



# RELAY<sup>®</sup> PRO

THORACIC STENT-GRAFT SYSTEM

Low Profile without compromise

**TERUMO**  
Aortic

# Low Profile without compromise

Relay®Pro offers a low profile system without compromising performance. The platform utilizes the same stent design, materials and foundational Dual Sheath Technology of the proven Relay®Plus.

## Sources of reduction\*

**38%**  
profile reduction

### Graft Material

The graft fabric is a tight woven polyester

IDENTICAL TO TREO®

**14%**  
profile reduction

### Radiopaque Markers

Optimized radiopaque marker positioning

**24%**  
profile reduction

### Outer Sheath

New thin wall coiled primary introducer sheath

**21%**  
profile reduction

### Inner Sheath

Reduction of inner sheath diameter

**No  
change**

### Stents

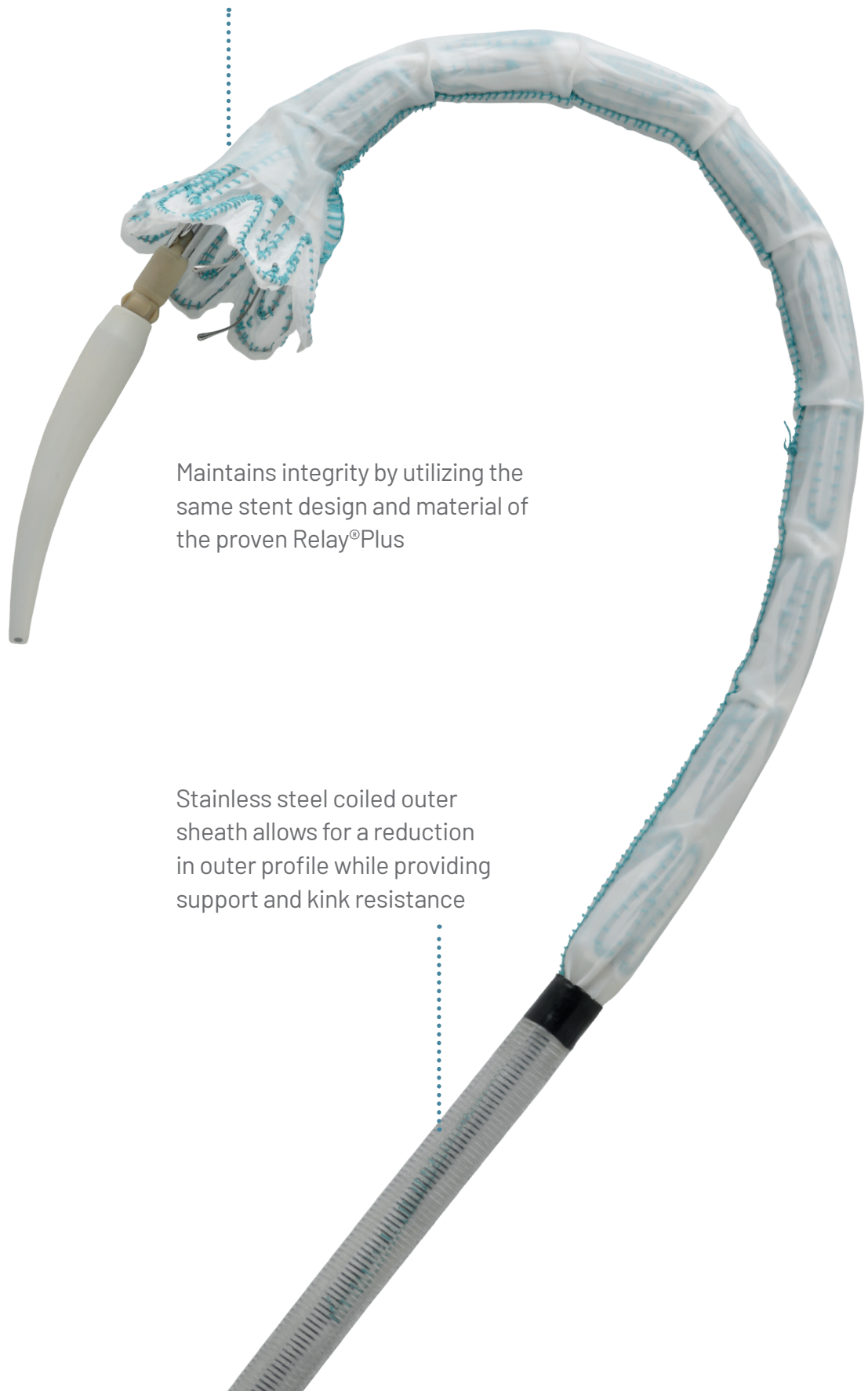
Identical stents to Relay®Plus

### Suture

Same suture and sewing method as both  
Relay®Plus and TREO®

\* Data on file at Terumo Aortic

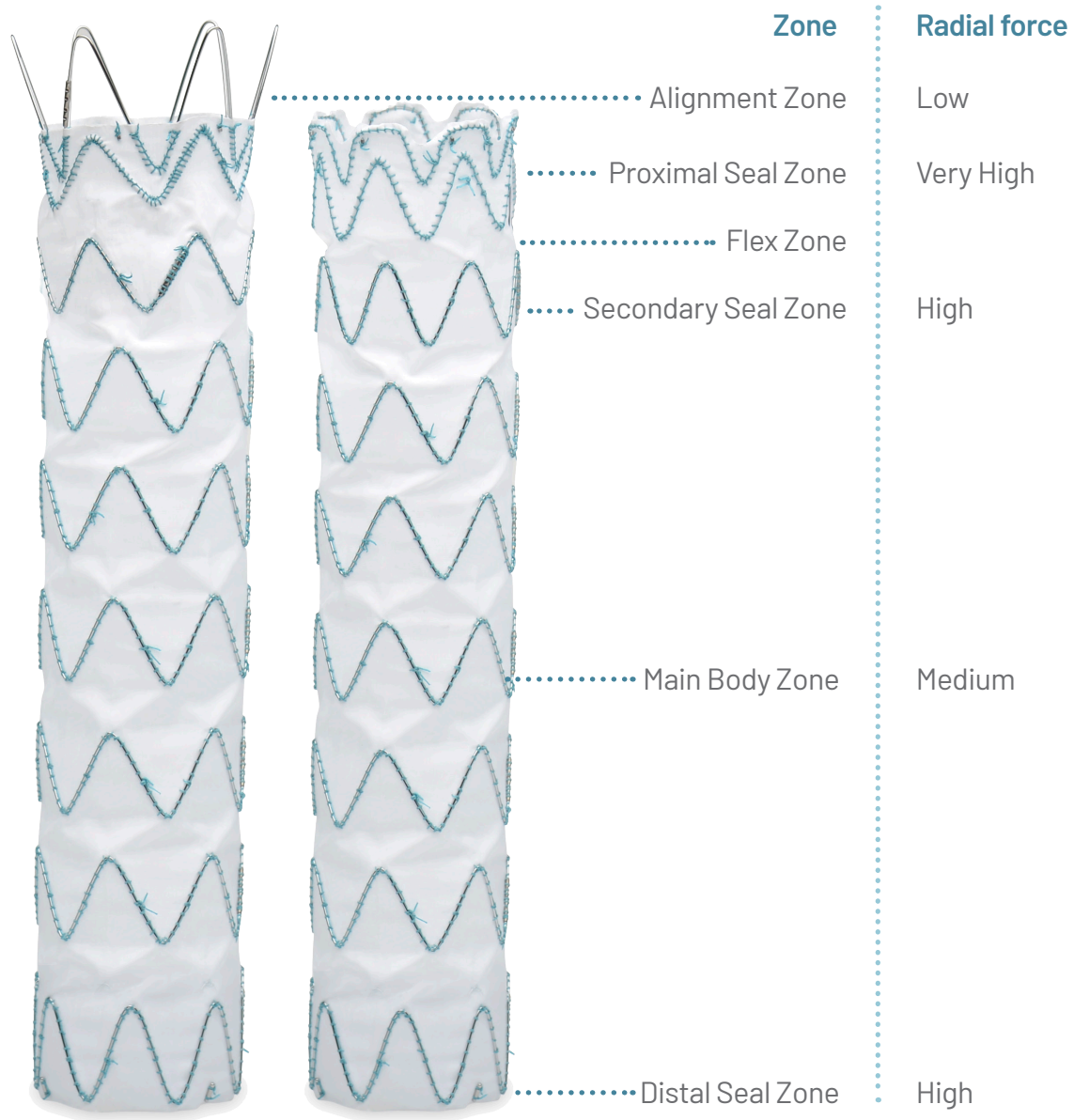
Optimized weave pattern and radiopaque markers to reduce profile while maintaining stent-graft integrity and visualization



Maintains integrity by utilizing the same stent design and material of the proven Relay®Plus

Stainless steel coiled outer sheath allows for a reduction in outer profile while providing support and kink resistance

# Performance Zone



Bare Stent		
Stent-Graft Diameter	Proximal Neck Length	Distal Neck Length
24 - 28mm	15mm	25mm
30 - 38mm	20mm	25mm
40 - 46mm	25mm	30mm

Non-Bare Stent		
Stent-Graft Diameter	Proximal Neck Length	Distal Neck Length
24 - 38mm	25mm	25mm
40 - 46mm	30mm	30mm

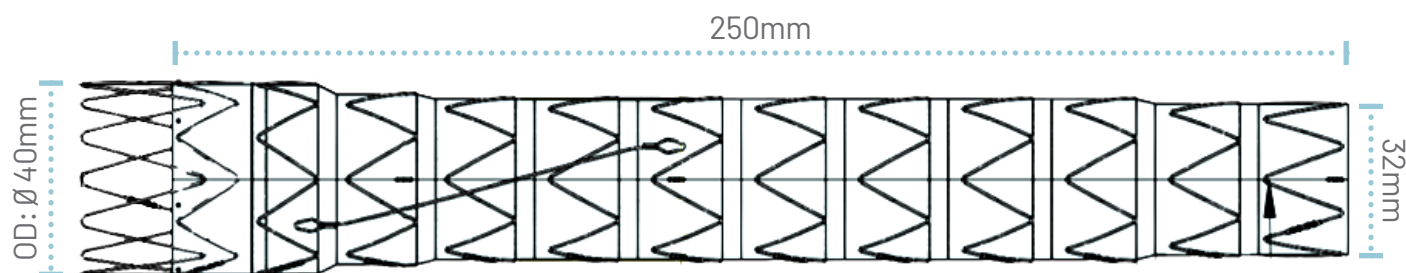
# A more personalized approach

The Relay®Pro system has a wide range of sizes and tapers allowing each patient access to the right solution, every time.

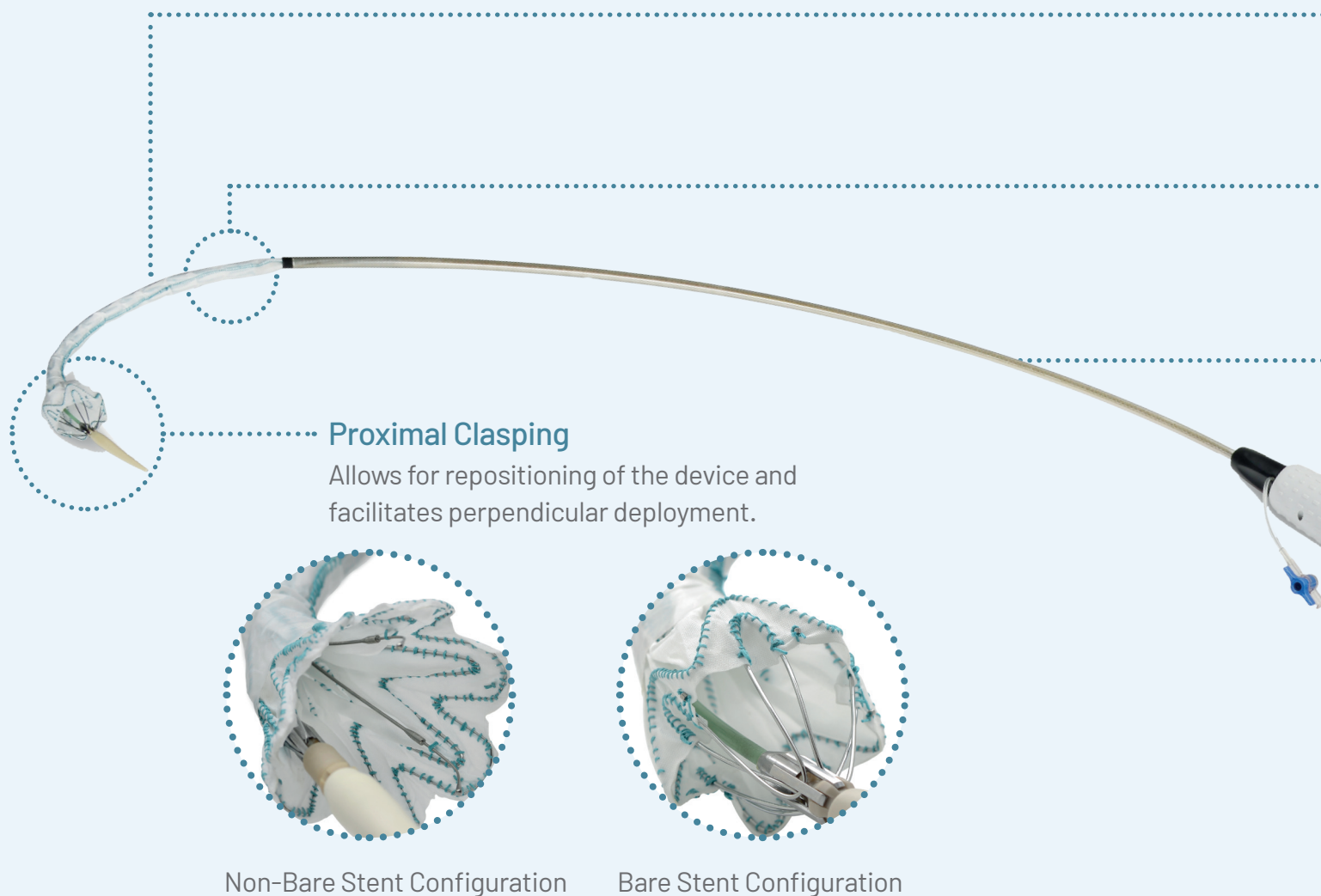
	Standard	Upon request
Configurations	Bare & NBS	Bare & NBS
Straight diameters	24 – 46mm (2mm increments)	24 – 46mm (2mm increments)
Tapered options	4mm Regular	2 – 18mm Regular & Reverse (2mm increments)
Straight lengths	100 – 250mm (50mm increments)	90 – 250mm (~20mm increments)
Tapered lengths	150 – 250mm (50mm increments)	90 – 250mm (~20mm increments)
Available Configurations	156	1,950

*Regular:* 4mm diameter difference between the proximal and the distal diameter.

*Reverse:* Proximal diameter smaller than distal diameter.



# Low Profile Delivery



## Bare Stent OD Fr Size Comparison

Aortic Diameter	20mm - 21mm	26mm - 27mm	32mm - 33mm	41mm - 42mm
Relay <sup>®</sup> Pro	19Fr	19Fr	20Fr	22Fr
Gore TAG <sup>1</sup>	22.5Fr	22.5Fr	24.9Fr	27.3Fr
Valiant Captivia <sup>2</sup>	22Fr	22Fr	24Fr	25Fr
Cook Alpha <sup>3</sup>	18Fr	18Fr	21.3Fr	23.1Fr

1. GORE<sup>®</sup> TAG<sup>®</sup> Conformable Thoracic Stent Graft and GORE<sup>®</sup> DrySeal Sheath Instructions for Use
2. Valiant<sup>®</sup> thoracic stent graft with the Captivia<sup>®</sup> delivery system Instructions for Use
3. Zenith Alpha Thoracic Endovascular Graft Instructions for Use





### Flexible Nitinol Inner Catheter

Facilitates atraumatic navigation and self-alignment of the S-bar.

### Staged Deployment

Allows for the release of the stent's potential energy in phases, providing greater control and accuracy.

### Coiled Outer Sheath

Provides stability and kink resistance while acting as a conduit for the inner sheath.

### Controller

A new controller position for improved ergonomics compared to Relay®Plus.

### Disengagement Button

Designed for rapid advancement and deployment.

### Apex Release Grip

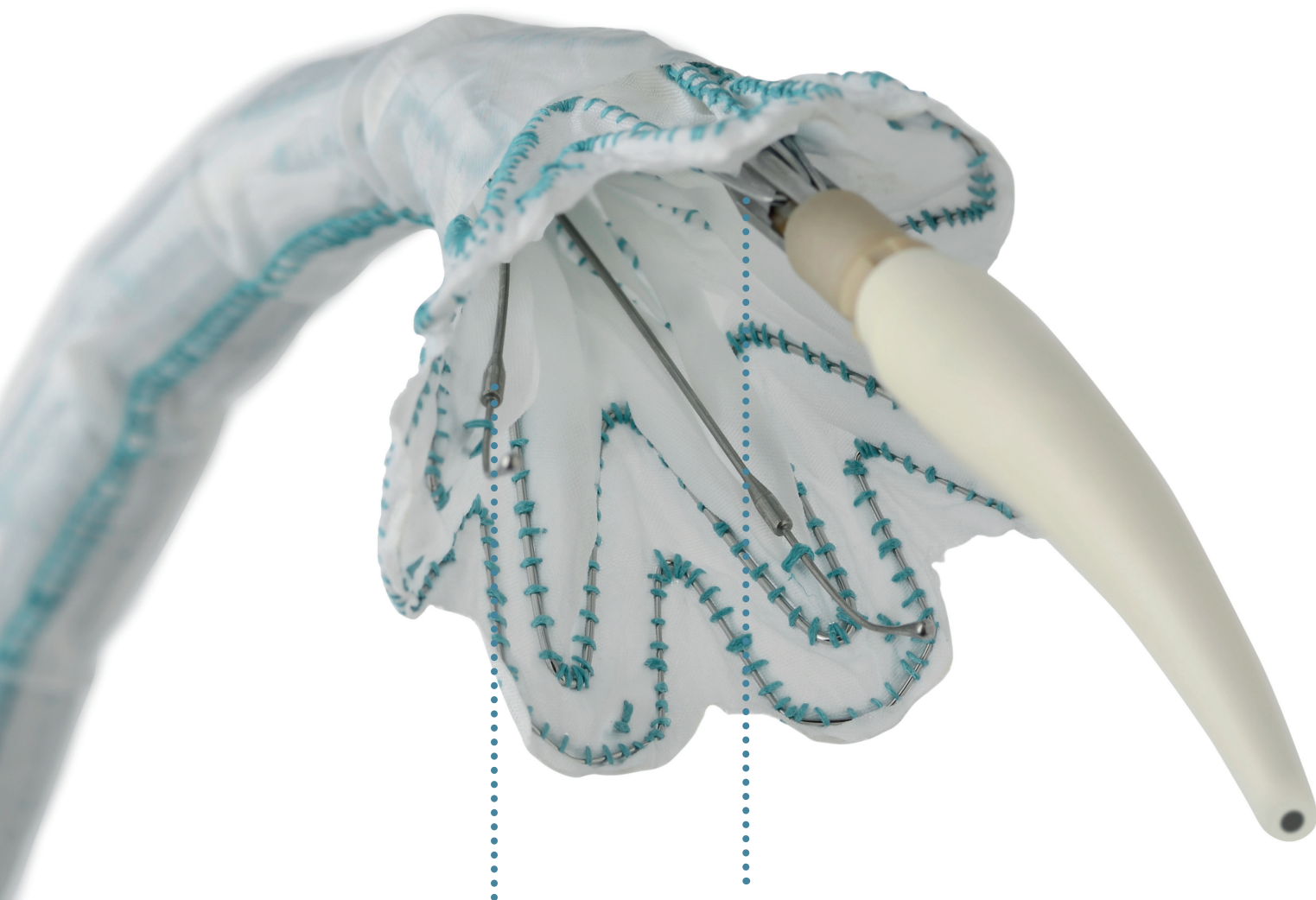
Releases the proximal clasp.

### Mechanical Advantage

Forward and backward gear system enhances control and delivery of the stent-graft, in both directions.

# Optimal Seal

Relay®Pro NBS is an engineered Delivery System to deliver perpendicular landing and optimal stent-graft apposition at the inner curve.



## Proximal Clasping

Two clasping points located on the outer curve provide the ability to reposition.

## Support Wires

Provides controlled stent-graft expansion to avoid retroflex.



# An engineered inner sheath for perpendicular landing to minimize Bird Beak



## V-Patch

Allows for stent-graft expansion towards the inner curve for a correct apposition.

# Proven Outcomes

The Relay®Pro represents a next generation of the Relay® stent-graft family that has over 15 years of experience, over 20,000 patients implanted and robust clinical data.

The Relay®Pro device has been studied in a multi-center, non-blinded, non-randomized, prospective, IDE clinical study of 110 subjects.

## Relay®Pro pivotal data results<sup>4</sup>

- ▶ 1.8% Stroke at 30 days
- ▶ No Mortality at 30 days
- ▶ 1.2% Type Ia and 1.2% Type Ib Endoleaks at 12 months
- ▶ No Migrations at 12 months
- ▶ No Fractures at 12 months
- ▶ No Conversions
- ▶ No Ruptures

## Relay®Pro clinical studies summary

	Regeneration <sup>5</sup>	USA FDA Pivotal
Study Type	Clinical Study	Clinical Study
# Patients	31	110
Sites	8	36
Region	Europe	US and Japan

Relay®Pro in the US is ONLY indicated for the endovascular repair of fusiform aneurysms and saccular aneurysms/penetrating atherosclerotic ulcers in the descending thoracic aorta in patients having appropriate anatomy as listed in the IFU.


Outside the US, Relay®Pro is intended for the treatment of thoracic aortic pathologies such as aneurysms, pseudoaneurysms, dissection, penetrating ulcers and intramural hematoma therefore the subject population between both studies is not directly comparable and is provided for informational purposes only.

4. All data comes from the Relay® Pro IDE study as reported in the Relay® Pro Thoracic Stent-Graft Instructions for Use.
5. Rimbau V, Giudice R, Trabattini P, Llagostera S, Fadda G, Lenti M, et al. Prospective Multicenter Study of the Low-Profile Relay Stent-Graft in Patients with Thoracic Aortic Disease: The Regeneration Study. *Annals of Vascular Surgery*. 2019 Jul 1;58:180–9.)



[terumoaortic.com](https://www.terumoaortic.com)

**TERUMO**  
Aortic



At Terumo Aortic, we are 100% focused on  
addressing every segment of the aorta,  
from the aortic root to the iliacs.

**terumoaortic.com**

Discover solutions for every segment of the aorta

Visit our website for more information on use, indications, contraindications, warnings/precautions and availability within your market.

Product availability subject to local regulatory approval. Caution: Federal (USA) law restricts this device to sale by or on the order of a physician.

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