DNV·GL

Certificate No:
TAF00000XU

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Jet Fire Protection

with type designation(s)
ANCLOZ Jacket System - valves and flanges

Issued to
Ancloz Engineering Pte Ltd
Singapore, Singapore

is found to comply with
DNV GL offshore standards

Application :

Approved for use as a jet fire protection system of valves and flanges.

Issued at **Høvik** on **2018-04-17**
This Certificate is valid until **2019-06-22**.
DNV GL local station: **Manchester**

Approval Engineer: **Helge Bjørnarå**

for **DNV GL**

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.

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Product description

"ANCLOZ Jacket System" - valves and flanges
PFP Jacket System for protection of valves, flanges and actuators composed of a multi-layer construction built up as described in drawing BTA 005/14 and BTA 004/14.

Total thickness of the insulation system is approximately 57 mm.

The PFP Jacket System shape may be circular or rectangular.

Fastening methods for rectangular shapes:
Joints incorporate overlapping jacket layers secured by stainless steel band belts and bucklets each 200 mm along the joint. The overlapped joint may also be secured with stainless steel lacing and steel hooks.

Fastening methods for circular shapes:
The jacket is fastened to the circular section with stainless steel bands each 150 mm along the pipe. A fabric layer is fitted over the circumferential joint and fastened with two steel bands. In the longitudinal joint, the outer layer of the multi-layer construction has a 75 mm long overlap fastened with velcro.

The product is manufactured at the premises of PT Besttech, Batam, Indonesia.

Application/Limitation

Approved for use as jet fire protection of valves and flanges with maximum outer diameter 500 mm, of following jet fire rating (Type of fire/Type of application/Critical temperature rise (°C)/Period of resistance (minutes)):

Approved for use as jet fire protection of valves and flanges with outer diameter larger than 500 mm, of following jet fire rating (Type of fire/Type of application/Critical temperature rise (°C)/Period of resistance (minutes)):

The effect of unprotected valve spindles penetrating the protection box is not accounted for and must be evaluated for each case.

Any project specific design solutions arrived at on basis of this certificate are to be further validated by project specific approvals carried out by the appointed verifying authority for each project in each case at the detail engineering stage.

The approval refers only to the jet fire resistance properties of the system.

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

Type Approval documentation

Certification in accordance with Class Programme DNVGL-CP-0338, October 2017.

Tests carried out

Tested according to ISO 22899-1:2007.

Marking of product

The product or packing 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.