

Product information (Translation)

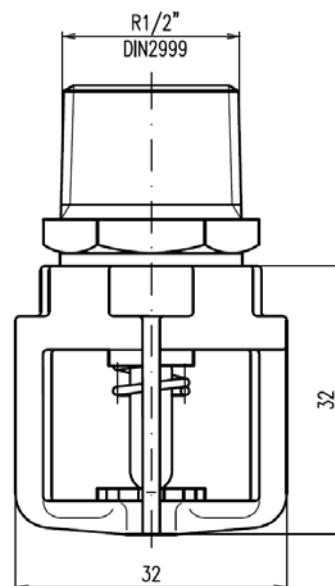
ProCon sprinkler K16 with 1/2" thread

ProCon sprinkler K16 with 1/2" thread

Order-no.: 91 0888

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1 Safety

This product information is exclusively intended for specialized operators with experience in project planning, designing, mounting, installing, commissioning, maintaining and retrofitting fire extinguishing systems especially the component described in this document.

1.1 Duties of the operator

The operator of the fire extinguishing system in which the ProCon sprinkler K16 with 1/2" thread is used has to ensure the following:

- ⇒ Prevention of unauthorized access
- ⇒ All danger to life and health of the operator, or third parties, must be avoided
- ⇒ Compliance with the local/national safety standards
- ⇒ Compliance with the European or national regulations
- ⇒ Ensure knowing and understanding of the product information by all affected people
- ⇒ Prevention of unauthorized use
- ⇒ Use of appropriate protective clothing

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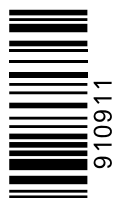
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1.2 Symbols and meanings

Safety concerns are marked with symbols in this manual. The safety concerns are always introduced by signal words that express the extent of the danger.



This combination of symbol and word indicates a directly dangerous situation which leads up to death or fatal injury if it is not avoided.



This combination of symbol and word indicates a potential dangerous situation, which may lead up to death or fatal injury if it is not avoided.



This combination of symbol and word indicates a potential dangerous situation, which may lead up to marginal or slight injury if it is not avoided.



This combination of symbol and word indicates an eventually dangerous situation which may lead to damage of property and environment if it is not avoided.

1.3 Supplemental information



This symbol indicates useful tips and recommendations as well as information for efficient and trouble-free operation.

2 Intended use

The ProCon sprinkler K16 is part of a fire sprinkler extinguishing system.



Danger by abuse or faulty operation!

In case of misapplication or wrong use risk of serious or deadly injury occurs for the owner, the operator or other affected persons. In this case any warranty is voided.

- The ProCon sprinkler K16 with ½" thread must only be used for the intended use as described in chapter 2.
- Modifications or extensions to the ProCon sprinkler K16 with ½" thread are forbidden.
- The ProCon sprinkler K16 with ½" thread must only be fitted and operated in a clean and intact condition.

2.1 Incorrect use

Any other use exceeding or deviating from the scope of intended use is considered incorrect use.

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3 Transport and packing

The ProCon sprinkler K16 with ½" thread has to be transported in a way that prevents against it falling down.

The ProCon sprinkler K16 with ½" thread will be packed adapted to quantity, route and terms of transport. Recycling of the packing after use is recommended.

Immediately upon delivery, the ProCon sprinkler K16 with ½" thread has to be checked for damage. After the check, the ProCon sprinkler K16 with ½" thread has to be repacked into the original package until final installation.

4 Function description

The outlet opening for the fire fighting water is sealed by a sealing cone which is held in position by a glass bulb. An essential part of the seal is the glass bulb, whose liquid expands when the heat of fire acts upon it. If the immediate ambient temperature of a ProCon sprinkler K16 increases above the release temperature the glass bulb will shutter. The pressurized water is therefore released and hits the deflector and is distributed area-wide and evenly onto the fire.

5 Technical data

Description..... : ProCon sprinkler MX-SP1/2x79°C-K16

Coverage area per Sprinkler : max. 6 m²

Distance between sprinklers : 3 m (optimal arrangement 1,5 m to 2 m)

Distance to wall..... : 1,5 m (optimal arrangement 0,5 m to 1 m)

Working pressure..... : 3 bar to 12,5 bar

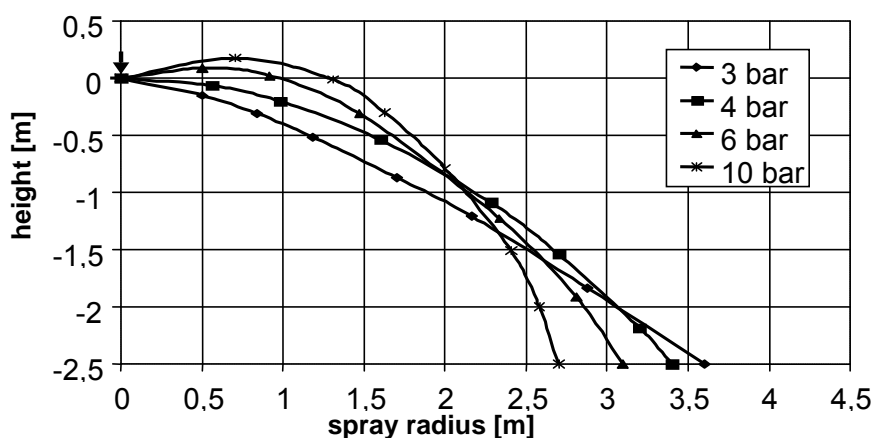
K-factor : 16

Response sensitivity : >80, < 200

Release temperature : 68°C, red glass bulb
: 79°C, yellow glass bulb
: 93°C, green glass bulb
: 141°C, blue glass bulb

Installation position : pendent

Material..... : housing stainless steel
: connecting thread..... brass
: sealing cone brass nickel plated



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6 Installation

WARNING

Malfunction of the ProCon sprinkler K16 through damage!

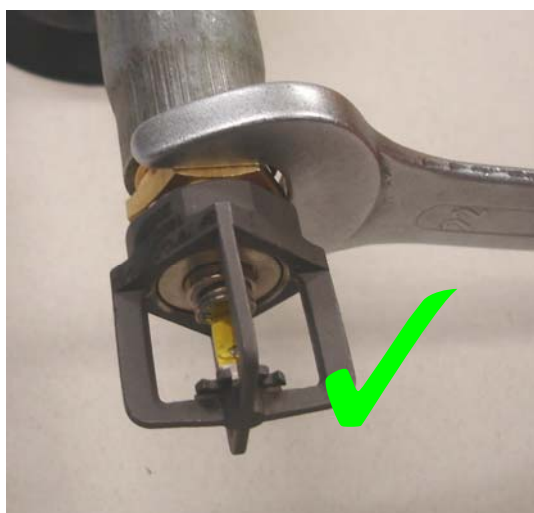
ProCon sprinkler K16 that fell down can have not visible damage (e.g. fissures).

- Never install defective or damaged sprinklers. Never install sprinklers that were dropped, even if they show no sign of damage.
- ProCon sprinkler K16 have to be installed by trained personnel only.

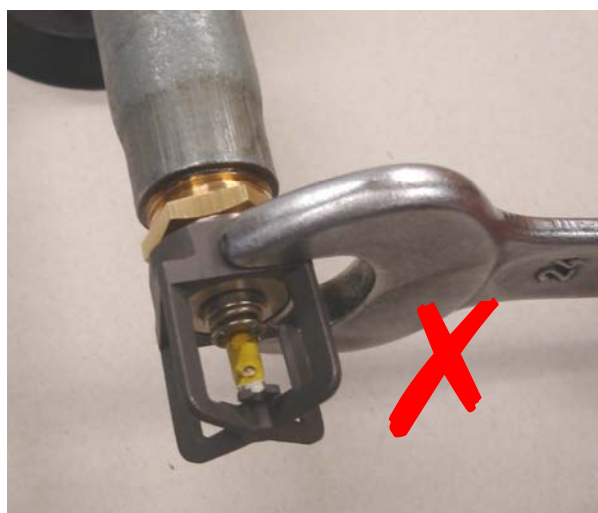
It is recommended to use the following sealing materials:

- | | |
|-----------------------------------|-------------------|
| - Sealing tape 12x0,08 Teflon | order no. 13 6544 |
| - Sealing tape 12x0,1 Teflon DVGW | order no. 84 2673 |
| - Sealing cord Loctite 55 | order no. 84 3269 |
| - Sealant PermaBond A1044 | order no. 84 1557 |

ProCon sprinkler K16 have to be screwed in only at the hexagon (wrench size 22mm, see picture 1). It is not allowed to screw the sprinkler at the sprinkler body (see picture 2). This can result in a damage of the sprinkler



Pic. 1: screwing at the hexagon (AF22)



Pic. 2: screwing at the sprinkler body
PROHIBITED!

NOTICE

A maximum torque of 20 Nm must not be exceeded.

After reaching the maximum torque, sprinkler's clockwise alignment can be made by an additional turn of max. 90°. Do not turn sprinklers anticlockwise

ProCon sprinkler K16 are generally to be installed after installation of the pipe work. When returning sprinklers upon complaint, please attach manufacturer's control-slip.

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7 Maintenance

Maintenance action, to be done at least once a year:

- Visual control of the ProCon sprinkler K16 for external damage.
- Check the colour of the glass bulb. **ProCon sprinkler K16 with colourless glass bulb must be immediate replaced and send back to Minimax.**

NOTICE

Danger of failure by using faulty repaired parts!

- Change damaged ProCon Sprinkler K16 immediately.
- Repairing is strictly forbidden.

8 Storage and decommissioning

8.1 Storage

The ProCon sprinkler K16 must be stored dry and within the specified parameters (see Chapter 5, „Technical Data“). The ProCon sprinkler K16 must be stored in its original packaging. If this is not possible, use a similar package, so the ProCon sprinkler K16 is protected from damage and contamination.

8.2 Decommissioning

- the sprinkler body must be destroyed visibly (e.g. Destroy thread).

NOTICE

Danger of personal injury and property damage from broken glass and leaking fluid from the glass bulb!

With the decommissioning of the ProCon sprinkler K16 the glass bulb can be damaged.

- Work with personal protective equipment and working clothing.

9 Waste management

After the end of use the ProCon Sprinkler K16 should be brought to the national recycling system.

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