Certificate No: **2606231811196354**
TL Project No: **25-3490**

TÜRK LOYDU

TYPE APPROVAL CERTIFICATE

This is to certify that the

Actuator, Electro-Hydraulic for Quarter-Turn Valve

Manufacturer : **HANLA IMS CO.,LTD**

Address : **115, Hwajeonsandan 1(il)-ro, Gang seo-gu,Busan, Korea, 46741**

Product Type : **HLT-13/35/70/135/300**

Reference Rule : **TL Rules, Part B, Chapter 4-1, Automation, 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 **03.09.2031**
Surveyor: **Abdullah DEMİRCİ**
-

Issued at **İstanbul** on **04.09.2026**

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: -

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	**: Actuator, Electro-Hydraulic for Quarter-Turn Valve**
Type of Product	**: HLT-13/35/70/135/300**
Type Designation	**: Housing, cylinder: FCD450** **U-packing, o-ring, oil seal: NBR or FKM**
Approval No / Date	**: PAE-EPAS/023060/Y-3229/25-3490/OE/20.11.2025**
Electric Motor Type	**: Single Speed Cage Induction Motor 3phase IC:F (H optional)**
Ingress Protection (IP)	**: IP67 for Valve Position Monitor**
Rated Voltage	**: 220 VAC**
Frequency	**: 60 Hz**
Working Pressure	**: 135 bar**
Design Pressure	**: 160 bar**
Design Temperature	**: -18 to +100°C (NBR), -10 to +150 °C (FKM), -20 to +80 °C (Valve Position Monitor)**
Documentation	**: - Burst Test Report (5 times the max working pressure for HLT hydraulic actuator), By American Bureau of Shipping, Report Nr.: BK2815591, 23/01/2015** **- Degree of Protection Test Report(HLT-300), Korea Marine Equipment Research Institute,Report Nr.: KOMERI-0306-12T230, 14/03/2012** **- Degree of Protection Test Report(HLT-135), Korea Marine Equipment Research Institute,Report Nr.: KOMERI-0306-12T232, 14/03/2012** **- Degree of Protection Test Report(HLT-70), Korea Marine Equipment Research Institute,Report Nr.: KOMERI-0306-11T359, 14/03/2012** **- Degree of Protection Test Report(HLT-35), Korea Marine Equipment Research Institute,Report Nr.: KOMERI-0306-12T231, 14/03/2012** **- Degree of Protection Test Report(HLT-13), Korea Marine Equipment Research Institute,Report Nr.: KOMERI-0306-11T358, 14/03/2012**
Performed Tests	**: Quality Audits** **Review of Calibration and Sub-Component Certificate** **Review of Type Approval Certificate for Valve Position Monitor** **Review of IP Degree Test Report** **Review of Endurance Test Report** **Control According to Approved Documentations** **Visual Inspection** **Dimensional Check** **Burst Test** **Function Test**
Test Place	**: 115, Hwajeonsandan 1(il)-ro, Gang seo-gu,Busan, Korea, 46741**
Application/Limitation	**: 1- Valve Position Monitor, APL-9** series: General purpose, not explosion proof.** **2- Each valve linked to the actuator is to be provided with local manual control or equivalent.** **3- The actuator is to be installed according to the manufacturer's instructions and TL Rule requirements.** **4- The approval does not include any operating gear for remote control of the valve linked to the actuator.**
Others	**: It is HANLA IMS CO., LTD's responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.**

For Information Only

	Product Description	Max. Output Torque	Total Weight
1	HLT-13	215.4 Nm	18 kg
2	HLT-35	586.1 Nm	24 kg
3	HLT-70	1097.2 Nm	34 kg
4	HLT-135	2110 Nm	44 kg
5	HLT-300	4747.5 Nm	84 kg

Approval Conditions : -

For Information Only