

Claims

1. A subsea connection comprising;

an umbilical termination head (1) comprising a housing (23) and at least one
 5 connecting line (4), where each connecting line comprises a first mating
 means (3);

a subsea base unit (5) comprising a housing (24) and at least one connecting
 line (22), each connecting line comprises a second mating means (13)
 arranged to be connected with the cooperating first mating means (3); and

10 locking means (11) for locking the termination head to the subsea base unit,
 characterized in that the second mating means are fixed to a stab plate (14)
 and kept in a retracted position before connection of the termination head
 and the base unit, and the stab plate is arranged to move the second mating
 means towards the first mating means during connection, wherein the stab
 15 plate (14) and the second mating means (13) are arranged to move relative to
 the housing (24) of the base unit (5) during connection.
2. A connection according to claim 1, wherein the stab plate is arranged to
 move the second mating means into an extended position during connection,
 such that the second mating means are connectable to the first mating means.
- 20 3. A connection according to claim 1 or 2, wherein the second mating means
 (13) are operably connected to a piston (15), preferably a piston of a
 hydraulic cylinder (16), the piston is operably connected to trigger means
 (17), such that the piston (15) is able to move the second mating means
 towards the first mating means (3) when the trigger means (17) are released.
- 25 4. A connection according to claim 3, wherein the second mating means (13)
 are operably connected to the trigger means (17) by the stab plate (14).
5. A connection according to claims 3 or 4, wherein the piston (15) is operably
 connected to the trigger means (17) by the stab plate (14).

6. A connection according to any of the claims 3-5, wherein the trigger means (17) are released by interaction with the termination head (1).
7. A connection according to any of the claims 3-6, wherein the piston (15) is pre-tensioned to move the second mating means (13) towards the first mating means (3).
8. A connection according to any of the claims 3-7, wherein at least parts of the second mating means (13) are retracted into the base unit (5) prior to release of the trigger means (17).
9. A connection according to any of the preceding claims, wherein the first mating means (3) is protected by a flange extension (6) at an interfacing end (7) of the termination head housing (23).
10. A connection according to any of the claims 3-9, wherein the termination head (1) comprises a funnel (8) and the base comprises a guide post (12), the funnel is connectable with the guide post such that the second mating means and the first mating means are aligned when the trigger means are released.
11. A connection according to claim 10, wherein the funnel (8) comprises an internal guide (9), and the guide post (12) comprises an external knob or rib (25).
12. A connection according to any of the claims 3-11, wherein the trigger means (17) comprises at least one trigger finger (17) arranged at a circumference of the base housing (24), said finger comprises a first end engageable with the termination head (1), a section connected to the base unit (5), and a trigger portion operably connected to the stab plate (14), such that the trigger portion releases said stab plate when the first end is fully engaged with the termination head.
13. A connection according to any of the claims 3-12, wherein the locking means (11) comprises at least one locking finger (11) arranged at a circumference of the base housing (24), said finger comprises an end which is lockable with the termination head and a section connected to the base unit.

14. A connection according to claim 13, wherein the locking finger (11) is operably connected to the stab plate (14), such that the locking finger is kept in a secured locking position when the first mating means and the second mating means are connected.

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15. A method for connecting an umbilical to a subsea structure, comprising the steps of:

- 10 - connecting an umbilical, having at least one transfer line, to an umbilical termination head (1) comprising a housing (23) and at least one connecting line (4), where each connecting line comprises a first mating means (3), such that the transfer line is in transferable contact with the first mating means;
- 15 - guiding the termination head towards a base unit arranged on a subsea structure, the base unit comprises a housing (24) and at least one connecting line (22), each connecting line comprises a second mating means (13), arranged to be connected with the cooperating first mating means (3), fixed in a stab plate (14) and kept in a retracted position before connection of the termination head and the base unit, wherein the
20 stab plate is arranged to move the second mating means towards the first mating means during connection, wherein the stab plate (14) and the second mating means (13) are arranged to move relative to the housing (24) of the base unit (5) during connection;
- 25 - moving the termination head into contact with the base unit such that the second mating means are aligned with the first mating means;
- 30 - moving the termination head into connection with the base unit such that the stab plate can move the second mating means to fully connect with the first mating means.