

# ISO 6182-14:2019 (E)

## Fire protection — Automatic nozzle systems — Part 14: Requirements and test methods for water spray nozzles

---

### Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Product consistency
5	Product assembly
5.1	Design features
5.2	Materials of construction
6	Requirements
6.1	Dimensions
6.1.1	Orifice size
6.1.2	Nominal thread sizes
6.2	Flow constant (see 7.2)
6.3	Spray angle (see 7.3)
6.4	Stress corrosion (see 7.4)
6.4.1	Stress corrosion for copper alloy parts (see 7.4.1)
6.4.2	Stress corrosion for stainless steel parts (see 7.4.2)
6.5	Coated nozzles (see 7.5)
6.5.1	Evaporation of wax and bitumen (see 7.5.1)
6.5.2	Resistance to low temperatures (see 7.5.2)
6.5.3	Resistance to high temperature (see 7.5.3)
6.6	Resistance to heat (see 7.6)
6.7	Vibration (see 7.7)
6.8	Impact (see 7.8)
6.9	Strength of water dispersing components (see 7.9)
7	Methods of test
7.1	Preliminary examination
7.1.1	Visual examination
7.2	Water flow constant (see 6.2)
7.3	Spray angle tests (see 6.3)
7.4	Stress corrosion tests (see 6.4)
7.4.1	Stress corrosion test with aqueous ammonia solution (see 6.4.1)
7.4.2	Stress corrosion test with a boiling magnesium chloride solution (see 6.4.2)
7.5	Tests for nozzle coatings (see 6.5)
7.5.1	Evaporation test (see 6.5.1)
7.5.2	Low-temperature test (see 6.5.2)
7.5.3	High-temperature test (see 6.5.3)
7.6	Resistance to heat test (see 6.6)
7.7	Vibration test (see 6.7)
7.8	Impact test (see 6.8)
7.9	Strength of water dispersing components test (see 6.9)
8	Marking
8.1	Nozzles
9	Manufacturer's installation instructions
Annex A	(normative) Tolerances