

APPROVAL OF MANUFACTURER CERTIFICATE

This is to certify:

That
YC INOX CO., LTD.
Chang-Hwa, Taiwan

is an approved manufacturer of
Steel Pipes and Fittings

in accordance with
DNV GL rules for classification – Ships
DNV GL offshore standards

and the following particulars:

| | |
|---------------------------------------|-----------------------------------|
| Product | Pipes |
| Application area | Austenitic stainless pipes |
| Steel type | Austenitic stainless |
| Manufacturing method | Welded |
| Max. outer diameter | See page 2 |
| Max. wall thickness | See page 2 |
| Heat treatment condition | Solution heat treated |
| Additional approval conditions | See page 2 |

Manufacturer(s) approved by this certificate is/are accepted to deliver according to DNV GL, DNV and GL rules. Materials to be applied to DNV GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at **Hamburg** on **2018-06-14**

for **DNV GL**

This Certificate is valid until **2021-06-30**.

DNV GL local station: **Kaohsiung**

Approval Engineer: **Enno Brück**

Thorsten Lohmann
Head of Section



Job Id: **263.11-002271-4**
Certificate No: **AMMM000023C**

Particulars of the approval

Austenitic steel pipes

| Steel type ³⁾⁴⁾ | Manufacturing method ¹⁾ | Max. outer diameter [mm] | Max. wall thickness [mm] | Delivery condition ²⁾ |
|----------------------------|------------------------------------|--------------------------|--------------------------|----------------------------------|
| Austenitic | EFW | 457,2 | 9,52 | SHT |

Remarks:

- 1) EFW: electric fusion welded
- 2) SHT: Solution Heat Treated (solution annealing)
- 3) Certification of any material applied to classed object shall fulfill the applicable material requirements in the DNV GL class rules
- 4) Suitable pipe grades shall be selected from the following recognised standards:
ISO 9329 Part 4, ISO 9330 Part 6, EN 10216 Part 5, EN 10217 Part 7, ASTM A269, A312, A358, A789, A790, A928 and JIS G3459