

# Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

<b>Manufacturer</b>	<b>Thies Armatur GmbH &amp; Co. KG</b>
<b>Address</b>	Gutenbergstr. 2, Sarstedt, 31157, Germany
<b>Type</b>	Safety Valves
<b>Description</b>	Full Lift Safety Valves Body from material spheroidal graphite cast iron or cast steel  TYPES 356 (gastight version) 357 (closed bonnet version)
<b>Trade Name</b>	356 (gastight version), 357 (closed bonnet version)
<b>Application</b>	Safety valves for marine and industrial services.
<b>Specified Standard</b>	Lloyd's Register Rules and Regulations for Classifications of Ships, July 2019
<b>Ratings</b>	Nominal Diameter* DN20**/32 to DN 100/150 Nominal Pressure* PN1 bar to PN 30 bar * As per table in catalogue No. 0317, 0908 Certified C-valve as per Rules=39

71 Fenchurch Street, London, EC3M 4BS, UK

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A member of the Lloyd's Register group

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## Other Conditions

### 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.

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 Design Appraisal Document No. HMD 14649-05 Issue No. 3 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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