

Minimax GmbH & Co. KG, Industriestraße 10-12, 23843 Bad Oldesloe,  
Phone: +49 4531 803-0, Contact: <http://www.minimax.de/en/kontakt/>

Translation of the original

*This Product Information is intended for trained experts.*

## 1 Operating mode of sprinklers


The orifice for the extinguishing water is locked by a sealing cone which is held in place by a liquid filled glass bulb. The liquid in the bulb expands with rising temperature. When the heat of the fire reaches the nominal triggering temperature of the glass bulb, it bursts and the extinguishing water is released and sprays extensively over the fire.

## 2 General instructions for handling of sprinklers

- Minimax sprinklers may only be used as a part of the piping of fire extinguishing systems. Any other use is strictly prohibited.
- When using Minimax sprinklers this product information and the information on the packaging must be observed.
- Minimax sprinklers may only be installed by experienced and trained experts which are employed by approved installation companies. The assembly personnel must be able to understand and implement the instructions stated in this product information.
- In general, Minimax sprinklers have to be transported and stored in appropriate packaging until they are finally installed. Furthermore they have to be stored dry and at a temperature, which is 20 °C beneath the nominal triggering temperature at the most.
- Only install new and undamaged Minimax sprinklers. Minimax sprinklers that were dropped, chipped or heavily shaken must not be installed and have to be replaced, even if they show no sign of damage.
- To install Minimax sprinklers only specific tools which fit the specific sprinkler type and officially have been released by Minimax may be used.
- Unless specified otherwise, all Minimax sprinklers have a tapered male thread acc. to DIN EN 10226 with reduced measuring plane and may only be matched with corresponding compatible threads.
- Any modification to a Minimax sprinkler (e.g. painting the sprinkler or laminating or skewing of the sprinkler deflector) impairs the effectiveness of the Minimax sprinkler and will automatically nullify all approvals and terminate the guarantee.
- Minimax sprinkler (brass and chrome-plated) must not be installed in areas where aggressive or corrosive atmospheres are likely to occur. Here stainless steel sprinklers have to be used.
- The threads of the sprinklers and the threads of the bushings or fittings, which are to be screwed into the Minimax sprinkler, have to be clean, dry and free from oil, fat or burrs.

## 3 Sealing of sprinklers with liquid thread sealant

To seal the Minimax sprinklers only so-called thixotropic sealants (e.g. Permabond A1044) have to be used. Such sealants are viscous and generally do not drip or flow off. As an alternative, teflon tape or Loctite 55 can be used as a sealant. Prior to sealing, remove all remains of the packaging .

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## Handling the sealant



When using the sealant observe the corresponding instruction manual. A 360° bead of the sealant shall be put at least onto the second and third pitch of the male thread of the sprinkler. Only apply as much sealant as necessary. Avoid any unnecessary sealant!

Fig. 1: Sprinkler with sealant (360° bead)

### NOTICE

#### Damage due to non-functional sprinklers!

If sealant was applied to functional parts of the sprinkler, in the case of a fire, the sprinkler may not open and the fire might not get extinguished sufficiently.

- Ensure that sealant is only applied to the thread of the sprinkler and not to the functional parts!

#### Screwing in of sprinklers

After the sealant has been applied, the Minimax sprinkler has to be installed immediately. A later adjustment can result in leakages particularly in case of higher ambient temperatures!

#### Setting

Let the sealant set enough before performing any pressure test (observe instruction manual of the sealant). Do not move the pipes during setting to avoid any leakages.

#### Remedy leakages/Replace sprinklers

To remedy leakages, the Minimax sprinklers have to be sealed with enough teflon tape, Loctite 55 or another suitable sealant. Damaged Minimax sprinklers may not be reused but have to be replaced by new sprinklers.

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#### 4 Installation of sprinklers

Prior to the installation of the sprinklers observe the following hints:

- When using installation tools (sprinkler wrench or sprinkler socket), functional parts of the sprinklers, e.g. the glass bulb, may not be touched!  
 Use the installation tools cautiously and correct. An incorrect or askew use of the tool might result into a damage of Minimax sprinklers or in excessive impact on the sealing cone or the glass bulb! Minimax sprinkler that have been impacted in that manner may not work properly or leak, maybe only after the elapse of a longer period of time.
- The Minimax sprinklers should get screwed in four or five thread pitches at least. Otherwise check whether the female and male thread fit correctly!
- An alignment of Minimax sprinklers in counter-clockwise direction can lead to leakages!

To install the sprinkler proceed as follows:

1. ➤ Apply sealant to the Minimax sprinkler.
2. ➤ Position the sprinkler on the female thread of the socket, downspout or fitting and fasten the sprinkler hand-tight with 1 to 2 clockwise turns.

In some circumstances it might be necessary to initially turn the sprinkler counter-clockwise to find the start of the thread.

**NOTICE!**

Do not cant the sprinkler when screwing in!

3. ➤ When the thread has engaged, slide the sprinkler wrench or sprinkler socket sideways over the Minimax sprinkler (see fig. 1 and fig. 3) and place the hexagon part onto the Minimax sprinkler (see fig. 2 and fig. 4).

Installation with sprinkler socket type 21

Installation with sprinkler wrench type 21



Fig. 1



Fig. 2



Fig. 3

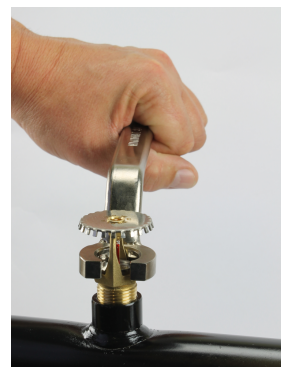


Fig. 4

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4. ➤ Screw in the sprinkler four to five thread pitches.

**NOTICE!**

Do not fasten the sprinkler excessively (max. torque 35 Nm)!

5. ➤ Lift and remove sprinkler socket or sprinkler wrench from the hexagon part sideways from the sprinkler without impacting the glass bulb or other functional parts.

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