DNV·GL

Certificate No:
TAF000011Y

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Class A and B Penetration

with type designation(s)
SBP

Issued to
Schwingungstechnik-Broneske GmbH
Quickborn, Schleswig-Holstein, Germany

is found to comply with
DNV GL rules for classification – Ships
DNV GL class programme DNVGL-CP-0165 – Type approval – Cable and pipe penetrations

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Issued at **Hamburg** on **2019-03-18**
This Certificate is valid until **2024-03-17**.
DNV GL local station: **Hamburg**

Approval Engineer: **Hagen Markus**

for **DNV GL**

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

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Product description

The pipe penetration of type SBP consist of two elastomeric resilient gaskets compressed by two steel flanges with screws. Top flange is welded to the steel pipe where lower flange is welded to the division penetrated.

Components	**Material designation**
Screws, washer	Mild steel galvanized
Bushing	Heat resistant rubber/ mild galvanized steel
Resilient Gasket	Silicon rubber
Flange welded to deck of bulkhead	Mild steel painted (red primer), stainless steel
	Stainless steel
	Aluminium

Application/Limitation

The SBP pipe penetration is mainly designed for penetration of exhaust gas pipes penetrating water tight decks or bulkheads. On principal, the penetration may be used for any steel pipe penetration considering the temperature range applicable to the materials of the lower flange welded to the deck or bulkhead as well as resilient gasket.

Pipe size range	**DN 32 up to DN1500**
Pipe material	Carbon Steel
Temperature range (acc. to material of lower flange)	Mild steel: -10°C to +230°C[1] Stainless steel and aluminium: -55°C up to +230°C[1]
Water tightness	Up to 2bar
Gas tightness	Not tested

Note

[1] May be used for exhaust gas temperature up to 500°C. Reference is made to SB Broneske "Fixed Watertight Penetration – Assembly Instructions Manual"

The penetration is not approved through fire divisions and installation on tank boundaries.

Installation

For installation and maintenance, the instruction "Fixed Watertight Penetration – Assembly Instruction Manual", dated 2017-07-20 is to be observed.

Each product shall be supplied with its manual for installation and maintenance.

Penetrations through structural divisions should not impair the structural strength of the division being penetrated.

Type Approval documentation

Tests carried out

Hydrostatic test.

Marking of product

The product is to be marked by a name plate with content at least:

Scope	Example
Name of the manufacturer, short sign	SB BRONESKE
Type	SBP
Size DN	500
Water pressure rating	2bar
Date of manufacture	2018-10-25
Limitation	Not approved through fire divisions and installation on tank boundaries

Periodical assessment

A condition for retention of the type approval certificate in its validity period is that periodical assessments are successfully carried out. The objective of the periodical assessment is to verify that the conditions for the type approval have not been altered.
For further information refer to DNVGL Class Programme CP-0338.

It is further to be noted that the Society shall be informed in case of:

- Modifications to the product which are liable to affect its characteristics and functions, as originally specified and tested;
- Shifting of the production site and additional production site.

End of certificate