

# TYPE APPROVAL CERTIFICATE

**This is to certify:****That the Fire Damper**with type designation(s)  
**BR**

Issued to

**Baas Component AS**  
**LILLESTRØM, Norway**is found to comply with  
**DNV GL offshore standards****Application :****The damper is approved for use in ducts penetrating H-0 class bulkheads or decks.**Issued at **Høvik** on **2020-11-02**for **DNV GL**This Certificate is valid until **2025-11-01**.DNV GL local station: **Oslo Maritime and CAP**Approval Engineer: **Tessa Biever**

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**Mårten Schei-Nilsson**  
**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 Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Job Id: **262.1-004659-6**  
Certificate No: **TAF000004N**  
Revision No: **1**

## Product description

"BR",

is a spring operated single bladed circular fire damper with manual and/or automatic pneumatic/electric release. Fire damper casing is made of 3 mm thick steel and fire damper blade is made of 4 mm thick steel.

The damper blade edges may be fitted with 5 x 20 mm flame-retardant neoprene packing.

For further details, see drawings listed under Type Examination documentation.

## Application/Limitation

The fire damper is approved for installation in H-class steel bulkheads. Other applications are subject to case-by-case approval.

The arrangement of the fire damper and necessary insulation of damper frame and ducting in the vicinity of the partition is subject to approval in each case.

Max. blade size: Ø400 mm  
Max. number of blades: 1

The fire dampers are to be operated automatically and/or manually (when relevant).

The damper shall be capable of being closed manually from both sides of the bulkhead/deck.

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.

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

## Type Approval documentation

Certification in accordance with Class Program DNVGL-CP-0338, September 2018.

Test report No. 103030.05 A dated 17 September 2003 from SINTEF, Trondheim, Norway.

Test report No. 103030.05 B dated 17 September 2003 from SINTEF, Trondheim, Norway.

Statement No. 103201.88 dated 8 September 2004 from SINTEF, Trondheim, Norway

Drawing No. T3000-12 dated 2 April 1990 from manufacturer.

## Tests carried out

Tested according to IMO FTP Code Part 3 (IMO Res. A.754(18)) with furnace temperature following the hydrocarbon curve according to ISO 834-3.

## Marking of product

The product is to be marked with name of manufacturer, type designation and fire-technical rating.

## Periodical assessment

DNV GL'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 procedure described in Class Programme DNVGL-CP-0338, Section 4.