



CERTIFICATE NUMBER	25-0211400-PDA
EFFECTIVE DATE	07-Apr-2025
EXPIRY DATE	06-Apr-2030
ABS TECHNICAL OFFICE	Hamburg Engineering Department

## CERTIFICATE OF Product Design Assessment

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

### **HACI AYVAZ ENDUSTRIYEL MAMULLERI SAN. VE TIC. A.S.**

located at

**ATATURK SANAYI BOLGESI HADIMKOY MAHALLESİ, MUSTAFA  
INAN CADDESİ, NO. 44 , ISTANBUL, ARNAVUTKOY, Turkey**

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.

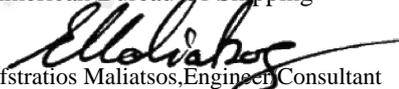
**Product:** Level Indicator, Magnetic Float Type  
**Model:** MG-33, MG-33S  
**Endorsements:**  
**Tier:** 2 - PDA Issued

This Product Design Assessment (PDA) Certificate remains valid until 06/Apr/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.

American Bureau Of Shipping

  
Efstratios Maliatsos, 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)

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ATATURK SANAYI BOLGESI HADIMKOY MAHALLESİ

MUSTAFA INAN CADDESİ

NO. 44

ISTANBUL ARNAVUTKOY

Turkey

Telephone: +90 212 771 01 45

Fax: +90 212 771 25 60

Email: info@ayvaz.com

Web: www.ayvaz.com/en/

**Tier: 2 - PDA Issued**

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**Product:** Level Indicator, Magnetic Float Type

**Model:** MG-33, MG-33S

**Endorsements:**

**Intended Service:**

Liquids Level Control and Monitoring

**Description:**

MG-33 and MG-33S (Slim Type) are magnetic level gauges with flanged connections to monitor the level of fluids in tanks. The magnets in the float chamber enable to follow the liquid change level with the help of red-white colored flaps placed on the outer wall.

MG-33

Mounting Type: Vertical / Top Mounted

Body: AISI 304 /316 / 316L Stainless Steel

Float: AISI 316L Stainless Steel

Magnetic Disc: Ferromagnetic

Flap: Aluminum / Plastic

Connection Type: Flange, M/F, Union (optional mounted valve)

Flange Type: DIN, ANSI (150-300), JIS

Flange Material: Carbon Steel St. 37.2, Stainless Steel

Drain Plug: 3/8", 1/2", 3/4", 1"

MG-33S (Slim Type)

Mounting Type: Vertical

Body: AISI 304 /316 Stainless Steel

Float: AISI 316L Stainless Steel

Magnetic Disc: Ferromagnetic

Flap: Aluminum / Plastic

Connection Type: Flange, M/F, Union (optional mounted valve)

Flange Type: DIN, ANSI (150-300), JIS

Flange Material: Carbon Steel St. 37.2 / Stainless Steel

Drain Plug: 3/8", 1/2", 3/4", 1"

**Rating:**

MG33 (Vertical / Top Mounted)

Measurement Range: 300 - 5600 mm

Max. Working Pressure: 16 bar

Max. Working Temperature: 200 °C

Degree of Protection: IP 66

MG-33S (Slim Type)

Measurement Range: 300 - 5600 mm

Max. Working Pressure: 10 bar

Max. Working Temperature: 160 °C

Degree of Protection: IP 66

**Service Restriction:**

1. Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for

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compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

2. The level gauges are approved for use in water, fuel oil and other flammable liquid tanks. Use in liquid cargo tanks, such as crude oil, liquefied gases, chemicals, etc., is not covered by this PDA and the specific requirements in Part 5C and Part 5D of the Marine Vessel Rules are to be considered on a case by case basis.

3. The level gauges are to be fitted with self closing valves or arranged such that they may be isolated and removed without emptying tanks or without impairing the integrity of pressurized systems.

4. For passenger vessels, no level gauge is to be installed below the top of the tank.

**Comments:**

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

2. The level gauge is to be capable of withstanding the hydrostatic pressure at the location of installation, including that due to overfilling.

2. Ex certification is not covered by this certificate. Application for use in hazardous areas to be approved on a case by case basis.

**Notes/Drawing/Documentation:**

Drawing No. IP REPORT, IP REPORT, Revision: 0

Drawing No. MAGNETIC LEVEL GAUGES, TECHNICAL DRAWINGS, Revision: 1

Drawing No. Ayvaz\_MG-33\_Level\_Gauge, Model Description, Revision:0

Drawing No. Ayvaz\_MG-33 Top Mounted Brochure, Model Description, Revision:0

Drawing No. Ayvaz\_MG-33S Brochure, Model Description, Revision:0

**Terms of Validity:**

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**STANDARDS**

**ABS Rules:**

2025 Marine Vessel Rules :1-1-4/7.7, 1-1-A3, 1-1-A4, 4-6-2/9.11.3, 4-6-4/11.1, 4-6-4/11.7, 4-6-4/13.5.6 (b), 4-6-4/15.3.4 (b), 4-8-3/ 1.11.1

2025 Mobile Offshore Units Rules: 1-1-4/9.7, 1-1-A2, 1-1-A3, 4-2-3/3.7

**National:**

NA

**International:**

NA

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**Government:**

NA

**EUMED:**

NA

**OTHERS:**

NA