

DeepBuoy



Enabling technology for variable buoyancy

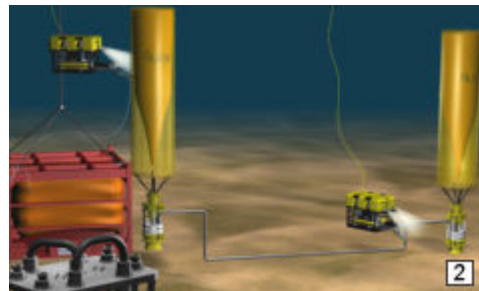
DeepBuoy is a patented low density fluid that when pumped into vessels subsea will impart buoyancy to structures under water. It enables a new approach to variable buoyancy.

DeepBuoy has the following features

- A remarkably low density (550kgs / m³) giving almost pound for pound lift
- Virtual incompressibility resulting in no change in buoyancy with changes in depth
- A capability to operate at depths of up to 2000 metres and beyond.
- A pumpable fluid enabling buoyancy to be added and removed subsea
- Non hazardous and environmentally responsible compress



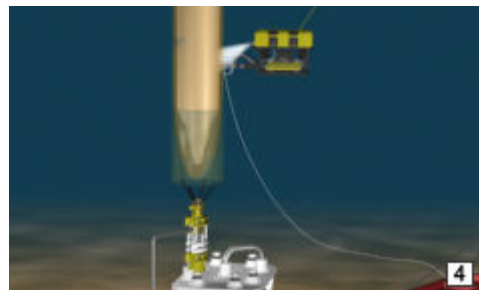
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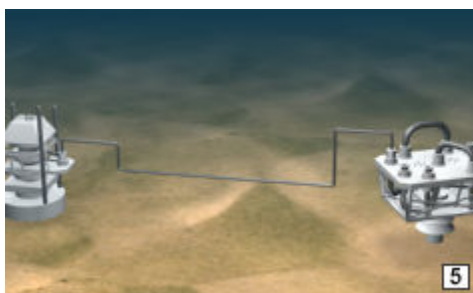
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1. Tank containing DeepBuoy is lowered to seabed. ROV moves into position.
2. The spool piece and the buoyancy bags descend to the seabed with the second ROV. ROV fits line to the buoyancy bag.
3. ROV pumps seawater into the outer bag and squeezes the inner bag displacing DeepBuoy.
4. The buoyancy bag rises and lifts the spool piece as DeepBuoy is pumped in. ROV can adjust the buoyancy level by displacing DeepBuoy with seawater to fit the spool piece.
5. By repeating the same process, ROV fits the other end of the spool piece.

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