

TYPE APPROVAL CERTIFICATE

Certificate No: **TAP00001CF**Revision No: 2

This is to certify:

That the Pipe System with Couplings

with type designation(s)

Exhaust Gas System Type DW-kl /double wall, Exhaust Gas System Type EW-kl /single wall

Issued to

Jeremias Abgastechnik GmbH

Wassertrüdingen, Germany

is found to comply with

EN 1856-1:2009 Chimneys - Requirements for metal chimneys - Part 1: System chimney products

EN 1856-2:2009 Chimneys – Requirements for metal chimneys – Part 2: Metal flue liners and connecting flue

pipes

EN 13216-1:2004 Chimneys - Test methods for system chimneys - Part 1: General test methods

Application:

Type: Temperature range: Max. pressure: Design: see certificate Exhaust Gas System Type EW-kl /single wall up to 600°C up to 600°C been see certificate

Issued at Hamburg on 2023-06-01

This Certificate is valid until **2028-05-31**. for **DNV**

DNV local unit: Augsburg

Approval Engineer: Ana Cristina Do Carmo Insfran

Sven Klinger Head of Section

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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This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Job Id: **262.1-028480-3** Certificate No: **TAP00001CF**

Revision No: 2

Product description

Exhaust gas piping system consisting of double walled pipe or single walled pipe.

Technical data:

Size range

Materials: | Inner pipe | ASTM SA 312 TP 304H, 316L, 316TI, /

EN 1.4404, 1.4571, 1.4948

Outer pipe | ASTM SA 312 TP 304, 316L, 316TI /

EN 1.4404, 1.4571

Insulation Type approved pre-formed mineral fibre,

Minimum density 120kg/m³,

Minimum thickness 32,5 mm, optional 50 mm

Sealing materials Asplit (up to 600°C)

Silicone (up to 200°C) DN 80 to DN 1000

0,6 mm to 1,0 mm inside / outside

up to 600°C

5000 Pa

Maximum Allowable
Working Temp. (MAWT)
Maximum Allowable

Pipe wall thickness

Working Pressure (MAWP)

Application/Limitation

The exhaust gas piping systems of type DW-kl and EW-kl are approved for the use as exhaust gas lines on boilers and diesel engines (downstream of turbo chargers).

Note:

For penetration of ship's fire divisions DNV type approved pipe penetrations shall be used.

The selection of the Exhaust Gas System for the corresponding application and correct installation shall be in accordance with the manufacturer's instructions.

Type Approval documentation

Marking of product

For traceability to this type approval the products are to be marked with:

- Manufacturer's name and mark
- Nominal diameter
- DNV Type Application Certificate number

Place of Production

Jeremias Abgastechnik GmbH Opfenrieder Straße 11 – 14 D-91717 Wassertrüdingen

Periodical assessment

For retention of the Type Approval, a DNV Surveyor shall perform periodical assessment after two years (+/- 90 days) and after 3.5 years (+/- 90 days) to verify that the conditions for the Type Approval are complied with. Refer to DNV CP-0338, Sec.4.

This certificate is only valid if required periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in https://approvalfinder.dnv.com

END OF CERTIFICATE

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