

Medtronic Open Pivot™ Mechanical Heart Valves

Exceptional performance and quality of life benefits.

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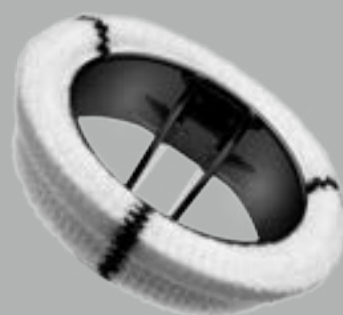
PERFORMANCE IN DESIGN.

- Excellent hemodynamics and reduced hemolysis^{1,2}
- Unique axis of suspension responds to physiological demands leading to excellent hemodynamic performance³
- Single-plane orifice for implantability
- A remarkably quiet valve



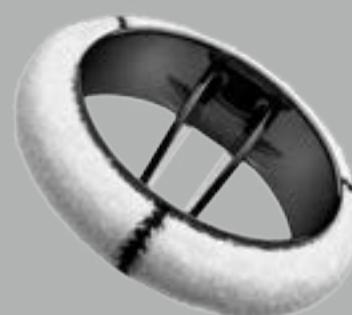
References

1. Shiono M, Sezai Y, Sezai A, et al. Multi-institutional experience of the ATS open pivot bileaflet valve in Japan. *Ann Thorac Cardiovasc Surg.* 1996;2(1):51-8.
2. Krian A. Clinical results of a large series of ATS valve implants. In: Krian A, Matloff JM, Nicoloff DM, eds. *Advancing the technology of bileaflet mechanical heart valves*: Springer Verlag; 1998:53-71.
3. Feng Z, et al. In vitro hydrodynamic characteristics among three bileaflet valves in the mitral position. *Artif Organs.* 2000;24(5):346-54.



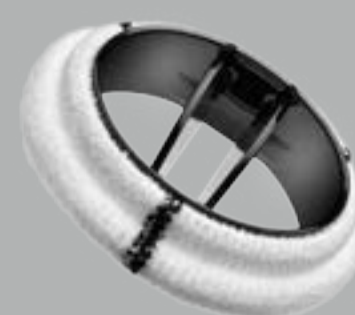
Open Pivot Standard

Intra-annular valve with generous, compliant cuff for exceptional implantability



Open Pivot AP

Supra-annular compact cuff configuration for excellent suturability and conformability



Open Pivot AP360

Supra-annular flanged cuff configuration for maximum flexibility, needle penetration and conformability

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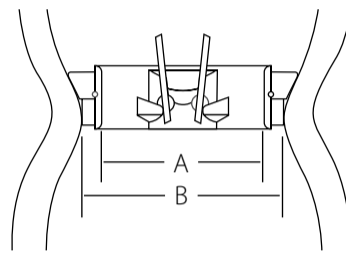
HEART VALVES

SURGICAL ABLATION

REVASCULARIZATION

Open Pivot Standard Heart Valve Aortic

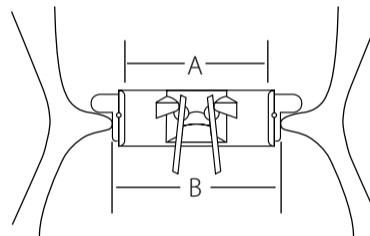
Order Number	Valve Size (mm)	A Orifice Inner Diameter (mm)	B Tissue Annulus (mm)	Geometric Orifice Area (cm ²)
500FA19	19	14.8	19.5	1.55
500FA21	21	16.8	21.5	2.02
500FA23	23	18.8	23.5	2.56
500FA25	25	20.8	25.5	3.17
500FA27	27	22.8	27.5	3.84
500FA29	29	24.8	29.5	4.59
500FA31	31	26.8	31.5	5.35



Standard Aortic

Open Pivot Standard Heart Valve Mitral

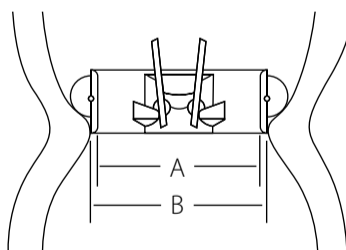
Order Number	Valve Size (mm)	A Orifice Inner Diameter (mm)	B Tissue Annulus (mm)	Geometric Orifice Area (cm ²)
500DM19	19	14.8	19.5	1.55
500DM21	21	16.8	21.5	2.02
500DM23	23	18.8	23.5	2.56
500DM25	25	20.8	25.5	3.17
500DM27	27	22.8	27.5	3.84
500DM29	29	24.8	29.5	4.59
500DM31	31	26.8	31.5	5.35
500DM33	33	26.8	33.5	5.35



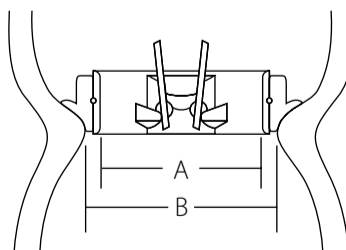
Standard Mitral

Open Pivot AP and AP360° Heart Valves Aortic

Order Number	Valve Size (mm)	A Orifice Inner Diameter (mm)	B Tissue Annulus (mm)	Geometric Orifice Area (cm ²)
501DA16/505DA16	16	14.8	16.2	1.55
501DA18/505DA18	18	16.8	18.2	2.02
501DA20/505DA20	20	18.8	20.2	2.56
501DA22/505DA22	22	20.8	22.2	3.17
501DA24/505DA24	24	22.8	24.2	3.84
501DA26/505DA26	26	24.8	26.2	4.59
501DA28/505DA28	28	26.8	28.2	5.35



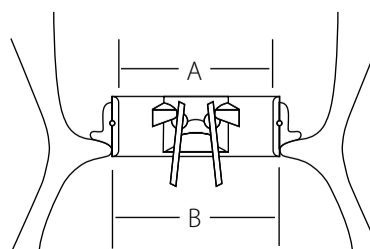
AP Aortic



AP360° Aortic

Open Pivot AP360° Heart Valves Mitral

Order Number	Valve Size (mm)	A Orifice Inner Diameter (mm)	B Tissue Annulus (mm)	Geometric Orifice Area (cm ²)
501DM16	16	14.8	16.2	1.55
501DM18	18	16.8	18.2	2.02
501DM20	20	18.8	20.2	2.56
501DM22	22	20.8	22.2	3.17
501DM24	24	22.8	24.2	3.84
501DM26	26	24.8	26.2	4.59
501DM28	28	26.8	28.2	5.35



AP360° Mitral

Open Pivot Accessories

Order Number	Description
576	OPHV Sizer Set, (Std, AP series, Handle, Tray)
556	OPHV Aortic and Mitral Handle Rotator Set
558	OPHV Leaflet Actuators (Non-sterile bag of 5)
569	OPHV Bendable Handle
577	OPHV Standard Sizer Set (just sizers)
578	OPHV AP Series Sizer Set (just sizers)
579	OPHV Sizer Sterilization Tray (tray only)
580	OPHV Screw-on Mitral Rotator End Set

Open Pivot Intra-annular Aortic Valve Graft

Order Number	Description
502AG21	21mm
502AG23	23mm
502AG25	25mm
502AG27	27mm
502AG29	29mm

