

# NFPA 86

## Standard for Ovens and Furnaces

2007 Edition

**Reference:** 3.3.64.9

**F.I. No.:** 86-07-1

**Question 1:** Is a listed safety shutoff valve with proof of closure switch compliant with NFPA 86, when the proof of closure switch is enclosed under a cover plate affixed with standard head screws?

**Answer:** Yes.

**Question 2:** Is a listed safety shutoff valve with proof of closure switch compliant with NFPA 86 when its proof of closure switch is capable of being replaced in the field?

**Answer:** Yes.

**Committee Statement:** Some safety shutoff valves required by NFPA 86 are to include proof of closure switches. The definition of “Proof of Closure Switch” includes “non-field adjustable” as one characteristic of the switch. Some listed safety shutoff valves have proof of closure switches that can be accessed by removing a cover plate affixed with standard head screws. Some “listed” safety shutoff valves have proof of closure switches that can be replaced and adjusted as part of field servicing activities. In each case, the proof of closure switch is not accessible to an operator for field adjustment, but the proof of closure switch can be accessed by deliberate disassembly of the valve for service activity. In accordance with the standard, all safety devices require periodic testing and maintenance in accordance with published manufacturer’s instructions.

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# NFPA 86

## Ovens and Furnaces

2007 Edition

**Reference:** 6.2

**F.I. 90-1**

**Background:** Consider gas fired batch ovens that are representative of those used in the automotive refinishing industry. These ovens typically contain flammable and combustible liquids and flammable vapors, are without recirculation of air (all of the supply air is exhausted), and have relatively low operating temperatures [maximum operating temperatures limited to approximately 80°C (176°F)].

**Question 1:** For an indirect fired burner, are explosion vents required?

**Answer:** Yes.

**Question 2:** For a direct fired burner, are explosion vents required?

**Answer:** Yes.

**Question 3:** If explosion vents are required, is the preferred ratio 1:15?

**Answer:** Yes.

**Issue Edition:** 1990

**Reference:** 2-2.3

**Issue Date:** October 25, 1991

**Effective Date:** November 14, 1991