



Confirmation of Product Type Approval

Company Name: MESON (CHANGZHOU) FLOW CONTROL SYSTEM CO., LTD.

Address: BUILDING 1, AREA A, HUA LUOGENG HIGH-TECH ZONE, INTERNATIONAL COOPERATION INDUSTRIAL PARK, KEJIAO ROAD 456, JINTAN DISTRICT CHANGZHOU China

Product: Valve

Model(s): 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

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	25-0252393-PDA-DUP	27-MAY-2025	26-MAY-2030
Manufacturing Assessment (MA)	25-7204863	10-SEP-2025	25-AUG-2030
Product Quality Assurance (PQA)	NA	NA	NA

Tier

3 - Type Approved, unit certification not required

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) or EN 1. 4401 (AISI 316). 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 or EN 1. 4401 (AISI 316);

Ratings

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 Restrictions

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 4-6-4/13.5.3(b) of ABS Marine Vessel rules and 4-2-5/3.7.2 of ABS Offshore Unit Rules, 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 ABS 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, Drawings and Documentation

Drawing No: Burst test report 2008-11-06, Burst Test Report, dated 06 November 2008, Rev. -

Drawing No: Burst test report ANSI Globe, Burst Test Report, LK Changzhou, dated 10 September 2015, Rev. -

Drawing No: DN250 Globe Valve, Design Check - DN250 Globe Valve, Rev. -

Drawing No: TAC_dwg_GV_ang, Globe Valve Angled GA, Rev. A

Drawing No: TAC_dwg_GV_str, Globe Valve Straight GA, Rev. A

Drawing No: TAC_dwg_GV_BE_Ang, Globe Valve Bellow Seal Angled GA, Rev. A

Drawing No: TAC_dwg_GV_BE_Str, Globe Valve Bellow Seal Straight GA, Rev. A

Drawing No: TAC_dwg_QCV_ang, QCV Angled GA, Rev. A

Drawing No: TAC_dwg_QCV_str, QCV Straight GA, Rev. A

Drawing No: TAC_dwg_QCV_BE_ang, QCV Bellow Seal Angled GA, Rev. B

Drawing No: TAC_dwg_QCV_BE_str, QCV Bellow Seal Straight GA, Rev. B

Drawing No: TAC_dwg_SCV_ang, SCV Angled GA, Rev. A

Drawing No: TAC_dwg_SCV_str, SCV Straight, Rev. A

Drawing No: Globe Valve Product Description, Rev. E

Drawing No: 37724, Flange Table, Rev. -

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 26/May/2030 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

2025 ABS Marine Vessel Rules 1A-1-4/7.7, 1A-1-A3, 1A-1-A4, 4-6-2/5.11, 4-6-4/13.5.3, 4-6-4/13.7.2, 4-6-7/3.5.3

2025 ABS Rules for Offshore Units 1B-1-4/9.7, 1B-1-A2, 1B-1-A3, 4-2-2/9, 4-2-5/2.3, 4-2-5/3.7

International Standards

NA

EU-MED Standards

NA

National Standards

NA

Government Standards

NA

Other Standards

NA



A handwritten signature in black ink, appearing to read "Joseph W. Wilson".

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 02-Nov-2025 8:57

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.