ISO 6182-12:2019 (E)

Fire protection — Automatic sprinkler systems — Part 12: Requirements and test methods for grooved-end components for steel pipe systems

Contents

Foreword

1 Scope

2 Normative references

3 Terms, definitions and abbreviated terms

3.1 Terms and definitions
3.2 Abbreviated terms

4 Product consistency

5 Product assembly

6 Requirements

6.1 Grooved-end dimensions
6.2 Minimum pipe wall thickness
6.3 Mechanical coupling housing
6.4 Pressure-responsive gasket
6.5 Bolts
6.6 Nuts
6.7 Hinge pins
6.8 Flexible coupling
6.9 Vacuum (see 7.2)
6.10 Air leakage (see 7.3)
6.11 Low-temperature exposure (see 7.4)
6.12 Heat aging (see 7.5)
6.13 Hydrostatic pressure (see 7.6)
6.14 Bending moment (see 7.7)
6.15 Gasket material evaluation
6.15.1 Compression set
6.15.2 Tensile strength and elongation
6.16 Fire resistance (see 7.8)
6.17 Rated working pressure
6.18 Nominal sizes

7 Test methods

7.1 Test conditions and assembly
7.1.1 Test conditions
7.1.2 Test assembly
7.2 Vacuum (see 6.9)
7.3 Air leakage (see 6.10)
7.4 Low-temperature exposure (see 6.11)
7.5 Heat aging (see 6.12)
7.6 Hydrostatic pressure test (see 6.13)
7.7 Bending moment (see 6.14)
7.7.1 Test method 1
7.7.2 Test method 2
7.8 Fire resistance (see 6.16)

8 Markings

8.1 Housing markings
8.2 Gasket markings

8.3 Manufacturer's installation instructions
Annex A (informative) Roll grooved dimensions and tolerances
A.1 Typical roll grooved dimensions and tolerances
Annex B (informative) Cut grooved dimensions and tolerances
B.1 Typical cut grooved dimensions and tolerances
Annex C (informative) Cast groove dimensions and tolerances
C.1 Typical cast groove dimensions and tolerances

Page count: 23