



Member of the FM Global Group

Approval Standard for Gas Safety Control Cocks

Class Number 7420

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Foreword

The FM Approvals certification mark is intended to verify that the products and services described will meet FM Approvals' stated conditions of performance, safety and quality useful to the ends of property conservation. The purpose of Approval Standards is to present the criteria for FM Approval of various types of products and services, as guidance for FM Approvals personnel, manufacturers, users and authorities having jurisdiction.

Products submitted for certification by FM Approvals shall demonstrate that they meet the intent of the Approval Standard, and that quality control in manufacturing shall ensure a consistently uniform and reliable product. Approval Standards strive to be performance-oriented. They are intended to facilitate technological development.

For examining equipment, materials and services, Approval Standards:

- a) must be useful to the ends of property conservation by preventing, limiting or not causing damage under the conditions stated by the Approval listing; and
- b) must be readily identifiable.

Continuance of Approval and listing depends on compliance with the Approval Agreement, satisfactory performance in the field, on successful re-examinations of equipment, materials, and services as appropriate, and on periodic follow-up audits of the manufacturing facility.

FM Approvals LLC reserves the right in its sole judgment to change or revise its standards, criteria, methods, or procedures.

TABLE OF CONTENTS

1. INTRODUCTION	1
1.1 Purpose	1
1.2 Scope	1
1.3 Basis for Requirements	1
1.4 Basis for Approval	1
1.5 Basis for Continued Approval	2
1.6 Effective Date	2
1.7 System of Units	2
2. GENERAL INFORMATION	3
2.1 Product Information	3
2.2 Approval Application Requirements	3
2.3 Requirements for Samples for Examination	4
3. GENERAL REQUIREMENTS	4
3.1 Review of Documentation	4
3.2 Markings	5
3.4 Manufacturer's Installation and Operation Instructions	5
3.5 Calibration	5
4. PERFORMANCE REQUIREMENTS	5
4.1 Shut-Off and Leakage	5
4.2 Durability	6
4.3 Handle Force	7
5. OPERATIONS REQUIREMENTS	7
5.1 Demonstrated Quality Control Program	7
5.2 Facilities and Procedures Audit (F&PA)	8
5.3 Installation Inspections	8
5.4 Manufacturer's Responsibilities	8
APPENDIX A: Units of Measurement	9
APPENDIX B: Approval Marks	10

1. INTRODUCTION

1.1 Purpose

- 1.1.1 This standard states minimum Approval requirements for gas safety control cocks.
- 1.1.2 Approval criteria may include, but are not limited to, performance requirements, marking requirements, examination of manufacturing facility(ies), audit of quality assurance procedures, and a follow-up program.

1.2 Scope

- 1.2.1 This standard applies to any component intended to or for use in providing an independent checking passageway which can be open only when the main gas passageway to the burner is closed.

1.3 Basis for Requirements

- 1.3.1 The requirements of this standard are based on experience, research and testing, and/or the standards of other organizations. The advice of manufacturers, users, trade associations, jurisdictions and/or loss control specialists was also considered.
- 1.3.2 The requirements of this standard reflect tests and practices used to examine characteristics of gas safety control cocks for the purpose of obtaining Approval. Gas safety control cocks having characteristics not anticipated by this standard may be FM Approved if performance equal, or superior, to that required by this standard is demonstrated, or if the intent of the standard is met. Alternatively, gas safety control cocks which meet all of the requirements identified in this standard may not be FM Approved if other conditions which adversely affect performance exist or if the intent of this standard is not met.

1.4 Basis for Approval

Approval is based upon satisfactory evaluation of the product and the manufacturer in the following major areas:

- 1.4.1 Examination and tests on production samples shall be performed to evaluate
- the suitability of the product;
 - the performance of the product as specified by the manufacturer and required by FM Approvals; and as far as practical,
 - the durability and reliability of the product.
- 1.4.2 An examination of the manufacturing facilities and audit of quality control procedures is made to evaluate the manufacturer's ability to consistently produce the product which is examined and tested, and the marking procedures used to identify the product. These examinations may be repeated as part of FM Approvals' product follow-up program.