DNV·GL

Certificate No:
MEDB00002MW

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom of Norway.

This is to certify:

That the Fire dampers

with type designation(s)
DNP-STAN-PD60-01

Issued to
DNP Co., Ltd.
Miryang-si Gyeongsangnam-do, Republic of Korea

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2017/306,**
item No. MED/3.22. SOLAS 74 as amended, Regulation II-2/9 and IMO 2010 FTP Code

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2022-07-12**.

Issued at **Høvik** on **2017-07-13**

DNV GL local station:
Gimhae Station

Approval Engineer:
Fryderyk Hoga

Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
Head of Notified Body

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005.

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.
This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.
Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

NORWEGIAN ACCREDITATION PROD 019

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Product description

"DNP-STAN-PD60-01"
is a single- or multi-bladed fire damper consisting of a 3 mm stainless steel casing and 1.5 mm double skinned, insulated blade(s). The damper casing is 370 mm deep. Actuation is done manually or automatically by thermal triggering device (bulb) combined with a pneumatic spring return actuator.

The maximum size of a single bladed fire damper is 1400 mm x 400 mm (W x H). Maximum blade size is 1400 mm x 400 mm (W x H). For single bladed fire dampers with blades higher than 400 mm (H), a transom is to be fitted between each blade. The transom is a stiffened plate insulated on both sides with 50 mm, 120 kg/m^3 mineral wool from KCC Corp.

The maximum size of a multiblade fire damper is 1400 mm x 1350 mm (W x H). Maximum number of blades are 4. Maximum blade size is 650 mm x 400 mm (W x H). For multiblade dampers wider than 650 mm (W), a mullion is to be fitted. The mullion is a stiffened plate insulated on both sides with 50 mm, 120 kg/m^3 mineral wool from KCC Corp.

The damper casing flange is either welded or bolted to the ventilation sleeve/duct*.

For further details see test report stated under Type Examination documentation, below.

Application/Limitation

Approved for use in ventilation ducts penetrating bulkheads and decks of class A-60.

For all A-class divisions, including A-0, the damper casing and duct sleeve are to be A-60 insulated on the damper side. For A-15, A-30 and A-60 divisions the ducts are to be additionally insulated by the extension of the insulation at the same rating as the the division for at least 450 mm.

The maximum size of combination of fire dampers is 1400 mm x 1900 mm (W x H).

*Steel thickness of damper casing to be equal to or greater than thickness of duct/sleeve required by the rules if the damper casing is part of the duct/sleeve.

Actuator to be used: Air Torque model AT401 or AT25IU (**)
** Actuators of same make but with different size as mentioned or same operation mechanism and quality above may also be used, provided that they have sufficient torque, similar installation arrangement and equivalent fire technical and functional properties.

The fire damper is to be fitted with open/close indication, be assessable and capable of opearation on both sides of it's division as required by relevant rules and regulations (e.g. SOLAS II-2/9.7).

Each product is to be supplied with its manual for installation, use and maintenance.

Type Examination documentation

Test reports No. KOMERI-0402-15T1649 dated 10 August 2015 and KOMERI-0402-15T1003 dated 29 July 2015 both from Korea Marine Equipment Research Institute, Busan, Korea.

Drawing No. DNP-STAN-FD-01-1 rev.1 (6 pages) dated 15 April 2015 from manufacturer.

Tests carried out

Tested according to IMO 2010 FTP Code part 3.

Marking of product

The product is to be marked with name and address of manufacturer, type designation, fire technical rating, the MED Mark of Conformity and USCG Approval Number if applicable (see first page).