



## Confirmation of Product Type Approval

**Company Name:** KOBELT MANUFACTURING CO. LTD.

**Address:** 8238 129TH STREET SURREY V3W 0A6 Canada

**Product:** Hydraulic Steering Gear Cylinder

**Model(s):** 25, 35,45, 25B & 35B Cylinder

**Endorsements:**

<b>Certificate Type</b>	<b>Certificate Number</b>	<b>Issue Date</b>	<b>Expiry Date</b>
Product Design Assessment (PDA)	23-2450530-1-PDA	23-APR-2024	19-SEP-2028
Manufacturing Assessment (MA)	23-5867853	06-JUN-2023	05-JUN-2028
Product Quality Assurance (PQA)	NA	NA	NA

### **Tier**

5 - Unit Certification Required

### **Intended Service**

Marine & Offshore Steering Cylinders.

### **Description**

Unbalanced Hydraulic Cylinder for Marine Steering Application.

25 Cylinder:

Bore Diameter: 2.50", Rod Diameter: 1.25"

Stroke: 10" (Model 2510), 12" (Model 2512), 14" (Model 2514).

35 Cylinder:

Bore Diameter: 3.50", Rod Diameter: 1.75"

Stroke: 12" (Model 3512), 15" (Model 3515), 18" (Model 3518).

45 Cylinder:

Bore Diameter: 4.50", Rod Diameter: 2.25"

Stroke: 16" (Model 4516), 20" (Model 4520), 24" (Model 4524).

Balanced Hydraulic Cylinder for Marine Steering Application.

25 Cylinder:

Bore Diameter: 2.50", Rod Diameter: 1.25", Pin Diameter: 1.25",  
Stroke: 10" (Model 2510), 12" (Model 2512), 14" (Model 2514).

35 Cylinder:

Bore Diameter: 3.50", Rod Diameter: 1.75", Pin Diameter: 1.75",  
Stroke: 12" (Model 3512), 15" (Model 3515), 18" (Model 3518).

**Ratings**

Max Allowable Working Pressure: 2000 psi

Design Temperature: 32°F (0°C) to 122°F (50°C)

**Service Restrictions**

1. Unit Certification is required for this product.
2. 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**

- The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
- Each Cylinder is to be affixed with a permanent nameplate or marking bearing the Manufacturer's Name or Trademark and the Maximum Allowable Working Pressure and Temperature in accordance with 4-6-7/3.5.5 of the ABS Marine Vessels Rules.
- Material Testing as per 4-3-4/3 of the ABS Marine Vessels Rules. Parts may be accepted on the basis of a review of mill certificates by the Surveyor.
- Each unit is to be hydrostatically tested to 1.5 times the maximum allowable working pressure as per 4-3-4/19 of the ABS Marine Vessels Rules.

**Notes, Drawings and Documentation**

\* See attachment

**Term of Validity**

This Product Design Assessment (PDA) Certificate remains valid until 19/Sep/2028 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**

2024 ABS Rules for Conditions of Classification, 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2024 Marine Vessels Rules 4-3-4/3, 4-3-4/7, 4-3-4/19, 4-4-1/1.11.5, 4-4-1A1, 4-6-7/3.5.5

2024 ABS Rules for Conditions of Classification of Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

2024 Mobile Offshore Unit Rules 6-1-1/1.1, 6-1-6/1

**International Standards**

NA

**EU-MED Standards**

NA

**National Standards**

NA

**Government Standards**

NA

**Other Standards**

NA



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

Corporate ABS Programs  
American Bureau of Shipping  
Print Date and Time: 29-Aug-2024 11:11

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.