



Tow Chain Clump Weight

The tow chain clump weight is inserted into the tow wire to provide the necessary weight to submerge the SDV from the deep draught tow condition to the submerged tow condition. It also acts as an anchor for the SDV when parked on the seabed.

Ballasting Platform / System

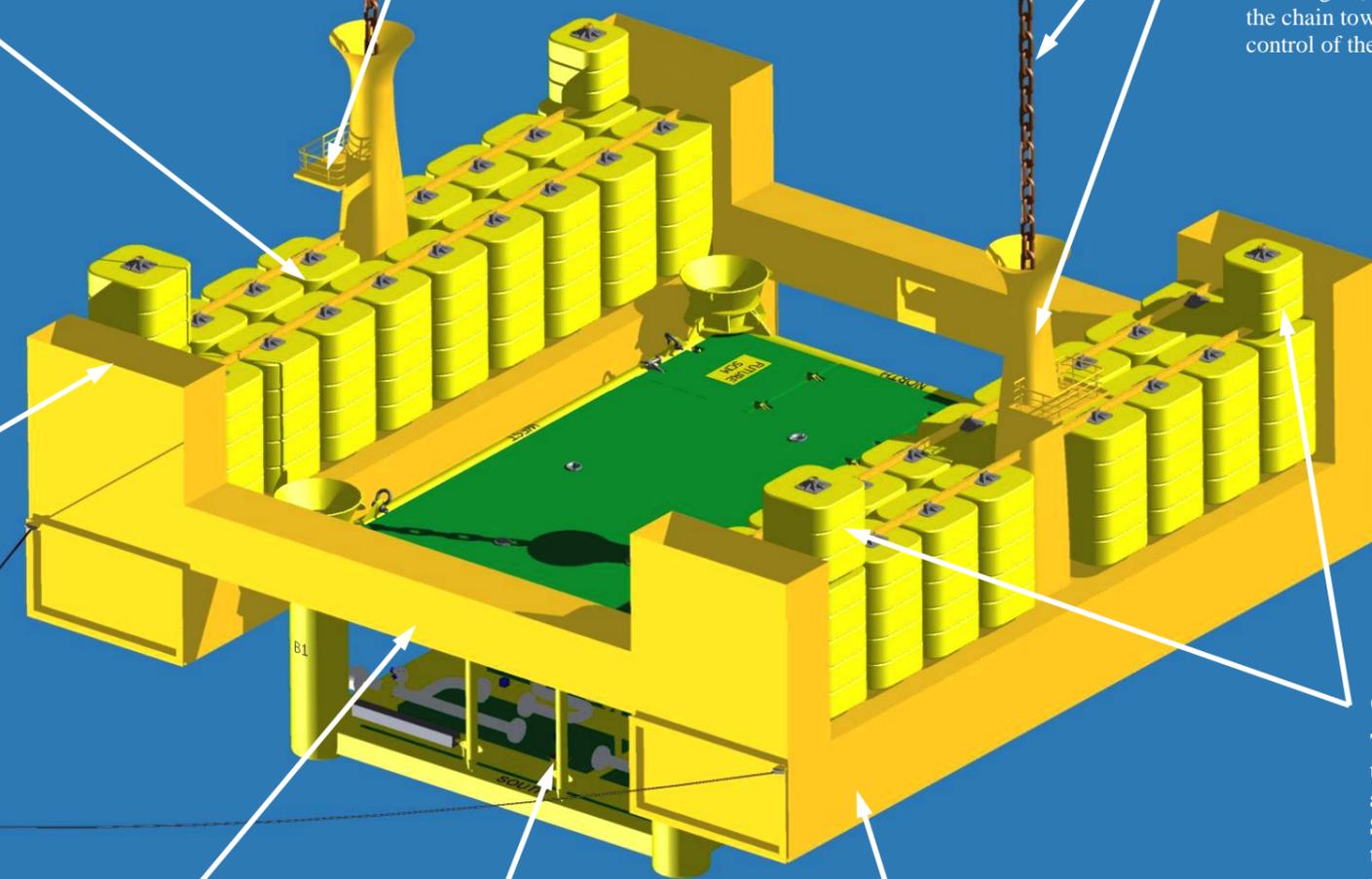
The flooding and vent valves are manually operated from work stations next to the control chain towers by means of mechanical linkage where necessary. The SDV will be ballasted by means of gravity alone and all valves will remain open during the submerged tow.

Solid Buoyancy Modules

Solid buoyancy modules (syntactic foam) rated to the installation water depth are located above the hulls. The buoyancy modules are located as high as is practical to maximise the separation between the CoG and CoB when the SDV is submerged. This ensures the stability of the SDV throughout all stages.

Control Chains and Chain Towers

The control chains are lowered into chain towers to gain control of the SDV during installation. The weight of the chain supported by the SDV at the base of the chain towers is used to control the height of the SDV. The length (weight) of chain suspended within the chain towers provides lateral and rotational control of the SDV.



Ballast Chain Lockers

Ballast chain lockers are placed at each corner above the hulls. They are used to trim the SDV to suit the weight and CoG of the structure prior to the tow. They are also used to hold the ballast weight which replaces the structure after installation of the structure.

Castles

The castles are positioned above the majority of the solid buoyancy and will be the only part of the SDV apart from the chain towers that will protrude above the waterline in the deep draught condition. This facilitates fine tuning of the trim.

Structure - SDV Interface Beam

The structure - SDV interface beams are used to support the structure between the hulls of the SDV. For a float-over load-out they will be fitted to the SDV but may be part of the lift for a lifted load-out.

Structure

Longitudinal pontoons

The SDV consists of two longitudinal pontoons which have ballasting facilities. This enables the SDV c/w structure to operate at a shallow draught.