

Victaulic® Electric/Pneumatic Double Interlock Actuator

Series 767



1.0 PRODUCT DESCRIPTION

Function

- A double interlock electric pneumatic actuator
 - Low pressure actuator designed to trigger systems using the Series 769N FireLock NXT Preaction valve, refer to [publication 31.82](#)
 - Built in 24 V DC normally closed solenoid with integrated coil monitoring

Maximum Working Pressure

- Up to 300 psi/2065 kPa/20 bar

Application

- Used in fire protection systems that require two independent events before valve operation.
Examples:
 - Refrigerated storage
 - Data centers
 - Hospital operating rooms

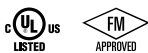
Connections

- Water inlets: ½"/15 mm and ¼"/7 mm
- Pneumatic inlet: ¼"/7 mm
- Drain outlets: ½"/15 mm and ¼"/7 mm
- Conduit connection: ½"/15 mm with 12"/300 mm wire extensions

NOTE:

- The Series 767 may be provided with male or female NPT threads for trim requirements.

2.0 CERTIFICATION/LISTINGS



ALWAYS REFER TO ANY NOTIFICATIONS AT THE END OF THIS DOCUMENT REGARDING PRODUCT INSTALLATION, MAINTENANCE OR SUPPORT.

3.0 SPECIFICATIONS – MATERIAL

Actuator

Lower Chamber: Durable Cast Bronze UNS C36000

Middle and Upper Chambers: 360 Brass

Internal Components: 360 Brass

Seals: EPDM

Fasteners: 316 Series Stainless Steel

Springs: Stainless Steel

Strainer: 360 Brass and 300 Series Stainless Steel

Eyelets: 360 Brass

O-ring: Buna

Diaphragms: EPDM

Solenoid

Electrical: 24V DC Normally Closed

Body: Plastic

Spring: 300 Series Stainless Steel

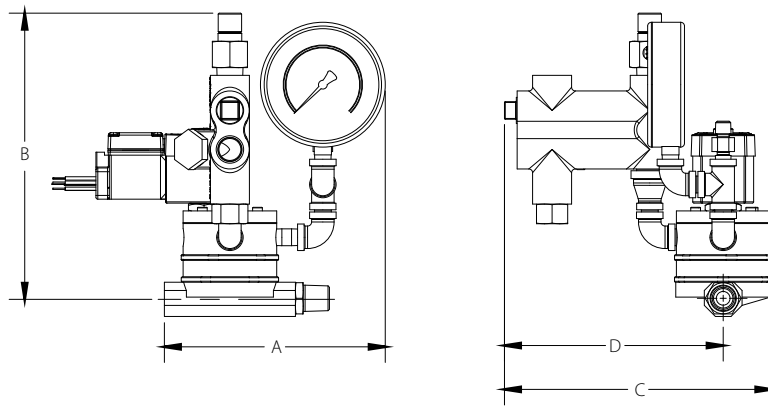
Seal: NBR

Diaphragm: NBR

Wiring: 24 VDC

4.0 DIMENSIONS

Series 767



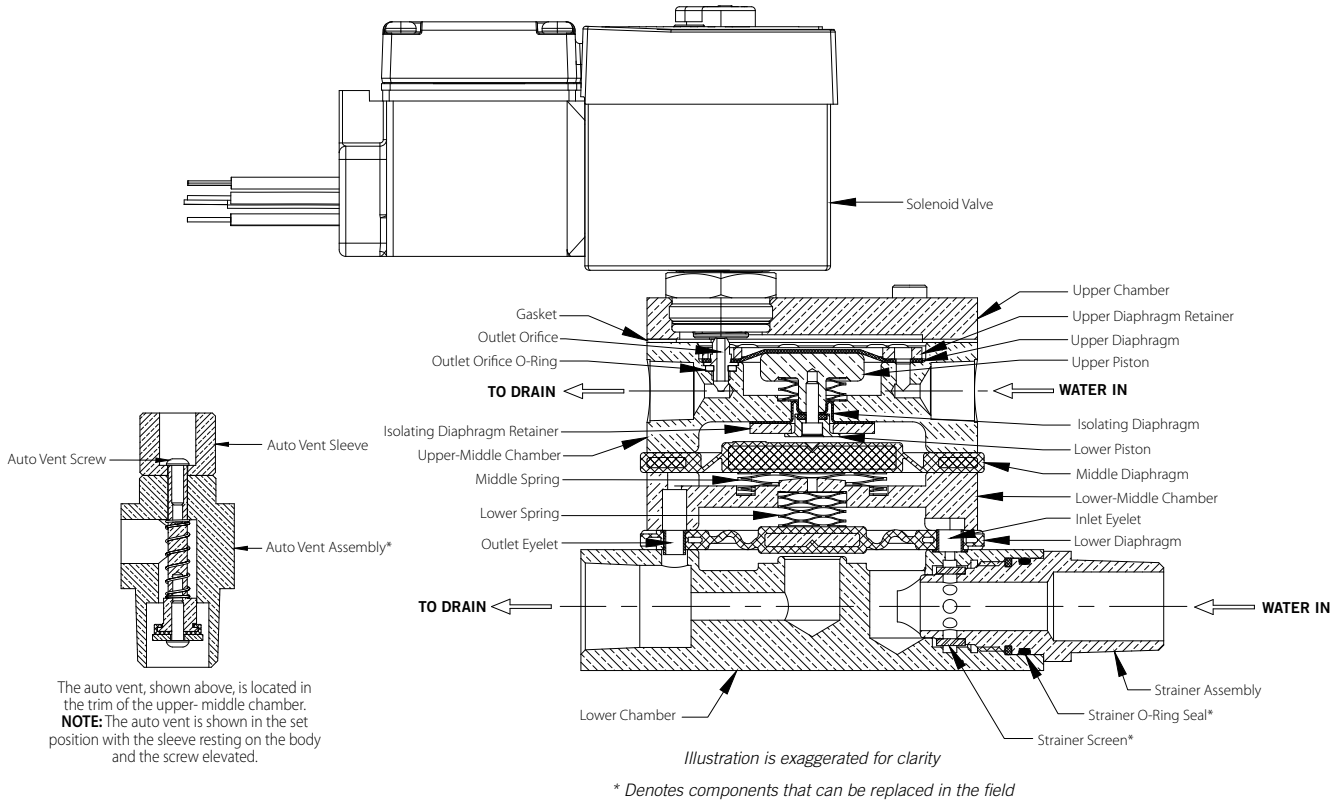
Series 767 shown with Air Manifold* (*Air Manifold not included)

Size		Dimensions				Weight
Nominal inches DN	Actual Outside Diameter inches mm	A inches mm	B inches mm	C inches mm	D inches mm	Approximate (Each) lb kg
½ DN15	0.840 21.3	7.13 180	9.25 233	8.63 218	7.13 179	16.0 7.3

5.0 PERFORMANCE

Series 767

Size		Performance			
Nominal inches	Actual Outside Diameter inches mm	Voltage Volts	Power Rating Watts	Resistance Ohms	Current Amps
1/2 DN15	0.840 21.3	24.0	9.0	64	0.375



- The Series 767 Electric/Pneumatic Actuator is a single unit device used in the actuation of Series 769N Preaction Valves with double-interlock electric/pneumatic trim
- When set, the Series 767 Actuator will prevent the diaphragm water pressure from venting to drain
- Chambers within the actuator independently control the actuation
 - These events are independent for operation
- When system pneumatic pressure decays to 7 psi (45 kPa), the auto vent’s compression spring exerts a force greater than the pneumatic pressure. The auto vent opens, and all pneumatic pressure evacuates
 - During this condition, the Series 767 will not operate
- With an electrical detection event, the solenoid on the upper chamber will activate and cause the upper chamber’s water pressure to release.
 - The Series 767 will not operate with this event alone
- The Series 767 will actuate only with an electrical detection and loss of system pneumatic pressure
- Water flow releases water pressure from the water control valve’s diaphragm and allows the water control valve’s clapper to open flowing water into the sprinkler system

6.0 NOTIFICATIONS

WARNING



- Read and understand all instructions before attempting to install any Victaulic products.
- Always verify that the piping system has been completely depressurized and drained immediately prior to installation, removal, adjustment, or maintenance of any Victaulic products.
- Wear safety glasses, hardhat, and foot protection.

Failure to follow these instructions could result in death or serious personal injury and property damage.

- These products shall be used only in fire protection systems that are designed and installed in accordance with current, applicable National Fire Protection Association (NFPA) standards, or equivalent standards, and in accordance with applicable building and fire codes. These standards and codes contain important information regarding protection of systems from freezing temperatures, corrosion, mechanical damage, etc.
- The installer shall understand the use of this product and why it was specified for the particular application.
- The installer shall understand common industry safety standards and potential consequences of improper product installation.
- It is the system designer's responsibility to verify suitability of materials for use with the intended fluid media within the piping system and external environment.
- The material specifier shall evaluate the effect of chemical composition, pH level, operating temperature, chloride level, oxygen level, and flow rate on materials to confirm system life will be acceptable for the intended service.

Failure to follow installation requirements and local and national codes and standards could compromise system integrity or cause system failure, resulting in death or serious personal injury and property damage.

7.0 REFERENCE MATERIALS

<p>SOLENOID</p>	
<p>SURVEILLANCE SWITCH</p>	<p>SWITCH FUNCTION: SWITCH OPEN WHEN COIL IN PLACE AND INSTALLED CORRECTLY. SWITCH CLOSED WHEN COIL REMOVED/ NOT INSTALLED CORRECTLY.</p>

[31.82: Victaulic® Series 769N FireLock NXT™ Preaction Trim](#)

[30.85: Victaulic® Series 769 FireLock NXT™ Actuated Valve with LPCB Approved Preaction Trim](#)

[I-100: Field Installation Handbook](#)

[I-769N.Preaction/EPA: Victaulic® Series 769N FireLock NXT™ Actuated Valve with Preaction Trim](#)

User Responsibility for Product Selection and Suitability

Each user bears final responsibility for determining the suitability of Victaulic products for their end-use application, in accordance with industry standards, project specifications, and Victaulic’s published performance, maintenance, and safety data, as well as all warnings and installation instructions. Nothing in this or any other document, nor any verbal recommendation, advice, or opinion from any Victaulic employee, shall be deemed to alter, vary, supersede, or waive any provision of Victaulic Company’s standard conditions of sale, warranty, installation instructions, or this disclaimer.

Installation

Always refer to and follow the [Victaulic Installation Handbook](#) or installation instructions for the product you are installing. Handbooks are included with each shipment of Victaulic products, providing complete installation and assembly data, and are available in PDF format on our website at victaulic.com.

Warranty

Refer to the Warranty section of the current Price List or contact Victaulic for details.

Intellectual Property Rights

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Note

All products bearing a Victaulic trademark are manufactured by Victaulic or to Victaulic specifications. All products are to be installed only in accordance with the applicable Victaulic installation instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.