Suction Piles and Suction Pile Clusters for Subsea Structure Foundations

SPT Offshore
Suction Piles and Suction Pile Clusters for Subsea Structure Foundations

If you’re looking at a quick, efficient and low cost foundation for subsea structures, founding these structures on SPT Offshore’s suction piles or Suction Pile Cluster (SPC) is the solution.

Product characteristics
- Integrated foundation of 3 or 4 suction piles in the subsea structure
- Or: Suction Pile Cluster (SPC) with 3 bundled suction piles and subsea connector
- Suction pile installation to maximum of 3,000m water depth

Benefits of suction piles for subsea structure foundations
- Proven technology with numerous suction pile founded structures installed worldwide
- Very swift and vibration free offshore installation
- Fabrication costs are reduced significantly, since no pile sleeves, -catchers, -centralizers and mud mats are required
- No pile drive-, leveling- and grout spread and operation required
- Leveling of the structure < 0.25 degrees by selective suction
- Easy decommissioning by reversed installation
- Engineering and installation by one party, hence SPT Offshore takes over installation and in-situ responsibility

Transportation and installation

Suction Pile Foundation
1. Lower structure and suction pump, connected with hoses or hardpiping, to seabed

Suction Pile Cluster (SPC)
1. Lift and lower SPC to seabed using the integrated suction pump lift frame
2. Suction operation to target penetration and levelness using integrated manifold

SPT Offshore track record for subsea structure foundations

PetroCanada de Ruyter Development
Amerada Hess Ceiba

SPT Offshore, Pelmolenlaan 1A, 3447 GW Woerden, The Netherlands
t +31 (0)85 022 20 22, sales@sptoffshore.com, www.sptoffshore.com