

TYPE APPROVAL CERTIFICATE

Certificate no.:
TAP000024Z
Revision No:
3

This is to certify:
that the Press fittings

with type designation(s)
NiroSan Series 9000, NiroSan Gas Series 17000, NiroSan Industry Series 18000 (ECO Series)

issued to
SANHA GmbH & Co. KG
Essen, Germany

is found to comply with
DNV GL rules for classification – Ships Pt.4 Ch.6 Piping systems
DNV class programme DNV-CP-0185 – Type approval – Mechanical joints
DNV-OS-D101 – Marine and machinery systems and equipment, Edition July 2021

Application:

Products approved by this certificate are accepted for installation on all vessels classed by DNV.

Temperature range: up to 200°C
Max. working press.: up to 16 bar
Sizes: 15 mm to 108 mm

Issued at **Hamburg** on **2026-05-27**

This Certificate is valid until **2030-09-20**.

DNV local unit: **Essen**

Approval Engineer: **Thilo Pabst**

for **DNV**



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

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.

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.