Certificate No: LR25332114QAES
Issue Date: 13/09/2025
Expiry Date: 12/09/2028

Quality Assurance Engineering Scheme Certificate

Manufacturer	**Klinger Westad AS**
Address	Heggenveien 530, Geithus, 3360, Norway
Scheme Type	**Quality Assurance Scheme for Machinery (QAM)**
Approval Number	**QAM 083**
Product Type	Butterfly Valves
Product Name	Westad Cryoseal Conventional and "fire safe"

This is to certify that the above named manufacturer has been approved by LR EMEA in accordance with the requirements set out in the Quality Assurance Scheme for Machinery (QAM) within the Lloyd's Register Rules and Regulations for the Classification of Ships.

The quality system and procedures at these works covering production methods, inspection and testing, quality control and general standards of workmanship have been examined and are approved for the manufacture of the undernoted product(s) at the stated place(s) of production.

Such items will be eligible for fitting in ships or other installations classed or intended for classification subject to satisfactory installation under the usual conditions of survey and testing.
This approval is conditional upon the product(s) manufactured and certified under this Scheme being in accordance with the relevant requirements of the Rules and Regulations for the Classification of Ships and the organisation and procedures being audited by the Surveyors at agreed intervals.

For details of the scope of approval see subsequent pages of this certificate.

This certificate is issued to the named manufacturer and is valid until the expiry date specified. Lloyd's Register is to be notified of any change that may affect the validity of this certificate and reserves the right

Downloaded Copy

Thomas Anhofer
Lead Specialist / QAES Scheme Coordinator
to Lloyd's Register EMEA
A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Quality Assurance Engineering Scheme Certificate

to cancel or withdraw this certificate.

The Quality Assurance Scheme for Machinery is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations for the Classification of Ships are complied with.

Scope of products covered by the scheme:

1. Westad Cryoseal

Fire tested butterfly Valves for LNG-Services

ANSI Class 150

Sizes:	DN 150 to 750
Body:	ASTM A 351 gr CF8M or CF3M
Disc:	ASTM A 351 gr CF8M
Sealing:	UHMW PE, modifies PTFE & metallic sealing (Helicoflex)
Stem:	AISI 316, Alloy A286 gr. 660, Nitronic 50 or Inconel 718

Valves with Type Approval LR2364872TA-05.

Cryogenic tests are excluded and to be witnessed by attending surveyor

2. Conventional and "fire safe"

High performance butterfly Valves (HPBV)

ANSI Class 150/300 and ISO PN 25 & PN 50
Conventional and fire safe

Wafer Type:	HW A/C/D/E	60/70 series
Lug Type:	HL A/C/D/E	60/70 series
Flanged Type:	HF A/C/D/E	60/70 series

Valves with Type Approval LR24140492TA.

Downloaded Copy

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.