



Lloyd's
Register

Type Approval Certificate Extension

This is to certify that Certificate No. 90/20026 (E4) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	Thies Armatur GmbH & Co. KG Gutenbergstraße 2 31157 Sarstedt Germany
DESCRIPTION	Full Lift Safety Valves Body from material spheroidal graphite cast iron or cast steel
TYPE	356 (gastight version) 357 (closed bonnet version)
APPLICATION	Safety valves for marine and industrial services.
RATINGS	Nominal Diameter* DN 20**/32 to DN 100/150 Nominal Pressure* PN 1 bar to PN 30 bar * As per table in catalogue No. 0605, 0908 Certified C-valve as per Rules=39
LIMITATIONS	** DN 20: Accepted only for small oil fired package boiler of the once through coil type used for auxiliary or domestic purposes, where the feed pump capacity limits the output and in conjunction with a second safety valve only. Grey cast iron is not to be used. Valves are not to be used for LNG and cryogenic systems.

Certificate No.	90 / 20026 (E5)
Issue Date	30 April 2015
Expiry Date	28 February 2020
Sheet	1 of 2

Lloyd's Register EMEA
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STANDARD

Lloyd's Register Rules and Regulations for Classifications of Ships, July 2014

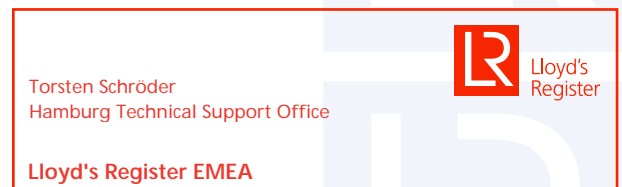
"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."

The attached Design Appraisal Document No. HMD 14649-05, Issue number 2, dated 30.04.2015 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 90/20026 (E4) to which this extension should be attached.

Certificate No.	90 / 20026 (E5)
Issue Date	30 April 2015
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Sheet	2 of 2

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