Certificate No: **2609071154556354**
TL Project No: **25-1083**

TYPE APPROVAL CERTIFICATE

This is to certify that the

Magnetic Level Gauges

Manufacturer : **HACI AYVAZ ENDÜSTRİYEL MAMULLER SANAYİ VE TİCARET ANONİM ŞİRKETİ**

Address : **Hadımköy Atatürk Sanayi Bölgesi, Hadımköy, Mustafa İnan Cd. No: 44, 34555 Arnavutköy/İstanbul**

Product Type : **MG-33, MG-33 S**

Reference Rule : **TL Rules, Part E, Chapter 103 - Metallic Materials, Special Materials for Naval Ships, 01.01.2022**

TL Rules, Part E, Chapter 105 - Naval Ship Technology, Electrical Installations, 01.01.2022

TL Rules, Part E, Chapter 107 - Naval Ship Technology, Ship Operation Installations and Auxiliary System, 01.01.2022

TL Rules, Part B, Chapter 5, Electric , 01.01.2024

TL Rules, Part A, Chapter 2, Material, 01.07.2024

TL Rules, Part B, Chapter 4, Machinery, 01.07.2024

Subject to the conditions referred to in the following pages, this certificate is valid until **14.04.2030**
Surveyor: **Abdullah DEMİRCİ**
-

Issued at **İstanbul** on **23.09.2026**

This document is electronically signed and does not require a manual signature

Click here for the verification website

Emrah SÖĞÜTÇÜ
New Building Division Manager
TÜRK LOYDU

Expire Date of Previous Certificate: 14.04.2025

For Information Only

This certificate is subject to terms and conditions described below:
Any significant change in design or construction may render this Certificate invalid. Certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. This certificate is not valid for products without marking above mentioned. The manufacturer should notify TÜRK LOYDU of any modifications or changes to equipment in order to obtain valid certificate. This certificate shows that tested specimens as representative of the product complies of the TÜRK LOYDU rules, and relevant international instruments that apply to it.

Product Description	**: MG-33, MG-33S are designed with the lifting force of liquids and electromagnetism thrust and pulling force.The magnets in the float that enable you to follow the liquid change level with the help of red-white colored flaps placed on their outher wall.**
Type Designation	**: - Design Temperature: 180 ºC (MG-33), 160 ºC (MG-33S),** **- Max. Operating Pressure : 16 bar(MG-33), 10 bar(MG-33S),** **- Indicating Scale: Red-White colored plastic/aluminium rollers containing magnets** **- A vertical chamber** **- A float** **- Two side connections**
Material Used	**: Body: AISI 304 /316 / 316L Stainless Steel** **Connecting Flange: Carbon Steel or Stainless Steel** **Blind Flange: Carbon Steel or Stainless Steel** **Float: AISI 316L Stainless Steel** **By-Pass Tube: Stainless Steel** **Bolts: Stainless Steel** **Discharge Bolt: Stainless Steel** **Rollers: Plastic and Permanent Magnet** **Display: Plexiglass**
Size	**: MG33: 300, 500, 700, 1000, 1200, 1500, 2000 to 5750 mm**
Approval No / Date	**: PAE-EPAS/021576/25-1083/VA/12.06.2025** **PAE-EPAS/022956/25-1083/VA/07.11.2025**
Ex-Proof Availability	**: II 1/2 G Ex h IIC T6 Ga/Gb**
Purpose of Use	**: Tanks intended for Water, Oil, Fuel**
Documentation	**: Environmental Test Report(Cold) for MG-33, Issued By AYVAZ, Report Nr.:4470, 22-04-2021** **Environmental Test Report(Cold) for MG-33S, Issued By AYVAZ, Report Nr.:4474, 22-04-2021** **Environmental Test Report(Dry Heat) for MG-33, Issued By AYVAZ, Report Nr.:4471, 22-04-2021** **Environmental Test Report(Dry Heat) for MG-33S, Issued By AYVAZ, Report Nr.:4475, 22-04-2021** **Environmental Test Report(Vibration) for MG-33, Issued By AYVAZ, Report Nr.:4472, 22-04-2021** **Environmental Test Report(Vibration) for MG-33S, Issued By AYVAZ, Report Nr.:4472, 22-04-2021** **Environmental Test Report(Salt Mist) for MG-33&MG-33S, Issued By AYVAZ, Report Nr.:6911, 02-03-2026** **Environmental Test Report(Salt Mist) for MG-33&MG-33S, Issued By AYVAZ, Report Nr.:6912,02-03-2026** **EU-Type Examination Certificate for MG-33, MG-33S, Issued By Energy Petroleum Institute, Cert. Nr.:IEP 14 ATEX 0213, 26-05-2025**
Performed Tests	**: Quality Audits** **Review of Calibration and Sub Component Certificate** **Review of IP Degree Test Report** **Review of ATEX (Explosion Proof) Certificate** **Control According to Approved Documentations** **Visual Inspection** **Performance Test** **Leakage Test** **Functional Testing During Environmental Test Sequences** **Vibration Test** **Dry Heat Test** **Cold Test** **Salt Mist Test**
Test Place	**: Atatürk San. Bölgesi, Hadımköy Mh. Mustafa İnan Cd. No.:44 Arnavutköy/İstanbul**

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Last Inspection Date	**: 07.09.2026**
Approval Conditions	**: - Ex installations to be approved in each case according to Rules and Ex-Certification/ Special Condition for Safe Use listed in valid Ex-certificate issued by a notified/recognized Certification Body.** **- Ex-certification is not covered by this certificate, which is for information only, is based on information received from the manufacturer, but not verified by TÜRK LOYDU.** **- Applications other than the "Type Designation" mentioned in this certificate are not covered by this type approval certificates.**

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