

Mosaic™  
Bioprosthesis



# UNDENIABLY DURABLE.<sup>1,2</sup>

An evolution in durability and implantability,  
based on the proven platform of the Hancock™ II valve.



**Medtronic**  
Further, Together

The Mosaic bioprosthesis — based on more than 30 years of Medtronic tissue valve design expertise — is an excellent choice for surgeons looking for long-lasting durability, exceptional performance and implantability for aortic, mitral and MICS procedures. This versatility, as well as its numerous other benefits make it a great choice for a wide variety of patients.



# 81%

**AORTIC** | freedom from explant due to SVD at 17 years<sup>1</sup>

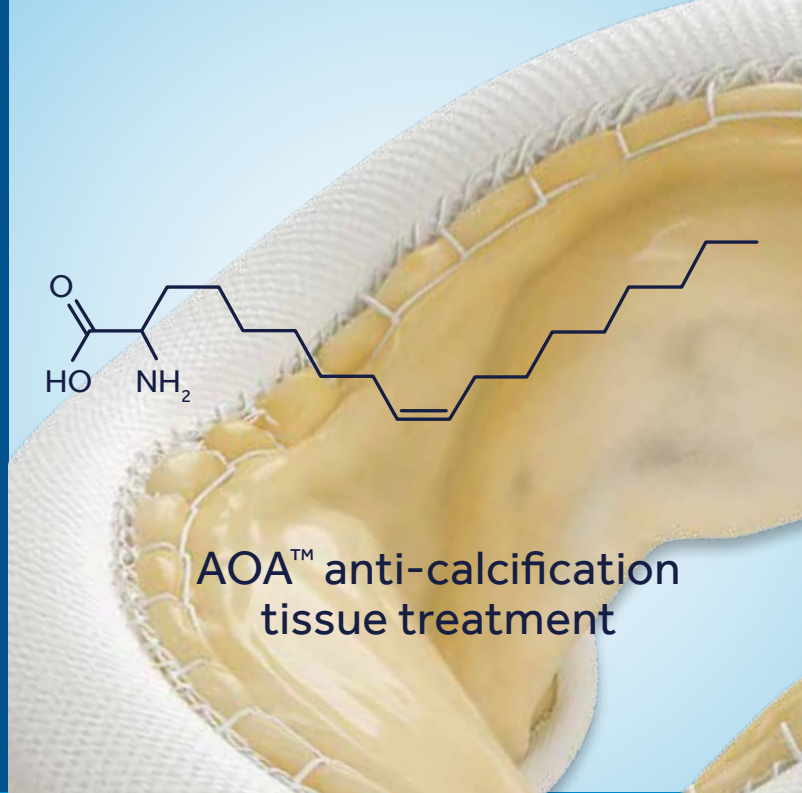
# 80%

**MITRAL** | freedom from explant due to SVD at 16 years<sup>2</sup>

## DURABILITY

Published clinical experience demonstrates impressive long-term performance in all age groups. Additional factors that may contribute to durability are:

- Proprietary AOA™ anti-calcification tissue treatment that mitigates calcification and protects the tissue\*
- Next generation flexible polymer stent allows for absorption of stress produced during the cardiac cycle
- The Medtronic Physiologic Fixation process minimizes the stress applied to the leaflets during tissue fixation

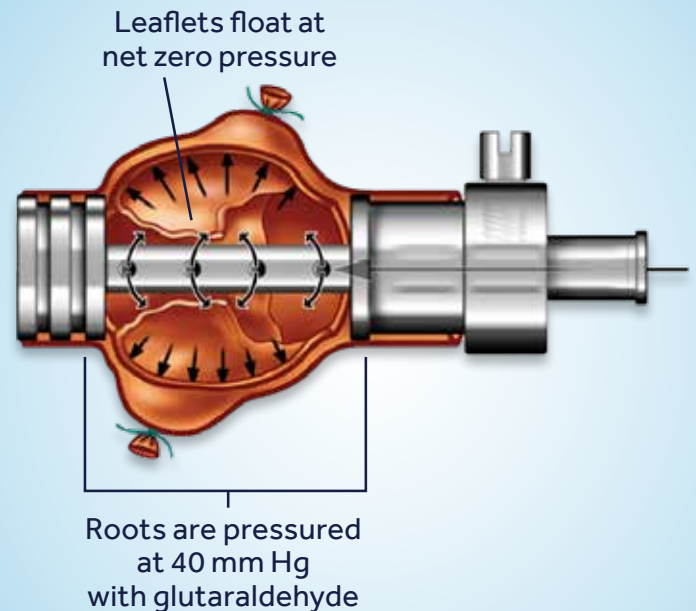


# PERFORMANCE &

## ADVANCED TISSUE FIXATION

Our exclusive Physiologic Fixation process mitigates biomechanical failures and promotes long-term valve durability by:

- Improved preservation of valve structure and leaflet function, allowing it to function similar to a native valve
- Allowing leaflets to remain soft and flexible which protects the tissue from cyclic fatigue



\*No clinical data is available which evaluates the long-term impact of the Physiologic Fixation process or the impact of AOA treatment in patients.

## EASE OF IMPLANT

Our innovative Cinch™ implant system further capitalizes on the valve's flexible stent to facilitate valve implantation, particularly through a tight sinotubular space. It also:

- Improves overall visualization
- Has stent posts that deflect to allow for easier knot tying near the posts in aortic replacements
- Helps prevent suture looping
- Facilitates minimally invasive procedures
- Protects tissue from inadvertent damage



# IMPLANTABILITY

## SUITABILITY FOR FUTURE INTERVENTIONS

Valve dimensions and geometry facilitate future valve-in-valve (ViV) replacements. This includes:

- Radiopaque stent post eyelets, which provide visible coaxial markers during ViV procedures
- MR conditional, non-metallic frame mitigates risk of corrosion between SAV and TAV stent materials
- Interior-mounted leaflets mitigate potential risk of coronary obstruction





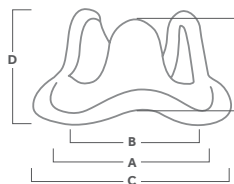
With our comprehensive portfolio of solutions for surgical and interventional approaches, **we support the lifetime management of your patients — every beat, every day.**

Medtronic and you.  
Let's take healthcare  
Further, Together.

# PRODUCT SPECIFICATIONS

## Mosaic™ Aortic Valve, Model 305

Order Number	Valve Size (Stent O.D.†) (± 0.5 mm)	Orifice Diameter (Stent I.D.) (± 0.5 mm)	Suture Ring Diameter (± 1 mm)	Valve Height (± 0.5 mm)	Aortic Protrusion (± 0.5 mm)
	(A)	(B)	(C)	(D)	(E)
305C219	19	17.5	25.0	13.5	11.0
305C221	21	18.5	27.0	15.0	12.0
305C223	23	20.5	30.0	16.0	13.5
305C225	25	22.0	33.0	17.5	15.0
305C227	27	24.0	36.0	18.5	15.5
305C229	29	26.0	39.0	20.0	16.0

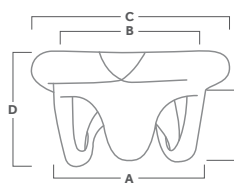


### References

1. Mosaic Aortic Bioprosthesis 17-year Clinical Compendium. ©2016 Medtronic.
2. Mosaic Mitral Bioprosthesis 16-year Clinical Compendium. ©2016 Medtronic.

## Mosaic™ Mitral Valve, Model 310

Order Number	Valve Size (Stent O.D.†) (± 0.5 mm)	Orifice Diameter (Stent I.D.) (± 0.5 mm)	Suture Ring Diameter (± 1 mm)	Valve Height (± 0.5 mm)	Ventricular Protrusion (± 0.5 mm)
	(A)	(B)	(C)	(D)	(E)
310C25	25	22.5	33.0	18.0	13.5
310C27	27	24.0	35.0	19.0	14.0
310C29	29	26.0	38.0	20.5	15.5
310C31	31	28.0	41.0	22.0	17.0
310C33	33	30.0	43.0	23.0	17.5



### Mosaic Bioprosthesis

**Indications:** For the replacement of malfunctioning native or prosthetic aortic and/or mitral heart valves.

**Contraindications:** None known.

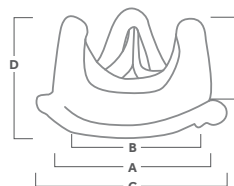
**Warnings/Precautions/Adverse Events:** Accelerated deterioration due to calcific degeneration of bioprosthesis may occur in: children, adolescents, young adults, and patients with altered calcium metabolism (e.g., chronic renal failure, hyperparathyroidism). Adverse events can include: angina, cardiac arrhythmia, cardiac dysrhythmias, death, endocarditis, heart failure, hemolysis, hemolytic anemia, hemorrhage, transvalvular or paravalvular leak, myocardial infarction, nonstructural dysfunction, stroke, structural deterioration, thromboembolism, or valve thrombosis.

**Caution:** Federal law (USA) restricts these devices 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 this website [www.medtronic.com/manuals](http://www.medtronic.com/manuals). Note: Manuals can be viewed using a current version of any major internet browser.

## Mosaic Ultra™ Aortic Valve, Model 305

Order Number	Valve Size (Stent O.D.†) (± 0.5 mm)	Orifice Diameter (Stent I.D.) (± 0.5 mm)	Suture Ring Diameter (± 1 mm)	Valve Height (± 0.5 mm)	Aortic Protrusion (± 0.5 mm)
	(A)	(B)	(C)	(D)	(E)
305U219	19	17.5	24.0	13.5	11.0
305U221	21	18.5	26.0	15.0	12.0
305U223	23	20.5	28.0	16.0	13.5
305U225	25	22.5	30.0	17.5	15.0
305U227	27	24.0	32.0	18.5	15.5
305U229	29	26.0	34.0	20.0	16.0



## Mosaic™ Bioprosthesis Accessories

Order Number	Description
T7308C	Mosaic Aortic Sizers
T7615MSM	Tray, Accessory, Mosaic, Mitral
T7308U	Tray, Accessory, Mosaic Ultra Aortic
7308U	Mosaic Ultra Aortic Sizers
7639	Handle (234 mm length) pliant, without locknut to be used with Mosaic or Mosaic Ultra prostheses
7639XL	Handle (368 mm length) pliant, without locknut to be used with Mosaic or Mosaic Ultra prostheses
7308C	Mosaic Aortic Sizer Set (no handles, no tray)
7310	Mosaic Mitral Obturator Set (no handles, no tray)

† Equivalent to annulus diameter

# Medtronic

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