



Certificate no.:
TAP00002UH

TYPE APPROVAL CERTIFICATE

This is to certify:

that the **Pipe Couplings, Bite and Compression Type**

with type designation(s)
FIG200/207

issued to

Yancheng Runwei Petrochemical Machinery co., Ltd
Yancheng, jiangsu, China

is found to comply with

DNV-OS-D101 – Marine and machinery systems and equipment, Edition July 2021
DNV class programme DNV-CP-0185 – Type approval – Mechanical joints
DNV-OS-E101 – Drilling facilities, Edition July 2021

Application:

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

Temperature range: -20°C to +80°C

Max. working press.: 138 bar(g)

Sizes: 3"/4"/5"/6"/8"/10"

Issued at **Høvik** on **2024-05-07**

This Certificate is valid until **2029-05-06**.

for **DNV**

DNV local unit: **Nantong**

Approval Engineer: **Thomas Wilhelm Juell**

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.



Form code: TA 251

Revision: 2023-09

www.dnv.com

Page 1 of 2

Product description

Hammer unions comprised of female sub and blind cover according to API 6A, delivered in six size configurations, constructed from ASTM A105/A105M forged carbon steel.

Application/Limitation

Couplings covered by this certificate are approved to be used in spud can jetting systems.

Sizes	3", 4", 5", 6", 8", 10"
Maximum working pressure	2000 psi / 138 bar
Design temperature	-29°C to +121°C
Material class	DD
Product specification level	PSL3

Materials and material protection chosen shall be suitable for the intended medium and environmental conditions.

The couplings covered by this certificate are not to be considered fire safe and therefore shall not be installed wherever fire safe application is required.

The approval is only valid when the couplings are assembled with tubing of correct temper and tolerances as recommended by the manufacturer.

Couplings covered by this certificate shall not be installed in systems subject to pressure below atmospheric or vacuum conditions.

Type Approval documentation

Tests carried out

Tightness test, repeated assembly test, and burst pressure test.

Marking of product

For traceability to this type approval, each coupling shall at least be marked with:

- Manufacturer's name or trademark
- Type designation
- Size
- Maximum working pressure

Periodical assessment

For retention of the Type Approval, a DNV Surveyor shall perform periodical assessment after two years (+/- 90 days) and after 3.5 years (+/- 90 days) to verify that the conditions for the approval are complied with. Reference is made to DNV-CP-0338.