

Approval Standard for Dry Pipe Valves

Class Number 1021

November 1973

©2002 FM Approvals LLC. All rights reserved.

 **Documents**
Document Sharing Hub

Copyright FM Approvals
Provided by IHS Markit under license with FMRC
No reproduction or networking permitted without license from IHS

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 DESCRIPTION	1
2.1 Description	1
2.2 Markings	1
2.3 Sizes	2
2.4 Rated Working Pressure	2
2.5 End Connections	2
III DESIGN	2
3.1 General	2
3.2 Operation	2
3.3 Orientation and Parts Removal	3
3.4 Serviceability	3
3.5 Materials	3
3.6 Friction Loss	3
3.7 Performance	3
3.8 Clearances	4
3.9 Trim Equipment	4
3.10 Intermediate Chamber	5
3.11 Auxiliary Equipment	5
IV TESTS — DRY PIPE VALVES	5
4.1 Operational Tests	5
4.2 Friction Loss	5
4.3 Strength of Clapper Latch	6
4.4 Strength of Clapper	6
4.5 Hydrostatic Test	6
V TESTS — RUBBER FACINGS	6
5.1 General	6
5.2 Water Absorption	6
5.3 Hardness	6
5.4 Aging	7
5.5 Adhesion	7
APPENDIX APPROVAL MARKS	8