

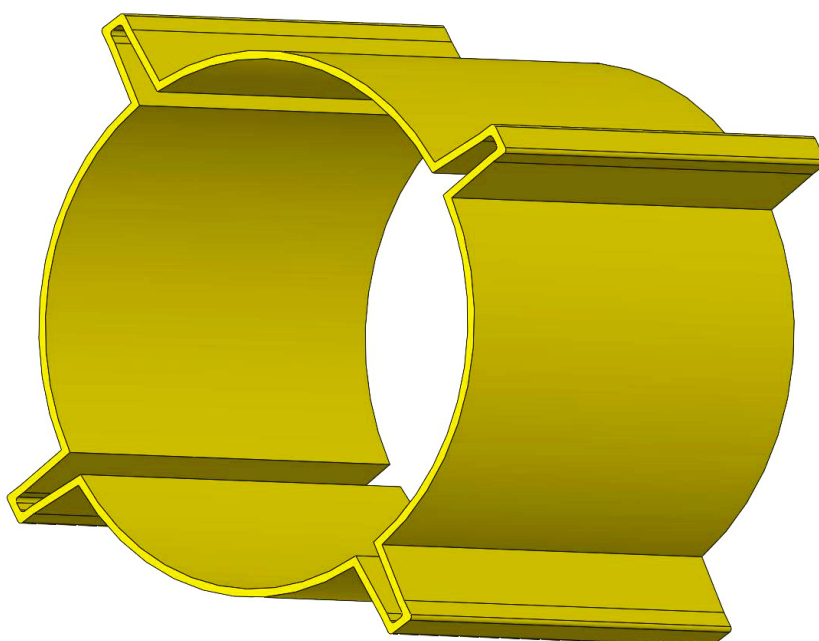
HENNING DEVICES: Low-Cost VIV Assurance Devices

A new class of VIV suppression devices offers rapid installation and a very inexpensive alternative to other suppression devices.

Helical strakes and fairings are VIV suppression devices that provide excellent vibration reduction for a wide range of tubulars. However, due to the fact that VIV suppression models are unable to accurately model tubulars fitted with suppression devices, it is common for designers to have a low level of confidence in analysis results. The consequence is that to be conservative, tubulars are often fully covered with VIV suppression even though full coverage is unnecessary and expensive.

Henning Devices, also known as "Hennings", provide a low-cost VIV suppression substitute. While traditional helical strakes or fairings may be needed for areas with marine fouling, Hennings can often be used over the majority of the tubular's length with substantially lower costs both for the devices and for installation.

Tests at high Reynolds numbers have shown that Henning Devices require a much lower fraction of coverage than do helical strakes and fairings to produce a large amount of suppression. The device efficiency for reducing vibration was 80-90%, even with a coverage density of only 10% !! The associated drag coefficients were much lower than those for strakes and rivaled those associated with fairings. Henning Devices are amazing devices that offer a new solution for VIV suppression.



VIV Solutions' team of experts can assist in optimizing the layout of Henning Devices and other suppression devices to achieve a desired performance efficiency at minimal cost. We also utilize experienced contractors who provide onshore training and offshore supervision of fairing running and retrieval operations.

Quality control and safety play an important role in the design and production of fairings. Each article is inspected prior to shipment by expert technicians. General assembly drawings, along with other project-specific documents such as inspection reports, shipping records, and sample job safety analyses are provided in a detailed data book.

For additional information about VIV Solutions' suppression devices, please contact us or visit us online. We look forward to working with you on your next suppression project.

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