

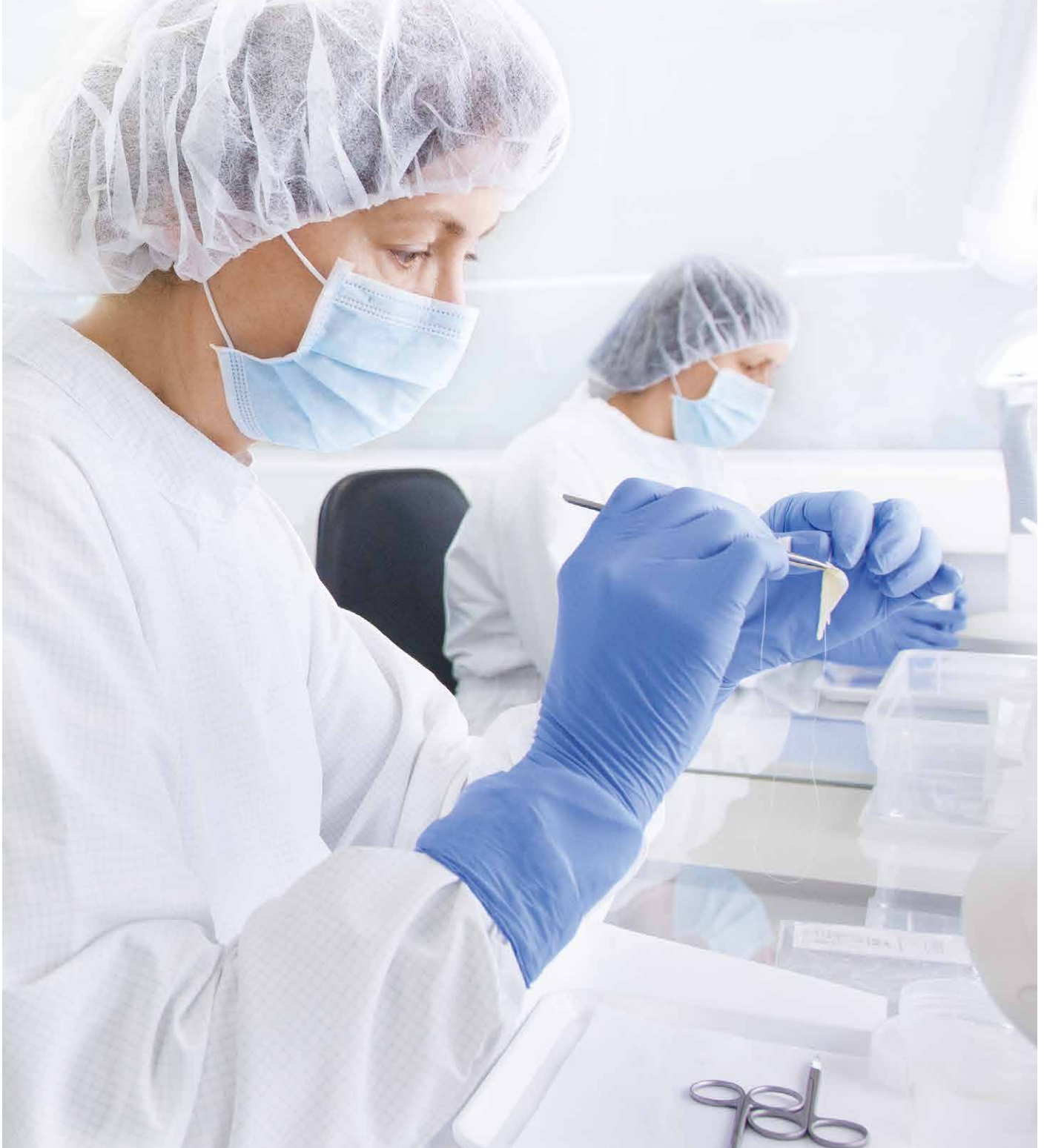
# ALLEGRA

Transfemoral TAVI System



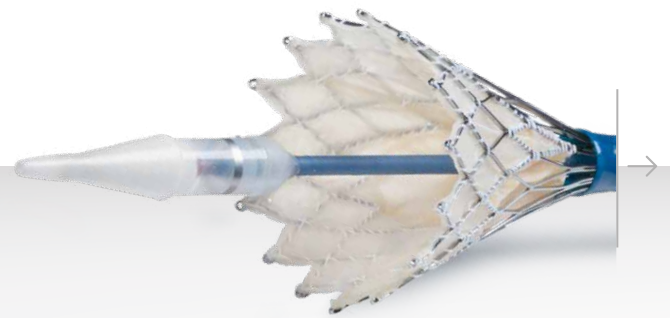
# NVT – Our task

An increasing number of people suffer from heart disease and many require a new heart valve. The classical form of treatment, open heart surgery, is very invasive and not everyone can undergo this procedure. Advances in technology have made it possible to develop minimally invasive alternatives to surgery for previously inoperable patients. Our task at NVT is to use the tools and techniques that modern technology provides us with to develop the best possible treatment options for patients with heart valve disease.



# The Bioprosthesis

The ALLEGRA bioprosthesis consists of the best bovine pericardium, which is characterized by high durability and consistency. The selected pericardium is optimized in terms of thickness and elasticity. This increases the coaptation and maximizes the strength of the valve leaflets. The stent, made of Nitinol, incorporates a tailored distribution of radial force. On the one hand it ensures a safe fixation in the annulus and on the other it reduces the mechanical stress on the leaflets by absorbing shocks.

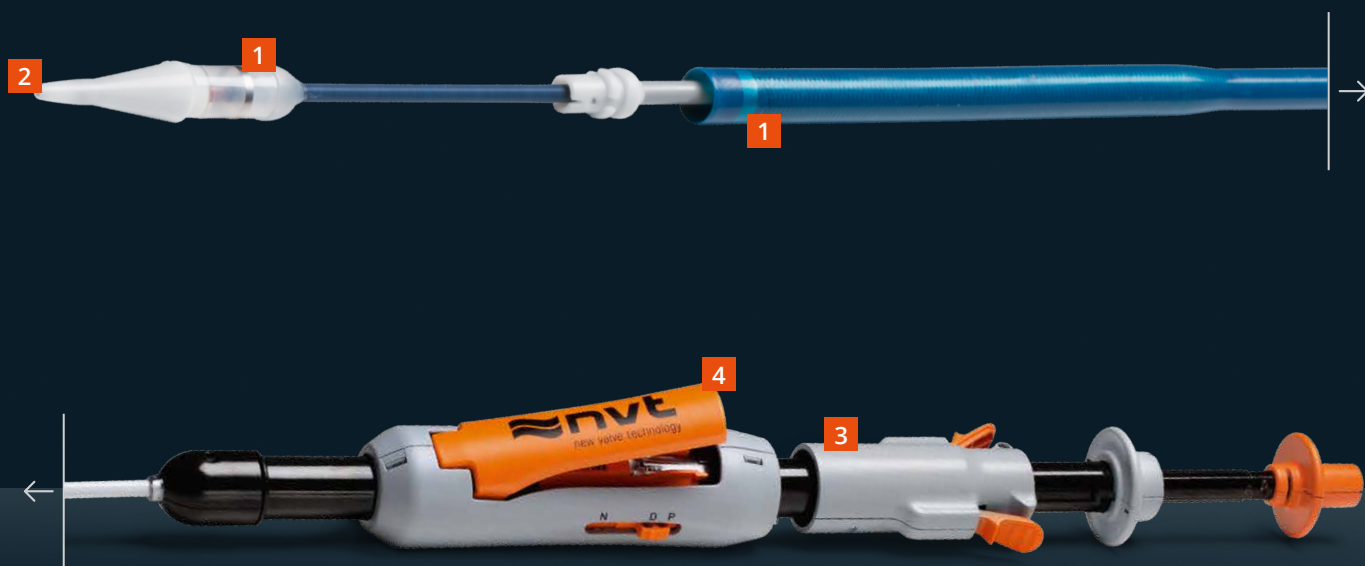


- 1 Supra-annular valve plane ensures optimal hemodynamics.
- 2 Radiopaque gold markers allow for perfect visibility and precise implantation.
- 3 12 mm sealing area minimizes paravalvular leakage.
- 4 T-Bars facilitate safe anchoring to the catheter.

[mm]	ALLEGRA 23	ALLEGRA 27	ALLEGRA 31
Annulus diameter	19 - 22	22 - 25	25 - 28
Inflow diameter	23.8	27.4	31.0
Outflow diameter	20.8	24.0	24.0
Stent height	37.3	41.3	43.0
Sealing area	12	12	12

# The Delivery System TF

The ALLEGRA delivery system with the patented PermaFlow principle ensures an accurate and controlled release of the bioprosthesis in three steps. The PermaFlow principle allows for stable hemodynamics at any time during the release. The delivery system, compatible with a 13.5 Fr introducer\*, reduces the risk of vascular complications. The catheter is characterized by an ideal balance of flexibility and stiffness. This results in a very good steerability and precise positioning. The integrated sheath minimizes friction and allows for a stable and safe release.



## Characteristics

18 Fr cartridge / 15 Fr shaft  
(compatible with 13.5 Fr balloon expandable introducer sheath)\*

Compatible with a 0.035 inch (0.889 mm) guide wire

Usable length 115 cm

Hydrophilic coating

- 1 Radiopaque marker rings provide clear orientation during implantation.
- 2 Optimized catheter tip design enables an atraumatic implantation.
- 3 Integrated safety mechanism guarantees a precise release.
- 4 Squeeze-to-Release mechanism allows for stepwise and controlled implantation avoiding rotation.

\*Terumo SOLOPATH Re-collapsible Balloon Access System

# NVT – Why cooperate with us?

There are a number of reasons why hospitals and doctors want to cooperate with us. The most important are:

## **A SOPHISTICATED SYSTEM**



Both the bioprosthesis as well as the delivery system are designed and manufactured according to the latest state of the art. Gained experience is systematically evaluated, weaknesses improved, new technologies implemented.

## **WHAT WE SELL, WE MAKE ON OUR OWN**



The heart valves and the delivery systems are developed, tested and manufactured in Hechingen, Germany. Committed employees, short distances and clear responsibilities are prerequisites for new solutions and reliable quality.

## **THE PROXIMITY TO CLIENTS**



Our products are developed and perfected in close cooperation with doctors and hospitals in Europe. Our employees support each client to be successful with our products.

## **TIME HORIZON OF OUR OWNERS**



Our investors have the strength and the will to focus on long-term goals beyond quarterly reports. Thanks to their commitment to sustainable long-term success rather than short-term gains we have the chance to explore new solutions and turn our visions into realities.

## **A STRONG TEAM**



Due to the unique structure of our company, we are able to attract great colleagues and keep them close to the company. In this atmosphere, they can take responsibility, grow and achieve excellent performance as part of a committed team.



## ALLEGRA Transcatheter Aortic Valve System

Size	Article number	Annulus diameter	French
23 mm	TDL-AO0023G1RE	19 - 22 mm	18 Fr
27 mm	TDL-AO0027G1RE	22 - 25 mm	18 Fr
31 mm	TDL-AO0031G1RE	25 - 28 mm	18 Fr

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