



Design Appraisal Document

Lloyd's Register Group Limited
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Date
16 March 2020

Please quote the document number on all future communications

**WORLD VALVE CO., LTD.
EMERGENCY SHUT-OFF VALVES
MODEL : WVBCEOG/MVSCESOG & WVBCEOL/MVSCESOL
GENERAL DESIGN APPRAISAL – EXTENSION**

Valid until 15 March 2025

1. The documents listed in paragraph 1 of the appendix have been examined for compliance with Part 5, Chapters 12, 13 & 14 of the Rules and Regulations for the Classification of Ships (January 2020) and Regulation 4 of Chapter II-2 of SOLAS Consolidated Edition 2014, and are assigned an appraisal status as indicated, subject to satisfactory resolution of the following matters:-
 - 1.1. Materials of emergency shut-off valves in Class I & Class II piping systems are to be manufactured and tested in accordance with the requirements of the Rules for Materials. AQS
 - 1.2. Where the maximum conditions are less than shown in Table 12.1.2 of Part 5, Chapter 12, Section 1.7.2 of the Rules, the manufacturer's material test certificates of valves in Class I & Class II piping systems are acceptable in lieu of LR's materials certificate. AQS
 - 1.3. The valves in Class I & Class II piping systems are to be tested by hydraulic pressure 1.5 times the design pressure to the attending Surveyor's satisfaction. AQS
 - 1.4. The manufacturer's material test and hydraulic test certificates of the valves in Class III piping system are acceptable in lieu of LR's test certificates. AQS
 - 1.5. It is noted that maximum working pressure of the valves is 1.0 bar (0.1 MPa). AQS
 - 1.6. The valves are installed, tested as required by the Rules and found to function under working conditions all to the attending Surveyor's satisfaction. AQS

FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

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- 1.7. Instructions for closing the valves are to be indicated at the valves and at the remote control positions in accordance with Part 5, Chapter 14, Section 4.8.2 of the Rules. AQS
2. The following general comment is offered:-
- 2.1. This General Design Appraisal Document supersedes and cancels previous Document No. YDS/M/I-154175D (Issue No.0) dated 16 March 2015.
- 2.2. This General Design Appraisal is valid for a period of 5 years from the date of issue. After that time, an application for renewal would be considered.



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Appendix

1. The documents listed below have been dealt with previous Document No. YDS/M/I-95049D (Issue No.0)..

Document No.	Rev.	Title	Status	Date
WVBCESOG/ WVSCESOG	--	Cast Bronze & Cast Steel Emergency Shut-off Valve for Marine Use - 10K (10K-15A to 200A, 16K-15A to 40A)	AQ	15/03/2010
WVBCESOL/ WVSCESOL	--	Cast Bronze & Cast Steel Emergency Shut-off Valve for Marine Use - 10K (10K-15A to 200A, 16K-15A to 40A)	AQ	15/03/2010
(3 sheets)	--	Emergency Shutoff Valve Operation Manual	SI	15/03/2010

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Appraisal Status Key

- AQ Approved subject to the matters raised that require resolution - and provided the arrangements are to the attending surveyor's satisfaction.
- AQS Details to be submitted by the client to the local surveyor's office responsible for surveying the building and the arrangements verified in accordance with the Rule/Regulations requirements by the attending surveyor.

The date is the date on which the document is stamped.

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