

# ABBOTT MECHANICAL HEART VALVES

Regent, Masters HP and Masters

AORTIC VALVE



MITRAL VALVE

IMPLANT  
CONFIDENTLY.

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# CONFIDENTLY IMPLANT THE MOST TRUSTED MECHANICAL VALVES IN THE WORLD

3 MILLION PATIENTS  
TREATED WITH ABBOTT  
MECHANICAL HEART VALVES

MORE THAN 1,000  
PEER-REVIEWED  
PUBLICATIONS PROVIDE  
EVIDENCE FOR ABBOTT  
MECHANICAL HEART VALVES

LOW THROMBOGENICITY AND  
EXCELLENT PATIENT OUTCOMES

## PROVEN DESIGN TO RESTORE NATIVE VALVE HEMODYNAMICS

AN ABBOTT HALLMARK

Featured in all Abbott Mechanical Heart Valves the unique Pivot Guard Design offers benefits both during implant and post-implant.



Shields pivot mechanism from pannus ingrowth



Minimizes interaction with sub-annular native valve apparatus in the mitral position and ensure coronary ostia clearance in the aortic position



Enables for an 85° leaflet opening angle, minimizing leaflet flutter and leading to smoother laminar flow through the orifice\*



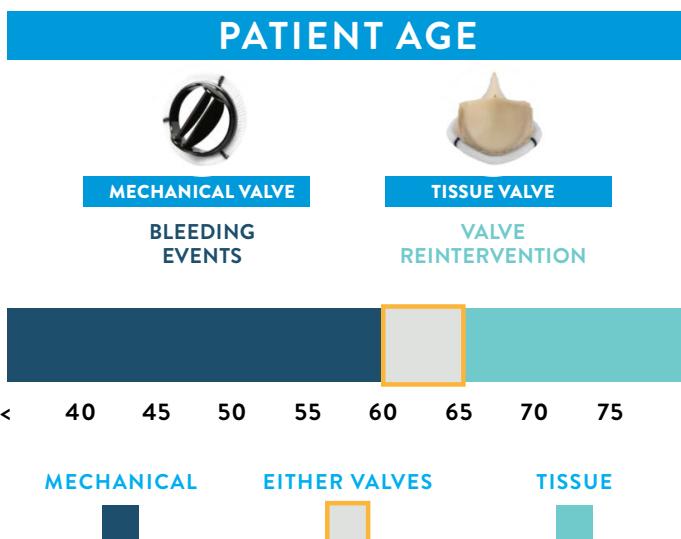
Can lessen thrombus formation by minimizing carbon surface area and thanks to the washout flow through the hinges\*

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FIND OUT MORE  
ON ABBOTT  
MHV DESIGN



# 2017 ESC/EACTS GUIDELINES<sup>1</sup>



## OPERATE WITH THE FACTS

**ABBOTT MECHANICAL HEART VALVES SHOW LOWER THROMBOEMBOLISM, THROMBOSIS AND BLEEDING EVEN AT A LOW INR RANGE**



\*44/197 patients in the Lowering-IT study were implanted with Abbott Valves. \*\*This was further stratified into a control group, a very low INR (monitored 1x weekly), and a very low INR (monitored 2x weekly) group. \*\*\*Thromboembolic events for VL1 and VL2 groups are listed together, respectively. †Bleeding events for VL1 and VL2 groups are listed together, respectively.

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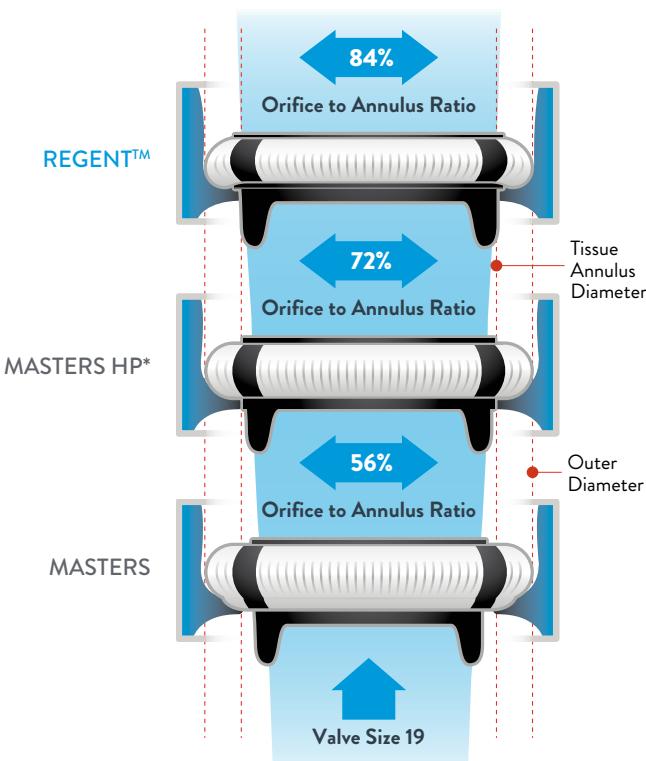
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FIND OUT MORE  
ON LOW INR  
CLINICAL EVIDENCE



# A BROAD RANGE OF SOLUTIONS TO TAILOR THE IMPLANTATION TO EVERY PATIENT

## AORTIC VALVE



Regent

EXCEPTIONAL HEMODYNAMICS  
IN THE AORTIC POSITION IN SMALL  
AORTIC ROOT PATIENTS

Masters HP

HEMODYNAMICS MEETS  
IMPLANTABILITY IN BOTH THE  
AORTIC AND MITRAL POSITION,  
NOW AVAILABLE ALSO FOR BABIES  
AND NEWBORNS

Masters

OPTIMAL IMPLANTABILITY IN BOTH  
THE AORTIC AND MITRAL POSITION

FIND OUT HOW TO MINIMIZE AV BLOCK  
WHEN IMPLANTING  
A MECHANICAL HEART VALVE



## TREATING THE TINIEST PATIENTS INCLUDING NEWBORNS AND BABIES IS NOW POSSIBLE...

with the world's smallest  
mechanical heart valves



15mm MASTERS HP  
MITRAL AND AORTIC VALVE

WATCH  
SADIE'S STORY



# VALVE ORDERING GUIDE

STANDARD CUFF	FLEXCUFF	EXPANDED CUFF	PTFE	EXPANDED PTFE
Compact, double velour Dacron	Flanged and more conformable than the standard cuff, to accommodate variable anatomy	25% more cuff material than the standard cuff, for even more anatomic accommodation	Known for its low friction, very easy to suture	Easy to suture with 16% more material, for extra anatomical conformability

## AORTIC VALVE

SIZE (MM)	REGENT™ VALVE		MASTERS HP Series		MASTERS Series		
	STANDARD CUFF	FLEXCUFF™ <sup>4</sup>	STANDARD CUFF	EXPANDED CUFF <sup>1,3</sup>	STANDARD CUFF	EXPANDED CUFF <sup>1,3</sup>	PTFE
15			15AHPJ-505				
17	17AGN-751	17AGFN-756	17AHPJ-505	17AEHPJ-505			
19	19AGN-751	19AGFN-756	19AHPJ-505	19AEHPJ-505	19AJ-501	19AECJ-502	19ATJ-503
21	21AGN-751	21AGFN-756	21AHPJ-505	21AEHPJ-505	21AJ-501	21AECJ-502	21ATJ-503
23	23AGN-751	23AGFN-756	23AHPJ-505	23AEHPJ-505	23AJ-501	23AECJ-502	23ATJ-503
25	25AGN-751	25AGFN-756	25AHPJ-505	25AEHPJ-505	25AJ-501	25AECJ-502	25ATJ-503
27	27AGN-751	27AGFN-756	27AHPJ-505	27AEHPJ-505	27AJ-501	27AECJ-502	27ATJ-503
29	29AGN-751	29AGFN-756			29AJ-501	29AECJ-502	29ATJ-503
31					31AJ-501	31AECJ-502	31ATJ-503

## MITRAL VALVE

SIZE (MM)	MASTERS HP Series		MASTERS Series		
	STANDARD CUFF	STANDARD CUFF	EXPANDED CUFF <sup>1,3</sup>	PTFE	EXPANDED PTFE <sup>2</sup>
15	15MHPJ-505				
17	17MHPJ-505				
19	19MHPJ-505	19MJ-501	19MECJ-502	19MTJ-503	19METJ-504
21	21MHPJ-505	21MJ-501	21MECJ-502	21MTJ-503	21METJ-504
23	23MHPJ-505	23MJ-501	23MECJ-502	23MTJ-503	23METJ-504
25	25MHPJ-505	25MJ-501	25MECJ-502	25MTJ-503	25METJ-504
27	27MHPJ-505	27MJ-501	27MECJ-502	27MTJ-503	27METJ-504
29		29MJ-501	29MECJ-502	29MTJ-503	29METJ-504
31		31MJ-501	31MECJ-502	31MTJ-503	31METJ-504
33		33MJ-501	33MECJ-502	33MTJ-503	33METJ-504
35		35MJ-501			
37		37MJ-501			

1. The Expanded Aortic and Mitral Cuff has approximately 25% more cuff material than the standard cuff, for even more anatomic accommodation.

2. The Expanded PTFE Cuff easy to suture with 16% more material, for extra anatomical conformability

3. The Expanded HP Cuff has approximately 15% more cuff than the HP Series cuff.

4. The FlexCuff™ is flanged and more conformable than the standard cuff, to accommodate variable anatomy.

# ACCESSORIES ORDERING GUIDE

## MECHANICAL VALVE SIZER SETS AND ACCESSORIES

Model No.	DESCRIPTION
905	Universal Sizer Set contains 17-33 mm valve sizers and valve holder handle model 905-HH.
905-15	Mitral and Aortic Double-Ended Sizer for Masters HP 15 mm.
905-35	35mm Masters Series valve sizer.
905-37	37mm Masters Series valve sizer.
905-MHH	Mitral valve holder handle.
905-RHH	Rigid valve holder handle.
907	Regent Sizer Set contains 17-29mm valve sizers and valve holder handle model 905-HH.
A-RHR	Contains sizes 19mm-31mm aortic Masters Series holder/rotators.
M-RHR	Contains sizes 19mm-37mm mitral Masters Series holder/rotators.
AHP-RHR	Contains sizes 17mm-27mm Masters Series Hemodynamic Plus holder/rotators.
AG-RHR	Contains sizes 17mm-29mm Regent™ holder/rotators.
LT100	Mechanical valve leaflet tester.

### REFERENCES

1. European Heart Journal, Volume 38, Issue 36, 21 September 2017, Pages 2739–2791, <https://doi.org/10.1093/eurheartj/ehx391>
2. Torella, Michele, et al. "LOWERing the INtensity of oral anticoagulant Therapy in patients with bileaflet mechanical aortic valve replacement: results from the "LOWERING-IT" Trial." American heart journal 160.1 (2010): 171-178.
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4. Puskas JD et al. Reduced anticoagulation after mechanical aortic valve replacement: interim results from the prospective randomized on-X valve anticoagulation clinical trial randomized Food and Drug Administration investigational device exemption trial. J Thorac Cardiovasc Surg 2014;147:1202-11

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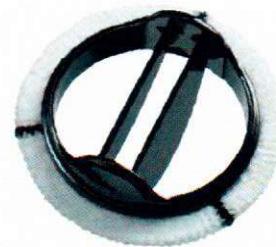
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## Regent™ Mechanical Heart Valve

### Standard Cuff

#### Aortic Valves



#### Product Highlights

- Designed to deliver exceptional hemodynamics and performance while maintaining low complication rates, structural integrity and durability
- Single-digit gradients, even in sizes as small as 19 mm<sup>1</sup>
- Up to 84% orifice to annulus ratio
- 85 degree leaflet opening angle offers improved laminar flow and reduces turbulence<sup>2-4</sup>
- Supra-annular placement and low implant height
- The FlexCuff™ is flanged and more pliable than the standard cuff
- St. Jude Medical heart valves are MR Conditional<sup>5</sup>

#### Ordering Information

Contents: Aortic Valve (1 unit per box)

Model/Reorder* Number	Tissue Annulus Diameter (mm)	Valve Orifice Inner Diameter (mm)	Geometric Orifice Area (cm <sup>2</sup> )	Effective Orifice Area <sup>6</sup> (cm <sup>2</sup> )	Cuff Style
17AGN-751	17	15.9	1.87	1.42	Standard
19AGN-751	19	17.8	2.39	1.84	Standard
21AGN-751	21	19.6	2.90	2.47	Standard
23AGN-751	23	21.4	3.45	2.91	Standard
25AGN-751	25	23.0	4.02	3.34	Standard
27AGN-751	27	24.9	4.69	4.28	Standard
29AGN-751	29	26.8	5.44	Not reported	Standard

\*All sizes currently not available in all markets.

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2. King, M, David T, Fisher J. An initial parametric study on fluid flow through bileaflet mechanical heart valves using computational fluid dynamics. *J Eng Med.* 1994;208:63-72.
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Please review the Instructions for Use prior to using these devices for a complete listing of indications, contraindications, warnings, precautions, potential adverse events and directions for use.

Product referenced is approved for CE Mark.

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# SJM Regent<sup>®</sup>

## Heart Valve

REDEFINING HEMODYNAMIC PERFORMANCE.<sup>™</sup>



THE NEWEST MEMBER OF THE ST. JUDE MEDICAL  
MECHANICAL HEART VALVES FAMILY

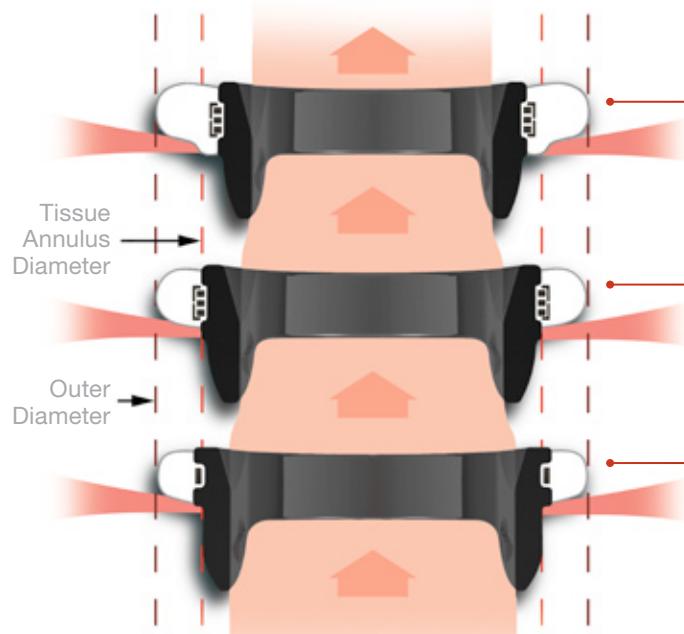
## REACHING NEW LEVELS.

The SJM Regent® heart valve represents a significant step forward in prosthetic valve design. It provides outstanding hemodynamics while maintaining the traditional quality and proven features that have established St. Jude Medical® mechanical valves as the gold standard.



### Evolutionary improvement

Development of the St. Jude Medical® mechanical heart valve has led to a progressively greater geometric orifice area within a given tissue annulus dimension.



#### SJM® Masters Series mechanical heart valve

- Intraannular cuff.
- Intraannular carbon rim.

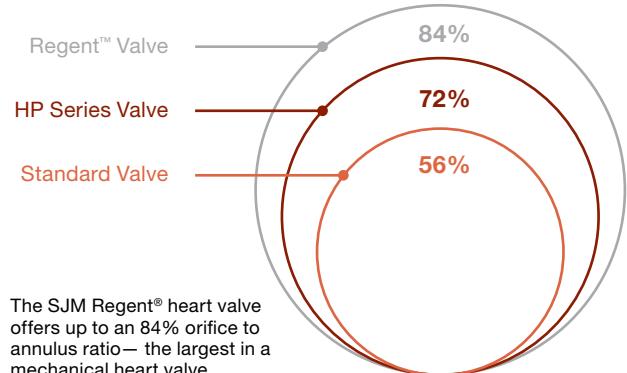
#### SJM® Masters Series Hemodynamic Plus valve

- Supraanular cuff.
- Carbon rim remains intraannular.

#### SJM Regent® heart valve

- Supraannular cuff.
- Carbon rim shifts to supraannular position.
- New rotation mechanism is completely housed within the carbon rim.

### Orifice to annulus ratio — 19mm valve<sup>2</sup>



"The energy loss results show an approximate one-size increment improvement of the SJM Regent™ heart valve over the St. Jude Medical® HP Series valve, which is equivalent to a two-size increment improvement over the standard valve."

(Walker et al, 1999)<sup>1</sup>

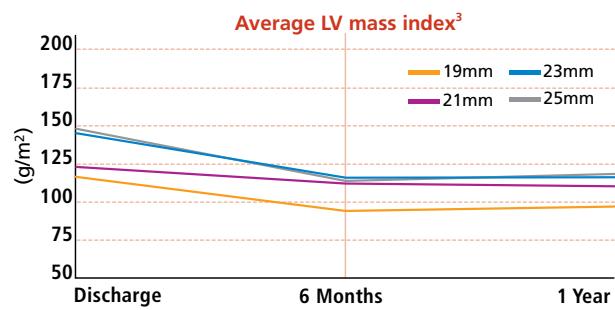
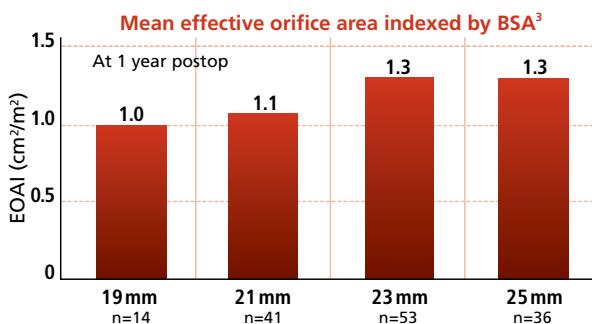
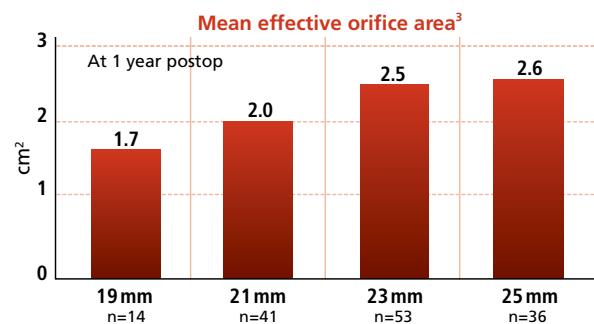
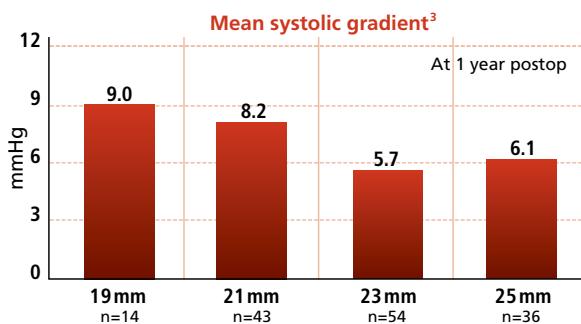
# SJM REGENT® HEART VALVE

Redefining Hemodynamic Performance.<sup>TM</sup>

## Unprecedented hemodynamics

The SJM Regent® heart valve delivers exceptional hemodynamics and performance while maintaining the design features that have set the standard for low complication rates, structural integrity, and durability in a mechanical valve. The SJM Regent® heart valve provides:

- Single digit in vivo pressure gradients—even in valve sizes as small as 19mm.<sup>3</sup>
- Significantly larger EOAs.<sup>3</sup>
- Excellent patient-prosthesis match<sup>4</sup>—even in small sizes.
- Significant reduction of LV Mass.<sup>3</sup> Numerous studies have shown a direct correlation between LV hypertrophy and morbidity and mortality.<sup>5-16</sup> Even moderate LV hypertrophy can result in: congestive heart failure,<sup>17</sup> arrhythmias,<sup>5</sup> myocardial infarction,<sup>17</sup> and sudden death.<sup>5,17</sup>



"Significant and rapid left ventricular mass regression with all valve sizes confirms excellent hemodynamics associated with the valve. . . ."

(Bach et al, 2001)<sup>18</sup>

## Traditional reliability

The SJM Regent® heart valve retains the same design features that have made St. Jude Medical® mechanical heart valves the standard for reliability and proven performance for more than 25 years.

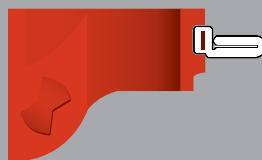
- All blood-contact surfaces remain unchanged.
- In seven broad categories of structural integrity and durability tests, the SJM Regent® heart valve met all the demanding standards set by previous St. Jude Medical® mechanical heart valves.<sup>2</sup>
- The SJM Regent® heart valve is made of the same pyrolytic carbon used in more than one million St. Jude Medical® mechanical heart valve implants.

# FAMILIAR TECHNIQUE

The technique for implanting the SJM Regent® heart valve remains the same as for other St. Jude Medical® mechanical heart valves. For added convenience, it's available in two cuff configurations to suit your implant preferences.

## FlexCuff™ sewing ring

- Provides enhanced conformability and maximum suture target area while offering lateral flange to accommodate the tissue annulus.



## Standard cuff sewing ring

- Rounded cuff designed for excellent conformability and suturability.



## Product Specifications\*

Valve Size (mm)	Tissue Annulus Diameter (mm)	Overall Height Open (mm)	Implant Height (mm)	Geometric Orifice Area (cm <sup>2</sup> )
17	17.0	10.6	5.3	1.87
19	19.0	11.5	5.9	2.39
21	21.0	12.5	6.7	2.90
23	23.0	13.7	7.3	3.45
25	25.0	13.9	7.6	4.02
27	27.0	14.9	8.5	4.69
29	29.0	16.1	9.1	5.44

\*From manufacturer's data

Sizes 17 mm and 29 mm are not currently approved in the United States

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2. Product and Design Evaluation Center, St. Jude Medical, Inc.
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 ST. JUDE MEDICAL

**St. Jude Medical**  
One Lillehei Plaza  
St. Paul, MN 55117, USA  
651 483 2000  
651 482 8318 Fax

**St. Jude Medical Europe, Inc.**  
The Corporate Village  
Avenue Da Vinci laan, 11 - Box F1  
B-1935 - Zaventem  
Belgium  
+32 2 774 68 11  
+32 2 772 83 84 Fax

**St. Jude Medical Brasil, Ltda.**  
Rua Frei, Caneca 1380-9° A-CJ91/92  
São Paulo - SP - Brasil  
CEP 01307-002  
+55 11 5080 5400  
+55 11 5080 5423 Fax

**St. Jude Medical (Hong Kong) Limited**  
Unit 2701-07, COSCO Tower  
Grand Millennium Plaza  
183 Queen's Road  
Central, Hong Kong  
+852 2996 7688  
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By Royal Charter

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## QUALITY MANAGEMENT SYSTEM - ISO 13485:2016

This is to certify that:

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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

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St. Jude Medical 177 County Road B East St Paul Minnesota 55117 USA	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.
St. Jude Medical Brasil Ltda. Rua Professor Jose Vieira de Mendonca 1301 Bairro Engenho Nogueira Pampulha, Belo Horizonte Minas Gerais 31.310-026 Brasil	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

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A Member of the BSI Group of Companies.



## SJM Declaration of Conformity

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 Vinci laan 11 Box F1  
1935 Zaventem, Belgium

**Product Type:**

Mechanical Heart Valves  
Valved Grafts  
Annuloplasty Rings

**Product Name(s):**

St Jude Medical Mechanical Heart Valve (Non-Rotatable)  
SJM Masters Series (Rotatable)  
SJM Regent Valve (Rotatable)  
Tailor Annuloplasty Ring  
Tailor Annuloplasty Band  
Rigid Saddle Ring  
Attune™ Flexible Adjustable Annuloplasty Ring  
St Jude Medical Seguin Annuloplasty Ring  
SJM Masters Valved Graft with Hemashield® Technology  
SJM Masters HP™ Valved Graft with Gelweave Valsalva™  
Technology

**Model Number(s):**

See attached.

**Classification:**

Mechanical heart valves and annuloplasty rings: Class III  
per MDD, Annex IX, rule 8  
Valved Grafts: Class III per MDD, Annex IX, rule 17

**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

**Original CE Mark Date:** *See attached.*

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

**Annex II DE Certificate No and expiration date:** *See attached.*

**Applicable Quality System Standards:** ISO 13485: 2003 + AC:2007

**Notified Body:**  
BSI Product Service  
Kitemark House, Maylands Avenue  
Hemel Hempstead, Hertfordshire  
HP2 4SQ, UK

**Notified Body Number:** 0086

**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 USA

**Signature:**

A handwritten signature in black ink that reads "Amanda Martin".

---

Amanda Martin  
Regulatory Affairs Specialist

**30-November-2015**

---

Issue Date



By Royal Charter

# EC Certificate - Full Quality Assurance System

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

First Issued: **2012-01-30**Date: **2019-12-11**Expiry Date: **2024-05-26**...making excellence a habit.<sup>TM</sup>

Page 1 of 4

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.



By Royal Charter

# EC Certificate - Full Quality Assurance System

## 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
<b>Class III</b>		
---	<ul style="list-style-type: none"><li>Masters Series Mechanical Heart Valve – Mechanical Heart Valves</li><li>Masters Series Mechanical Heart Valve with Expanded Polyester Sewing Cuff – Mechanical Heart Valves</li><li>Masters Series Mechanical Heart Valve with PTFE Sewing Cuff – Mechanical Heart Valves</li><li>Masters Series Mechanical Heart Valve with Expanded PTFE Sewing Cuff – Mechanical Heart Valves</li><li>Masters Series Mechanical Heart Valve with Hemodynamic Plus (HP) Sewing Cuff – Mechanical Heart Valves</li><li>Masters Series Mechanical Heart Valve with Expanded Hemodynamic Plus (HP) Sewing Cuff – Mechanical Heart Valves</li><li>Regent Heart Valve – Mechanical Heart Valves</li><li>Regent Heart Valve with FlexCuff – Mechanical Heart Valves</li></ul>	See CE 578290

First Issued: **2012-01-30**Date: **2019-12-11**Expiry Date: **2024-05-26**...making excellence a habit.<sup>TM</sup>

Page 2 of 4

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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# EC Certificate - Full Quality Assurance System

## 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
<b>Class III</b>		
---	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

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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# EC Certificate - Full Quality Assurance System

## 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
<b>Class IIa</b>		
MD0106, MDS7006	Mechanical Heart Valve Leaflet Tester – Related Accessories	---
MD0106	<ul style="list-style-type: none"> <li>• Masters Series Mechanical Heart Valve Replacement Holder/Rotators – Related Accessories</li> <li>• Masters Series Hemodynamic Plus (HP) Mechanical Heart Valve Replacement Holder/Rotators – Related Accessories</li> <li>• Regent Mechanical Heart Valve Replacement Holder/Rotators – Related Accessories</li> <li>• Rigid Saddle Ring Annuloplasty Sizer Set – Related Accessories</li> <li>• Tailor Annuloplasty Ring Sizer Set– Related Accessories</li> <li>• Tailor Ring Robotic Sizer Set – Related Accessories</li> <li>• Seguin Annuloplasty Ring Sizer Set – Related Accessories</li> <li>• Mechanical Heart Valve Sizer – Related Accessories</li> <li>• Regent Mechanical Heart Valve Sizer Set– Related Accessories</li> <li>• Trifecta Valve Series Sizer Set – Related Accessories</li> <li>• Bioprosthetic Heart Valve Sizer Set – Related Accessories</li> </ul>	---

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

Date: **2019-12-11**

Expiry Date: **2024-05-26**

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Page 4 of 4

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.



By Royal Charter

# EC Certificate - Full Quality Assurance System

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**

<b>Subcontractor:</b>	<b>Service(s) supplied</b>
Abbott Medical 5050 Nathan Lane North Plymouth Minnesota 55442 USA	<b>Manufacture</b>
Abbyland PorkPak Inc. 539 North Meridian Street Curtiss Wisconsin 54422 USA	<b>Animal Tissues / Derivatives</b>
AgroDanieli Indústria e Comércio Ltda Rodovia 463, KM 14,5 Disrito Industrial Vila Langaro Rio Grande do Sul Brasil	<b>Animal Tissues / Derivatives</b>

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# EC Certificate - Full Quality Assurance System

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

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177 County Road B East  
St Paul  
Minnesota  
55117  
USA**

<b>Subcontractor:</b>	<b>Service(s) supplied</b>
Agropecuária Bolson Ltda. (Bolson) Rua Vereador Waldomiro Franco de Souza, S/N - Zona Suburbana Toledo Paraná Brasil	<b>Animal Tissues / Derivatives</b>
Bierig Brothers Inc. 3539 Reilly Ct. Vineland New Jersey 08360 USA	<b>Animal Tissues / Derivatives</b>
BRF - Brasil Foods S.A. Rua Senador Atilio Fontana, 86, Concordia/SC Brasil	<b>Animal Tissues / Derivatives</b>

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# EC Certificate - Full Quality Assurance System

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

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Certificate No:

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**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  
Brasil

**Animal Tissues / Derivatives**

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

**Animal Tissues / Derivatives**

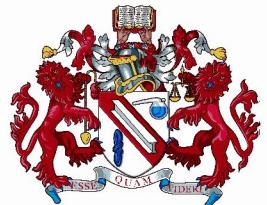
Frimesa Cooperativa Central  
Rua Bahia, 159,  
Medianeira/PR  
Brasil

**Animal Tissues / Derivatives**

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

**Manufacture**

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# EC Certificate - Full Quality Assurance System

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

## List of Significant Subcontractors

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Certificate No:

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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  
France

**Manufacture**

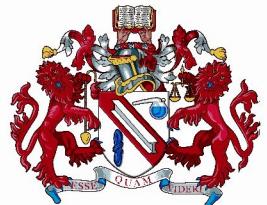
Irmãos do Valle  
(IDV)  
Rodovia BR 116, KM 116  
Caixa Postal 04 - Bairro:  
Campo Alto - Santa Cecilia  
Santa Catarina  
Brasil

**Animal Tissues / Derivatives**

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

**ETO Sterilization**

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# EC Certificate - Full Quality Assurance System

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

## List of Significant Subcontractors

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Certificate No:

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Date:

**2019-12-11**

Issued To:

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

**Subcontractor:****Service(s) supplied**

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

**Animal Tissues / Derivatives**

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

**Animal Tissues / Derivatives**

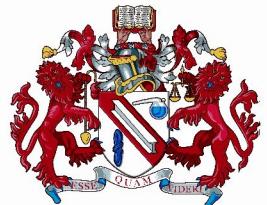
JBS S.A.  
Rodovia, GO 164, Km 167 S/N,  
Zona Rural,  
Mozarlândia/GO  
Brasil

**Animal Tissues / Derivatives**

JBS S.A.  
Rua Principal S/N, Vila Miisa,  
Ituiutaba/MG  
Brasil

**Animal Tissues / Derivatives**

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# EC Certificate - Full Quality Assurance System

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

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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**

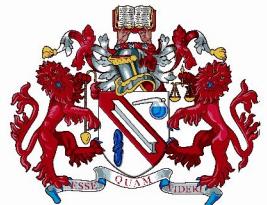
Mac Frios  
Rod. Antônio de Paiva Cantelmo,  
PR 566- KM 02, Zona Rural,  
Francisco Beltrão/PR  
Brasil

**Animal Tissues / Derivatives**

Marcho Farms Inc.  
519 Allentown Road  
Franconia  
Pennsylvania  
18924  
USA

**Animal Tissues / Derivatives**

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# EC Certificate - Full Quality Assurance System

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**

<b>Subcontractor:</b>	<b>Service(s) supplied</b>
Midwest Sterilization Corporation 1204 Lenco Avenue Jackson Missouri 63755 USA	<b>ETO Sterilization</b>
Oakey Abattoir Lot 1, Oakey Connection Road, Oakey QLD 4401 Australia	<b>Animal Tissues / Derivatives</b>
P&N Packaging Inc. 11627 Route 187 Wyalusing Pennsylvania 18853 USA	<b>Animal Tissues / Derivatives</b>

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# EC Certificate - Full Quality Assurance System

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  
USA

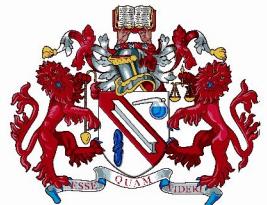
**Manufacture**

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

**Crucial Supplier**

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

**ETO Sterilization**...making excellence a habit.<sup>TM</sup>



By Royal Charter

# EC Certificate - Full Quality Assurance System

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  
Brasil

**Animal Tissues / Derivatives**

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

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By Royal Charter

# EC Certificate - Full Quality Assurance System

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:

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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  
14901 DeVeau Place  
Minnetonka  
Minnesota  
55345-2126  
USA

**Manufacture**

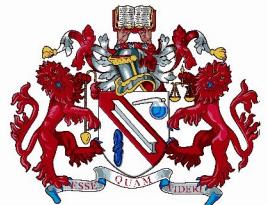
St. Jude Medical  
177 County Road B East  
St. Paul  
Minnesota  
55117  
USA

**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**

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# EC Certificate - Full Quality Assurance System

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 Vincielaan 11 Box F1  
1935 Zaventem  
Belgium

**EU Representative**  
**Labelling**  
**Packaging**

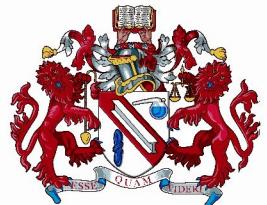
St. Jude Medical Costa Rica Ltda.  
Edificio #44  
Calle 0, Ave. 2  
Zona Franca Coyol  
El Coyol, Alajuela  
Costa Rica

**Manufacture**

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

**Final Inspection**  
**Manufacture**  
**Moist Heat Sterilization**

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# EC Certificate - Full Quality Assurance System

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

## List of Significant Subcontractors

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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  
20101  
Costa Rica

**ETO Sterilization**

Sterigenics US, LLC  
7775 South Quincy  
Willowbrook  
Illinois  
60527  
USA

**ETO Sterilization**

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By Royal Charter

# EC Certificate - Full Quality Assurance System

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:

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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  
Utah  
84116  
USA

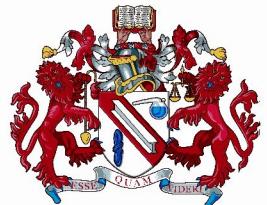
**ETO Sterilization**

Steris Isomedix Puerto Rico LLC  
State Road 690  
KM 1.7 Barrio Sabana Hoyos  
Vega Alta 00692  
Puerto Rico  
USA

**Gamma Irradiation**

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

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# EC Certificate - Full Quality Assurance System

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

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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**

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# 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 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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Page 1 of 3

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

# 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 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.
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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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	<p>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&amp;G Marketing Company.</p> <p>Addition of Abbott Medical Plymouth Site as a subcontractor for Manufacture.</p> <p>Addition of Midwest Sterilization Corporation as a subcontractor for ETO sterilization.</p> <p>Change subcontractor name 'SBR Suinos Brazil Ltda' to 'Agrodanieli Indústria e Comércio Ltda'.</p> <p>Additional minor alignments of subcontractor name and addresses with ISO certificates.</p>

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By Royal Charter

# EC Design-Examination Certificate

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

**No.** **CE 578290****Issued To:**  
**St. Jude Medical**  
**177 County Road B East**  
**St Paul**  
**Minnesota**  
**55117**  
**USA**

In respect of:

**Nonactive implants, Mechanical Heart Valves:**  
**SJM Regent™ Valve (Rotatable)**  
**SJM™ Masters Series (Rotatable)**

BSI has performed a design examination on the above devices in accordance with the Council Directive 93/42/EEC, Annex II Section 4. The design conforms to the requirements of this directive. 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 0086):

\_\_\_\_\_  
Stewart Brain, Head of Compliance & Risk -  
Medical DevicesFirst Issued: **2012-01-30**Date: **2019-03-01**Expiry Date: **2024-02-17**...making excellence a habit.<sup>TM</sup>

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# EC Design-Examination Certificate

## Supplementary Information to CE 578290

Issued To:

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

### Product: Nonactive implants, Mechanical Heart Valves:

Catalogue Number	Device Name	Model, Type	Intended purpose per IFU	Classification
17AGN-751	SJM Regent™ Valve (Rotatable)	17 mm Standard Polyester Cuff	Intended to replace the native aortic heart valve or previously implanted prosthetic valves.	Class III
19AGN-751		19 mm Standard Polyester Cuff		
21AGN-751		21 mm Standard Polyester Cuff		
23AGN-751		23 mm Standard Polyester Cuff		
25AGN-751		25 mm Standard Polyester Cuff		
27AGN-751		27 mm Standard Polyester Cuff		
29AGN-751		29 mm Standard Polyester Cuff		
17AGFN-756	SJM Regent™ Valve (Rotatable)	17 mm Standard Polyester FlexCuff™		
19AGFN-756		19 mm Standard Polyester FlexCuff™		
21AGFN-756		21 mm Standard Polyester FlexCuff™		
23AGFN-756		23 mm Standard Polyester FlexCuff™		
25AGFN-756		25 mm Standard Polyester FlexCuff™		
27AGFN-756		27 mm Standard Polyester FlexCuff™		
29AGFN-756		29 mm Standard Polyester FlexCuff™		

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

Date: **2019-03-01**

Expiry Date: **2024-02-17**

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Page 2 of 9

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Information and Contact: BSI, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP. Tel: + 44 345 080 9000  
 BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.  
 A member of BSI Group of Companies.

# EC Design-Examination Certificate

## Supplementary Information to CE 578290

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**St Paul**  
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**USA**

Catalogue Number	Device Name	Model, Type	Intended purpose per IFU	Classification
19AJ-501	SJM™ Masters Series (Rotatable)	19 mm Aortic / Polyester Cuff	Intended to replace the native aortic heart valve or previously implanted prosthetic valves.	Class III
21AJ-501		21 mm Aortic / Polyester Cuff		
23AJ-501		23 mm Aortic / Polyester Cuff		
25AJ-501		25 mm Aortic / Polyester Cuff		
27AJ-501		27 mm Aortic / Polyester Cuff		
29AJ-501		29 mm Aortic / Polyester Cuff		
31AJ-501		31 mm Aortic / Polyester Cuff		
19AECJ-502	SJM™ Masters Series (Rotatable)	19 mm Aortic / Expanded Polyester Cuff	Intended to replace the native aortic heart valve or previously implanted prosthetic valves.	Class III
21AECJ-502		21 mm Aortic / Expanded Polyester Cuff		
23AECJ-502		23 mm Aortic / Expanded Polyester Cuff		
25AECJ-502		25 mm Aortic / Expanded Polyester Cuff		
27AECJ-502		27 mm Aortic / Expanded Polyester Cuff		
29AECJ-502		29 mm Aortic / Expanded Polyester Cuff		
31AECJ-502		31 mm Aortic / Expanded Polyester Cuff		

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

Date: **2019-03-01**

Expiry Date: **2024-02-17**

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**USA**

Catalogue Number	Device Name	Model, Type	Intended purpose per IFU	Classification
17AHPJ-505	SJM™ Masters Series (Rotatable)	17 mm Aortic / HP Polyester Cuff	Intended to replace the native aortic heart valve or previously implanted prosthetic valves.	Class III
19AHPJ-505		19 mm Aortic / HP Polyester Cuff		
21AHPJ-505		21 mm Aortic / HP Polyester Cuff		
23AHPJ-505		23 mm Aortic / HP Polyester Cuff		
25AHPJ-505		25 mm Aortic / HP Polyester Cuff		
27AHPJ-505		27 mm Aortic / HP Polyester Cuff		
17AEHPJ-505	SJM™ Masters Series (Rotatable)	17 mm Aortic / Expanded HP Polyester Cuff	Intended to replace the native aortic heart valve or previously implanted prosthetic valves.	Class III
19AEHPJ-505		19 mm Aortic / Expanded HP Polyester Cuff		
21AEHPJ-505		21 mm Aortic / Expanded HP Polyester Cuff		
23AEHPJ-505		23 mm Aortic / Expanded HP Polyester Cuff		
25AEHPJ-505		25 mm Aortic / Expanded HP Polyester Cuff		
27AEHPJ-505		27 mm Aortic / Expanded HP Polyester Cuff		

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

Date: **2019-03-01**

Expiry Date: **2024-02-17**

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**USA**

Catalogue Number	Device Name	Model, Type	Intended purpose per IFU	Classification
19ATJ-503	SJM™ Masters Series (Rotatable)	19 mm Aortic / PTFE Cuff	Intended to replace the native aortic heart valve or previously implanted prosthetic valves	Class III
21ATJ-503		21 mm Aortic / PTFE Cuff		
23ATJ-503		23 mm Aortic / PTFE Cuff		
25ATJ-503		25 mm Aortic / PTFE Cuff		
27ATJ-503		27 mm Aortic / PTFE Cuff		
29ATJ-503		29 mm Aortic / PTFE Cuff		
31ATJ-503		31 mm Aortic / PTFE Cuff		
19MJ-501	SJM™ Masters Series (Rotatable)	19 mm Mitral / Polyester Cuff	Intended to replace the native mitral heart valve or previously implanted prosthetic valves	Class III
21MJ-501		21 mm Mitral / Polyester Cuff		
23MJ-501		23 mm Mitral / Polyester Cuff		
25MJ-501		25 mm Mitral / Polyester Cuff		
27MJ-501		27 mm Mitral / Polyester Cuff		
29MJ-501		29 mm Mitral / Polyester Cuff		
31MJ-501		31 mm Mitral / Polyester Cuff		
33MJ-501		33 mm Mitral / Polyester Cuff		
35MJ-501		35 mm Mitral / Polyester Cuff		
37MJ-501		37 mm Mitral / Polyester Cuff		

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

Date: **2019-03-01**

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Catalogue Number	Device Name	Model, Type	Intended purpose per IFU	Classification
19MECJ-502	SJM™ Masters Series (Rotatable)	19 mm Mitral / Expanded Polyester Cuff	Intended to replace the native mitral heart valve or previously implanted prosthetic valves	Class III
21MECJ-502		21 mm Mitral / Expanded Polyester Cuff		
23MECJ-502		23 mm Mitral / Expanded Polyester Cuff		
25MECJ-502		25 mm Mitral / Expanded Polyester Cuff		
27MECJ-502		27 mm Mitral / Expanded Polyester Cuff		
29MECJ-502		29 mm Mitral / Expanded Polyester Cuff		
31MECJ-502		31 mm Mitral / Expanded Polyester Cuff		
33MECJ-502		33 mm Mitral / Expanded Polyester Cuff		
17MHPJ-505	SJM™ Masters Series (Rotatable)	17 mm Mitral / HP Polyester Cuff	Intended to replace the native mitral heart valve or previously implanted prosthetic valves	Class III
19MHPJ-505		19 mm Mitral / HP Polyester Cuff		
21MHPJ-505		21 mm Mitral / HP Polyester Cuff		
23MHPJ-505		23 mm Mitral / HP Polyester Cuff		
25MHPJ-505		25 mm Mitral / HP Polyester Cuff		
27MHPJ-505		27 mm Mitral / HP Polyester Cuff		

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

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**177 County Road B East**  
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**Minnesota**  
**55117**  
**USA**

Catalogue Number	Device Name	Model, Type	Intended purpose per IFU	Classification
19MTJ-503	SJM™ Masters Series (Rotatable)	19 mm Mitral / PTFE Cuff	Intended to replace the native mitral heart valve or previously implanted prosthetic valves	Class III
21MTJ-503		21 mm Mitral / PTFE Cuff		
23MTJ-503		23 mm Mitral / PTFE Cuff		
25MTJ-503		25 mm Mitral / PTFE Cuff		
27MTJ-503		27 mm Mitral / PTFE Cuff		
29MTJ-503		29 mm Mitral / PTFE Cuff		
31MTJ-503		31 mm Mitral / PTFE Cuff		
33MTJ-503		33 mm Mitral / PTFE Cuff		
19METJ-504	SJM™ Masters Series (Rotatable)	19 mm Mitral / Expanded PTFE Cuff	Intended to replace the native mitral heart valve or previously implanted prosthetic valves	Class III
21METJ-504		21 mm Mitral / Expanded PTFE Cuff		
23METJ-504		23 mm Mitral / Expanded PTFE Cuff		
25METJ-504		25 mm Mitral / Expanded PTFE Cuff		
27METJ-504		27 mm Mitral / Expanded PTFE Cuff		
29METJ-504		29 mm Mitral / Expanded PTFE Cuff		
31METJ-504		31 mm Mitral / Expanded PTFE Cuff		
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## Supplementary Information to CE 578290

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**USA**

## Certificate History

Date	Reference Number	Action
30 January 2012	10130170	First Issue of mirror certificate to CE 544669
10 November 2013	10144187	Addition of InterVascular SAS (Maquet) La Ciotat, France facility as fabric supplier.
23 January 2014	10145129	Implementation of new sealing plate design and change in lid sealing parameters for SJM Mechanical Heart Valves and Annuloplasty Rings packaging.
14 February 2014	10145174	Certificate renewal. 70 product codes removed from the scope of the certificate.
25 February 2014	10144864	Updated Magnetic Resonance (MR) safety information in labelling.
28 March 2014	10146037	Change from Helium to Argon gas used in the pyrolytic carbon coating manufacturing process.
22 July 2014	10149696	Transfer of Heart Valve Components Manufacturing Steps to the St. Jude Medical, Caguas, Puerto Rico Facility.
25 August 2015	10156926	DuPont Tyvek Medical Transition Project update.

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

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Expiry Date: **2024-02-17**

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## Certificate History

Date	Reference Number	Action
26 October 2017	8795241	Change to an orifice graphite substrate specification. Removal of all products references XXA-101 and XXM-101.
Current	9645156	Certificate Renewal. Changed the certificate format with new tables.

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