

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Anchors Shackles for Stevpris Mk5, Stevshark Mk5, Stevpris Mk6 and Stevshark REX**

with type designation(s)

010802-60 to 010802-230 (for Mk5 Anchors)**010803-60 to 010803-230 (for Mk6 and REX Anchors)**

Issued to

Vryhof Anchors B.V.**Capelle aan den IJssel Zuid-Holland, Netherlands**

is found to comply with

DNVGL-OS-E302 – Offshore mooring chain, Edition July 2015**Application :****to be used for Temporary, Mobile and Long Term Mooring
as defined in DNVGL-OS-E301, Position Mooring, July 2015**Issued at **Høvik** on **2018-01-09**This Certificate is valid until **2023-01-08**.for **DNV GL**DNV GL local station: **Rotterdam**Approval Engineer: **Pierre-Eric Moulia**

Inger-Helene Hals
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.



Product description

R4 grade anchor shackles with short or long pin for Stevpris Mk5, Stevshark Mk5, Stevpris Mk6 and Stevshark REX fluke anchors.

Shackle diameter (mm)		R4 chain max diameter (mm)	MBL (kN)
Bow	Pin		
60	68	43	2 055
70	80	50	2 740
80	90	58	3 628
90	95	65	4 492
100	110	72	5 432
110	120	79	6 443
120	130	86	7 522
130	140	93	8 664
140	150	100	9 864
150	160	108	11 301
160	170	115	12 610
170	180	122	13 964
180	190	129	15 357
190	205	136	16 785
200	215	143	18 243
210	225	150	19 728
220	235	158	21 451
230	245	165	22 976

Application/Limitation

The anchor shackle is to be used in Temporary, Mobile and Long Term Mooring lines as defined in Offshore Standard DNVGL-OS-E301 Position Mooring July 2015.

The anchor shackle shall be manufactured and tested in accordance with Offshore Standard DNVGL-OS-E302 Offshore Mooring Chain July 2015.

The approval is conditional that manufacturer is holding an Approval of Manufacturer DNVGL Certificate.

Individual Product Certificate is to be issued for each delivery.

Type Approval documentation

Tests carried out

For every order, testing shall be carried out according to DNVGL-OS-E302 July 2015.

Marking of product

Each shackle shall be marked according to Offshore Standard DNVGL-OS-E302 July 2015 Ch2 Sec2 §1.4 & §3.9.



Job Id: **262.1-027917-1**
Certificate No: **TAS00001BR**

Periodical assessment

For retention of the Type Approval, a DNVGL surveyor shall perform a survey after 2 years and another one after 3,5 years (+/- 90 days), to verify that the type approval is complied with.