



Heartstring III Proximal Seal System

Allows for clampless hemostasis during proximal anastomosis

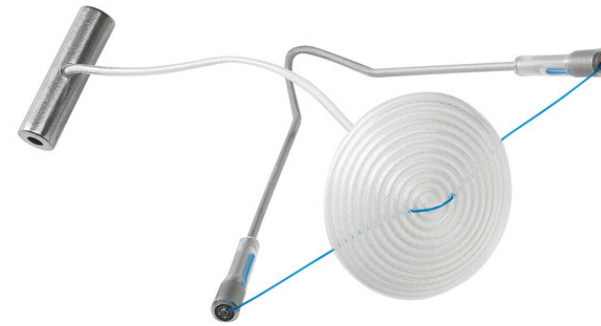
Features

- Minimizes manipulation of the ascending aorta
- Allows for a hand-sewn and angled take-off anastomosis technique
- Provides a temporary seal to create the anastomosis without a lifetime device implant

The elimination of the need for an aortic clamp reduces clamp-related complications

Techniques which minimize the manipulation of the ascending aorta, including the use of the Heartstring device, are associated with lower postoperative stroke rates compared with conventional on-pump CABG.¹

In patients with minimal aortic disease, the cerebral emboli number is significantly reduced when the Heartstring III Proximal Seal System is used compared with a partial clamping strategy.²



Heartstring III Proximal Seal

- Designed to provide hemostasis during an aortotomy without the use of an aortic clamp
- Engineered for a hand-sewn and angled take-off anastomosis technique
- Removed following anastomosis, eliminating the risks associated with a permanent implant



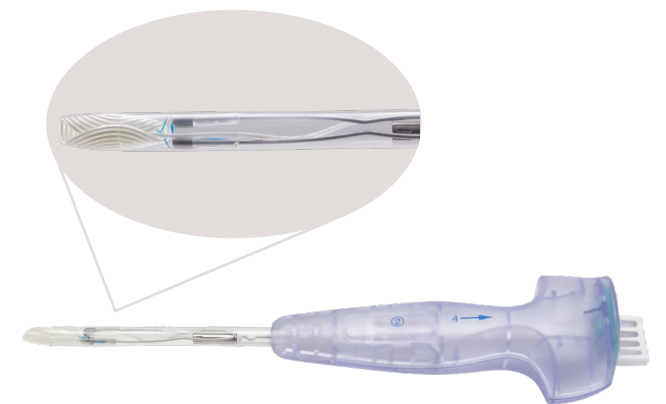
Heartstring Aortic Cutter

- Designed to produce a circular aortotomy and capture the aortic plug
- Deployed on un-clamped aorta
- Available in sizes 3.8 mm and 4.3 mm, providing diameter options for the aortotomy



Loading Device

- Rolls and loads the Seal into the Delivery Device
- Numeric visual cues indicate steps



Delivery Device

- Used to deploy the loaded Seal into the aorta
- Safety lock feature to prevent premature actuation
- Audible click confirms deployment of Seal from Delivery Device Tube

Product Ordering Information

Heartstring III Proximal Seal Systems and Aortic Cutters	Product Code
Heartstring III Proximal Seal System Seal, Delivery Device, Loading Device, and 3.8 mm Aortic Cutter	HSK-3038
Heartstring III Proximal Seal System Seal, Delivery Device, Loading Device, and 4.3 mm Aortic Cutter	HSK-3043
Heartstring III Proximal Seal (5-pack) Seal, Delivery Device, and Loading Device	HS-3045
Heartstring Aortic Cutter (5-pack), 3.8 mm	AC-3038
Heartstring Aortic Cutter (5-pack), 4.3 mm	AC-3043

References

1. Zhao, H. and D. Zhang, Percutaneous Coronary Intervention Compared with Coronary Artery Bypass Graft Surgery for Patients With 3-vessel Disease: A Preferred Reporting Items for Systematic Reviews and Meta-Analyses-compliant Systematic Review and Meta-analysis. J Cardiovasc Pharmacol, 2020. 76(5): p. 527-532
2. El Zayat, H., et al., Avoiding the clamp during off-pump coronary artery bypass reduces cerebral embolic events: results of a prospective randomized trial. Interact Cardiovasc Thorac Surg, 2012. 14(1): p. 12-6.



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