

TAIL FAIRINGS™: CALMING THE CURRENTS FOR DEEPWATER DRILLING



Tail Fairings™ provide excellent VIV suppression and drag reduction performance during deepwater drilling operations. These fairings streamline the flow of water around large-diameter tubulars and help minimize vortex shedding forces. In addition to reducing riser and wellhead fatigue, Tail Fairings also lower top and bottom angles in strong currents.

VIV Solutions™ supplies Tail Fairings for deepwater rigs all across the globe. Our products are proven in the field and supported by a long history of successful installations. Many customers report a substantial reduction in vessel downtime, which translates to considerable savings when day rates are high.

Our team of experts can help optimize the layout of Tail Fairings along a riser string to maximize performance efficiency. We also utilize experienced contractors who provide onshore training as well as offshore assistance with running and retrieval operations.

Tail Fairings are designed for quick installation and take up minimal deck space. Each assembly consists of a triangular fin and two straps. They are fitted to the riser and pinned together in the moonpool. Once they enter the water, Tail Fairings immediately begin to rotate and align with the fin pointing downstream. A thrust collar between each Tail Fairing serves as a bearing surface. Special shrinkage compensation mechanisms are used to ensure the collars remain tight after hydrostatic compression of the buoyancy at depth. A variation of the standard Tail Fairing

design is available for risers with lines external to the buoyancy.

Critical hardware is constructed from corrosion-resistant materials or coated to prevent degradation after exposure to seawater. A complete toolkit accompanies every order and includes customized pneumatic torque tools for the collar bolt assemblies as well as ample spare fasteners.

Quality control and safety play an important role in the design and production of Tail 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. Compliance certificates are available for applicable lifting slings and shackles.

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

Common Tail Fairing design parameters*:

Fairing efficiency = 93% or greater

Drag coefficient = 0.6

**Values are dependent upon factors such as Reynolds number, surface roughness, coverage density, etc.*

VIV Solutions
THE VIV SUPPRESSION EXPERTS