



CERTIFICATE NUMBER 20-2021150-PDA
EFFECTIVE DATE 13-Aug-2020
EXPIRY DATE 12-Aug-2025
ABS TECHNICAL OFFICE London Engineering Department

CERTIFICATE OF Product Design Assessment

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

MESON AB

located at

KULLSGARDVAEGEN 27, LAHOLM, Sweden, SE 31234

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 Valve

Model Remote Controlled Quick Closing Valve, Straight/ Angle type; Bellow Sealed, Remote Controlled Quick Closing Valve, Straight/ Angle type; Globe valve, Straight/ Angle type; Bellow S...

This Product Design Assessment (PDA) Certificate remains valid until 12/Aug/2025 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.

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 ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

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Tier: 2 - PDA Issued

Product: Valve
Model: Remote Controlled Quick Closing Valve, Straight/ Angle type; Bellow Sealed, Remote Controlled Quick Closing Valve, Straight/ Angle type; Globe valve, Straight/ Angle type; Bellow Sealed, Globe valve, Straight/ Angle type; Self Closing valve, Straight/ Angle type

Intended Service:

Fuel and Thermal Oil Emergency Shut Off Valves; fuel oil, lubricating oil and hydraulic oil systems for Marine and Offshore Applications.

Description:

Quick Closing Valve & Bellow Sealed Quick Closing Valve: Flanged, straight/ angle, spring loaded quick closing valves with hydraulic/ pneumatic and/or mechanical release mechanism with built in fire release melting ring, including bellow sealed quick closing valve for thermal oil applications. Valve body material nodular cast iron Grade GGG 40(or equivalent). Optionally, valves are supplied with body material Cast Steel Grade GS-C25, Gunmetal Grade Rg5 or Stainless Steel AISI 316 (or equivalent). Disc, stem, seat ring - material EN 10883-3-1.4301 (AISI 304). The valve is quick closed by a remote hydraulic/ pneumatic signal or by turning the lever of the release arrangement by hand or a wire arrangement.

Self Closing Valve, Globe Valve & Bellow Sealed Globe Valve: Flanged, straight/ angle valves. Valve body material nodular cast iron Grade GGG 40; Disc, stem, seat ring - AISI 304;

Rating:

Quick Closing Valve, Bellow Sealed Quick Closing Valve, Self Closing Valve, Globe Valve & Bellow Sealed Globe Valve:

DN 15 - DN 150, nominal pressure PN 16;
DN 200 - DN 250, nominal pressure PN 10

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:

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. As per section 4-2-5/3.9.2 of ABS Mobile Offshore Unit , the source of power to operate quick closing valves is to be from outside of the space in which these valves are located, except for a pneumatically operated system the air supply may be from a source located within the same space as the valves provided, an air receiver is located outside the space with sufficient capacity to close all connected valves twice and fitted with a low pressure alarm and a non return valve adjacent to the air receiver in the air supply line.
3. As per section 4-6-7/3.5.5 of ABS Marine Vessel Rules, each release cylinder is to be provided with an ABS certificate in accordance with ABS Rules.
4. All valves are to bear permanent identification, such as the manufacturer's name or trademark, material identify pressure rating, etc. at which the manufacturer guarantees the valves to meet the requirements of the manufacturer's standards. Such markings may be cast or forged integral with, stamped on, or securely affixed by nameplate on the component, and are to serve as a permanent means of identification of the component throughout its service life in accordance with 4-6-1/7.1.3 and 4-6-1/7.1.4 of Marine Vessels Rules.
5. As per section 4-6-2/5.11.3(d) of ABS Marine Vessel Rules, all valves of classes I and II piping systems having nominal diameters exceeding 50 mm are to have flanged or welded ends.

Notes/Drawing/Documentation:

- 1) Drawing 33073 Revision 0 – Bellow Sealed QCV

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Tier: 2 - PDA Issued

- 2) Drawing 33074 Revision 0 – Quick Closing Valve
- 3) Drawing 33075 Revision 0, - Bellow Sealed Globe Valve
- 4) Drawing 33076 Revision 0 - Self Closing Valve
- 5) Drawing 33092 Revision 0 – Globe Valve
- 6) Drawing 76103 Revision D - Release Cylinder

Terms of Validity:

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STANDARDS

ABS Rules:

2020 ABS Marine Vessel Rules 1-1-4/7.7, 4-6-2/5.11, 4-6-4/ 13.5.3, 4-6-4/13.7.2, 4-6-7/3.5.3,4-6-7/3.5.5.
2020 ABS Rules for Mobile Offshore Units 1-1-4/9.7, 1-1-A2, 1-1-A3, 4-2-2/9, 4-2-5/1.3, 4-2-5/3.9

National:

NA

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA