

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Hoisting, Rotation and Pipehandling Equipment**with type designation(s)
350 Ton BX Frame III Elevator (PN 203300)

Issued to

Varco BJ B.V.
Etten-Leur, Netherlandsis found to comply with
DNVGL-OS-E101 – Drilling facilities, Edition January 2018**Application :****The elevator is designed for lifting and suspending tubular goods, from drill pipes to casing.**Issued at **Høvik** on **2018-04-04**This Certificate is valid until **2023-04-03**.for **DNV GL**DNV GL local station: **Rotterdam, Product
Certification /Verification**Approval Engineer: **Hallvard Thune Uglane**

Per Esvall
Head of Section

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.



Reference Standards

API Spec 8C, Specification for Drilling and Production Hoisting Equipment (PSL1 and PSL2), 5th Edition

Product description

350 Ton BX Frame III Elevator.

The elevator is designed for lifting and suspending tubular goods, from drill pipes to casings.

One door bushing is spring loaded with linkage connecting it to a locking pin. Any load on this bushing segment engages the pin preventing the elevator from opening.

Application/Limitation

Maximum load rating: 3310 kN (350 short tons)

Minimum design temp: -20 °C (-4 °F)

Minimum bore: 9 5/8"

Maximum bore: 20"

Type Approval documentation

Tests to be carried out

Test procedures:

1. Each product is to be tested according to DNV GL's Offshore Standard DNVGL-OS-E101 "Drilling Facilities", January 2018, Ch.2, Sec.8, 4.1, including proof load test according to API Spec 8C, Ch 8.6.
2. Charpy impact testing shall be performed in accordance with DNVGL-OS-E101 "Drilling Facilities" Ch.2, Sec.2, 2.6.
3. Qualification of welders, welding- and heat treatment procedures shall be in accordance with DNVGL-OS-E101 "Drilling Facilities" Ch.2, Sec.8, 2.3 to 2.5.

PSL 2

4. PSL 2 units shall meet the stricter demands for materials, welding, quality control (NDE) and as described in Chapters 6, 7 and 8 respectively in API Spec 8C.

Marking of product

For tracability and compliance with API 8C, Sec. 10, each unit should as a minimum be marked with:

- API Spec 8C
- PSL number
- Load rating
- Component traceability
- Drillpipe size and style (if used for lifting drillpipes)

Periodical assessment

For retention of the Type Approval, DNV GL Surveyor shall perform a survey – every second year and before the expiry date of this certificate. This is in order to verify that the conditions for the type approval are complied with, ref. DNVGL-CP-0338, DNVGL Type approval scheme.

This certificate is a renewal and replaces the earlier issued Type Approval Certificate No. D-4879.

END OF CERTIFICATE