

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Hoisting, Rotation and Pipehandling Equipment**

with type designation(s)

5 Ton SPL Elevator, Part no. 200008/200009/200014, 200010/200011

Issued to

Varco BJ B.V.**Etten-Leur, Noord-Brabant, Netherlands**

is found to comply with

DNVGL-OS-E101 – Drilling facilities, Edition January 2018**Application :****The conventional center latch collar type elevator with insert is designed for handling a single joint of drill pipe, casing or tubing**Issued at **Høvik** on **2019-01-08**This Certificate is valid until **2024-01-07**.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

5 Ton SPL Elevator

Part Nos. 200008, 200009, 200010, 200011 ,200014

Varco BJ "SPL" type elevators using tapered inserts are conventional center latch type elevators for handling a single joint of 18° drill pipe and 12° or 5° casing and tubing. There are 3 types with 5 ton capacity covering 18° drill pipe sizes from 3 1/2" to 6 5/8" O.D, 12° tubing sizes from 2 3/8" to 4 1/2" O.D. and 5° casing or tubing sizes 2 7/8" to 10 3/4" O.D.

Application/Limitation

Maximum load rating: 44.5 kN (5 short ton)

Minimum design temp: -20°C (-4°F)

P/N 200008:	bore size 2 7/8" – 5 1/2"	5° insert
P/N 200009:	bore size 3 1/2" – 5"	18° insert
P/N 200010:	bore size 5 1/2" – 7 5/8"	5° insert
P/N 200011:	bore size 5 1/2" – 6 5/8"	18° insert
P/N 200014:	bore size 2 3/8" – 4 1/2"	12° insert

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-4870.

END OF CERTIFICATE