

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Bulkhead/Deck Penetration**with type designation(s)
YB-MGM/F WP

Issued to

Shanghai Yibo Shipping Co., Ltd
Shanghai, Chinais found to comply with
DNV GL rules for classification – Ships and offshore units**Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**Issued at **Høvik** on **2017-05-22**This Certificate is valid until **2022-05-21**.DNV GL local station: **Shanghai CMC**for **DNV GL**Approval Engineer: **Ivar Bull**

Andreas Kristoffersen
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.



Product description

YB-MGM/F sealing system with flex-diameter modules.

Consisting of YB-MGM type F steel frames in sizes 1-8 and combinations thereof welded to a steel section.

The frame is filled with YB-MGM/F flex-diameter modules in sizes 15mm, 20mm, 30mm, 40mm, 60mm, 90mm, or 120mm. Solid compensation modules available.

Various different sized modules may be stacked onto each other up to and including a maximum packing space height of 60mm.

Assembled with YJK/F square keeper blocks and separating boards.

Application/Limitation

Cable and pipe (steel, copper) penetration approved for water- and gas tightness in steel bulkheads or decks, limited to a pressure of:

- 2 Bar water tightness
- 1,33 Bar gas tightness

When used in High Speed and Light Crafts the penetrations are subject for approval in each case.

The penetration system is not to be used for penetrating boundaries of tanks.

Each product is to be installed with its manual for installation and use.

Type Approval documentation

Tests carried out

Marking of product

The product or packing is to be marked with name of manufacturer and type designation.

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine Tests (RT) checked (if not available tests according to RT shall be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE