



CERTIFICATE NUMBER
17-LD1664906-PDA

DATE
24 Oct 2017

ABS TECHNICAL OFFICE
London Engineering Department

CERTIFICATE OF DESIGN ASSESSMENT

This is to certify that a representative of this Bureau did, at the request of
FLANGEGUARDS LTD

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: **Shielding, oil from source of ignition**

Model: **FG-STEEL safety shield, FG-PTFE safety shield**

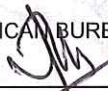
This Product Design Assessment (PDA) Certificate 17-LD1664906-PDA, dated 24/Oct/2017 remains valid until 23/Oct/2022 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

AMERICAN BUREAU OF SHIPPING


Mohammed K.M. Abbas
Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by the terms and conditions as contained in ABS Rules 1-1-A/3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

FLANGEGUARDS LTD
UNIT 5 CRANES CLOSE
BASILDON
ESSEX
United Kingdom SS14 3JB
Telephone: 01268244369
Fax: 01268 533144
Email: sales@flangeguards.com
Web: www.flangeguards.com

Tier: 2 - PDA Issued

Product: Shielding, oil from source of ignition
Model: FG-STEEL safety shield, FG-PTFE safety shield
Intended Service:
Flange shields for Marine and Offshore applications

Description:
Metallic and PTFE shields, externally wrapped around flanged connections acting as a spray shield / joint leak detector.

Rating:
Materials: PTFE, 316 Steel

PTFE Shield diameters: 1/2" - 24"
PTFE Shield pressure rating: DIN PN6- PN100
PTFE Shield max. temperature: 232 Degrees Celsius

316 Steel Shield diameters: 1/2" - 24"
316 Steel Shield pressure rating: DIN PN6 - PN100
316 Steel Shield max. temperature: 500 Degrees Celsius

Service Restriction:
Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Comments:
The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

Notes/Drawing/Documentation:
Drawing No. FG PTFE Data Sheet, DATA SHEET - PTFE FLANGE GUARD
Drawing No. FG Stainless steel data sheet, DATA SHEET - 316st/st FLANGE GUARD
Drawing No. summary for ABS

Terms of Validity:
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STANDARDS

FLANGEGUARDS LTD
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ABS Rules:

ABS Rules for Building and Classing Steel Vessels (2017): 1-1-4/7.7, 1-1-A3, A4, 4-6-4/13.3.3, 4-6-5/3.3.6, 4-6-4/15.1.5

ABS Rules for Building and Classing Mobile Offshore Drilling Units (2017): 1-1-4/9.7, 1-1-A2, 1-1-A3, 4-2-5/7.9

National:

NA

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA