

TYPE EXAMINATION CERTIFICATE

This is to certify:**That the Sprinkler and spray heads**with type designation(s)
MX3-CCP, MX3-RP

Issued to

Minimax GmbH & Co. KG
Bad Oldesloe, Schleswig-Holstein, Germany

is found to comply with

DNV GL rules for classification – Ships**DNV GL offshore standards****DNV GL statutory interpretations DNVGL-SI-0364 – SOLAS interpretations****Application :****Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.**Issued at **Hamburg** on **2018-09-26**This Certificate is valid until **2023-09-25**.for **DNV GL**DNV GL local station: **Hamburg**Approval Engineer: **Sven Jahnke**

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 Examination Certificate and not to the approval of equipment/systems installed.



Product description

Undercover Glass Bulb Sprinkler for use in conventional fixed automatic sprinkler systems on board ships or offshore structures.

Sprinkler of type Undercover-MX3-CCP 1/2"x16/32-K80-...°C-Cr Sprinkler of type Undercover-MX3-RP 1/2"x16/32-K80-...°C-Cr	
Nominal release temperature of sprinklers (RTI < 50)	68°C and 93°C
Release temperature of cover plate	58°C and 79°C
K-factor for sprinklers / nozzles	80 l·min ⁻¹ · bar ^{-1/2}
Installation method	Pendent (P)
Min. release pressure	0.35 bar
Max. permissible operating pressure	12.5 bar
Max. coverage area	16 m ²
Material of sprinkler body	Brass, chrome plated
Material of deflector	Stainless steel

Application/Limitation

The concealed or recessed glass-bulb sprinklers may be used on conventional fixed automatic sprinkler systems and offshore structures. The sprinkler can be used without cover also as recessed glass bulb sprinkler type "MX3-RP".

The sprinklers and the associated piping and control equipment are subject to plan approval and inspection in each case.

Type Examination documentation

Tests carried out

Tested in accordance with VdS 2100-25:2008-01, VdS 2344:2014-07
EN 12259-1:1999 + A1:2001 + A2:2004 + A3:2006

Marking of product

The sprinklers/nozzles are to be marked with the name of the manufacturer and type designation.

Periodical assessment

The DNVGL surveyor is to be given permission to perform Periodical Assessments at any time during the validity of this certificate and at least every second year. The arrangement is to be in accordance with the procedure described in the Class Programme DNVGL-CP-0338, Section 4.