

TYPE EXAMINATION CERTIFICATE

This is to certify:

That the Proportioners

with type designation(s)
FireDos

Issued to

FireDos GmbH
Wölfersheim, Germany

is found to comply with

DNV GL rules for classification – Ships

DNV GL rules for classification – Yachts

DNV GL rules for classification – Naval vessels

DNV GL rules for classification – High speed and light craft

DNV GL rules for classification – Inland navigation vessels

DNV GL offshore standards

Application :

Approved for use as admixing apparatus (proportioners) for fire extinguishing additives (e.g. foam concentrates) in fixed fire extinguishing systems.

Issued at **Hamburg** on **2016-11-15**

for **DNV GL**

This Certificate is valid until **2021-11-14**.

DNV GL local station: **Essen**

Approval Engineer: **Michael Kämpf**

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Antje Fleischhauer
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.

Job Id:
Certificate No: **TAF00000GK**

Product description

The FireDos proportioners are designed to mix liquid extinguishing agent additives (e.g. foam concentrates or gel-forming agents) to form a water-based fire extinguishing solution.

The main components of the FireDos proportioners are the water motor, proportioning pump, mechanical coupling, support frame, air bleed and pipework.

The proportioners are manufactured at the premises of FireDos GmbH, Wölfersheim, Germany.

Application/Limitation

Models and Main Parameters of FireDos Proportioners	
Model designations	FD500, FD1000, FD1600, FD2500, FD4000, FD6000, FD8000, FD10000, FD15000, FD20000
Max. operating pressure	16 bar, special versions 25 or 40 bar
Max. water flow	Model related; 500 l/min (FD500) ~ 20000 l/min (FD20000)
Admixing rates, FM approved	1% or 3%
Admixing rates, possible range	Fixed or adjustable rates in the range 0.1% ~ 6%

For installation, operating, testing and maintenance, the manufacturer's instruction indicated in the FireDos Instruction Manual shall be observed.

Type Examination documentation

Tests carried out

Tested according to FM Approval Standards 5130, 5135 and 5137.

Marking of product

The products are to be marked with the name of the manufacturer and type designation.

Certificate Retention Survey

The DNVGL's 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.