

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Quick Connecting Coupling for LNG / LPG

with type designation(s)
DDCCoupling (Dry Disconnect/Connect Couplings)

Issued to

Mann Teknik AB
MARIESTAD, Sweden

is found to comply with
ISO 21593:2019 Ships and marine technology – Technical requirements for dry-disconnect/connect couplings for bunkering liquified natural gas

Application :

Dry-disconnect/connect couplings for bunkering liquified natural gas.

This certificate is not valid for couplings which are subject to Classification by DNV.

Max. working temp.: -196°C to +85°C

Max. working press.: See page 2

Sizes: DN25, DN50, DN65, DN80, DN100, DN150 and DN200

Issued at **Høvik** on **2021-12-21**

This Certificate is valid until **2026-12-20**.

DNV local station: **Sweden CMC**

Approval Engineer: **Sinisa Sedlan**



for **DNV**

Digitally Signed By: Sedlan, Sinisa

Location: DNV Høvik, Norway

Zeinab Sharifi
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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

