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
- ¼"/19 mm NPT fittings
- ¾"/19 mm NPT to ¼"/9.5 mm copper tube compression fittings
- ¼"/6.4 mm NPT x ¾"/9.5 mm 90° copper tube compression fitting

**NOTE:** ¾"/9.5 mm tubing is not included

**MATERIAL SPECIFICATIONS**

**Body (Foil, Water Jacket):** UNS C36000 or UNS S31600 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

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**JOB/OWNER**

System No. ______________________________ Submitted By ____________________________ Spec Sect _______________ Para ___________

Location ________________________________ Date  ___________________________________

Approved _______________________________

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**CONTRACTOR**

Submitted By ____________________________ Date ____________________________

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**ENGINEER**

Spec Sect __________________ Para ___________

Approved ____________________________ Date ____________________________
**Victaulic Vortex™ Fire Suppression System**

SERIES 953 ½ MS (MACHINE SPACE) Emitter for use with Victaulic Vortex 1000 and Victaulic Vortex 1500 Fire Suppression Systems

**Dimensions**

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.

**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.