

Pipe Deployment Floats



Pipe Deployment Floats (Tie-in)



- Resinex Pipe Deployment Floats, the so-called "Tie-in", are used in open sea to support the weight of pipes during the launch of a pipeline
- They optimize deployment procedures thanks to a concave shape which hugs the tube and limits its movement during the operation
- They are usually utilized from 10 to 200-300 m of depth, but if necessary higher depths can be reached

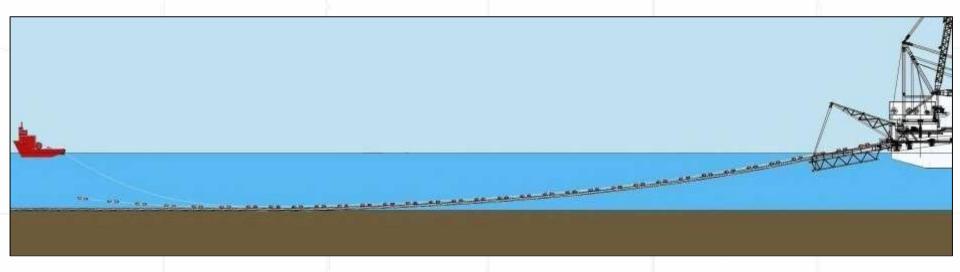
Pipe Deployment Floats (Tie-in)



- It is possible to combine the modules in order to obtain buoys with different buoyancies
- They can be fixed on pipes with different types of straps according to necessity: steel straps, steel and textile straps, special plastic straps
- Exact details on deployment procedures are studied together with the client, following his specific needs and requests

Example: Pipeline Deployment





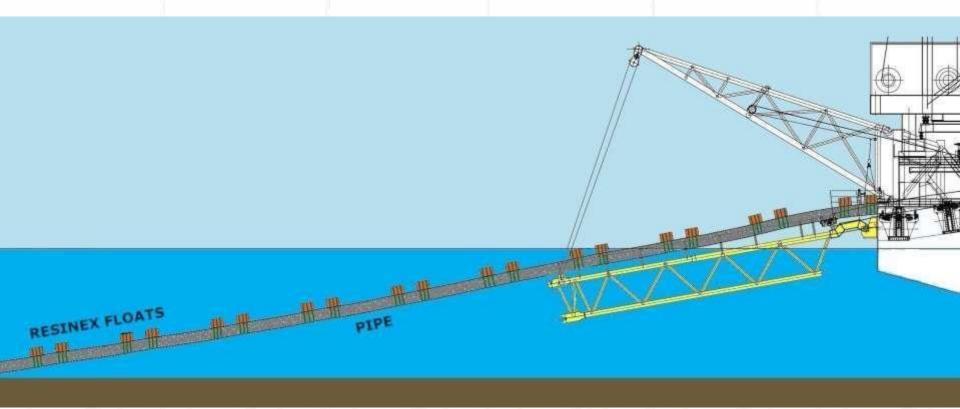
This is an example of "S-Lay" method for pipeline deployment, where pipes are assembled on the vessel and then launched into the sea as the vessel moves forward.

The S-lay method can handle the full range of pipe sizes and it's suitable for deployment both in shallow and intermediate waters.

It is characterized by a fast installation process.

Example: Pipeline Deployment





Resinex floats are fixed on pipe in order to reduce its bending before it touches the seabed: this is a key element that allows to avoid damages to the pipe coating.

A stinger placed at the stern helps to support the pipeline when it is launched.

Example: Pipeline Deployment





RESINEX FLOATS RELEASE



After the pipe has reached the sea bottom, Resinex floats are released from it, recovered by a support boat and then subsequently moved on the vessel to be reinstalled on another section of the pipe. In this way the floats can be reused several times until the operation is completed and can be stored for future installations too.





Our range



MODULAR PIPE DEPLOYMENT FLOATS (TIE-IN)							
TYPE	W x H x L (mm)	0 - 50	DEPTH [m] 50 - 100	100 - 200			
	1200x1200x1200	905	NET BUOYANCY 865	775			
	1200x1200x2400	1935	1855	1675			
	1200x1200x3600	2965	2845	2575			
	1200x1200x4800	4000	3840	3480			
	1100x1150x1350	1060	940	880			
	1100x1150x2700	2220	2100	2040			
	1100x1150x4050	3320	3190	3120			
	1100x1150x5400	4520	4360	4260			

Note: The net buoyancy depends on the foam density.

Our range



ТҮРЕ	(TIE-I W x H x L (mm)	DEPTH [m]		
		0 - 50	50 - 100	100 - 200
		NET BUOYANCY [kg]		
	800x1000x1400	800	745	700
	1100x1150x1150	1075	1025	950
	1100x1150x1350	1325	1250	1150
	1100x1150x1950	1875	1775	1625
	1100x1150x2150	2000	1900	1750
	1100x1150x2450	2300	2175	2000

Note: The net buoyancy depends on the foam density.

Our range



SINGLE MODULE PIPE DEPLOYMENT FLOATS (TIE-IN)								
ТҮРЕ	W x H x L (mm)	DEPTH [m] 0 - 50						
	1100x1300x1150	1250	1175	1100				
	1100x1300x1350	1475	1400	1275				
	1100x1300x1950	2125	2000	1850				
	1100x1300x2150	2300	2175	2000				
	1100x1300x2450	2650	2500	2325				
• • •	1400x1270x2200	3150	2950	2700				
	1400x1400x2800	4400	3900	3650				

Note: The net buoyancy depends on the foam density.

Some of our customers







subsea 7











Quality Test



- Resinex Quality System is certified by Lloyd's Register Quality
 Assurance following ISO 9001 standards
- Each job follows a proper inspection and test plan
- A Resinex Certificate of Conformity is issued for each job

Examples of in-house tests:



Hydrostatic pressure test



Net buoyancy test



Fit-up test

Fastening Removal Test (release of the hook)











Fastening Removal Test (cut)













Some of our projects

Sealine Gupco Project

RESINEX SINCE 1967 MARINE TECHNOLOGY

PRODUCT: Tie-in floats NB 2.2 tons, 150 m WD

▶ YEAR: 2006

LOCATION: Egypt









Denise Project



▶ PRODUCT: Tie-in floats NB 4.4 tons, 100 m WD

▶ YEAR: 2007

LOCATION: Egypt







Hasdrubal Project



▶ PRODUCT: Tie-in floats NB 4.4 tons, 100 m WD

▶ YEAR: 2008

▶ LOCATION: Tunisia





Aramco LTA Project



▶ PRODUCT: Tie-in floats NB 4.4 tons, 60 m WD

▶ YEAR: 2010

LOCATION: Saudi Arabia

CLIENT: Snamprogetti







Dragon Cigma IV Offshore Pipeline



▶ PRODUCT: Tie-in floats NB 3.3 tons, 140 m WD

▶ YEAR: 2012

LOCATION: Venezuela





Pipeline Project



PRODUCT: Tie-in floats NB 1.95 tons, 25 m WD

▶ YEAR: 2012

LOCATION: Nigeria

CLIENT: Unnamed





Moho Nord Project



PRODUCT: Tie-in floats 2-2.5 tons, 50 m WD

▶ YEAR: 2015

▶ LOCATION: Congo

CLIENT: Technip









El Burullus Project

RESINEX SACE TO A PARTY TECHNOLOGY

PRODUCT: Tie-in floats NB 4.4, 20 m WD

▶ YEAR: 2016

LOCATION: Egypt





Zohr Project

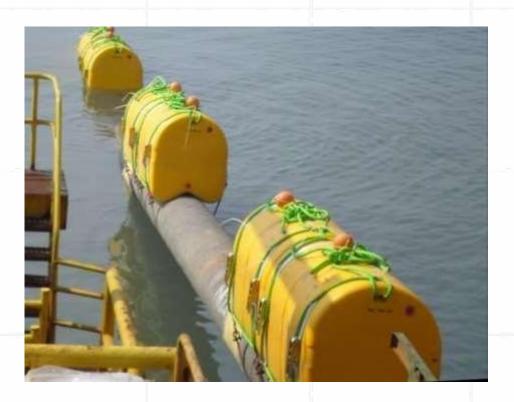


▶ PRODUCT: Tie-in floats NB 2.2 tons, 50 m WD

▶ YEAR: 2017

LOCATION: Egypt

▶ CLIENT: PMS





Tanap Project



▶ PRODUCT: Tie-in floats NB 2.7 tons, 28 m WD

▶ YEAR: 2017

▶ LOCATION: Turkey

CLIENT: Sapura Energy







Moheshkhali Floating LNG Terminal



PRODUCT: Tie-in floats NB 3 tons, 50 m WD

▶ YEAR: 2017

LOCATION: Bangladesh

CLIENT: Geocean





Dangote Refinery



▶ PRODUCT: Tie-in floats NB 1.5 tons, 50 m WD

▶ YEAR: 2018

LOCATION: Nigeria

CLIENT: China Offshore Oil Engineering Co.





NFA Wellhead Platform

RESINEX SACE TO A MARKET TRANSPORT

PRODUCT: Tie-in floats NB 750 kg, 60 m WD

▶ YEAR: 2018

LOCATION: Qatar

CLIENT: China Offshore Oil Engineering Co.







Pipeline Project



PRODUCT: Tie-in floats NB 3 tons, 50 m WD

▶ YEAR: 2018

LOCATION: Nigeria

CLIENT: Unnamed





Bul Hanine Re-Development Project



PRODUCT: Tie-in floats NB 2.2 tons, 30 m WD

▶ YEAR: 2019

▶ LOCATION: Qatar

CLIENT: McDermott





Pipeline Project



PRODUCT: Tie-in floats NB 2.4 tons, 50 m WD

▶ YEAR: 2019

LOCATION: Egypt

CLIENT: Micoperi





Pipe Layer Barge Israfil Huseynov



PRODUCT: Tie-in floats NB 450 kg, 500 m WD

▶ YEAR: 2019

LOCATION: Azerbaijan





Duqm Refinery



PRODUCT: Tie-in floats NB 2-2.1 tons, 20 m WD

▶ YEAR: 2020

▶ LOCATION: Oman

CLIENT: Ace Winches for China Petroleum Pipeline Engineering





Pipeline Project



▶ PRODUCT: Tie-in floats NB 2.4 tons, 70 m WD

▶ YEAR: 2020

▶ LOCATION: Middle East

CLIENT: Subsea 7





BERRI FIELD



➤ PRODUCT: Tie-in floats NB 4.4 tons,

40 m WD

>YEAR: 2021

► LOCATION: Saudi Arabia

► CLIENT: Saipem for Aramco LTA





NORTH FIELD PRODUCTION SUSTAINABILITY PIPELINES PROJECT



➤ PRODUCT: Tie-in floats NB 4.4 tons, 80 m WD

> YEAR: 2022

► LOCATION: Qatar







TOPR PROJECT IN TRINIDAD AND TOBAGO



➤ PRODUCT: Tie-in floats NB 2.4 tons, 70 m WD

YEAR: 2022

► LOCATION: Trinidad and Tobago

➤ CLIENT: Subsea7







UNDISCLOSED PROJECT: PIPELINE DEPLOYMENT FLOATS FOR ALLSEAS



> PRODUCT: Tie-in floats NB 2.1 tons, 10 m WD

YEAR: 2023

> CLIENT: Allseas











PRODUCT: Tie-in floats NB 4.4 tons, 40 m WD

> YEAR: 2023

> LOCATION: Greece







ZULUF AH TRUNKLINES PROJECT



> PRODUCT: Tie-in floats NB 2.3 tons, 15 m WD

> YEAR: 2023

LOCATION: UAE

> CLIENT: Mcdermott Middle East









SINGLE MODULE PIPE DEPLOYMENT (TIE-IN) FLOATS



> PRODUCT: Tie-in floats NB 4.5 tons, 20 m WD

> YEAR: 2024

> LOCATION: The Netherlands

> CLIENT: Allseas







For further information or any request of quotation please contact us:

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