

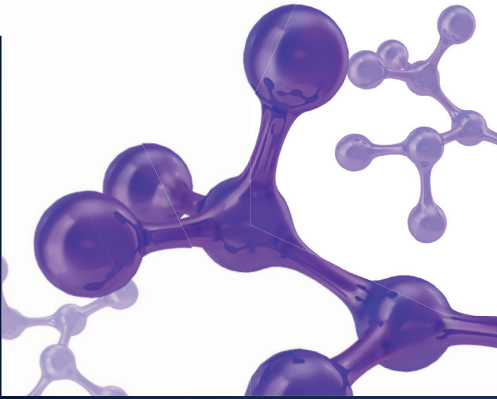
VIVERE®



 **BRAILE**

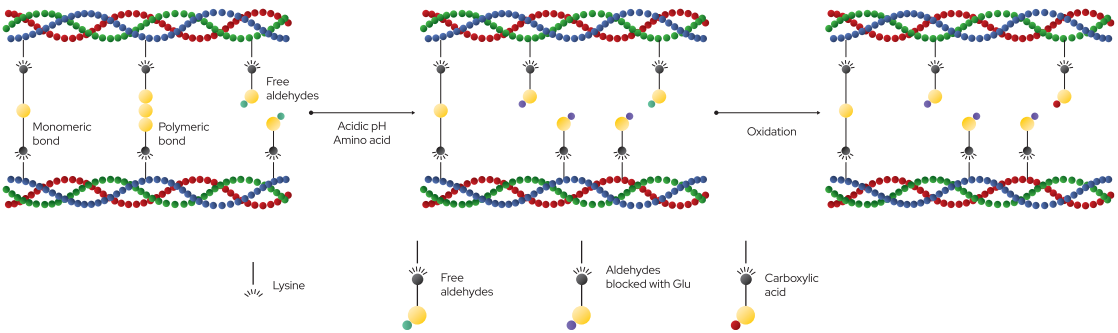
LIFE-SAVING TECHNOLOGIES

The VIVERE valve is a biological prosthesis made from bovine pericardium, indicated for the replacement of the aortic valves (intra-annular and supra-annular), mitral, tricuspid, or pulmonary. It features a new aortic design, with a low profile, in addition to the exclusive anticalcification treatment: REALOG®.



REALOG® Treatment

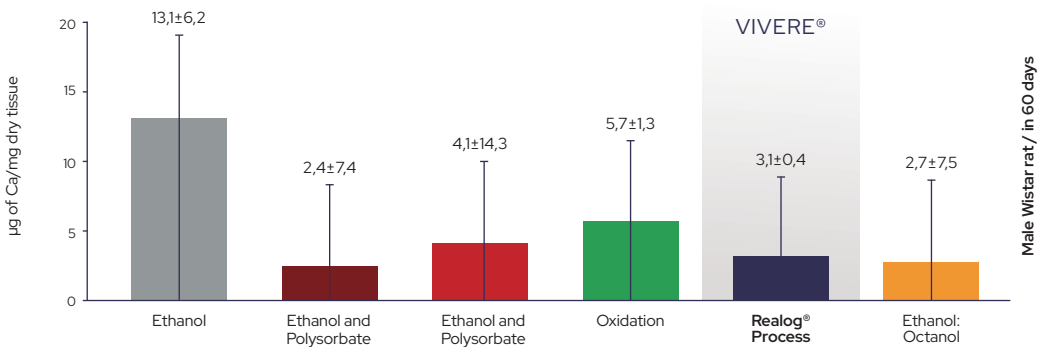
The process includes treatment with glutamic acid (Glu), followed by oxidation, resulting in the blocking of free aldehyde groups and the reduction of polymeric glutaraldehyde cross-links, which lowers the calcification rate.



Durability & Quality

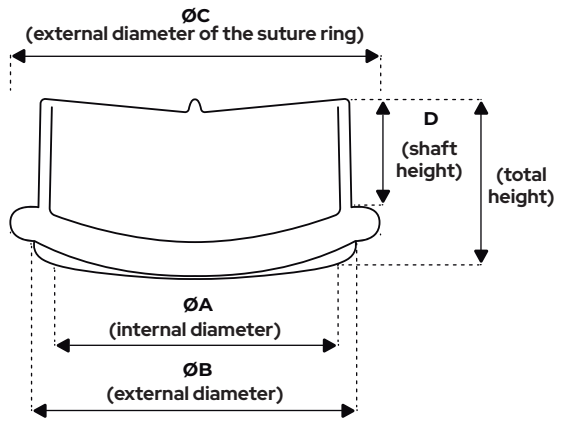


Subcutaneous calcification index



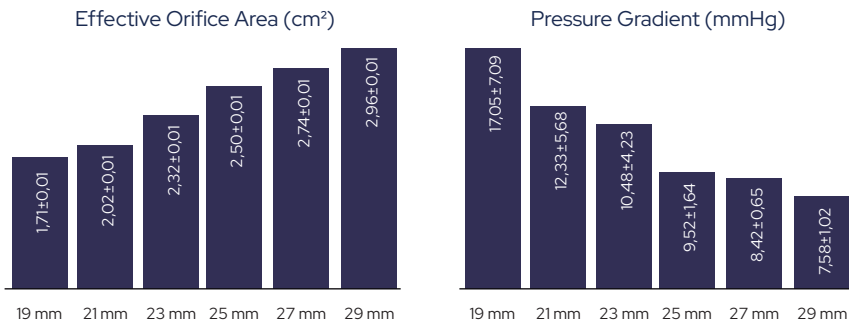
* No clinical data are available to assess the long-term impact of the REALOG® treatment in patients.
 * Comparative chart with other anticalcification solutions.
 Braile-Sternieri MCVB, Goissis G, Gigliotti AF, Ramirez VDA, Pereira NP, de Vasconcellos A, Basso-Frazzato GG, Braile DM. In vivo evaluation of Vivere bovine pericardium valvular bioprosthesis with a new anti-calcifying treatment. *Artif Organs*. 2020
 Braile MCVB et al. In vitro properties and performance of glutaraldehyde-crosslinked bovine pericardial bioprostheses treated with glutamic acid. *Artif Organs* 2011;35(5):497-501
 In terms of calcification, BF/GA + Glu remained more stable, with a lower rate: 3.1 ± 0.2 µg Ca/mg dry tissue compared to 5.7 ± 1.3 µg in PB/GA.

Aortic Valve

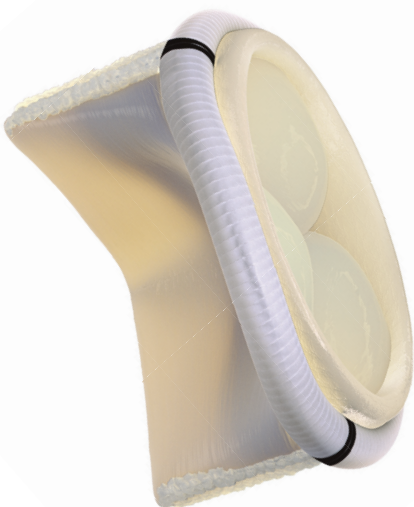


Size	$\varnothing A (\pm 0,5)$	$\varnothing B (\pm 0,5)$	$\varnothing C (\pm 1,0)$	$D (\pm 0,5)$	$E (\pm 0,5)$	Code
19	14	19	23	7	10	610651
21	16	21	25	8	11	610652
23	18	23	27	9	12	610653
25	20	25	29	10	13	610654
27	22	27	31	11	14	610656
29	24	29	33	12	15	610658

*Table measurements in mm



*In vitro results.



Durability of 12 years demonstrated in a clinical study with the first-generation valve in young patients*¹

*mean age: 53.6 ± 15.1 years

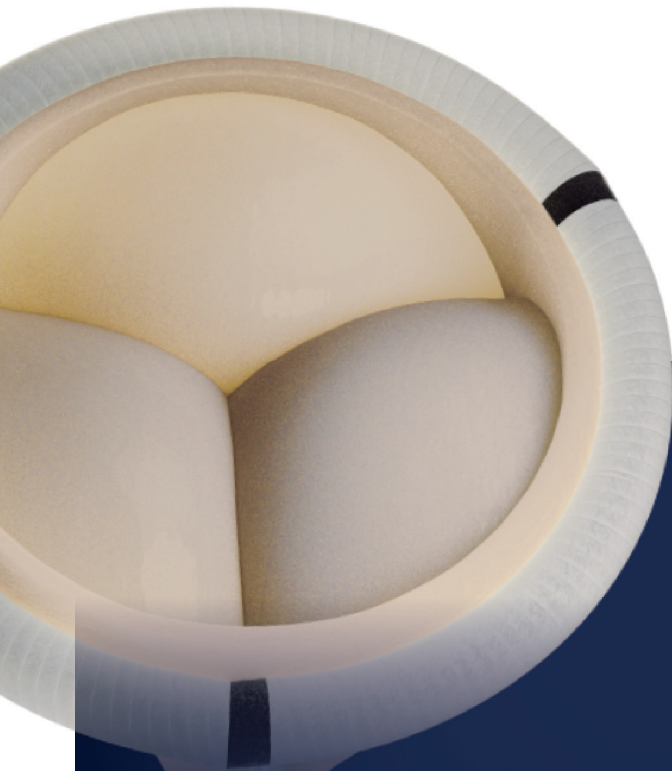
Free from reoperation due to structural valve deterioration: 96.1% ± 2.¹

Overall actuarial survival rate: 91.7%¹

Free from Structural Valve Deterioration: 98.57%.²

¹Braille MCVB et al. Aortic valve replacement using bovine pericardial bioprostheses: 12 years of experience. Braz J. Cardiovasc 2003; 18(3):217-20.

²Azeredo LG e al. Late outcome analysis of the Braile Biomédica pericardial valve in the aortic position. Braz J. Cardiovasc Surg 2014;29(3):316-21.



Leaflets manufactured from a single piece of bovine pericardium.

Ensuring more homogeneous behavior regarding hemodynamics, greater resistance to wear and functional fatigue, resulting from the greater uniformity in the orientation of collagen and elastic fibers.

Indexed Effective Orifice Area

Aortic Valve Size (mm)		19	21	23	25	27	29
EOA (cm ²)		1,71	2,02	2,32	2,5	2,74	2,96
Body Surface Area (m ²)	1	1,71	2,02	2,32	2,5	2,74	2,96
	1,1	1,55	1,84	2,11	2,27	2,49	2,69
	1,2	1,43	1,68	1,93	2,08	2,28	2,47
	1,3	1,32	1,55	1,78	1,92	2,11	2,28
	1,4	1,22	1,44	1,66	1,79	1,96	2,11
	1,5	1,14	1,35	1,55	1,67	1,83	1,97
	1,6	1,07	1,26	1,45	1,56	1,71	1,85
	1,7	1,01	1,19	1,37	1,47	1,61	1,74
	1,8	0,95	1,12	1,29	1,39	1,52	1,64
	1,9	0,9	1,06	1,23	1,32	1,44	1,56
	2	0,86	1,01	1,16	1,25	1,37	1,48
	2,1	0,81	0,96	1,1	1,19	1,3	1,41
	2,2	0,78	0,92	1,05	1,13	1,24	1,35
	2,3	0,74	0,88	1,01	1,09	1,2	1,3
	2,4	0,71	0,84	0,97	1,04	1,14	1,23
	2,5	0,68	0,81	0,93	1	1,1	1,18

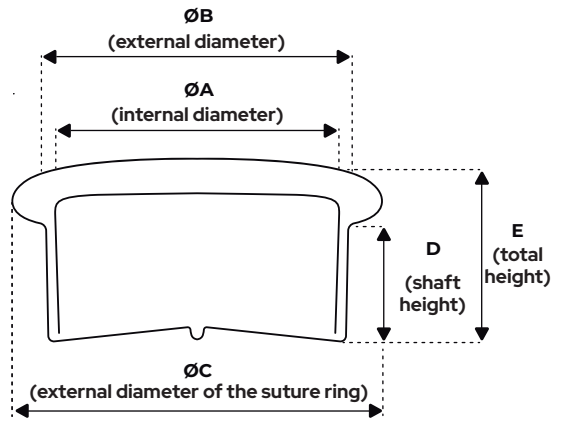
EOA: Effective Orifice Area; BSA: Body Surface Area; PPM: Prosthesis–Patient Mismatch.

■ An EOA > 0.85 cm²/m²

■ Values between 0.65 and 0.85 cm²/m² | Borderline PPM

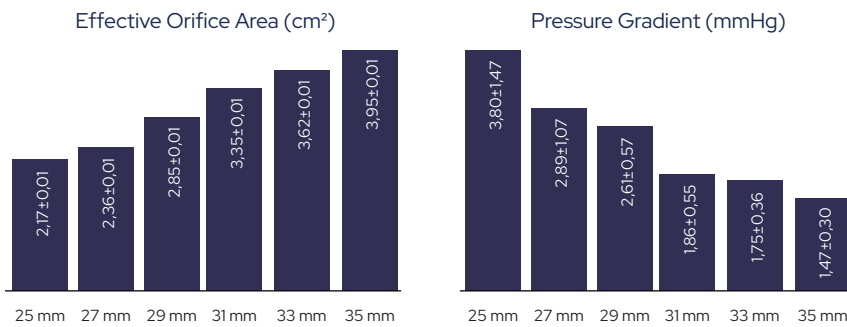
■ An EOA < 0.65 cm²/m² PPM and should be avoided

Mitral Valve



Size	$\varnothing A (\pm 0,5)$	$\varnothing B (\pm 0,5)$	$\varnothing C (\pm 1,0)$	D ($\pm 0,5$)	E ($\pm 0,5$)	Code
25	20	25	29	10	13	610655
27	22	27	31	11	14	610657
29	24	29	33	12	15	610659
31	26	31	35	13	16	610660
33	28	33	37	13	16	610661
35	30	35	39	14	17	610662

*Table measurements in mm



*In vitro results.



Designed based on the first-generation valve, with a durability of 11 years in the mitral position.³

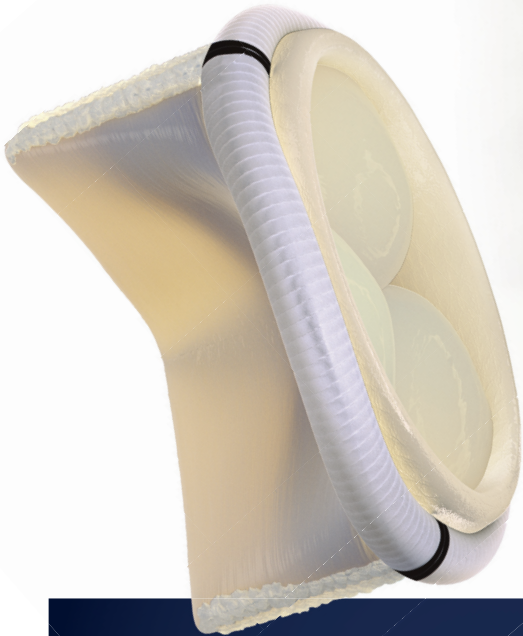
Free from calcification up to the age of 73 in 89%, 95% of patients free from fatal complications, and 99.1% free from rupture.³

³: Braile DM et al. IMC bovine pericardial valve: 11 years. J. Cardiac Surg 1991;6(4)580-8.



See the clinical studies and studies related to our biological valves.

Know-how in bovine pericardium prostheses.



**More than 48 years
in the market.**




Separate Accessories:

Description	Sizes for Aortic and Mitral Heart Valves
Code	328720
Registration	10159030105



Follow us on social media:

 /brailebiomedica

 @brailebiomedica



Braile Biomédica Indústria, Comércio e Representações Ltda.

Av. Pres. Juscelino K. de Oliveira, 1505 | Jardim Tarraf I

CEP 15091-450 | São José do Rio Preto - SP | Brasil

CNPJ: 52.828.936/0001-09 | Anvisa no. 10159030107

Technical responsible: Vlademir D. A. Ramirez - CRF-SP 09010