

Technical Submittal

NiroSan® Gas (17000)

SANHA®
a perfect fit



Product Group Description

The piping system consists of premium NiroSan® Gas stainless steel press fittings according to EN 10352 mounted with a yellow HNBR (=Hydrogenated Nitrile Butadiene Rubber) sealing ring and NiroSan® stainless steel system pipes according to EN 10312. All NiroSan® Gas press fittings are made from the premium stainless steel type 1.4404 / AISI 316L (for pressing components) and 1.4408 (for precision cast threaded stainless steel components). The material 1.4404 contains at least 2.3 % molybdenum, yet less carbon than the conventional type 1.4401. This is why the material no 1.4404/316L is a superior material with higher corrosion resistance than standard stainless steel.

Marking

Marking on the fitting: Manufacturer & dimension, approval marking (DVGW), GAS marking in yellow GT PN 1 / PN 5 (see surface)

Marking on the pipe: Black marking information about standard and certification. Manufacturer, batch number, dimension and system name (NiroSan® Gas)

Marking on the packaging: Logo manufacturer (SANHA®), Approval markings (DVGW,..) , quantity, system name (NiroSan® Gas), Product type (e.g. elbow)

Press fitting with Leak path feature

During a leakage test, accidentally left-unpressed connections are quickly discovered. SANHA® warrants the following pressure ranges for the identification of unpressed connections:

Min. air pressure: 10 hPa / 0,1 kPa / 0,01 bar / 0.14 PSI

Max. air pressure: 0.1 MPa / 100 kPa / 1 bar / 14,5 PSI

Sealing Elements

HNBR Yellow (Hydrogenated Nitrile Butadiene Rubber)

Notice: Depending on the operation period and media temperature, the press fitting system's sealing materials may undergo thermal aging. The sealing material undergoes thermal aging more quickly at higher media temperatures.

When dealing with unique operating circumstances, such as industrial heat recovery systems, it is important to compare the press fitting system's specifications with those of the appliance manufacturer. Please get in touch with SANHA® if you have any questions about the proper material selection or would like to use the press fitting system outside of the specified application regions.

Dimensions

All dimensions from 12 to 168 mm are available

Tools

NiroSan® Gas can be pressed up to 54 mm with SA, M and V original profile. For reason of guarantee, the installer always has to respect the instructions of the manufacturer regarding the use of press tools and press machines; Especially the instructions for the use and combination of tools and machines of different manufacturers. Finally, a common use of the press tools and press machines of different manufacturers is strictly forbidden without the authorization of the respective manufacturers.

Areas of applications

- | Natural gas
- | LNG {< pn 5}
- | Flammable gases
- | Hydrogen

Any use of the system for media or application areas not listed above requires approval from SANHA®! The product information, available online or in print, contains comprehensive details regarding uses, limitations, and national regulations and guidelines.

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Standard and approvals

Press fittings tested in accordance with DVGW Worksheet G260 with DVGW test mark. Approved for d12–168 mm. Press fittings suitable for stainless steel pipes in accordance with EN 10312 and DVGW Worksheet GW 392.

Further certifications and approvals can be found at the website

Operating conditions

The press fitting system NiroSan® Gas can be used with the following operating conditions:

- | Water and aqueous solutions and technical gases (non-toxic, non-flammable up to 168 mm)
- | Operating pressure: 5 bar - 16 bar depending on the application
- | Operating temperature with HNBR: -20°C + 70°C / 100 °C depending on the application
- | Type of thread: Pipe thread: R/Rp thread according to EN 10226,
- | Fastening thread: G thread according to ISO 228

Press fitting material

NiroSan® Gas fittings are made of stainless steel (material number 316L/1.4404) with a minimum molybdenum content of 2.3 % according to the standard EN 10352.

Permitted pipes

For the installation of NiroSan® Gas fittings the use of stainless steel pipes NiroSan®. The pipes are TIG-welded and are produced according to the standard EN 10312. (Table 1, series 1 and Table 2, series 2)

National standards and guidelines relevant to the application must be observed. If other dimensions are needed, please do not hesitate to contact us at technik@sanha.com

Certificates

These certificates can be found at www.sanha.com:

| Country | Certifier |
|----------------|-----------------|
| Austria | ÖVGW |
| Belgium | KVBG |
| Czech Republic | SZU |
| Denmark | ETA |
| Germany | DNV GL |
| Germany | DVGW |
| Germany | H2Ready® |
| Slovakia | TSU |
| Switzerland | SVGW |
| Ukraine | UA |
| Ukraine | UC |
| The UK | Kitemark |
| Global | Lloyds Register |
| Global | ABS |