

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Ø76mm Towing Pear Link**with type designation(s)
ASAC14011-06Z01-76
ASAC14011-06Z03-76

Issued to

Jiangsu Asian Star Anchor Chain Co., Ltd.
JINGJIANG JIANGSU, China

is found to comply with

DNV-OS-E301 Position Mooring October 2013**Application :****Towing****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**This Certificate is valid until **2019-07-31**.Issued at **Høvik** on **2015-07-13**for **DNV GL**DNV GL local station: **Jiangyin**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.

Job Id: **262.1-019942-1**
Certificate No: **TAS000000R**

Product description

Ø76mm Towing Pear Link in K3 grade (4300 kN MBL) and R3 grade (4885 kN MBL)

Application/Limitation

The approval is conditional that the manufacturer is approved by DNVGL for K3 and R3 grade material.

The links are to be used in connection with chains for Towing.

(Note: The R3 links can also be used in connection with chains for Temporary and Mobile Mooring as defined in Offshore Standard DNV-OS-E301 "Position Mooring" October 2013.)

The R3 links shall be manufactured and tested in accordance with Offshore Standard DNV-OS-E302 "Offshore Mooring Chain" October 2013.

The K3 links shall be manufactured and tested in accordance with Rules for Ships January 2015 Pt.3 Ch.3 Sec.3

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 DNV-OS-E302 October 2013 for R3 Grade; or according to Rules for Ships January 2015 Pt.3 Ch.3 Sec.3 for K3 grade.

Marking of product

Each link shall be marked according to Offshore Standard DNV-OS-E302 "Mooring Chain" October 2013 Ch2 Sec2 §1.4.1 & §3.9 for R3 grade ; or according to Rules for Ships January 2015 Pt.3 Ch.3 Sec.3 E800 for K3 grade.

Periodical assessment

For retention of the Type Approval, DNVGL surveyor shall perform a survey every second year and before the expiry date of this Certificate to verify that the conditions of the type approval are complied with.