





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

No. Issued To: CE 578287 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 C Stade

Gary E Slack, Senior Vice President Medical Devices

First Issued: **2012-01-30**

Date: 2019-12-11

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. 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.

This certificate was issued electronically and is bound by the conditions of the contract.





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	1000
	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	199 B
	 Masters Series Mechanical Heart Valve with Expanded Hemodynamic Plus (HP) Sewing Cuff – Mechanical Heart Valves 	
	Regent Heart Valve – Mechanical Heart Valves	5.05
	Regent Heart Valve with FlexCuff – Mechanical	
	Heart Valves	

First Issued: 2012-01-30

Date: 2019-12-11

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. 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.

This certificate was issued electronically and is bound by the conditions of the contract.





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 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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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.

This certificate was issued electronically and is bound by the conditions of the contract.





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		
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 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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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.

This certificate was issued electronically and is bound by the conditions of the contract.





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: Date: Issued To:

2019-12-11 St. Jude Medical 177 County Road B East St Paul Minnesota 55117 USA

CE 578287

Subcontractor:

Service(s) supplied

Manufacture

Abbott Medical 5050 Nathan Lane North Plymouth Minnesota 55442 USA

Abbyland PorkPak Inc. 539 North Meridian Street Curtiss Wisconsin 54422 USA Animal Tissues / Derivatives

Agrodanieli Indústria e Comércio Ltda Rodivia 463, KM 14,5 Disrito Industrial Vila Langaro Rio Grande do Sul Brasil Animal Tissues / Derivatives

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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: Date: Issued To:

2019-12-11 St. Jude Medical 177 County Road B East St Paul Minnesota 55117 USA

CE 578287

Subcontractor:

Service(s) supplied

Agropecuária Bolson Ltda. (Bolson) Rua Vereador Waldomiro Franco de Souza, S/N - Zona Suburbana Toledo Paraná Brasil

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

Animal Tissues / Derivatives

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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:

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2019-12-11 St. Jude Medical 177 County Road B East St Paul Minnesota 55117 USA

CE 578287

Subcontractor:

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

Frigorifico Miolar Ltda Estrada para Fazenda Mazurana S/N, Dois Vizinhos/PR Brasil

Frimesa Cooperativa Central Rua Bahia, 159, Medianeira/PR Brasil **Animal Tissues / Derivatives**

Service(s) supplied

Animal Tissues / Derivatives

Animal Tissues / Derivatives

Hereaus Medical Components, LLC 5030 Centerville Road St. Paul Minnesota 55127 USA Manufacture

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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:

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2019-12-11 St. Jude Medical 177 County Road B East St Paul Minnesota 55117 USA

CE 578287

Subcontractor:

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

Irmãos do Valle (IDV) Rodovia BR 116, KM 116 Caixa Postal 04 - Bairro: Campo Alto - Santa Cecilia Santa Catarina Brasil

Isomedix Operations, Inc. 380 90th Avenue NW Minneapolis Minnesota 55433 USA Service(s) supplied

Manufacture

Animal Tissues / Derivatives

ETO Sterilization

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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:

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2019-12-11 St. Jude Medical 177 County Road B East St Paul Minnesota 55117 USA

CE 578287

Subcontractor:

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

JBS S.A. Parque Industrial S/N Distrito Industrial, LINS/SP Brasil

JBS S.A. Rodovia, GO 164, Km 167 S/N, Zona Rural, Mozarlândia/GO Brasil

Service(s) supplied

Animal Tissues / Derivatives

Animal Tissues / Derivatives

Animal Tissues / Derivatives

JBS S.A. Rua Principal S/N, Vila Miisa, Ituiutaba/MG Brasil **Animal Tissues / Derivatives**

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List of Significant Subcontractors

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

Certificate No: Date: Issued To:

2019-12-11 St. Jude Medical 177 County Road B East St Paul Minnesota 55117 USA

CE 578287

Subcontractor:

JBS S.A. Facility I Av. Duque de Caxias 7255 Vila Nova Campo Grande/MS Brasil

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

Marcho Farms Inc. 519 Allentown Road Franconia Pennsylvania 18924 USA Service(s) supplied

Animal Tissues / Derivatives

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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: Date:

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2019-12-11 St. Jude Medical 177 County Road B East St Paul Minnesota 55117 USA

CE 578287

Subcontractor:

Service(s) supplied

Midwest Sterilization Corporation 1204 Lenco Avenue Jackson Missouri 63755 USA

Oakey Abattoir Lot 1, Oakey Connection Road, Oakey QLD 4401 Australia

P&N Packaging Inc. 11627 Route 187 Wyalusing Pennsylvania 18853 USA ETO Sterilization

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

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2019-12-11 St. Jude Medical 177 County Road B East St Paul Minnesota 55117 USA

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Subcontractor:

Service(s) supplied

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

Crucial Supplier

ETO Sterilization

POCO Graphite, Inc. an Entegris Company 300 Old Greenwood Road Decatur Texas 76234 USA

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

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

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Subcontractor:

Service(s) supplied

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

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

Sioux-Preme Packing Company 4241 U.S. 75 Ave Sioux Center Iowa 1250 USA **Animal Tissues / Derivatives**

Animal Tissues / Derivatives

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

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2019-12-11 St. Jude Medical 177 County Road B East St Paul Minnesota 55117 USA

CE 578287

Subcontractor:

Service(s) supplied

Manufacture

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

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

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

Labelling Manufacture Moist Heat Sterilization Packaging

Manufacture

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

List of Significant Subcontractors

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2019-12-11 St. Jude Medical 177 County Road B East St Paul Minnesota 55117 USA

CE 578287

Subcontractor:

St. Jude Medical Coordination Center BVBA The Corporate Village Da Vincilaan 11 Box F1 1935 Zaventem Belgium

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

St. Jude Medical PR LLC Caguas West Industrial Park Lot 20 Caguas 00725 Puerto Rico Service(s) supplied

EU Representative Labelling Packaging

Manufacture

Final Inspection Manufacture Moist Heat Sterilization

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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: Date:

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2019-12-11 St. Jude Medical 177 County Road B East St Paul Minnesota 55117 USA

CE 578287

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 20101 Costa Rica ETO Sterilization

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

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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: Date:

Issued To:

2019-12-11 St. Jude Medical 177 County Road B East St Paul Minnesota 55117 USA

CE 578287

Subcontractor:

State Road 690

Vega Alta 00692 Puerto Rico

USA

Service(s) supplied

Sterigenics US, LLC 5725 West Harold Gatty Drive Salt Lake City Utah 84116 USA

Steris Isomedix Puerto Rico LLC

KM 1.7 Barrio Sabana Hoyos

ETO Sterilization

Gamma Irradiation

Teys Australia Southern, Tamworth Phoenix street Tamworth, NSW 2340 Australia

Animal Tissues / Derivatives

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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: Date:

Issued To:

2019-12-11 St. Jude Medical 177 County Road B East St Paul Minnesota 55117 USA

CE 578287

Subcontractor:

Vascutek Limited Newmains Avenue Inchinnan PA4 9RR United Kingdom Service(s) supplied

Animal Tissues / Derivatives Manufacture

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EC Certificate - Full Quality Assurance System Certificate History

Certificate No: Date:

Issued To:

CE 578287 2019-12-11 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 list 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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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.

This certificate was issued electronically and is bound by the conditions of the contract.





EC Certificate - Full Quality Assurance System Certificate History

Certificate	No:
Date:	

CE 578287 2019-12-12

Issued To:

2019-12-11 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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EC Certificate - Full Quality Assurance System Certificate History

Certificate No:	
Date:	

Issued To:

CE 578287 2019-12-11

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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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.

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Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 13485:2016

This is to certify that:

St. Jude Medical PR, LLC Caguas West Industrial Park B Street, Lot 20 Caguas 00725 Puerto Rico

Holds Certificate No:

FM 578534

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

Manufacturing and distribution of Annuloplasty Ring and Mechanical Heart Valves and manufacturing of Vascular Closure Device.

For and on behalf of BSI:

JM SI

Stewart Brain, Head of Compliance & Risk - Medical Devices

Original Registration Date: 2011-10-17 Latest Revision Date: 2019-02-18





Effective Date: 2019-02-18

Expiry Date: 2022-02-17

Page: 1 of 1

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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.

Americas Headquarters: BSI Group America Inc., 12950 Worldgate Drive, Suite 800, Herndon, VA 20170-6007 USA A Member of the BSI Group of Companies.





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.



This annex (edition:2021-06-16) is only valid in connection with the above-mentioned certificate.