DNV·GL

Certificate No:
TAS00002G0

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Lifting Gear

with type designation(s)
7/8"W, 1"W, 1-1/4"W, 1-1/2"W, 1-3/4", 2" A-342-CT Master Link

Issued to
Crosby Group LLC - McKissick Division
Tulsa, OK, USA

is found to comply with
DNV GL standard DNVGL-ST-0378 – Standard for offshore and platform lifting appliances
DNVGL-OS-E101 – Drilling facilities, Edition January 2018

Application :

See page 2

Issued at **Houston** on **2020-04-14**
This Certificate is valid until **2025-04-13** .
DNV GL local unit: **Houston, Approval CMC**

Approval Engineer: **Bo Cui**

for **DNV GL**

Christian Nilsen
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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Reference Standards:

API Standard 2CCU, Offshore Cargo Carrying Units
ASME B30.26: Rigging Hardware
ASTM A952, Forged GR 80/100 Steel Lifting Components and Welded Links
EN 1677-4 Components for Slings, Safety, Part 4; Links, Grade 8

Manufactured at:

Master links and master link assemblies to be manufactured at one of the following plants in the Crosby Group:

Place of Manufacturer
Lebus Manufacturing, Longview, Texas, USA
Elwood Forge, Navasota, Texas, USA
Modern Forge, Merillville, Indiana, USA

Crosby Group Inc. takes responsibility that both design and production at all places of manufacturer are in compliance with the Rules, Standards and/or Regulations listed on page 1 of this Type Approval Certificate.

Product description

A-342-CT Master Links: 7/8W",1"W, 1-1/4"W, 1-1/2"W, 1-3/4", 2"

Application/Limitation

A345CT Crosby Stock No.	Size		WLL (EN1677-4)		Proof Load (lbs)	Ultimate Load (lbs)	Catalog Dimensions (in.)		
	(in.)	(mm)	(lbs)	(tonnes)			A	B	C
3575500	7/8W	22W	15200	6.9	38000	76000	0.88	3.75	6.38
3575509	1W	26W	26000	11.8	65000	130000	1.10	4.3	7.5
3575518	1-1/4W	32W	39100	17.7	97750	195500	1.35	5.5	9.5
3575527	1-1/2W	38W	61100	27.7	152750	305500	1.61	5.9	10.5
3575536	1-3/4	44	84900	38.5	212250	424500	1.75	6	12
3575545	2	51	102600	46.5	256500	513000	2.00	7	14

Minimum Design Temperature : -40°C (-40°F)
Minimum Ultimate Load : 5:1
Proof Test Load Factor : 2.5

Fabrication procedures

Test Procedures:
1. Load testing to be carried out per Table 14-2, section 14 of DNVGL-ST-0378, July 2019.

NDE Procedures:
2. 100% surface NDE to be carried out after load testing.

Welding Procedures:
3. To be approved/qualified by DNVGL Surveyor.

Tests carried out

- Type Approval Assessment Report for Crosby Longview completed reference to A0561206

Marking of product

For traceability the following marking is to be carried out on each product:

1. Serial No.
2. Manufacturer's Name or trademark
3. Additional marking at the manufacturer's discretion

Certificate Retention Survey

For retention of the Type Approval, DNV GL's surveyor shall perform periodical assessment in accordance with DNV GL's Class Programme DNVGL-CP-0338, Section 4.

Other conditions/comments

- In conjunction with the listed performance standards, this certificate may be used to help the duty holder discharge their duties towards the verification scheme required by SI 1992/285, The Offshore Installations (Safety Case) Regulations 1992.
- Charpy Impact testing to be in accordance with section 3 of DNVGL-ST-0378, July 2019.
- 100% traceability required on load bearing components.
- Procedures related to testing, welding, NDE, and other quality control requirements are to be reviewed/approved by DNV's local surveyor
- This TAC TAS00002G0 replaces previously issued TAC with certificate number S-8355.

END OF CERTIFICATE