

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: AMMM00002JJ Revision No:

This is to certify:

That

IRC Industria Raccorderie Cortemaggiore S.p.A.

Via E. Fermi n. 7, 29016 Cortemaggiore (PC), Italy

is an approved manufacturer of Steel Pipes and Fittings

in accordance with

DNV rules for classification – Ships DNV-OS-B101 – Metallic materials DNV class programme – DNV-CP-0252 Steel pipes and steel pipe fittings

and the following particulars:

Product Fittings
Application area Piping fittings

Steel type Carbon and carbon-manganese,

Alloy

Manufacturing method Seamless, hot formed

Max. out diameter 610 mm
Max. wall thickness 30 mm
Heat treatment condition 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 2023-03-22

for DNV

This Certificate is valid until 2025-07-15.

DNV local unit: Italy/Malta CMC

Approval Engineer: Dechun Lou

Thorsten Lohmann
Head of Section

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Job Id: **263.11-009819-2** Certificate No: **AMMM00002JJ**

Revision No:

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⁾
C and C-Mn	HFS	600	30	N, NT, QT
Alloy	HFS	600	30	N, NT, QT

Remarks:

1) HFS: Hot finished seamless

2) N: Normalised

NT: Normalised and tempered

QT: Quenched and temerped

3) Piping fitting

Suitable pipe grades shall be selected from the following recognized standards: EN 10253, ASTM A234, ASTM A403, ASTM A420, ASTM A744, ASTM A815, ASTM A860, ASTM A960, ASTM A961, JIS B2312, JIS B2313 or JIS B2316.

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