



Certificate no.:
TAD00001ME

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Pipe Fitting

with type designation(s)

Various pins and boxes for auxiliary lines to FT-E Slip Joint and Risers

issued to

PSW Technology AS

Mongstad, Norway

is found to comply with

DNV-OS-E101 – Drilling facilities, Edition July 2021

Application:

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Issued at **Høvik** on **2024-04-30**

This Certificate is valid until **2029-04-29**.

for **DNV**

DNV local unit: **Mid-North Norway CMC**

Approval Engineer: **Andreas Sigvardsson**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Form code: TA 251

Revision: 2023-09

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Codes and standards used as reference

- API 16F, "Specification for Marine Drilling Riser Equipment" second edition, Nov 2017.
- API 16C, "Choke and Kill Equipment" second edition, March 2015

Product description

Pins and boxes for auxiliary lines to Slip Joint.

Application/Limitation

Parameter	Limitation
Max working pressure, 212399	15 000 psi
Max working pressure, 212400	15 000 psi
Max working pressure, 212401	15 000 psi
Max working pressure, 212402	15 000 psi
Max working pressure, 61746	15 000 psi
Max working pressure, 212406	5 000 psi
Max working pressure, 212407	5 000 psi
Max working pressure, 61744	5 000 psi
Max working pressure, 213609	15 000 psi
Max working pressure, 213610	5 000 psi
Max working pressure, 213692	5 000 psi
Max working pressure, 213693	5 000 psi
Max working pressure, 213694	5 000 psi
Max working pressure, 213695	5 000 psi
Max working pressure, 213696	5 000 psi
Max working pressure, 61742	5 000 psi
Max working pressure, 61741	5 000 psi
Max working pressure, 61743	5 000 psi
Max working pressure, 61745	15 000 psi
Corrosion allowance:	1.3 mm
Service:	Sour
Min. Temperature class:	Class U (-18°C to 121°C)
Min. Material Class, API Spec 6A:	DD
Min. API Spec 6A Product Specification Level, PSL	PSL 3

Type Approval documentation

Materials

Testing to be carried out on each individual product

- Pressure testing to be carried out in accordance with DNV-OS-E101, Ch.2 Sec.8. The test pressure is to be 1.5 x working pressure.
- Charpy testing to be carried out in accordance with Ch.2, Sec.2 of DNV-OS-E101.

Other comments

- The pins and boxes are designed for pressure loads only and are not to be used in load-sharing risers.
- The approval of the non-metallic seals is limited to the non-metallic seals from Parker as specified in document 213436 rev.2.

Marking of product

Each individual pin/box is to be marked with manufacturer trademark, type designation and serial number. The surveyor shall stamp each unit with VL mark and with the DNV Product Certificate number or reference to Type approval.

Periodical assessment

For retention of this Type Approval, a DNV surveyor shall perform a periodical assessment after two years (+/- 90 days) and after 3.5 years (+/- 90 days). The objective of the periodical assessment is to verify that the conditions for the Type Approval have not been altered. (Ref DNV-CP-0338 Type approval scheme).
Validity of this certificate can be checked at <https://approvalfinder.dnv.com>