

## **Kanon to set a new standard for LNG marine loading arms according EN 1474-2009**

**Being the only marine loading arm manufacturer in the world** to fully comply with the latest and most stringent load tests combined with leakage tests according the European Standard EN1474 which became effective in 2009, Kanon reports a successful testing of their LNG swivel joint, even beyond the requirements.

Swivel joints are the most critical components of every loading arm. Especially for LNG transfer, the requirements with regard to strength and leak tightness of swivel joints have become more stringent thought out the years, ending up in last year's EN1474-1:2009. This standard is additional to the already existing Oil Companies International Marine Forum (OCIMF) guidelines for marine loading arms, specifically with regard to the handling of LNG.

The load tests include 4 stages, of which stage (3) and stage (4) are only meant to test the mechanical limits, regardless of eventual leakage and damage. The load tests according Stage (1) and Stage (2) were completed by Kanon with no leakage and no visible damage (brinelling) of the ball races. Although leakage and brinelling did not need to be measured, the load tests according Stage (3) and (4) were completed with the same results of the Stage (1) and (2).

All tests were witnessed and certified by a third party (Lloyds).

The unmatched strength of the Kanon LNG swivel joints result from the double ball race design, the choice of materials and a special shape of the ball races. The joints are machined in one piece with ultra-high precision and no after treatment whatsoever. No grease, graphite or any other lubrication is allowed, no replaceable parts except for balls, seals and o-rings are needed.

There will be no doubt that KANON Loading Equipment BV has developed a unique and ultra-modern swivel joint which can easily meet the most stringent norms, thus providing an unrivalled reliable and secure way of LNG handling by marine loading arms.

This particular swivel joint design in combination with the well-known and high-reliable symmetric marine loading arms will definitely put a new standard in reliable LNG transfer arms.

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## KANON LNG LOADING ARMS

### *THE NEW STANDARD*



Symmetric Design for Excellent Performance

## KANON

### KANON TO SET A NEW STANDARD FOR LNG MARINE LOADING ARMS

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