

Tie-in Floats for Pipeline Installation

Controlled buoyancy solutions for safe and efficient offshore installation

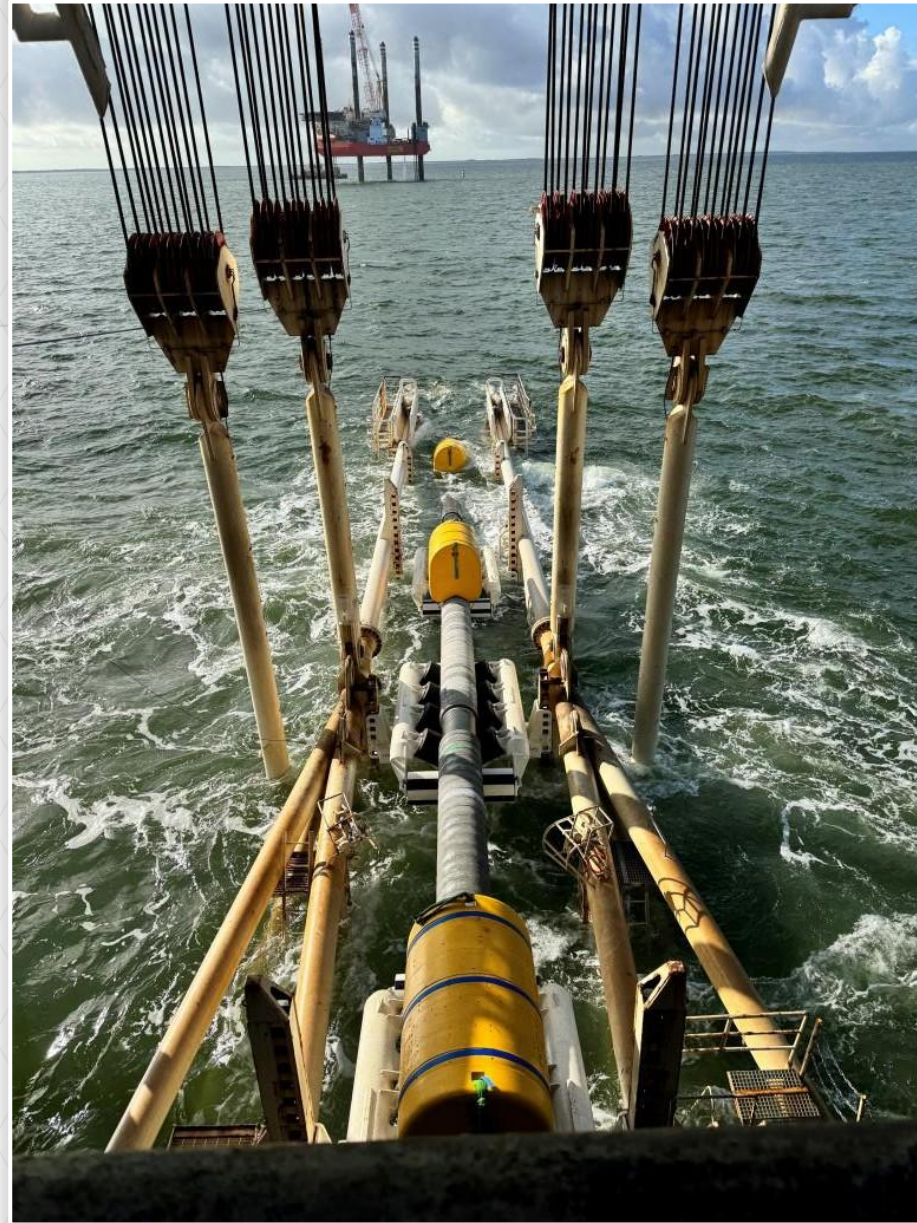


What is a Tie-in?

Resinex Pipe Deployment Floats (Tie-in) are designed to provide controlled buoyancy during offshore pipeline installation.

The concave profile ensures a secure fit around the pipe, limiting movement and reducing stress during deployment operations.

These floats are typically used at water depths between 10 and 200-300 m, with designs available for deeper applications when required.



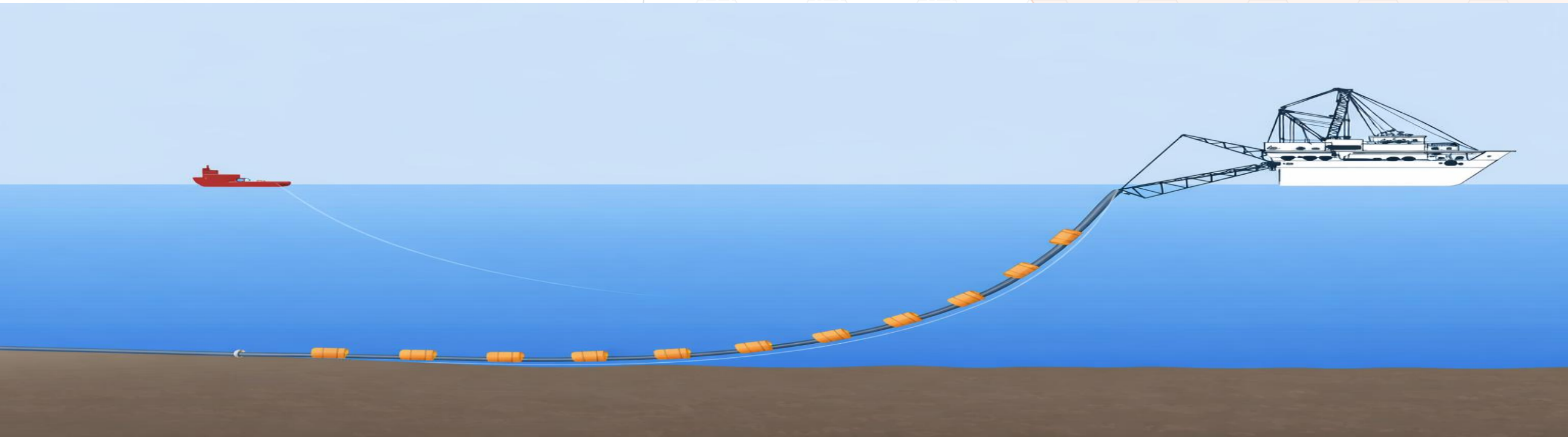
The modular design allows different buoyancy configurations to be achieved by combining multiple elements. Floats can be secured to the pipeline using various fastening systems, including steel straps, combined steel-textile solutions or dedicated polymer straps, depending on project requirements. Deployment procedures and installation details are defined in cooperation with the client to meet specific operational needs.



The S-Lay Challenge



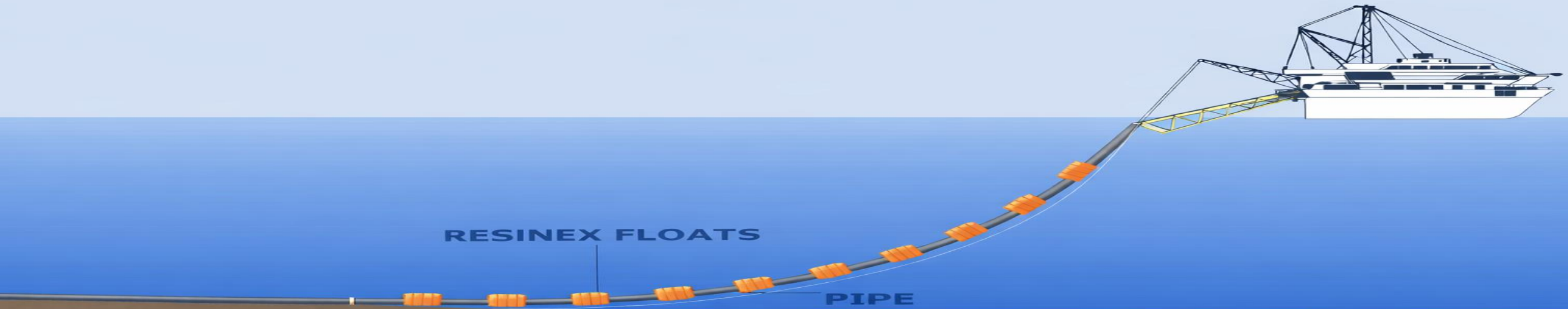
During S-lay installation, the pipeline experiences significant bending stresses before reaching the seabed. Controlled buoyancy is required to reduce curvature, protect the coating and ensure safe deployment within allowable stress limits.



Controlled Buoyancy during Installation

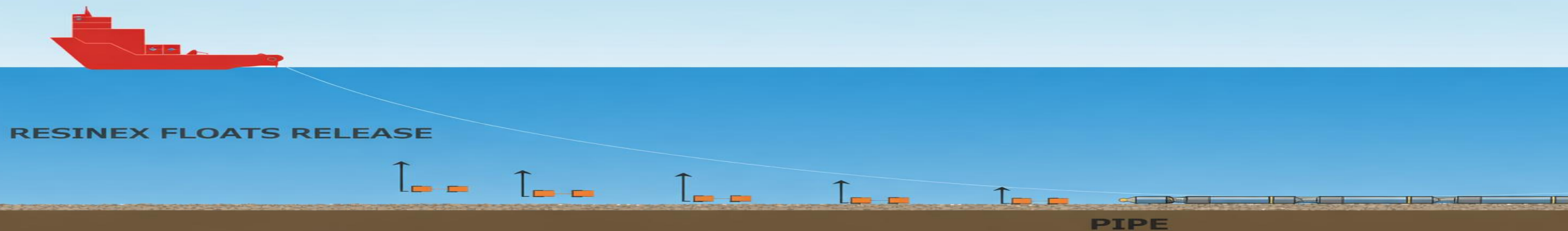


Resinex tie-in floats are installed along the pipeline to reduce bending and control the catenary profile during installation.





Once the pipe reaches the seabed, the floats are released, recovered and reused for subsequent sections, improving operational efficiency.



Key Performance Advantages

Controlled pipe curvature

Maintains bending stresses within allowable limits during installation

Protection of external coating

Reduces mechanical loads and limits the risk of coating damage

Improved installation control

Stabilizes the pipeline position and limits unwanted movement

Fast installation and release

Designed for efficient offshore handling and recovery operations

Reusable within the same campaign

Allows multiple installation cycles, reducing equipment requirements

Optimized project efficiency

Shorter installation time and reduced operational costs



Field Deployment Operations



GUPCO Sealine Project

Client : **Saipem**

Tie-in Floats, NB 2.2 tons

Quantity supplied: 40

Water Depth: 150 m

Location: Egypt

Year: 2006



DENISE project

Client : **Saipem**

Tie-in Floats, NB 4.4 tons

Quantity supplied: 50

Water Depth: 100 m

Location: Egypt

Year: 2007



HASDRUBAL project

Client : **Saipem**

Tie-in Floats, NB 4.4 tons

Quantity supplied: 40

Water Depth: 100 m

Location: Tunisia

Year: 2008



ARAMCO LTA Project

Client : **Snamprogetti**

Tie-in Floats, NB 4.4 tons

Quantity supplied: 30

Water Depth: 60 m

Location: Saudi Arabia

Year: 2010



Dragon CIGMA IV offshore pipeline

Client : **Saipem**

Tie-in Floats, NB 3.3 tons

Quantity supplied: 12

Water Depth: 140 m

Location: Venezuela

Year: 2012



Nigerian Pipeline Project

Tie-in Floats, NB 1.95 tons

Quantity supplied: 120

Water Depth: 25 m

Location: Nigeria

Year: 2012



MOHO Nord Project

Client : **Technip**

Tie-in Floats, NB 2.5 tons

Quantity supplied: 152

Water Depth: 50 m

Location: Congo

Year: 2015



El Burullus Project

Client : **Saipem**

Tie-in Floats, NB 4.4 tons

Quantity supplied: 15

Water Depth: 20 m

Location: Egypt

Year: 2016



ZOHR Project

Client : **PMS**

Tie-in Floats, NB 2.2 tons

Quantity supplied: 400

Water Depth: 50 m

Location: Egypt

Year: 2017



TANAP Project

Client : **Sapura Energy**

Tie-in Floats, NB 2.7 tons

Quantity supplied: 18

Water Depth: 28 m

Location: Turkey

Year: 2017



Moheshkhali Floating LNG Terminal

Client : **Geocean**

Tie-in Floats, NB 3 tons

Quantity supplied: 34

Water Depth: 50 m

Location: Bangladesh

Year: 2017



DANGOTE Refinery

Client : **China Offshore Oil Engineering Co.**

Tie-in Floats, NB 1.5 tons

Quantity supplied: 156

Water Depth: 50 m

Location: Nigeria

Year: 2018



NFA Wellhead Platform

Client : **China Offshore Oil Engineering Co.**

Tie-in Floats, NB 0.75 tons

Quantity supplied: 110

Water Depth: 60 m

Location: Qatar

Year: 2018



Pipeline Project

Tie-in Floats, NB 3 tons

Quantity supplied: 5

Water Depth: 50 m

Location: Nigeria

Year: 2018



Bul Hanine Re-Development Project

Client : **McDermott**

Tie-in Floats, NB 2.2 tons

Quantity supplied: 65

Water Depth: 30 m

Location: Qatar

Year: 2019



Pipeline Project

Client : **Micoperi**

Tie-in Floats, NB 2.4 tons

Quantity supplied: 50

Water Depth: 50 m

Location: Egypt

Year: 2019



Pipe Layer Barge Israfil Huseynov

Client : **Saipem**

Tie-in Floats, NB 450 Kg

Quantity supplied: 3

Water Depth: 500 m

Location: Azerbaijan

Year: 2019



Duqm Refinery

Client : **Ace Winches for China Petroleum Pipeline Engineering**

Tie-in Floats, NB 2.1 tons

Quantity supplied: 21

Water Depth: 20 m

Location: Oman

Year: 2020



BERRI Field

Client : **Saipem for ARAMCO LTA**
Tie-in Floats, NB 4.4 tons

Quantity supplied: 60

Water Depth: 40 m

Location: Saudi Arabia

Year: 2021



NORTH FIELD

Production Sustainability Pipelines Project

Client : **Saipem**

Tie-in Floats, NB 4.4 tons

Quantity supplied: 343

Water Depth: 80 m

Location: Qatar

Year: 2022



TOPR Project

Client : **Subsea7**

Tie-in Floats, NB 2.4 tons

Quantity supplied: 8

Water Depth: 70 m

Location: Trinidad and Tobago

Year: 2022



Undisclosed Project

Client : **Allseas**

Tie-in Floats, NB 2.1 tons

Quantity supplied: 60

Water Depth: 10 m

Location: Undisclosed

Year: 2023



GASTRADE Alexandroupolis Project

Client : **Saipem**

Tie-in Floats, NB 4.4 tons

Quantity supplied: 90

Water Depth: 40 m

Location: Greece

Year: 2023



ZULUF AH Trunklines Project

Client : **McDermott Middle East**
Tie-in Floats, NB 2.3 tons

Quantity supplied: 12

Water Depth: 15 m

Location: UAE

Year: 2023



Single Module Pipe Deployment Floats

Client : **Allseas**

Tie-in Floats, NB 4.5 tons

Quantity supplied: 10

Water Depth: 20 m

Location: The Netherlands

Year: 2024



CVOW Project

Client : **DEME Group**

Tie-in Floats, NB 0.87 tons

Quantity supplied: 4

Water Depth: 20 m

Location: The Netherlands

Year: 2025



HAIL&GHASHA Project

Client : **SAIPEM Abu Dhabi**
Tie-in Floats, NB 5 tons

Quantity supplied: 120

Water Depth: 20 m

Location: UAE

Year: 2025



Energie per il Sarno Project

Client : **MERIDIANA Costruzioni**
Tie-in Floats, NB 3 tons

Quantity supplied: 32

Water Depth: 20 m

Location: Italy

Year: 2025



Neptun Deep Gas Development Project

Client : **SAIPEM Romania**

Tie-in Floats, NB 4.4 tons

Quantity supplied: 100

Water Depth: 50 m

Location: Romania

Year: 2026



HAIL&GHASHA Project

Client : **SAIPEM Abu Dhabi**
Tie-in Floats, NB 2.4 tons

Quantity supplied: 75

Water Depth: 20 m

Location: UAE

Year: 2026



South Trench Pipeline Project

Client : **McDermott Middle East**
Tie-in Floats, NB 0.8 tons

Quantity supplied: 175

Water Depth: 10 m

Location: Qatar

Year: 2026



Tangguh UCC Project

Client : **PT SAIPEM Indonesia**
SPECIAL Tie-in Floats, NB 2.5 tons

Quantity supplied: 2

Water Depth: 50 m

Location: Indonesia

Year: 2026



Quality Assurance & Testing

Resinex operates under a Quality Management System certified by **Lloyd's Register Quality Assurance** in accordance with **ISO 9001** standards.

Each project is executed according to a dedicated Inspection and Test Plan (**ITP**), ensuring full control throughout the manufacturing process.

A **Certificate of Conformity** is issued for every supply.



Hydrostatic Pressure Test



Net Buoyancy Test



Fit-up Test

Fastening Removal Test

Release of the Hook



Fastening Removal Test

Cut



Contacts

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