



Increase interventionalist confidence in your product

- Improves kink resistance, decreases likelihood of hypotube failure in use.
- Enables more aggressive treatment options.
- Improves navigation in tortuous anatomies.

Reduce patient risk

- Decreases likelihood of trauma to patient arising from issues with hypotube kink.
- Faster procedure time, decreases patient risk and minimizes radiation exposure.

Maximise catheter revenue

- Improved interventionalist confidence and benefits to the patient, increase the likelihood of your product being chosen.
- Optimises cath lab storage space with smaller packaging options.
- Reduces quality costs - improved hypotube robustness decreases product fall-out during assembly.

Creganna Medical Devices provides products, services and technologies for minimally invasive delivery devices. Creganna is a leading supplier of hypotubes to medical device manufacturers worldwide.

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PoleVault™ patent pending



STRENGTH IN YOUR PERFORMANCE

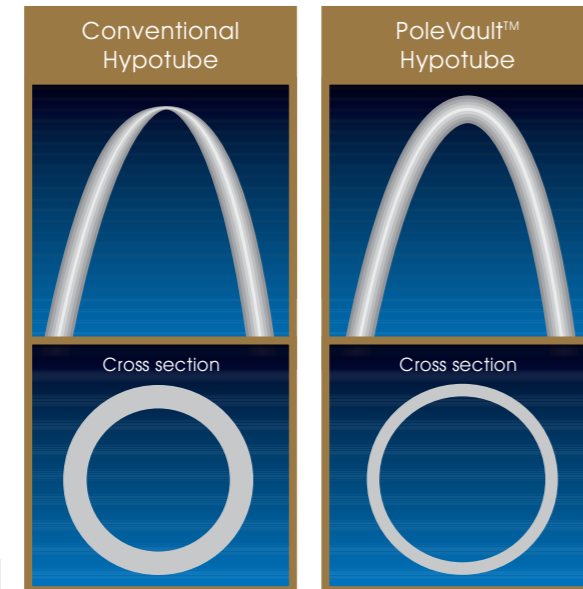
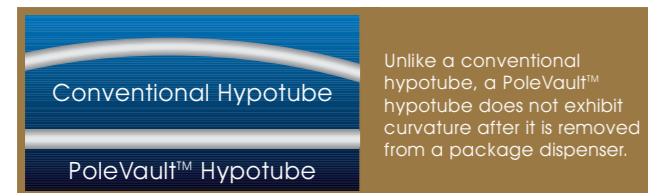


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PoleVault™ hypotubes are specifically designed to optimise catheter performance

- Improve kink resistance from 10% to 40% without compromise of push, track, torque or flexibility.
- Maintain current kink resistance levels while increasing hypotube internal diameter.
- Resilient to package set.
- Improve feel and balance.
- Material: medical grade stainless steel.



PoleVault™ hypotubes display higher kink resistance than conventional hypotubes.

Cross section view - enhanced kink resistance facilitates reduction of the PoleVault™ hypotube wall thickness.

TECHNICAL DATA

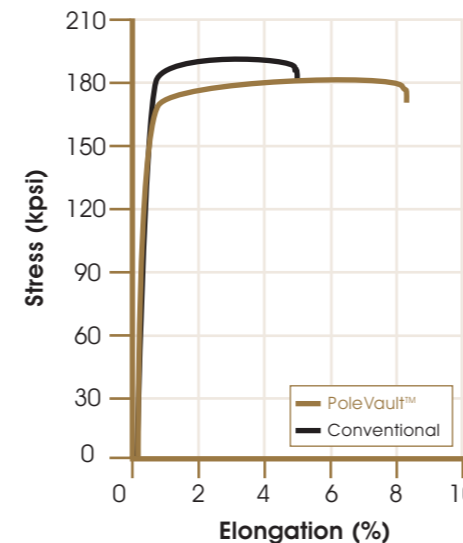


FIG. 1: Tensile stress/strain curves for a conventional (304 SS) and PoleVault™ hypotube. The PoleVault™ exhibits notably higher elongation (8%) while the yield strength values of both hypotubes are comparable: 153 kpsi and 156 kpsi respectively.

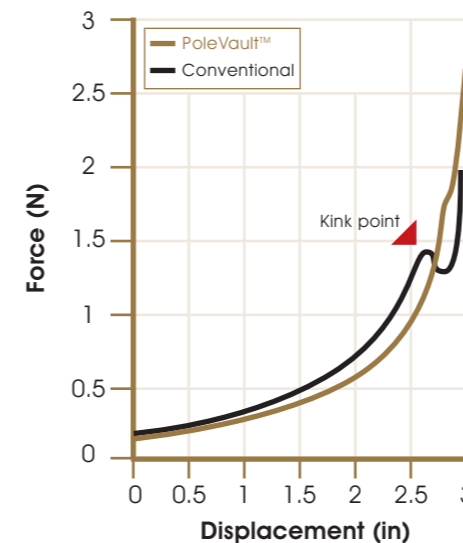


FIG. 2: Kink test force/displacement curves exhibited by a conventional hypotube and a PoleVault™ hypotube. The hypotubes have an identical wall thickness/outer diameter ratio and comparable yield strengths. The kink test comprises a compression loading of an arched hypotube between two parallel plates (see fig. 5) as per European Standard EN 13868. The test rate was 2 in/min and the start distance between the test plates was 3 inch.

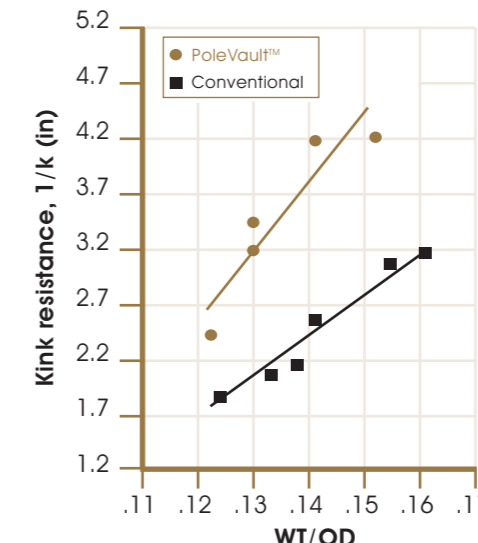
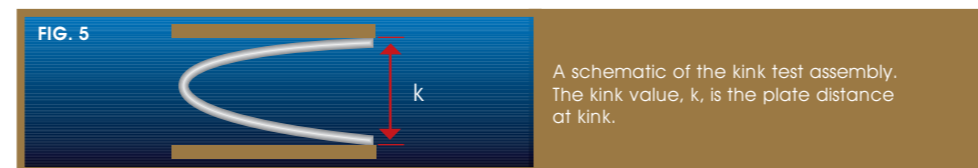


FIG. 3: Kink resistance, $1/k$, dependence on the wall thickness (WT)/outer diameter (OD) ratio for conventional and PoleVault™ hypotubes, exhibiting comparable yield strength levels. The kink value, k , is a distance between the plates at the moment of a force drop ("knee" formation) recorded on the force/plate displacement curve (see fig. 2).

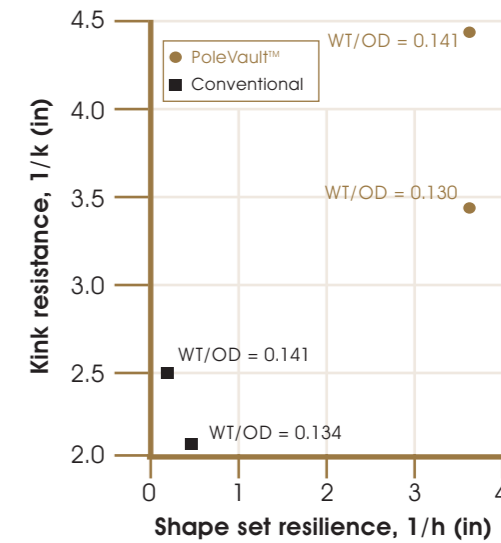
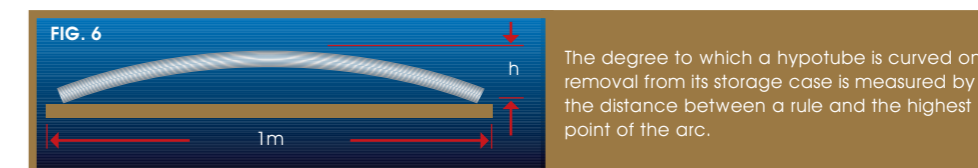


FIG. 4: Comparison of the shape set resilience/kink resistance performance characteristics for two sets of conventional and PoleVault hypotubes. Each set of hypotubes has a different wall thickness (WT)/outer diameter (OD) ratio. The shape set value, h , is defined as a maximum deflection from a straight edge exhibited by a 1 m long hypotube after its storage in a 6 inch diameter coil for two hours (see fig. 6).