



CERTIFICATE NUMBER	20-1988140-PDA
EFFECTIVE DATE	15-May-2020
EXPIRY DATE	14-May-2025
ABS TECHNICAL OFFICE	Houston ESD - Piping

CERTIFICATE OF Product Design Assessment

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

KOBOLD INSTRUMENTS INC.

located at

**1801 PARKWAY VIEW DRIVE, PITTSBURGH, PA, United States,
15205**

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 Level Indicator, Tank Level Sensor

Model NBK-M Series

This Product Design Assessment (PDA) Certificate remains valid until 14/May/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
<i>Soheni Haque</i>
Soheni Haque,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)

KOBOLD INSTRUMENTS INC.

1801 PARKWAY VIEW DRIVE

PITTSBURGH PA

United States 15205

Telephone:

Fax:

Email:

Web:

Tier: 2 - PDA Issued

Product: Level Indicator, Tank Level Sensor

Model: NBK-M Series

Intended Service:

Liquid Level Monitoring of Tanks

Description:

316 Stainless Steel Tube Tank Level, Magnetic Liquid Level Indicator

Rating:

Maximum Pressure:

Threaded Fitting 580 PSIG

Per ANSI B16.5 for the Specified Flange, 580 PSIG Maximum

Maximum Temperature: 390 deg F

Indicating Rollers: Polypropylene or Ceramic IP54

Maximum Liquid Viscosity: 200cSt

Maximum Measuring Length: 9.8 ft.

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:

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

Notes/Drawing/Documentation:

Drawing No. - NBK-M ABS datasheet

Drawing No. 003.501, NBK Float

Drawing No. 203.100, NBK M Outline

Drawing No. - NBK Outgoing Checklist

Drawing No. - NBK-M BOM, Gross Requirements Report

Drawing No. - NBK-M Datasheet Economical Level Indicator

Drawing no. - NBK-M Inspeccion Form, NBK-M0, M2, M3 Manufacturing Inspection Form

Drawing no. - NVK Work Instructions

Drawing No. 003.496 Assessment Application Information Drawing

Drawing No. 003.502 Assessment Application Information Drawing

Drawing No. 003.503 Assessment Application Information Drawing

Drawing No. 203.101 NBK-M Outline English

Drawing No. 203.102 Roller Indication Assy

Drawing no. 203.103 Roll notice

Drawing No. KOBOLD NBK-M Declaration of Conformity, Declaration of Conformity

Terms of Validity:

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STANDARDS

ABS Rules:

The Rules for Conditions of Classification 2020 Marine Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

2020 Rules for Building and Classing Marine Vessels 4-8-3/1, 4-6-4/11.7

The Rules for Conditions of Classification - Offshore Units and Structures, 2020 Mobile Offshore Units Rules 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

2020 Rules for Building and Classing Mobile Offshore Units 4-3-1/11, 4-3-1/15, 4-2-3/3.7

National:

NA

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA