



Confirmation of Product Type Approval

Company Name: HY-LOK CORPORATION

Address: 97, NOKSANSANDAN 27-RO, GANGSEO-GU, BUSAN, Korea, Republic of, 46751

Product: Valve, Hy-Pro Manifold and Gauge Root

Model(s): M Series Instrument Manifolds and Gauge Root Valves

Endorsements:

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	21-2106255-PDA	16-APR-2021	15-APR-2026
Manufacturing Assessment (MA)	19-BK3756133	07-NOV-2019	07-JAN-2025
Product Quality Assurance (PQA)	NA	NA	NA

Tier

3 - Type Approved, unit certification not required

Intended Service

Hydraulic Fluids, Air, Lubricant and Fuel Oil Systems

Description

Models - M Series including 2-valves, 3-valves, and 5-valves; Gauge/Root Valve including gauge valves, root valves and gauge 2-valves, Materials: Stainless Steel

Ratings

Pressure rating up to 6000psig (410 bar) @ 38 degrees Celsius,

Temperature range: -10 ~ 200 degrees Celsius

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. The materials for body, disc stem and seat are to be suitable for intended service.

3. Maximum service pressure and temperature are not to exceed those specified by the manufacturer.
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.

Notes, Drawings and Documentation

Drawing No. 120MV-DS(REV.2), M series instrument manifolds, Revision: -, Pages: 1

Drawing No. 120MV-DS(REV.2), M series instrument manifolds, Revision: 2, Pages: 2

Drawing No. Correspondence, Declaration of conformity(M series Valve), Revision: -, Pages: 1

Drawing No. Correspondence, (E-MAIL)Letter, Revision: -, Pages: 1

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 15/Apr/2026 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

2021 Marine Vessel Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-6-2/5.11, 4-6-2/5.15

International Standards

NA

EU-MED Standards

NA

National Standards

ASME B16.34 (2017)

ASME B31.1 (2020)

ASME B31.3 (2020)

Government Standards

NA

Other Standards

NA



A handwritten signature in blue ink, appearing to read "Joseph W. White".

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 26-May-2021 9:40

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.