

Transcatheter Aortic Valve







Key Features



Self-Expandable Nitinol Frame

Conformable to native annulus

Three Tentacle Design
Less metal at outflow

Large Frame Cells (≥15F)

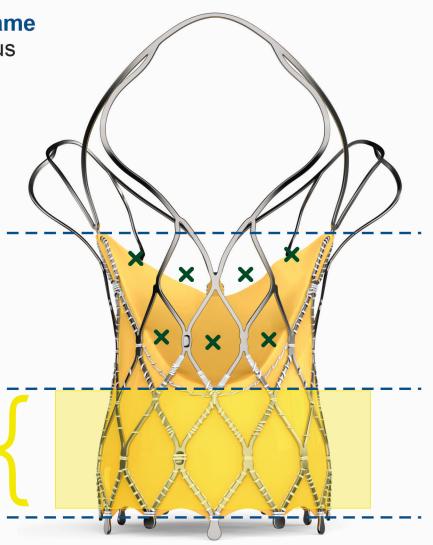
Facilitates easy access to the coronary arteries

Extended Sealing Skirt

Mitigates paravalvular leak

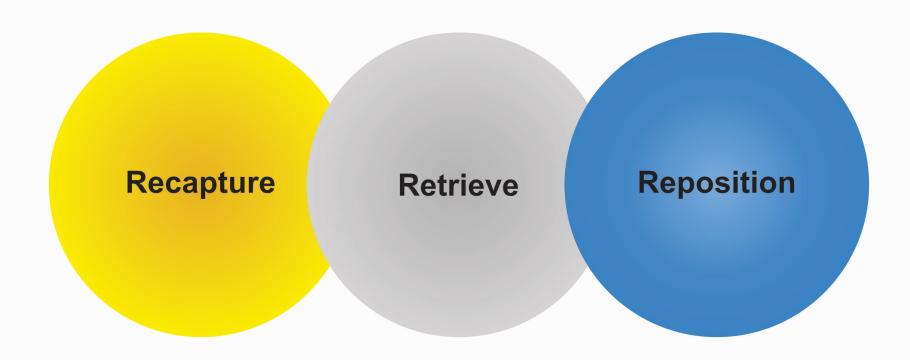
Non-Flared Inflow Part

Reduces conduction abnormality



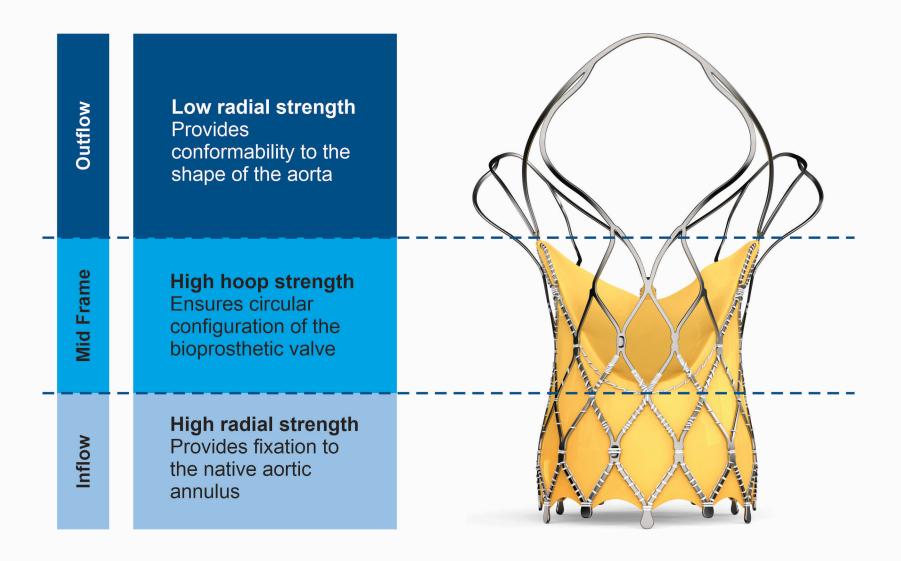
Each 'X' represents a single large cell





Hydra Aortic Valve

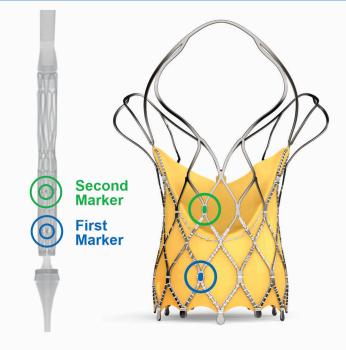


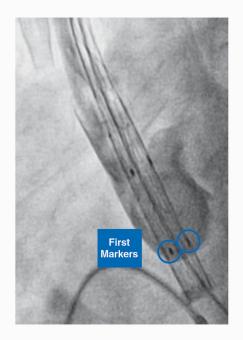


Marker Location and Significance

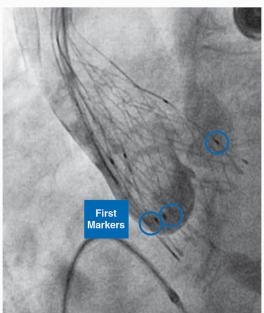


- First self-expanding TAVI device to have 2 rows of marker
 - First markers are located at Node 1
 - Second markers are located at Node 3
- First markers help
 - In precise implantation of the valve at the targeted implantation zone
 - To ascertain the depth of implant
- Second markers indicate
 - When the THV leaflets are going to get deployed





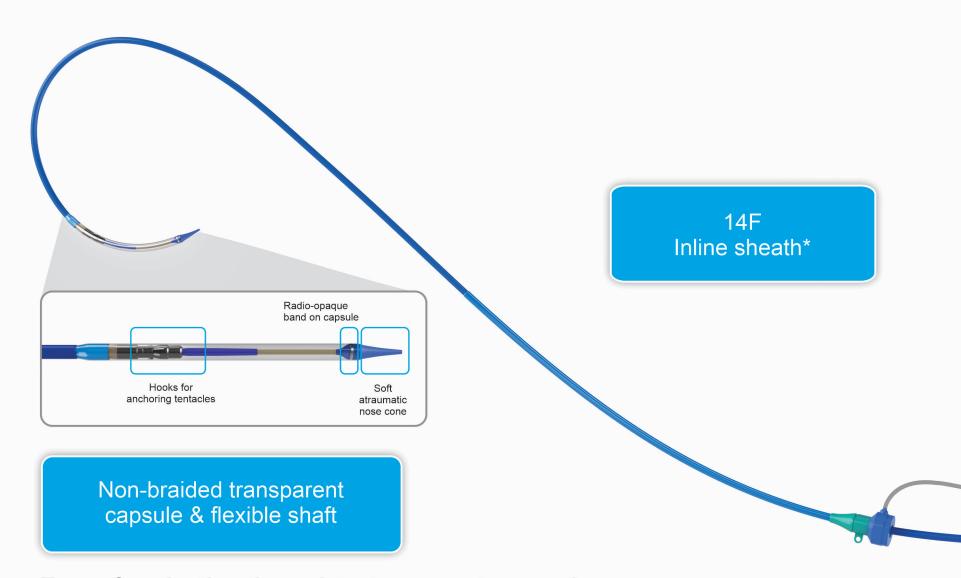




Case Example

Hydra AVDC (Aortic Valve Delivery Catheter)



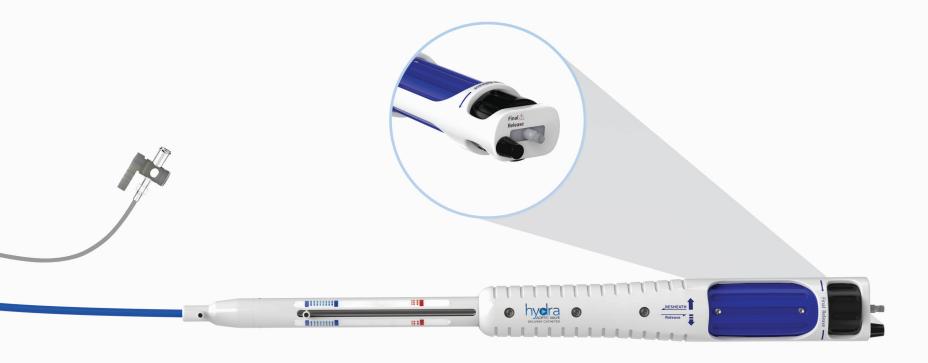


Ease of navigation through tortuous anatomy and coplanar implantation in horizontal aorta



Improved control handle along with Active Release

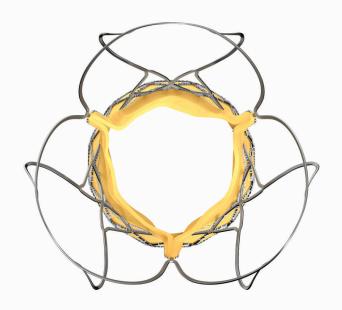
Provides overall stability and control during valve implantation to achieve the desired implant depth

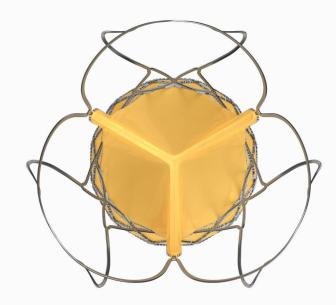


Bovine Pericardium



- Made from single bovine pericardium
- Bioprosthetic valve leaflets are supra-annular in position, provide superior hemodynamics by providing larger effective orifice area and lower pressure gradient
- Supra-annular valve position helps to maintain circular shape of the bioprosthetic valve even if the native annulus shape is elliptical
- Proprietary anti-calcification treatment

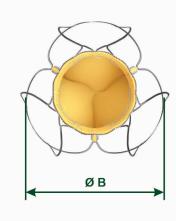


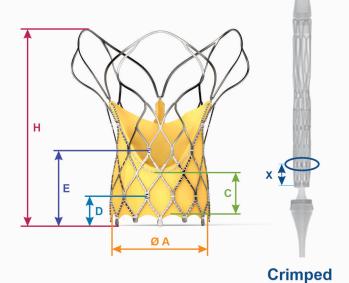


Size Matrix



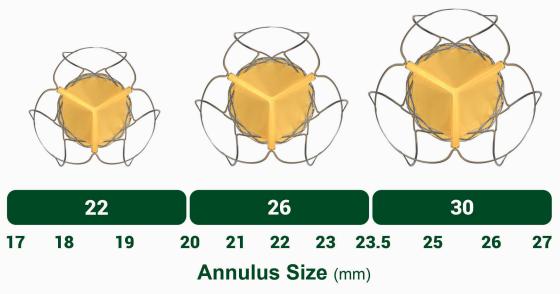
		Hydra 22	Hydra 26	Hydra 30
Diameter at Bottom	Α	22	26	30
Diameter at Top	В	39	43	47
Sealing Skirt Height	С	12	13	14
First Marker Crimped	X	8	9	10
First Marker	D	5	6	7
Second Marker	Е	15	18	21
Height	Н	55	53	51





Sizes mentioned in "mm"

Intended Annular Treatment Range

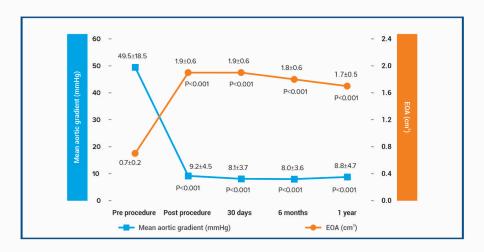


Clinical Experience

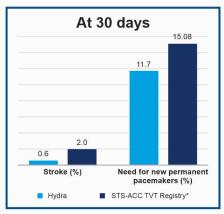


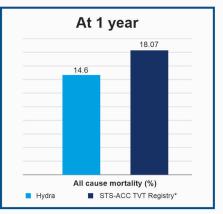
Excellent Hemodynamics¹

- Single digit valve gradient up to 1-year follow-up.
- Larger effective orifice area (EOA) up to 1-year follow-up.



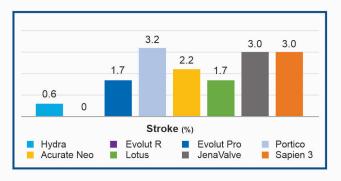
Comparison of Hydra CE study with STS-ACC TVT Registry of TAVR^{1,2}

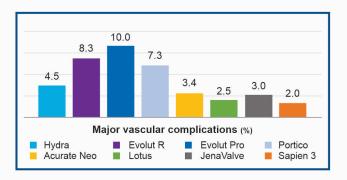


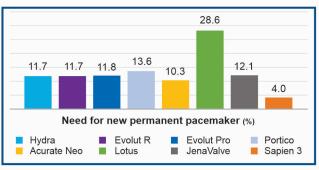


Comparison of CE-mark studies for major TAVR devices¹

At 30 days







TAVR - Transcatheter Aortic Valve Replacement

Summary



Frame	Valve	Hydra AVDC	Safety features
 Varying radial force Two set of markers on the frame for precise positioning Highly flexible design and easy navigation due to less metal Extended sealing skirt Large open cells for future coronary access 	 Supra-annular design Bovine pericardial tissue Anti-calcification treatment 	 Flexible non-braided capsule Radio-opaque band on capsule 14F equivalent * Active release mechanism 	 Recapturable Repositionable Retrievable

Ordering Information

Reference Number	Size
HYDRA22	22 mm
HYDRA26	26 mm
HYDRA30	30 mm

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References

1.Hydra CE study- DOI:10.1016/JJCIN.2021.09.004 2.STS/ACC TVT registry - DOI:10.1016/JJACC.2020.09.595

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