



Confirmation of Product Type Approval

Company Name: THE HELLAN STRAINER COMPANY

Address: 3249 EAST 80TH STREET OH 44104 United States

Product: Strainer

Model(s): DH, QH, DA, QA, SA, SH, TSH, TSA, HH, HA

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	22-2221700-PDA	18-APR-2022	17-APR-2027
Manufacturing Assessment (MA)	21-4942778	14-SEP-2021	13-OCT-2026
Product Quality Assurance (PQA)	NA	NA	NA

Tier

3 - Type Approved, unit certification not required

Intended Service

Marine and Offshore Applications - Including fuel oil, lube oil, hydraulic oil, fresh water, sea water systems for marine vessels and Floating Processing Storage and Offloading Vessels.

Description

Strainers, Manual and Motorized Self Cleaning in the following Styles and Pipe Sizes

Model SH/SA: 1-1/2", 2", 2-1/2", 3"

Model DH/DA: 3", 4", 6", 8", 10", 12"

Model QH/QA: 14", 16"

Model TSH/TSA : 1-1/2", 2", 2-1/2", 3"

Model HH/ HA: 20"

Ratings

Ratings depend on style, material, connection and temperature. See Attachment.

Service Restrictions

1. Unit certification is required for units over 150 psi or 10" for installation aboard facilities on offshore installations (provided Topside is class item) as per 3-2/Table 2 of ABS Facility Rules.

2. Unit Certification is required for units over 6" in diameter installed onboard the vessel and falling within the requirements of 4-4-1/Table 1 of the Marine Vessel Rules.

3. If the manufacturer or purchaser's request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.
4. Cast iron filters are permitted for Class III systems only and where permitted by the Marine Vessels Rules.
5. Piping containing flammable fluids is to be constructed of steel or other materials approved by ABS as per 4-6-2/3.5 of the Marine Vessels Rules.

Comments

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. When they are required to be opened for cleaning during operation, they are to be fitted with means of depressurizing before being opened and venting before being put into operation. For this purpose, valves and cocks for drainage and venting are to be provided as per 4-6-4/13.7.5 and 4-6-4/15.5.3 of the Marine Vessels Rules.
3. The strainers' body is to bear permanent identification, such as manufacturer's name or trademark, standard of compliance, material identity, pressure rating, etc., as required by the standard of compliance, as per 4-6-1/7.1.4 & Table 2 of the Marine Vessel Rules.
4. The installation of the strainers is to comply with the applicable requirements in 4-6-5/3.3.4, 4-6-5/3.5.4, 4-6-5/5.3.6, 4-6-5/5.5.2 and 4-6-5/7.7.2 of the Marine Vessel Rules as applicable.

Notes, Drawings and Documentation

Documents from previous review from Task T2005997:

Drawing No. 16 inch Q 13176f-2 R0, Finite Element Analysis Report - VIII-1_DWG 16Q, Revision: -, Pages: -

Drawing No. 20 inch HH 150#, Finite Element Analysis Report - VIII-1_Dwg 200H, Revision: -, Pages: -

Drawing No. ABS 200 HH Rev 1 June 6 2020, Design Analysis for 6 Basket Strainers Manual and Automatic, Revision: -, Pages: -

Drawing No. Hellan FISysCat'17web, Hellan Fluid Strainers Catalog revised 10/17 3M AA/WP, Revision: -, Pages: -

Drawing No. Q PED Design Report R2 Nov 28 2016, Q PED Design Report Evaluation PER Pressure Equipment Directive 2014_68_EU, Revision: -, Pages: -

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 17/Apr/2027 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

ABS Rules

Rules for Conditions of Classification, Part 1 - 2020 Rules for Building and Classing Marine Vessels 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2022 Marine Vessel Rules: 4-6-1/7.1.2, 7.1.3, 4-6-2/3.1.3, 4-6-2/5.15, 4-6-4/13.7.5;

Rules for Conditions of Classification, Part 1 - 2020 Rules for Building and Classing Mobile Offshore Units 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

2022 Mobile Offshore Unit Rules: 4-2-2/1.3

International Standards

NA

EU-MED Standards

NA

National Standards

2020 ASME B16.1 Gray Iron Pipe and Flanges;

2016 ASME B16.24 Cast Copper Alloy Flanges and Fittings.

2020 ASME B16.5 Pipe Flanges and Pipe Fittings.

2021 ASME Boiler and Pressure Vessel Code.

Government Standards

MIL-PRF-20042G. FLANGES, PIPE, BRONZE (SILVER BRAZING) May 2020.

Other Standards

NA



A handwritten signature in black ink, appearing to read 'Greg W.'.

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 23-May-2022 9:22

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all

cases, be addressed to ABS.