



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM000035D

This is to certify:

That

YUSUNG BEND INC.

**14 Hwajeonsandan 6-ro 102beon-gil Gangseo-gu Busan,
Korea**

is an approved manufacturer of
Steel Pipes and Fittings

in accordance with

DNV rules for classification – Ships

DNV class programme – DNV-CP-0252 Steel pipes and steel pipe fittings

and the following particulars:

Product	Pipe fittings (elbows, reducers, tees and caps)
Application area	Pipe fittings
Steel type	Austenitic stainless
Manufacturing method	Seamless
Max. outer diameter	See page 2
Max. wall thickness	See page 2
Heat treatment condition	See page 2
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 classed object shall fulfill the material requirements in the applicable DNV class rules.

Issued at **Hamburg** on **2024-03-27**

This Certificate is valid until **2027-03-26**.

for **DNV**

DNV local unit: **Gimhae Station**

Approval Engineer: **Stefan Röhr**

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.



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Particulars of the approval

Piping fittings (elbows, tees, reducers and caps)

Steel type ³⁾	Manufacturing method ¹⁾	Max. outer diameter [mm]	Max. wall thickness [mm]	Heat treatment condition ²⁾
Austenitic stainless steel	CFS	508	19	SHT

Remarks:

- 1) CFS: Cold finished seamless (starting material: welded pipes/seamless pipes)
- 2) SHT: Solution Heat Treated (solution annealing)
- 3) Suitable pipe fittings shall be selected from the following recognized standards:
KS B 1543, EN 10253, ASTM A234, ASTM A403, ASME SA403, ASTM A420, ASTM A774,
ASTM A815, ASTM A960, ASTM A961, JIS B2312, JIS B2313 or JIS B2316

Additional approval conditions

Heat treatment subcontracted to DNV approved heat treatment workshop Shinsung Fitting Co., Ltd., Busan, Korea;
Including austenitic stainless steel pipe fittings for approved low-temperature applications