



Examination Standard for Indicating Valves (Butterfly or Ball Type)

Class Number 1112

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Foreword

This standard is 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 standard is to present the criteria for examination of various types of products and services.

Examination in accordance with this standard shall demonstrate compliance and verify that quality control in manufacturing shall ensure a consistent and reliable product.

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1. INTRODUCTION

1.1 Purpose

- 1.1.1 This standard states testing and certification requirements for manually operated indicating valves that control the water supply to a fire protection system.
- 1.1.2 Testing and certification criteria may include, but are not limited to, performance requirements, marking requirements, examination of manufacturing facility(ies), audit of quality assurance procedures, and a surveillance audit program.

1.2 Scope

- 1.2.1 This standard encompasses the design and performance requirements for indicating valves for their intended application of long-term water flow control. Indicating valves are usually installed above ground and indoors. They are constructed so that an informed observer can visually determine the position of the valve ball or disc indicating if the valve is open or closed.
- 1.2.2 This standard encompasses the design and performance requirements for indicating valves in the following sizes: 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 4, 5, 6, 8, 10 and 12 in. nominal pipe sizes (NPS) and equivalent metric sizes. Other sizes will be evaluated on a case-by-case basis.
- 1.2.3 This standard defines the requirements for indicating valves in either butterfly or ball valve configurations. Typical end connections for butterfly valves are: grooved end, lug style, wafer style, flanged or threaded. Typical end connections for ball valves are: grooved end and threaded. Other styles of end connection shall be evaluated on a case-by-case basis.
- 1.2.4 This standards is intended to verify that the product described will meet stated conditions of performance, safety, and quality useful to the ends of property conservation.

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 indicating valves for the purpose of obtaining certification. Indicating valves having characteristics not anticipated by this standard may be certified if performance equal, or superior, to that required by this standard is demonstrated.

1.4 Basis for Certification

Certification is based upon satisfactory evaluation of the product and the manufacturer in the following 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 for certification; 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 shall be made to evaluate the manufacturer's ability to consistently produce the product which was examined and tested. Subsequent surveillance may be required by the certification agency in accordance with the certification scheme to ensure ongoing compliance.