



# Design Appraisal Document

Lloyd's Register Group Limited  
Yokohama Technical Support Office  
Queen's Tower A, 10th Floor,  
2-3-1, Minatomirai, Nishi-ku,  
Yokohama, 220-6010 Japan  
Tel: +81-(0)45-682-5273, Fax: +81-(0)45-682-5279

Date  
16 March 2020

Please quote the document number on all future communications

WORLD VALVE CO., LTD.  
MARINE COCKS  
MODEL : WVBCFC & WVBCFCS  
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 are assigned an appraisal status as indicated, subject to satisfactory resolution of the following matters:-
  - 1.1. Materials of cocks 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 cocks in Class I & Class II piping systems are acceptable in lieu of LR's materials certificate. AQS
  - 1.3. The cocks 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 cocks in Class III piping system are acceptable in lieu of LR's test certificates. AQS
2. The following general comment is offered:-
  - 2.1. This General Design Appraisal Document supersedes and cancels previous Document No. YDS/M/I-154175C (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.

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

Lloyd's Register Group Limited  
Is a member of Lloyd's Register group

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.

**Lloyd's Register Group Limited**  
**Yokohama Technical Support Office**  
**Queen's Tower A, 10th Floor,**  
**2-3-1, Minatomirai, Nishi-ku,**  
**Yokohama, 220-6010 Japan**  
**Tel: +81-(0)45-682-5273, Fax: +81-(0)45-682-5279**

Date  
**16 March 2020**

Please quote the document number on all future communications



Y. Sawada  
Lead Surveyor  
Machinery & Piping Group  
Yokohama Technical Support Office  
Lloyd's Register Group Limited  
Tel: +81-(0)45-682-5273  
Email: [yasushi.sawada@lr.org](mailto:yasushi.sawada@lr.org)

## Appendix

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

Document No.	Rev.	Title	Status	Date
WVBCFC	--	Cast Bronze 2 Way / 3 Way Flanged Cock for Marine Use - 5K (5K-25A to 65A)	AQ	15/03/2010
WVBCFCS	--	Cast Bronze Cock for Marine - 16K (16K-6A to 20A)	AQ	15/03/2010

### 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.

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

Lloyd's Register Group Limited  
Is a member of Lloyd's Register group