DNV-GL

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No: AMMM000021F

This is to certify:

That

S.C. UPRUC CTR SA FAGARAS

1 Negoiu Street, 505200 Fagaras, Romania

is an approved manufacturer of **Steel Pipes and Fittings**

in accordance with DNV GL rules for classification - Ships

and the following particulars:

Application area Steel type

Pipe Fittings (elbows, reducers, tees, caps)

Carbon and Carbon-Manganese Alloy, Austenitic Stainless

Manufacturing method

See page 2

Dimension

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 GL classed object shall fulfill the material requirements in the applicable DNV GL class rules.

Issued at Hamburg on 2018-04-23

This Certificate is valid until 2021-04-22. DNV GL local station: Bucharest

Approval Engineer: Andreas Koch



for **DNV GL** Digitally Signed By: Roehr, Stefan Location: DNV GL Hamburg, Germany Signing Date: 26.04.2018 , on behalf of

> **Thorsten Lohmann Head of Section**



Form code: AM 311

Revision: 2018-03

www.dnvgl.com

Page 1 of 2

Job Id:

263.11-008633-1 Certificate No: AMMM000021F

Particulars of the approval

Piping fittings (elbows, reducers, tees, caps)

Steel type	Grade 1) 2)	Manufacturing method 3)	Dimensions [mm]	Delivery condition 4)
C and C-Mn	P235GH, P265GH,	CFS HFS	5) 6)	N
	16Mo3 acc. to			
	EN 10216-2			
	P355NL2 acc. to			
	EN 10216-3			
Alloy	13CrMo4-5 acc. to			N+T
	EN 10216-3 and other			
	grades alloyed with CrMo			
Austenitic	X6CrNiTi18-10 acc. to			S+Q
	EN 10216-5 and other			
	stainless steel grade			
	alloyed with CrNi			

5) for grades:

elbows: equal tees:

Ø 20.1-610mm, wall thickness 2-35mm, weight max. 500kg Ø 21.3-610mm, wall thickness 2-35mm, weight max. 600kg

reducer tees:

Ø 21.3/17.1-610/508mm, wall thickness 2-35mm, weight max. 600kg

6) for grades:

concentric reducers: Ø 21.3/17.1-610/508mm, wall thickness 2-35mm, weight max. 300kg eccentric reducers: Ø 26.7/21.3-610/508mm, wall thickness 2-35mm, weight max. 300kg

Ø 21.3-610mm, wall thickness 2-35mm, weight max. 300kg caps:

Form code: AM 311 Revision: 2018-03 www.dnvgl.com Page 2 of 2

¹⁾ Certification of any material applied to classed object shall fulfill the applicable material requirements in the DNV GL class rules

²⁾ Incl. equivalent grades in acc. to other standards mentioned in applicable DNVGL Rules

³⁾ CFS: cold formed seamless HFS: hot formed seamless

⁴⁾ N: Normalized; N+T: Normalized and tempered; S+Q: Solution annealed+quenched