With more than 40 years of heart valve innovations, we took proven valve design concepts and adapted them for excellent implantability for you and performance for your patients.

PROVEN PLUS.

Introducing the Avalus™ Aortic Valve by Medtronic.
YOU WANT THE VERY BEST FOR YOUR PATIENTS. SO DO WE.

We designed the next generation bovine pericardial valve for better overall performance, improved implant experience, and a contemporary design to facilitate future valve-in-valve (ViV).

Interior-mounted leaflets minimize damaging contact with the frame — a design platform for long-term durability.

AOA™ tissue treatment* to mitigate calcification — over 20 years of clinical use on the Medtronic surgical tissue valve portfolio.¹,²

PROVEN

- Supra-annular design to enhance hemodynamics³
- Three laser cut bovine pericardial leaflets matched for thickness and deflection to provide consistent performance
- Two-part polymer frame minimizes stress zones on leaflets
- Sewing markers facilitate suture placement and valve orientation

*No clinical data is available which evaluates the long-term impact of AOA treatment in patients.
Ease of Implant for You

- Soft and pliable sewing cuff facilitates needle penetration, suture placement, and valve seating for an improved implant experience
- Lower valve profile and narrow commissure posts expand ostia clearance and give you more space for knot tying
- Streamlined valve holder improves visibility in both standard and minimally invasive approaches
- Simple one-cut release

Polyetheretherketone (PEEK) polymer stent provides strength and flexibility, and offers resistance to permanent deformation.

PLUS

Polyetheretherketone (PEEK) polymer stent provides strength and flexibility, and offers resistance to permanent deformation.
Performance and Lifetime Management for Your Patients

- Valve dimensions and geometry enable future ViV replacements
- PEEK base frame impregnated with barium sulfate provides for radiopacity and visibility
- Polymer frame mitigates the risk of potential metal on metal corrosion with transcatheter stent materials
- MRI Safe in all MR environments without conditions

Flexible support frame with firm base designed to maintain circularity and consistent hemodynamic performance.

Designed to achieve 100% coaptation and minimize central regurgitation.
Avalus Valve

<table>
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<tr>
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<th>Valve</th>
<th>Size</th>
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TAD – Tissue Annulus Diameter

*Measurement shows stent frame including tissue (2) and stent frame excluding tissue (2a).

Avalus™ Bioprosthesis

Indications: The Avalus bioprosthesis is indicated for the replacement of diseased, damaged, or malfunctioning native or prosthetic aortic valves.

Contraindications: None known. Warnings/Precautions/Adverse Events: Only physicians who have received proper training in valve replacement should use this device. Accelerated structural deterioration due to calcific degeneration of bioprosthesis may occur in children, adolescents, young adults, and patients with altered calcium metabolism (e.g., chronic renal failure, or hyperparathyroidism). Adverse events can include: angina, cardiac dysrhythmias, endocarditis, heart failure, hemolysis, hemolytic anemia, hemorrhage, infection other than endocarditis, transvalvular or paravalvular leak, myocardial infarction, nonstructural valve dysfunction (leaflet entrapment/impingement, obstructive pannus ingrowth, suture dehiscence, inappropriate sizing or positioning, or other), pericardial effusion or tamponade, prosthetic regurgitation, prostheses stenosis, thrombosis, stroke, structural valve deterioration (calcification, leaflet tear or perforation, or other), thromboembolic, tissue dehiscence, and transient ischemic attack. These complications could lead to reoperation, explant of the bioprosthesis, permanent disability, or death. Caution: Federal law (USA) restricts this device to sale by or on the order of a physician. For a listing of indications, contraindications, precautions, warnings, and potential adverse events, please refer to the Instructions for Use. For countries that use eIFUs, consult instructions for use at www.medtronic.com/manuals.

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04/2018

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References

Ordering and Specifications

Accessories

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