



APPROVAL OF MANUFACTURER CERTIFICATE

Certificate no.:
AMMM0000100
Revision No:
5

This is to certify:

that

König & Co.GmbH
Obere Industriestraße 24-26, 57250 Netphen,
Germany

is an approved manufacturer of
Pressed Parts

in accordance with

DNV rules for classification – Ships
DNV class programme – DNV-CP-0350 Pressed parts and seamless gas cylinders

and the following particulars:

Application area	Pressed parts (dished and conical heads)
Steel type	Carbon and Carbon-Manganese Austenitic stainless Austenitic-ferritic (duplex) stainless Nickel alloy Aluminium alloy Copper alloy Non-magnetizable steels
Manufacturing method	Hot and cold forming
Max. 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 **2025-09-02**

This Certificate is valid until **2028-08-31**.

DNV local unit: **Essen**

Approval Engineer: **Christian Wildhagen**



for **DNV**

This document has been digitally signed and will
therefore not have handwritten signature

Martin Wenning

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 USD 300 000.

Particulars of the approval

Pressed parts

Grade ³⁾	Manufacturing method ¹⁾	Max. thickness [mm]	Diameter [mm]	Heat treatment condition ²⁾
Steel acc. to EN 10025-2				
S235JR, S235J0, S235J2, S275JR, S275J0, S275J2, S355JR, S355J0, S355J2, S355K2	CF	90	8 000	N
	HF	120	2 000	N
Steel acc. to EN 10025-3				
S275N, S275NL, S355N, S355NL	CF	90	8 000	N
	HF	120	2 000	N
Steel acc. to EN 10028-2				
P235GH, P265GH, P295GH, P355GH, 16Mo	CF	90	8 000	N
	HF	120	2 000	N
Steel acc. to EN 10028-3				
P275NH, P275NL1, P275NL2, P355N, P355NL1, P355NL2	CF	90	8 000	N
	HF	120	2 000	N
P460NH, P460NL1, P460NL2	HF, CF	40	7 100	N, N+A
Austenitic stainless steel acc. EN 10028-7				
1.4301, 1.4306, 1.4307, 1.4311, 1.4401, 1.4404, 1.4435, 1.4436, 1.4541, 1.4550, 1.4571	CF	90	8 000	SHT
	HF	120	2 000	SHT
Austenitic-ferritic (duplex) stainless steel acc. EN 10028-7				
1.4462	CF	35	8 000	SHT
	HF	60	2 000	SHT
Nickel alloy steel acc. EN 10028-4				
X8Ni9	CF	35	8 000	QT
	HF	50	2 000	QT
Aluminium alloy acc. EN 485				
EN AW 5083	CF, HF	50	4 000	O, H111, H112
Copper alloy acc. EN 1653				
CuNi30Mn1Fe	HF	16	2 000	A
Non-magnetizable steel acc. WL 1.3964 and VG 81224				
1.3964	HF	20	2 000	SHT

Remarks:

- ¹⁾ CF: cold forming
HF: hot formed
- ²⁾ N: Normalized
SHT: Solution Heat Treated (solution annealing)
QT: Quenched and tempered
A: Annealed
- ³⁾ Incl. equivalent grades in acc. to other standards (e.g. 304 LN acc. ASTM SA-240, Gr.60 acc. SA 516)

Special remarks:

- Pre-material supplier: manufacturers approved by DNV for the applicable grades of semi-finished products
- Welding is permitted according to procedures approved by DNV