

# Masters Series Mechanical Heart Valve

## Standard Cuff

### Aortic Valves



### Product Highlights

- Pyrolytic carbon leaflets and orifice ring offer exceptional durability and increased thromboresistance<sup>1</sup>
- 85 degree leaflet opening angle offers improved laminar flow and reduces turbulence<sup>2,4</sup>
- Controlled torque rotation mechanism allows for easy rotation and intraoperative adjustment
- The expanded Masters aortic cuff has approximately 25% more cuff 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
19AJ-501	19	14.8	1.63	1.16	Standard
21AJ-501	21	16.7	2.06	1.51	Standard
23AJ-501	23	18.6	2.55	2.03	Standard
25AJ-501	25	20.4	3.09	2.59	Standard
27AJ-501	27	22.5	3.67	3.08	Standard
29AJ-501	29	24.2	4.41	Not reported	Standard
31AJ-501	31	26.1	5.18	Not reported	Standard

1. Emery RW, Krugh CC, Arom KV, et al. The St. Jude Medical cardiac valve prosthesis: A 25-year experience with single valve replacement. *Ann Thorac Surg.* 2005;79:776-83.
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.
3. Feng Z, Nakamura T, Fujimoto T, et al. In vitro investigation of opening behavior and hydrodynamics of bileaflet valves in the mitral position. *Artificial Organs.* 2002;26(1):32-9.
4. Shipkowitz T, Ambrus J, Kurk J, et al. Evaluation technique for bileaflet mechanical valves. *J Heart Valve Dis.* 2002;11(2):275-82.
5. St. Jude Medical MRI Safety Document.
6. Walker DK, Brendzel AM, Scutten LN. The new St. Jude Medical Regent mechanical heart valve: Laboratory measurements of hydrodynamic performance. *J Heart Valve Dis.* 1999;8(6):687-96.

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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