References:

4. Data on file at Vascutek Ltd.

“The ability of the [Gelweave™] Valsalva graft to provide independent sinuses of normal shape and dimension makes the reimplantation procedure applicable to virtually every patient. This, in turn, will result in improved standardisation and greater reproducibility of the results.” 6

Mimics native sinuses of Valsalva
Physiological valve motion and flow pattern
Gelweave™ technology with excellent handling

Product availability subject to local regulatory approval.
Valve-Sparing Reimplantation

The Gelweave™ Valsalva Sinus Design

- features a 15 year clinical history
- closely matches aortic root anatomy
- effectively mimics and generates the 3 independent sinuses of Valsalva
- more physiologic valve motion
- provides the potential to reduce tension on the coronary anastomoses
- potential for increased valve longevity

Gelweave™ Valsalva

- The sinotubular junction and sinuses of Valsalva are crucial for the normal functioning of the valve
- 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.
- Short axis view of the sinus region during diastole illustrating the presence of 3 discrete sinuses.

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 resulting in a more physiologic flow pattern.

The Gelweave™ Valsalva Sinus Design

- allows a space to be created between stented valve struts and the graft wall minimising the potential of coronary button complications
- provides the potential to reduce tension on the coronary buttons
- reduces the risk of leaflet contact with the graft wall during systole
- potential for increased valve longevity

Implanted assembled biological valve conduits

- Representative image of Gelweave™ Valsalva graft with stentless valve added in situ
- Representative image of Gelweave™ Valsalva graft with stented valve added in situ

References are available on the back cover of this leaflet.