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 ¼”/9.5 mm copper tube compression fittings
- ¼”/6.4 mm NPT x ¼”/9.5 mm 90° copper tube compression fitting

**NOTE:** ¼”/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  ___________________________________

**CONTRACTOR**

Approved _______________________________

Date  ___________________________________

**ENGINEER**
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

WARRANTY

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.

NOTE

For complete contact information, visit www.victaulic.com