

Title (en)

Fail-safe subsea pressure vessel comprising a vacuum interrupter

Title (de)

Ausfallsicherer Unterwasserdruckbehälter umfassend einen Vakuum Schalter

Title (fr)

Cuve de pression sous-marine à sécurité intégrée comprenant un interrupteur à vide

Publication

EP 2824684 B1 20160224 (EN)

Application

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Priority

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Abstract (en)

[origin: EP2824684A1] The present disclosure relates to a subsea pressure vessel (1). The subsea pressure vessel (1) comprises a housing (3) arranged to maintain a pressure within an interior of the subsea pressure vessel (1) which differs from ambient pressure, a vacuum interrupter (5) arranged within the housing (3), which vacuum interrupter (5) has an enclosure (7) for maintaining a vacuum within the vacuum interrupter (5), and which vacuum interrupter (5) has a fixed terminal (9) with a fixed contact (9a) and a movable terminal (11) with a movable contact (11a), wherein the movable terminal (11) is operable between an open state in which the fixed contact (9a) and the movable contact (11a) are electrically separated and a closed state in which the fixed contact (9a) and the movable contact (11a) are electrically connected, and a movement counteracting arrangement (14) comprising a first counteracting member (15) arranged to move concurrently with the movable terminal (11) between the first state and the second state, and a second counteracting member (17) arranged to apply a counteracting force to the first counteracting member (15) when the movable terminal (11) is in the open state and the interior of the subsea pressure vessel (1) is subjected to a pressure increase compared to a normal operating pressure in the subsea pressure vessel (1) to counteract movement of the movable terminal (11) from the open state to the closed state. A subsea unit comprising a subsea pressure vessel (1) is also presented herein.

IPC 8 full level

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CPC (source: EP)

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