



## Confirmation of Product Type Approval

**Company Name:** CHANGZHOU LK VALVES CO LTD

**Address:** BUILDING 16, XIN YU LOGISTICS PARKRENMIN ROAD NO. 8YAOGUAN, WUJIN 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

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	20-2021150-PDA-DUP	13-AUG-2020	12-AUG-2025
Manufacturing Assessment (MA)	20-4417203	26-AUG-2020	25-AUG-2025
Product Quality Assurance (PQA)	NA	NA	NA

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### 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;

### 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 4-2-5/3.9.2 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, Drawings and Documentation

- 1) Drawing 33073 Revision 0 – Bellow Sealed QCV
- 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

### Term of Validity

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.

### 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

**International Standards**

NA

**EU-MED Standards**

NA

**National Standards**

NA

**Government Standards**

NA

**Other Standards**

NA



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

Corporate ABS Programs  
American Bureau of Shipping  
Print Date and Time: 13-Sep-2020 8:41

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.