©-vita OPEN PLUS
Stent Graft System
THE ULTIMATE IN PERFORMANCE AND QUALITY: STENT GRAFT SYSTEMS FROM JOTEC

JOTEC is an innovation-oriented company that consistently focuses on its core competencies: the development and manufacture of high-quality medical devices for the treatment of aortic and peripheral vascular disease. Working closely with the clinical users, we develop and produce therapeutic solutions that meet the most demanding needs of clinical practice and ensure safe, effective treatment of patients.

The product portfolio comprises:
- Endovascular stent graft systems
- Hybrid stent graft systems
- Peripheral stents
- Conventional vascular grafts
- Interventional accessories including sheaths, guide wires and balloon catheters

E-vita OPEN PLUS

The original: Uniquely effective
Following the launch of the first generation, this hybrid stent graft system has established itself in the treatment of complex thoracic lesions of the aorta. The combination of classical vascular reconstruction and intraluminal aortic stenting significantly simplifies the existing therapeutic procedures.

Trust the original, trust E-vita OPEN PLUS
Many years of clinical data confirm the efficiency and safety of this product and treatment concept. The one-piece implant guarantees a continuous and seamless transition between the woven vascular graft section and the stent graft section. Impregnation or preclotting can be dispensed with thanks to the blood-tight woven polyester fabric. The suture collar facilitates a tension-free and flexible anastomosis between the stent graft and the aortic wall. The stent graft configuration also impresses with its high flexibility and optimal radial force, together with excellent anti-kink behaviour and longitudinal stability.

Perfect components for successful treatment

Easy suturing, better retention
The ideally dimensioned flexible suture collar facilitates secure anastomosis of the stent graft section with the aortic wall and offsets differences in diameter.

One-piece
The E-vita OPEN PLUS hybrid stent graft system is manufactured from a single piece, guaranteeing a continuous and seamless transition from the stent graft section to the vascular graft section.

Primarily blood-tight
The woven polyester is primarily blood-tight and does not require any additional coating or preclotting, making for a simpler procedure.

Proven flexibility and sealing
The stent graft section of the E-vita OPEN PLUS with integrated Nitinol springs guarantees high flexibility and optimal adaptation to the vessel wall.
**THE ULTIMATE IN HANDLING: THE JOTEC DELIVERY SYSTEM**

The E-vita OPEN PLUS delivery system excels with its proven Squeeze-to-Release by offering outstanding and controlled handling. The operations during use are optimally matched to the needs of the user:

- Atraumatic vascular access thanks to the inflatable and deflatable balloon tip
- Optimal handling thanks to the short delivery system
- Exact placement of the product thanks to the separate positioning aid
- Maximum flexibility thanks to the reinforced catheter material
- Extremely precise release thanks to the patented JOTEC Squeeze-to-Release

**Smooth passage**

The inflatable and deflatable balloon tip ensures a smooth transition from the tip to the textile sheath and thus a gentle vascular access.

**Discover simplicity**

The Squeeze-to-Release is activated simply by sliding the switch. The following options are available: "Park position" (P), "Release" (D for Drive) and "Neutral position" (N). Sliding the switch to D opens the lever mechanism. The stent graft is gradually released by gently moving the lever up and down. In the neutral position the handle can be moved continuously to release the stent graft.

**Control centre**

The ergonomically shaped control handle secures the position of the delivery system during the procedure.

**Pole position**

The positioning aid enables precise positioning of the E-vita OPEN PLUS. The distal ring on the positioning aid marks the transition from the stent graft section to the vascular graft section and helps to avoid possible incorrect placement.
The combination of surgical and endovascular treatment allows a one-stage aortic reconstruction, where two surgical procedures would otherwise be required. The stentgraft section of E-vita OPEN PLUS treats the surgically inaccessible part of the thoracic aorta. The woven vascular graft section allows secure fixation and serves as a link to the classical vascular reconstruction of the aortic arch.

The following indications can be treated in a single procedure with E-vita OPEN PLUS:

- Acute aortic dissections Stanford type A
- Complex aortic dissections Stanford type B
- Extensive aortic aneurysms
- Chronic extensive aortic dissections

The following configurations of the E-vita OPEN PLUS hybrid stent graft can be selected to match the specific vascular anatomy of the individual patient.

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The ultimate in effectiveness – E-vita OPEN PLUS

Since the product portfolio comprises a large number of product configurations, the appropriate E-vita OPEN PLUS hybrid stent graft can be selected to match the specific vascular anatomy of the individual patient.

Results with E-vita OPEN PLUS demonstrate the following:

- Patient avoids the need for a second procedure
- Efficient and appropriate option for acute and chronic thoracic lesions of the aorta
- Very low rates for morbidity, mortality and postoperative complications
- No proximal endoleaks
- Reduces surgical trauma, making it a possible therapeutic option for older patients
- Promotes regression of the false lumen in aortic dissections

References:
1. Tsagakis, K et al; Impermeability to Blood of the E-vita OPEN PLUS Hybrid Stent-Graft; J ENDOVASC THRX 2010;17:340-348
5. Tsagakis, K et al; Overall Essen’s experience with the E-vita open hybrid stent graft system and evolution of the surgical technique; Ann Cardiothorac Surg 2013;2(5):618-621
7. Herold U et al; Neuer Entwicklungen in der Aortenchirurgie; Herz 2006; 31; 434-42