Victaulic Vortex™
Fire Suppression System

SERIES 953 ½ MS (MACHINE SPACE) EMMITTER FOR USE WITH VICTAULIC VORTEX 1000 AND VICTAULIC VORTEX 1500 FIRE SUPPRESSION SYSTEMS

The Victaulic Vortex fire suppression system is a dual-fluid hybrid fire suppression system. The homogeneous suspension of inert gas mixed with ultra-fine droplets of water mist protects enclosures with two extinguishment mechanisms that are occurring simultaneously: flame temperature cooling and lowering of the ambient oxygen level.

PRODUCT DESCRIPTION

The Series 953 ½ MS (Machine Space) Emitter is a Victaulic-patented device designed to distribute the hybrid water and nitrogen mixture to the hazard at a high velocity low pressure delivery. The water and nitrogen are mixed at the emitter and distributed as a homogenous suspension with great momentum. Using proprietary supersonic atomization technology, the emitter atomizes the water to <10μm forming a dense homogeneous suspension of nitrogen and water when discharged as total flooding fire suppression system.

Emitter Kit Includes:

- ¾/19 mm NPT strainer, 100 mesh
- ¾/19 mm NPT 1.06 GPM/4.0 LPM flow cartridge
- ¾/19 mm NPT fittings
- ¾/19 mm NPT to ⅜/9.5 mm copper tube compression fittings
- ⅜/6.4 mm NPT x ⅜/9.5 mm 90° copper tube compression fitting

NOTE: ⅜/9.5 mm tubing is not included

MATERIAL SPECIFICATIONS

Body (Foil, Water Jacket): UNS C36000 or UNS S316000 Stainless or Polyvinylidene Fluoride (PVDF) Plastic with Teflon*

* Teflon is a registered trademark of DuPont Co.

Finish: Plain Brass or Stainless Steel. Contact Victaulic for coatings other than standard options noted.

Orifice Size: ½/15mm

Nitrogen Flow: 150 standard ft³ per minute / 45.7 standard m³ per minute

Water Flow: 1.06 GPM / 4.01 LPM

Orientation: Pendent for machinery spaces, pendent or sidewall for turbine enclosures - avoid direct impinging on casing

Nitrogen Inlet: ¾/19mm Male NPT

Water Inlet: ¼/6.4mm Female NPT

Temperature Rating: None, open

JOB/OWNER

System No. ______________________________ Submitted By ____________________________ Spec Sect _______________ Para ___________
Location ________________________________ Date  ___________________________________
Approved _______________________________

ENGINEER

Spec Sect _______________ Para ___________
Approved _______________________________
Date  ___________________________________
**Victaulic Vortex™ Fire Suppression System**

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**DIMENSIONS**

![Image of dimensions](image)

**INSTALLATION**

Reference should always be made to the applicable I-VORTEX Victaulic Design and Installation Manual for the product you are installing. Manuals are included with each shipment of Victaulic products for complete installation and assembly data.

**WARRANTY**

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

**NOTE**

This product shall be manufactured by Victaulic or to Victaulic specifications. All products to be installed in accordance with current Victaulic installation/assembly instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.

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For complete contact information, visit [www.victaulic.com](http://www.victaulic.com)