

Approval Standard for Couplings Used in Hubless Cast Iron Systems for Drain, Waste or Vent, Sewer, Rainwater or Storm Drain Systems Above and Below Ground, Industrial/ Commercial and Residential

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Foreword

FM Approvals are intended to verify that the products and services described will meet stated conditions of performance, safety and quality useful to the ends of property conservation. The purpose of FM 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 Approval shall demonstrate that they meet the intent of the Approval Standard, and that quality control in manufacturing and/or applications shall ensure a consistently uniform and reliable product or service. FM Approval Standards strive to be performance-oriented and to facilitate technological development.

For examining equipment, materials and services, FM 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 or service/application.

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TABLE OF CONTENTS

I INTRODUCTION	1
1.1 Purpose	1
1.2 Scope	1
1.3 Basis for FM Approval	1
1.4 Basis for Continued Approval	1
1.5 Requirements	2
1.6 System of Units	2
II GENERAL INFORMATION	2
2.1 Product Information	2
2.2 Ratings	2
III APPLICABLE DOCUMENTS	3
IV GENERAL REQUIREMENTS	3
4.1 Markings	3
4.2 Instructions	3
4.3 Physical or Structural Features	4
4.4 Drawings/Plans/Specifications Required With Samples	5
V PERFORMANCE REQUIREMENTS	5
5.1 Hydrostatic Strength	5
5.2 Blockage	5
5.3 Bending Moment	5
5.4 Deflection Angle	7
5.5 Sealing Sleeve	7
5.6 Clamp Strength	8
5.7 Thrust Test	8
5.8 Salt Spray	9
5.9 Other Tests	10
VI OPERATIONS REQUIREMENTS	10
6.1 Demonstrated Quality Control Program	10
6.2 Facilities and Procedures Audit (F&PA)	11
A. At Manufacturing Plant	11
B. At Site of Installation	11
APPENDIX A MINIMUM REQUIRED COUPLINGS FROM MANUFACTURER TO PERFORM NECESSARY TESTING	12
APPENDIX B UNITS OF MEASUREMENT	13
APPENDIX C APPROVAL MARKS	14



I INTRODUCTION

1.1 Purpose

This standard states FM Approval requirements for couplings used in drain, waste, or vent, storm and sanitary systems.

1.2 Scope

1.2.1 This standard is used to evaluate couplings for their intended application of long-term connection to hubless cast iron soil pipe both above and below ground.

1.2.2 There shall be two classes of couplings covered by this standard:

Class I - Industrial/Commercial and Residential
15 psi (105 kPa) Rated Working Pressure

Class II - Residential up to Two Story Buildings
8 psi (55 kPa) Rated Working Pressure

1.3 Basis for FM Approval

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

1.3.1 Examination and tests on production samples shall be performed to evaluate:

- the suitability of the product;
- the proper operation and 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.

1.3.2 An examination of the manufacturing facilities and audit of quality control procedures shall be made to evaluate the manufacturer's ability to produce the product which is examined and tested, and the marking procedures used to identify the product. These examinations are repeated as part of FM Approvals' Product Follow-Up Program.

1.4 Basis for Continued Approval

Continued Approval is based upon:

- production or availability of the product as currently Approved;
- the continued use of acceptable quality control procedures;
- satisfactory field experience;
- compliance with the terms stipulated in the Approval Agreement; and
- re-examination of production samples for continued conformity to requirements.