



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.

Manufacturer	Thies Armatur GmbH & Co. KG
Address	Gutenbergstr. 2, Sarstedt, 31157, Germany
Type	Safety Valves
Description	Full Lift Safety Valves Body from material spheroidal graphite cast iron or cast steel TYPES 356 (gastight version) 357 (closed bonnet version)
Trade Name	356 (gastight version), 357 (closed bonnet version)
Application	Safety valves for marine and industrial services.
Specified Standard	Lloyd's Register Rules and Regulations for Classifications of Ships, July 2024
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. 0317, 0908 Certified C-valve as per Rules = 39

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

Torsten Schroeder

Engineering - Piping/ Decarbonisation -
Senior Specialist to Lloyd's Register EMEA
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.

Previous Version: LR2001860TA, (prev. 90/20026(E5))

The Design Appraisal Document TSO/24-026557, (prev. HMD 14649-05 Issue No. 3) and its supplementary Type Approval Terms and Conditions form part of this Certificate.