Certificate Number	21-4868396
Effective Date	29-JUL-2021
Expiration Date	28-JUL-2026
ABS Port Office	Piraeus, Greece
Website	www.raphael-valves.com

CERTIFICATE OF

Manufacturing Assessment

This is to certify that the Undersigned evaluated the manufacturing quality procedures of

RAPHAEL VALVES INDUSTRIES LTD

located at

NORTHERN INDUSTRIAL ZONE, OR OKIVA, PO BOX 555, 30600 ISRAEL

The quality monitoring systems during production were verified to reflect the specific surveys, required by the ABS Rules, Guides, the associated Specifications and Standards for the manufacture of

FIRE PROTECTION CONTROL VALVE, DELUGE VALVE

This manufacturer presented a sample or specimen of the product, representative of the "type" approved for the purpose of verifying that the "type" has been manufactured in conformance with the Manufacturer's Product Design Assessment(s).

This Certificate is manufacturer and location specific and is subject to annual audits. Consult the ABS Type Approval website to confirm the continued validity of this certificate and the status of products.

The ABS Office issuing the certificate is to be kept updated with changes to the production methods, quality control systems, products and models and any changes made.

P.P.

Costas Xidis, Surveyor

Annual Endorsement

First	Second	Third	Fourth
Surveyor			
WO and Date			

29 July 2021

RAPHAEL VALVES INDUSTRIES LTD
NORTHERN INDUSTRIAL ZONE OR AKIVA PO BOX 555, 30600 ISRAEL
+972 (0)4 626-3555 ext. 275
oinbar@talis-group.com
www.raphael-valves.com

Attention: Mr. Ofir Inbar

This is in reference to your request of Manufacturing Assessment Audit on 20 July 2021. The review of your Quality Assurance System submittals and a Manufacturing Assessment audit of your facility have been satisfactorily completed.

We are therefore pleased to issue a Certificate of Manufacturing Assessment No.**21-4868396**, valid until **28 July 2026**. The product category of the products that have valid Certificate of Product Design Assessment (PDA) and PDA-Duplicates for will be shown as "**Type Approved**." An electronic copy of Confirmation of Product Type Approval will be downloadable from the ABS Type Approval Database.

A Confirmation of Product Type Approval represents that the product design meets the ABS Rules or Guides, statutory, industrial or manufacturer's standards described in the PDA and that the manufacturer has established a systematic quality monitoring system sufficient to show its capacity to consistently manufacture a product which meets the designated standards.

The MA Certificate will remain valid for five years, **subject to annual audits or surveillance audits and no changes to the scope and conditions of approval**. The audit window of MA audits is as follows:

- MA annual audits – 90 days before or after the anniversary date
- MA renewal audits – 90 days before or after the expiry date

When an audit is more than three months overdue, the MA will be automatically archived and product category will be reverted to "Design Assessed."

If a new MA Certificate is issued with the same expiry date due to product/company name/company address changes during the original MA Certificate's validity, the anniversary date of the original MA is to be used as reference.

Each MA Certificate is location specific and non-transferrable.

Your company is eligible to use the ABS "Type Approved Product" logo for marketing purpose. The art work may be obtained by contacting ABS Programs at absta-programs@eagle.org.

Please recognize that **Product Type Approval will not waive Unit Certification** or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. Such

requirements can be found in the "Service Restriction" section in each PDA Certificate. Should ABS Unit Certification is required, please contact the responsible ABS Survey Office to witness any required surveys and tests.

We also remind you of the implementation of SOLAS Regulation II-1/3-5 and MSC.1/Circ.1379 which summarize as "From 1 January 2011, for all ships, new installation of materials which contain asbestos shall be prohibited. In the context of this regulation, new installation of materials containing asbestos means any new physical installation on board. Any material purchased prior to 1 January 2011 being kept in the ship's store or in the shipyard for a ship under construction, should not be permitted to be installed after 1 January 2011 as a working part." We advise you that any shipments you make also contain a **Declaration of Absence of Asbestos**.

If at any time you wish to change the information published in the ABS Type Approval Database, please email ABS Programs at absta-programs@eagle.org

The Manufacturer shall notify ABS in writing of any product non-conformity resulting in the issuance of a Safety/Service Alert and Bulletin, including root causes and impact to the industry or vessels.

Unless the change is submitted to ABS for a new evaluation and audit, any of the following events will cause immediate suspension of the Certificate of PDA and/or MA.

a) Redesign of the product or products covered by a Certificate of PDA or PDA-DUP;
b) Change in production methods;
c) Change in management organization or Quality Assurance System;
d) Change in frequency or curriculum for personnel training;
e) Refusing access to ABS personnel for periodic or annual audits;
f) Failure to correct a non-compliance and deficiencies during an audit or in service;
g) Failure to inform ABS of the latest Safety/Service Alert and/or Bulletin and prove the corrective measures are taken;
h) Where willful misrepresentations or omissions are ascertained;
i) Failure to pay ABS fees.

We look forward to working with you and encourage you to contact the undersigned for any questions of the ABS Type Approval Program.

Sincerely Yours,

P.P.

C. Xidis
ABS Piraeus Port

20 July 2021

RAPHAEL VALVES INDUSTRIES LTD
NORTHERN INDUSTRIAL ZONE OR AKIVA
PO BOX 555, 30600
ISRAEL

Attention: Mr. Ofir Inbar

This is in reply to your message on 20 July 2021 regarding **Certificate of Manufacturing Assessment** (MA). Manufacturing Assessment consists of:

- Management Assessment – Evaluate the quality assurance and quality control system of the manufacturing facilities in order to verify your capability to meet your specified level of product quality consistently and satisfy the requirements of the Rules.

- Production Assessment – Evaluate the product specific manufacturing process in order to verify that manufacture and inspection of the products are established to provide your specified level of quality control and satisfy the requirements of the Rules.

Please have the following documents submitted to the undersigned for review prior to or during audit. If this is an Annual / Semi-Annual / Renewal Audit, only the documents that have been changed since the last audit need to be submitted.

a) Valid ISO 9001 Certification. Equivalency from a recognized certification body will be determined on a case by case basis
b) Business registration license
c) Recent internal audits, management review and external audit reports
d) Updated non-conformance log, check list and reports
e) Records of customer claims and corrective actions
f) Copies of valid Product Design Assessment (PDA) or PDA-Duplicate Certificates
g) Supplier's Declaration of Conformity as per Section 7 of Resolution MEPC 269(68) 2015 Guidelines for the Development of the Inventory of Hazardous Materials
h) Outline of the company's organization and management structure
i) Manufacturing process flow chart
j) A Quality Manual and/or documented procedures covering minimum requirements as follows:
    i. Code of Conduct
    ii. Maintenance and calibration of equipment
    iii. Training programs for operators, technicians and inspectors
    iv. Supervision and verification of compliance with the approved operational procedures
    v. Recording and reporting of information
    vi. Quality management of subsidiaries, agents and subcontractors
    vii. Job preparation and safety instructions

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Tel: 1-281-877-6000 | Email: absta-programs@eagle.org | www.eagle.org

viii. Periodic review of work process procedures, complaints, and corrective actions
ix. Maintenance and control of documents

k) Track records of current production
l) List of operators, technicians, and inspectors' training, experience and qualification
m) Contract between manufacturer and any subcontractors, as applicable
n) Evidence of approval or acceptance by other bodies
o) Activities that may present a conflict of interest
p) For PSPC coating manufacturers, IR analysis and Declaration of Conformity

ABS will issue a Certificate of MA upon satisfactory completion of the document review and audit. The Certificate will state the covered products and will be valid for five (5) years, subject to annual audits. The company with both a valid PDA/PDA-DUP Certificate and a MA Certificate is eligible for Confirmation of Product Type Approval and it is downloadable from the ABS Type Approval Database.

The window of MA and Product Quality Assurance (PQA) audits:

- MA annual/renewal audits – 90 days prior to or after the anniversary date
- PQA semi-annual/annual/renewal audits – 30 days prior to or after the anniversary date

Secondary manufacturers who have PDA-DUP Certificates must hold a valid MA Certificate and obtain the certificate within 90 days of PDA-DUP issuance.

Type Approval status does not waive Rule-required witness testing. If your products are eligible for Tier 4 as allowed by Part 4 of ABS *Steel Vessel Rules*, you may be eligible for Certificate of PQA with Surveyor's recommendation. PQA Certificate allows manufacturers to conduct Rule-required surveys and tests without ABS Surveyor attendance.

Unless the change is submitted to ABS for a new evaluation and audit, any of the following events will cause immediate suspension of the Certificate of PDA and MA.

a) Redesign of the product or products covered by a Certificate of PDA or PDA-DUP;
b) Change in production methods;
c) Change in management organization or Quality Assurance System;
d) Refusing access to ABS personnel for periodic or annual audits;
e) Failure to correct a non-compliance and deficiencies during an audit or in service;
f) Failure to inform ABS of the latest Safety/Service Alert and/or Bulletin and failure to take corrective measures;
g) Where willful misrepresentations or omissions are ascertained;
h) Failure to pay ABS fees.

I trust this information is helpful and I look forward to working with you in the approval of your company.

Sincerely yours,

C. Xidis
Senior Principal Surveyor
ABS Piraeus Port

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