

# TYPE APPROVAL CERTIFICATE

**This is to certify:****That the Press fittings**

with type designation(s)

**NiroSan Series 9000, NiroSan Gas Series 17000, NiroSan Industry Series 18000**

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 GL class programme DNVGL-CP-0185 – Type approval – Mechanical joints****Application :****Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.****Temperature range: up to 200°C**  
**Max. working press.: up to 16 bar**  
**Sizes: 15 mm to 108 mm**Issued at **Hamburg** on **2020-09-21**This Certificate is valid until **2025-09-20**.DNV GL local station: **Essen**Approval Engineer: **Thilo Pabst**for **DNV GL**

Digitally Signed By: Drews, Olaf

Location: DNV GL SE Hamburg, Germany

Signing Date: 2020-09-30

**Olaf Drews**  
**Head of Section**

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 GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") 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.

