Gelweave™ Valsalva
The world’s FIRST anatomically designed aortic root graft

Valve-Sparing Reimplantation

The Gelweave<sup>TM</sup> Valsalva Sinus Design

- features a 15 year clinical history<sup>5</sup>
- closely matches aortic root anatomy<sup>1</sup>
- effectively mimics<sup>2</sup> and generates the 3 independent sinuses of Valsalva<sup>6</sup>
- more physiologic valve motion<sup>3</sup>
- provides the potential to reduce tension on the coronary anastomoses<sup>3</sup>
- potential for increased valve longevity<sup>7</sup>
Reimplantation with the Gelweave™ Valsalva graft maintains annular stability.

Valve-Sparing Reimplantation

Postoperative Gelweave™ Valsalva graft sinus geometry

Long axis view of the aortic root during systole showing sinus geometry and space between the valve leaflets and graft wall. (LV = left ventricle, S = sinus, Ao = aorta)

Short axis view of the sinus region during diastole illustrating the presence of 3 discrete sinuses (S).

The sinotubular junction and sinuses of Valsalva are crucial for the normal functioning of the valve.

Images courtesy of Professor Ruggero De Paulis, Dept of Cardiac Surgery, European Hospital, Rome, Italy
Biological Bentall Procedures

The graft design enables stentless and stented biological valve conduits to be created\(^9,10\) resulting in a more physiologic flow pattern.\(^2\)

The Gelweave\(^\text{TM}\) Valsalva Sinus Design

- allows a space to be created between stented valve struts and the graft wall minimizing the potential of coronary button complications\(^9\)
- provides the potential to reduce tension on the coronary buttons\(^9,10\)
- reduces the risk of leaflet contact with the graft wall during systole\(^10\)
- potential for increased valve longevity\(^10\)

Implanted assembled biological valve conduits
The ability of the [Gelweave™] Valsalva graft to provide three independent sinuses of normal shape and dimension makes the reimplantation procedure applicable to virtually every patient. This, in turn, will result in improved **standardization** and greater reproducibility of the results.”

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## Product Ordering Information

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<th>BODY LENGTH cm</th>
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![Diagram of a cylindrical part with labeled dimensions: Bore, Body, Skirt, Collar.](image-url)
References


4. Data on file at Vascutek Ltd.


Product availability subject to regulatory approval.

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