

Approval Standard

for

Post-Indicator-Valve-Assembly

Class Number 1111

Revised March 1973

11/11/2020 11:11:11 AM

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.

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



TABLE OF CONTENTS

I INTRODUCTION	1
II GENERAL REQUIREMENTS	1
2.1 Glossary	1
2.2 Instructional Manual	1
2.3 Marketing	1
2.4 Markings	1
2.5 Sizes	2
2.6 Rated Working Pressure	2
2.7 Factory Tests	2
III DESIGN	2
3.1 Waterway	2
3.2 Orientation	2
3.3 Visibility	2
3.4 Design Factors of Safety	3
3.5 Water Hammer	3
3.6 Operation	3
3.7 Ease of Operation	3
3.8 Serviceability	3
3.9 Impact Resistance (Shock Loading)	3
3.10 Friction Loss	3
3.11 Locking	4
3.12 Seat Leakage	4
3.13 Materials	4
3.14 Post Design	4
IV TESTS	4
4.1 General	4
4.2 Visibility	4
4.3 Water Hammer	5
4.4 Loss of Power Transmission Control	5
4.5 Hydrostatic Test	5
4.6 Seat Leakage	5
4.5 Impact Resistance	5
4.8 Durability	5
4.9 Friction Loss	6
4.10 Stem Seal	6
4.11 Other	6

