DNV·GL

Certificate No:
TAS0000073

TYPE APPROVAL CERTIFICATE

This is to certify:

That the DACL, MARC and DCCL Connectors

with type designation(s)
DACL 15-4.10.4
DCCL 15-62.102.4

Issued to
Schmiedestück-Vertrieb Feuerstein GmbH
Hattingen Nordrhein-Westfalen, Germany

is found to comply with
DNVGL-OS-E302 – Offshore mooring chain, Edition July 2015

Application :

To be used for Temporary Mooring as defined in DNVGL-OS-E301, Position Mooring, July 2015

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

This Certificate is valid until **2020-12-03**.

Issued at **Høvik** on **2015-12-04**

for **DNV GL**

DNV GL local station: **Essen**

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.

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Certificate TAS0000073 replaces S-8575. MARC #7 and #8 are added. They are a variation of DACL #7 and #8.

Product description

DACL "Detachable Anchor Connecting Link" in R4 grade.

DACL size	Max R4 chain diameter (mm)	Max proof load (kN)	Max break load (kN)
4	40	1410	1789
5	51	2243	2845
6	60	3048	3867
7	79	5079	6443
8	92	6699	8497
10	102	8054	10217

MARC "Modified AnchoR Connecting link" in R4 grade.

MARC size	Max R4 chain diameter (mm)	Max proof load (kN)	Max break load (kN)
7	79	5079	6443
8	92	6699	8497

DCCL "Detachable Chain Connecting Link" in R4 grade.

DCCL size	Max R4 chain diameter (mm)	Max proof load (kN)	Max break load (kN)
62-64	64	3440	4364
65-67	67	3747	4753
68-70	70	4064	5156
71-73	73	4392	5572
74-76	76	4731	6001
78-79	79	5079	6443
81-83	83	5559	7052
84-86	86	5930	7522
87-89	89	6310	8004
90-92	92	6699	8497
94-95	95	7096	9001
97-98	98	7501	9515
100-102	102	8054	10217

Application/Limitation

The approval is conditional that the manufacturer is approved by DNVGL for R4 grade material.

The Connecting Links are to be used in connection with chains for Temporary Mooring as defined in Offshore Standard DNVGL-OS-E301 "Position Mooring" July 2015.

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

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 Connecting Link shall be marked according to Offshore Standard DNVGL-OS-E302 "Mooring Chain" July 2015 Ch2 Sec2 §1.4.1 & §3.9.

Periodical assessment

For retention of the Type Approval, DNVGL surveyor shall perform a survey every 2 ½ year and before the expiry date of this Certificate to verify that the conditions of the type approval are complied with.