

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Hook - Lifesaving**with type designation(s)
HPH 2.5

Issued to

H. Henriksen AS
TØNSBERG, Norwayis found to comply with
DNV GL standard DNVGL-ST-0378 – Standard for offshore and platform lifting appliances**Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**Issued at **Høvik** on **2018-06-08**for **DNV GL**This Certificate is valid until **2022-06-07**.DNV GL local station: **Sandefjord**Approval Engineer: **Mats Asvald Innstø**

Aldo Matteucci
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

Survival craft towing painter with remote release device

Maximum tension in towing line : 2.5 tonnes (DAF included) SF=4
Minimum design temperature: -20 degrees Celcius

The product will be delivered with the following versions:

- HPHH 2.5 HH001543
- HPHV 2.5 HH001542
- HPHR 2.5 HH000103
- HPHST 2.5 HH000079

Application/Limitation

1. All materials are to be delivered with 3.1 certificates (EN 10204:2004), documenting mechanical properties and chemical composition in accordance with the type approval documentation, and shall comply with DNVGL-ST-0378 Edition May 2016 Standard for offshore and platform lifting appliances.
 - Support to hull structure is not included in this examination and shall be evaluated separately.

Type Approval documentation

<u>Drawing No.</u>	<u>Rev.</u>	<u>Title</u>
HH020044	A4	Sideplate 8x251,5x 101,3
HH020043	A3	Sideplate 8x251,5x101,3
HH010014	-8	Krokemne 20x142x76,8
HH040076	-2	Adapterfestebolt
HH040077	-1	Detaljtegning
HH001345	A5	HPH 2.5
HH001543	A9	HPHH 2.5
HH001542	-10	HPHV 2.5
HH000103	-4	HPHR 2.5
HH000079	-3	HPHST 2.5

Testing

Prototype testing carried out 2004-05-24, witnessed by DNV Høvik.

In order to obtain a DNV GL Product Certificate, testing is to be carried out according to DNVGL-ST-0378 Edition May 2016 Standard for offshore and platform lifting appliances.

Marking of product

Each painter hook shall be marked according to DNVGL-ST-0378 Edition May 2016 Standard for offshore and platform lifting appliances.

Periodical assessment

For retention of the Type Approval, a DNV GL surveyor shall perform a survey every second year and before expire date of this certificate to verify that the conditions for the type approval are complied with.

END OF CERTIFICATE