

Fast – Reliable – flexible

SANHA
a perfect fit



Fixed water extinguishing systems

**Fast Assembly · Safe Press Connections
International Certification · Varied Product Range**

SANHA Press Fittings – always the right solution for every stationary water extinguishing system

In the case of a fire, not only high values but often even lives are at stake. The proper function of each water extinguishing system is therefore of greatest importance. SANHA press systems are ideal for many reasons the connection of fixed water extinguishing systems [hydrant and sprinkler systems].

Individual adaptation through different materials

For fixed water extinguishing systems, the following product lines can be used from the extensive SANHA® product range depending on the respective requirements and regulations.

Stainless Steel

NiroSan® + NiroSan® Industry

Premium piping system made of high quality stainless steel 1.4404 for highest corrosion resistance

- Black EPDM gasket / red gasket made of special elastomer for higher temperature resistance
 - Many dimensions 12 – 168.3 mm
- Tested and approved by DVGW, ÖVGW, WRAS, KIWA and many more.
- High flexibility due to the large selection of stainless steel system pipes

Copper + copper alloy

SANHA®-Press

Versatile press fittings made of copper

- admitted i.a. DVGW, ÖVGW, SVGW
- black EPDM gasket
- all dimensions from 12 – 108 mm
- for copper pipes according to EN 1057

PURAPRESS®

Modern transition fittings PURAPRESS® made of lead-free silicon bronze CuSi1

- tested according to DVGW worksheet W 534
- admitted i.a. from DVGW and Federal Environmental Agency (UBA positive list)
- black EPDM gasket
- extensive assortment





C-Stahl

SANHA®-Therm

Optimum solution for closed systems

- manufactured according to DIN EN 10346
- black EPDM gasket / red gasket made of special elastomer
- all common dimensions from 12 - 108 mm
- special DZ system pipes, optimized for stationary extinguishing systems

Broad, Certified Product Range

As a pipe specialist, SANHA has a very extensive range of suitable press fittings, which have been approved by numerous other international certification bodies in addition to the VdS.

Fast and reliable

For many years, press connections in the field of drinking water and heating installations have proven their worth and their rapid, safe and reliable installation. These advantages can now also be used in the field of sprinkler assembly.

Four own works

Fittings and all stainless steel pipes are produced in our own four plants in Germany, Belgium and Poland. The high quality of the NiroSan® press systems is ensured by constant production controls in these plants as well as regular external monitoring by neutral testing institutes. They are suitable for wet and dry sprinkler systems according to VdS CEA 4001 as well as for fire-extinguishing hydrant systems according to DIN 14462.

QMS: Production Monitoring and Quality assurance according to EN ISO 9001: 2015

The quality management system is certified according to EN ISO 9001: 2015. This ensures a complete quality assurance from the input of the primary material to the delivery of the finished product to the end user. Of particular importance in this context is the traceability of every single fitting from the processor to the ingot of the primary material manufacturer, since SANHA uses only such input material whose manufacturer can also demonstrate this certification.





Fire extinguishing hydrant systems DIN 14462

Wet
plants

Dry +
wet drying
plants

NiroSan® [9000]

- System press fittings
- System pipes 9000 + 9700

SANHA®-Therm [24000]*

- System press fittings
- DZ-Systemrohr

SANHA®-Press [6000] PURAPRESS [8000]

- System press fittings
- Cu pipe

All tools that
comply with the SANHA
tool compatibility
declaration

combiPress
= Tool Compatibility + Push & Stay
+ Leak Path Feature
exclusive from SANHA

Sprinkler systems VdS CEA 4001

Wet
plants

Drying
plants

NiroSan® [9000]

- System press fittings
- System pipes 9000 + 9700

SANHA®-Therm [24000]*

- System press fittings
- DZ System pipe

NiroSan® Industry [18000]

- System press fittings
- System pipe 9000

Approved SANHA Novopress press tools Dimensions d = 22 mm bis d = 54 mm

	Operating Mode	only for this Dimensions	catalog number
not electronically monitored			
SANHA ECO 1 / ECO 201 / ECO 202	mains operation		6902
SANHA ACO 1 / ACO 201 / ACO 202	battery		6908
SANHA EFP 201 / EFP 202	mains operation		6925
SANHA Service Plus Press jaws		d = 22 mm	6940
SANHA-HP Press loops with intermediate jaw ZB 203		d = 28 ≥ 54 mm	6932-HP mit 6930.1
electronically monitored			
SANHA ECO 3 / ECO 301, electronic Pressmaschine	mains operation		6900
SANHA ECO 3 / ECO 301, electronic Pressmaschine	battery		6904
SANHA Press jaw		d = 22 mm	6920
SANHA-HP Press loops with intermediate jaw ZB 303		d = 28 ≥ 54 mm	6932-HP mit 6931.4
Novopress ACO 401, Pressmaschine	battery	d = 76,1 ≥ 108 mm	6908.2
SANHA-HP Press loops		d = 76,1 ≥ 108 mm	6933-HP

* When using carbon steel, periodic pipe control is advisable to detect corrosion processes in good time.



Practical tips for pressing

Pressfitting, pipe and pressing tool must always be coordinated so that the interaction of these three components results in a permanently sealed, positive and longitudinally strong connection point. For pressfittings and pipes, SANHA ensures very tight manufacturing tolerances. Thus, the proper function of the pressing tools is of particular importance. In order to achieve a permanent tight, positive and longitudinally positive compression, the pressing tools must be in a technically perfect condition. In addition, of course, the inspection and maintenance intervals specified by the manufacturer must be observed and used in accordance with the manufacturer's operating instructions.

Expert advice: Find out more!

For the safe installation of sprinkler systems according to VdS CEA 4001 and extinguishing water units according to DIN 14462, the selection, care and maintenance of pressing tools as well as the planning and construction of sprinkler systems, SANHA has designed both for C-steel (SANHA®-Therm and SANHA®Therm DZ) as well as for stainless steel (NiroSan®, NiroSan® Industry) extensive product and assembly information issued. They are available as PDF in the download area at www.sanha.com.

Of course, our competent employees of Technical Application Advice under 02054-925 170 or technik@sanha.com will gladly assist you further when using SANHA press systems in fixed water extinguishing systems or other applications.

SANHA Compatibility tool (WZK)*

- Lower costs, because no new tools needed
- More safety, because no pressing errors or malfunctions due to wrong tool
- Greater flexibility because all tools can be used
- Faster assembly through parallel work

Push & Stay – Sliding guide (P&S)

- Quick and easy pre-assembly and alignment before pressing
- Fitting securely holds on the pipe without slipping

Unbroken leaking (UVUD)

- Connections are visibly leaking before pressing
- More security, because forgotten crimps can be reliably identified

* For more information on the prerequisites, see www.sanha.com/advantages/combipress



Extinguishing water systems „dry“ ...

... do not serve self-help, but are used in case of fire by the fire department and fed the extinguishing water from her. They are to allow fire-fighters, especially in poorly accessible buildings, a time-saving installation of hose lines and the fastest possible firefighting attack.

IMPORTANT!

- Extinguishing water systems „dry“ are from other lines, v.a. of drinking water pipes, separated. Several extinguishing water risers must also be installed separately.
- The press system used must withstand the pressure that occurs during the filling process. This is ensured by a corresponding approval of a test center for stationary water extinguishing systems.
- The risers of the fire extinguishing system are usually min. dimensioned in DN 76. For smaller nominal diameters or cable lengths of more than 100 m, sufficient dimensioning must be demonstrated by calculation.
- In addition, proof is required that the pressure difference between the feed point and the withdrawal point is not more than 1 bar + geodetic pressure difference (at = 300 l / min) at the sampling point.

Extinguishing water systems „wet / dry“...

... are gem. by means of a filling and emptying station. DIN 14463-1 separate extinguishing water pipes „Wet / dry“ with connected extinguishing water outlets.

IMPORTANT!

- When the extinguishing water is taken from the drinking water network, the filling and emptying station must bear the DVGW mark.
- The „wet / dry“ extinguishing water pipe is an extinguishing water pipe which, if required, is supplied with water from the upstream water supply network by remote triggering of a filling and emptying station, by means of a micro switch on the hose connection valve of the extraction point.
- If wall hydrants and fire-extinguishing water pipes are installed in frost-prone areas, systems „wet / dry“ with filling and draining station should be used. DIN 14463-1 be used.



Extinguishing water systems „wet“...

... are permanently wall-mounted hydrant systems under pressure. These are non-drinking water pipes according to DIN 1988-1, which generally do not have sufficient water exchange or are operated with non-drinking water (eg rainwater, water from extinguishing ponds, river water, etc.). Thus, in this system form no direct connection to the drinking water installation may exist.

IMPORTANT!

- The materials of the pipelines must be selected according to DIN 14462. This applies not only to the lines of the extinguishing water system „wet“, but also for the supply to the storage tank, otherwise the effectiveness of the wall hydrant plant would otherwise be no longer in case of fire due to damage to the pipeline.
- The piping dimensioning is not specified for extinguishing water systems „wet“.
- The piping system must always be designed for nominal pressure PN 10, unless higher internal pressures require a higher nominal pressure.
- The permissible flow pressure at the wall hydrant may be max. 8 bar with fully opened jet pipe. The maximum static pressure of the installation must not exceed 12 bar.

sprinklers ...

... are also divided into wet and dry plants. In case of fire, only the sprinklers in the immediate vicinity of the fire („effective area“) trigger. These systems are therefore primarily used for fire suppression in the development phase. Drying systems are used primarily in frost-prone areas. The pipe network is filled from the triggering sprinkler head in an ambient temperature of -5°C with compressed air or with an inert gas.

Certainly at your side

SANHA offers convincing advantages

As a family business, we have been following a simple principle for 50 years: Every pipe and every fitting has to offer customers added value in terms of safety and practical benefits at fair prices. This is our claim and at the same time the best recommendation from our satisfied customers.

As a specialist in piping systems, we offer a unique product range and depth for all common joining techniques and applications from a single source. Proven assembly techniques are just as natural in our program as practical new developments.

And therefore: SANHA. Passt immer.

Your advantages:

1 Always fits

At SANHA, the focus is on the processor, whom we want to make as easy as possible.

For this reason, all SANHA products offer extensive benefits that allow easy and convenient processing.

2 Large assortment

SANHA manufactures all common materials and joining techniques as well as the highest quality dimensions. Assortment, advice, experience from a single source. From the pipeline specialist.

3 Guaranteed security

SANHA has all important approvals and certificates as well as warranty and liability agreements with ZVSHK, BHKS and VDFK. That puts you on the safe side.

4 All-round service

SANHA offers the complete service you really need as a user: from comprehensive field service through product training on site or at the factory, technical advice including a hotline and practical planning service right through to free loaner tools.



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