



# FDNY

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**Kam Chan P. E.**

Lead Engineer / Administrative Engineer of Technology Management  
Bureau of Fire Prevention

## **CERTIFICATE OF APPROVAL # 5859** **THIS CERTIFICATE IS REVOCABLE, NOT TRANSFERABLE** **AND EXPIRES ON February 27, 2023**

February 28, 2020

Ms. Tina Mott  
Engineer  
Elkhart Brass Mfg. Inc.  
1302 W. Beardsley Ave.  
Elkhart, IN 46514

RE: Certificate of Approval #5859  
F.P. Index#: 1910044B

FPIMS#: 39311444

By order of Fire Commissioner, Daniel A. Nigro and pursuant to Section 112 of the New York City Fire Code, the following equipment or material may be acceptable for use provided the conditions outlined below are in full compliance.

**Manufacturer:** Elkhart Brass Mfg, Inc.

**Product:** 2.5-inch Pressure Reducing Valves

**Model Number:**

<i>Valve Model</i>	<i>Configuration</i>	<i>Inlet</i>	<i>Outlet</i>
URFA-20S-2.5	In-Line	Female 2½ NPT	2 ½ Female NPT
URFA-20-2.5	Angle Body	Female 2½ NPT	2 ½ Female NPT
URFA-25-2.5	Angle Body	Female 2½ NPT	Male Hose

**Pertinent Code** New York City Fire Code Section 901.4.5 and  
Fire Department rule 3 RCNY Section 905-01

**Prescribed Tests:** UL 1468, UL 38

**Laboratory:** Underwriters Laboratories

**Report:** Ex 1161 Issued: 04/21/1988 Revised: 12/02/2005

**Description:** The Elkhart URFA 2.5" pressure reducing valves are field adjustable factory preset pressure reducing valves operated automatically by inner hydraulic controls. They feature manual valve open and close, as well as pressure adjustment which require low torque to change. Inlet pressure up to 400 psi is controlled under all flow and no-flow conditions. Pressure reducing valves are intended to reduce the downstream water pressure under both flow (residual) and no-flow (static) conditions for automatic sprinkler systems.

## **Conditions of Approval**

- 1. The pressure reducing valves shall not be installed for use as standpipe hose outlet valves.** The pressure reducing valves shall comply with all applicable requirements (including installation, operation and maintenance) of the New York City Construction Codes (including the Building Code), the New York City Fire Code, and referenced standards NFPA 13 (2007 edition) "Installation of Sprinkler Systems", as modified in Appendix Q102 of the Building Code, and NFPA 25 (2011 edition) "Inspection, Testing and Maintenance of Water-based Fire Protection Systems". In addition, the manufacturer's manual for installation, operation and maintenance, and listing requirements and limitations shall be complied with.
- 2. The pressure reducing valves shall not be installed in a location where the inlet pressure exceeds the rated inlet pressure for these valves.** Anticipated pressure for the location shall be checked/ calculated before a pressure reducing valve is installed.
- 3. The pressure reducing valves shall not be set to provide higher than the maximum residual pressure allowed, and shall not be set to lower than the minimum residual pressure allowed, at the location being installed.**
- 4. The hose connection threads shall be compatible with threads used by the New York City Fire Department.**
- 5. The pressure reducing valves shall be installed with settings adjusted for outlet pressures to provide the required water flow rate in accordance with the manufacturer's installation and operating instructions.** Such outlet pressures shall meet the requirements of the Building Code and the referenced standards of NFPA 13 (as modified by the Building Code).
- 6. After installation, each pressure reducing valve shall be tested to verify that the installation is correct, that the device is operating properly under flow and no-flow conditions, that the device properly regulates outlet pressure at both maximum and normal inlet pressure conditions, and that the inlet and outlet pressures (static and residual) and flow at the device are in accordance with the design criteria.** Pressures and flow rates of the test shall be recorded.
- 7. The pressure reducing valves installed shall be periodically inspected, tested and otherwise maintained in accordance with all applicable requirements of New York City Fire Code and Fire Department rules, New York City Building Code and NFPA 25, including a 5-year full**

flow test with comparison to previous test results, an annual partial flow test to move the valve from its seat, a quarterly inspection for sprinkler pressure reducing valves to verify such valves are in the open position, not leaking, maintaining downstream pressures in accordance with the design criteria and in good condition (with hand wheel installed and unbroken), and an annual inspection for pressure reducing valves to verify such valves with no hand wheel broken or missing, outlet hose threads not damaged, no leaks present, and no reducer/ cap missing. If the valve fails to perform as intended, it shall be replaced.

8. Installation, inspection, testing and maintenance of pressure reducing valves shall be conducted by a licensed master plumber or a licensed master fire suppression piping contractor, when required.
9. Certificate of Approval number shall be plainly and permanently stamped or otherwise fixed upon each product by the manufacturer or the local representative of the manufacturer.
10. The valves shall be marked with information in accordance with UL 1468.
11. The equipment's technology does not violate any patent, trade name, trade secret or other intellectual right.
12. Fire Department Certificate of Approval does not constitute an endorsement or recommendation of your product by the Fire Department, but is a certification that your product is acceptable as of the date of issuance.
13. The Fire Department may withdraw this approval at any time in the event there is a reasonable doubt that the product does not operate or perform as required by code, the conditions of this resolution or as represented in your application.
14. Any end user who fails to comply with the conditions as outlined in this approval will be subject to enforcement action.

Any change in company name or ownership, material of construction, manufacture facility, product name, design or model number of any product included on this certificate must be immediately reported to this Department in writing.

Very truly yours,



Kam Chan, P.E.

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