



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00001ND
Revision No:
2

This is to certify:

That

Busch + Kunz GmbH & Co. KG
Carl-Benz-Str. 17-19, 57299 Burbach,
Germany

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	Fittings
Application area	Piping fittings
Steel type	Carbon and carbon-manganese, Alloy, Austenitic stainless, See page 2
Manufacturing method	Hot formed / cold formed
Max. outer diameter	See page 2
Max. wall thickness	See page 2
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 **2023-11-01**

for **DNV**

This Certificate is valid until **2026-08-31**.

DNV local unit: **Essen**

Approval Engineer: **Christian Wildhagen**

Thorsten Lohmann
Head of Section

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Page 1 of 2

Particulars of the approval

Piping fittings

Steel type	Standard ³⁾	Manufacturing method ¹⁾	Max. outer diameter [mm]	Max. wall thickness [mm]	Heat treatment condition ²⁾
C and C-Mn, Alloy	EN 10083	HF, CF	610	40	N, NT
	ISO 3183				
	EN 10216-1				
	EN 10216-2				
	EN 10216-3				
	EN 10216-4				
	EN 10222				
Austenitic stainless	EN 10217-7	HF, CF	323.9	12	SHT
	EN 10216-5				

Remarks:

- 1) HF: hot finished
CF: cold finished
- 2) N: Normalised
NT: Normalised and tempered
SHT: Solution Heat Treated (solution annealing)
- 3) Starting material. Final pipe fittings to comply with the following recognized standards:
EN 10253, ASTM A234, ASTM A403, ASTM A420, ASTM A744, ASTM A815, ASTM A960, ASTM A961, JIS B2312, JIS B2313 or JIS B2316.