















# Victaulic Vortex™ Fire Suppression System







PVDF Emitte

Standard Emitter

also applied for and granted.

SERIES 953 and Series 954 Hybrid Emitters Patent # 7,721,811 - High velocity low pressure emitters . Foreign patents



## **Product Overview**

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.

# Description

The 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:**

(Class B)

19 mm / ¾" NPT strainer, 100 mesh 19mm / ¾" NPT 0.26 GPM/0.98 LPM Flow cartridge (Class A/E) 19 mm / ¾" NPT 1.06 GPM/4.0 LPM flow cartridge 19 mm / ¾" NPT fittings 19 mm / ¾" NPT to 9.5 mm / ³/8" copper tube compression fittings 6.4 mm / ¹/4" NPT x 9.5 mm / ³/8" 90° copper tube compression fitting

NOTE: 0.5 mm / 3/8" tubing is not included

#### APPROVALS

Performance

Certification FM Approved (Class B)

Hydraulic NFPA770 Hybrid Water Mist

Software Compliant UL Verified

### FEATURES & BENEFITS

- Large flow orifices
- Not prone to blockage
- Pendant or horizontal orientation
- Made from corrosion resistant materials

#### **APPLICATIONS**

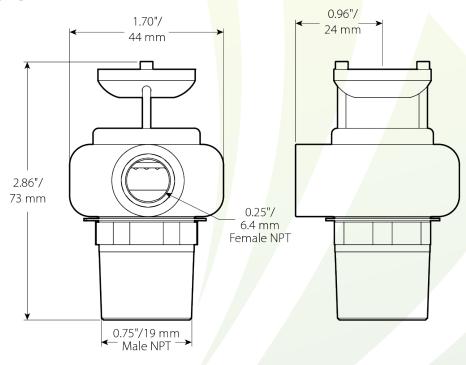
- Total flood applications
- Local Applications
- Transformers
- Generator Rooms
- Turbines
- Hydraulic rooms
- Pickling Lines
- Extinguishment of 'Class B' hydrocarbons
- Data Centres/File Server Rooms/ MCC Rooms

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:	15mm / ½" (Class B), 15.87mm/5/8" (Class A/E)
Nitrogen Flow:	½" Class B Emiter 145 SCFM 44.2m3/m3 5/8" Class A/E Emitter 230 SCFM/70m3/m
Water Flow:	1.06 GPM /4.01 LPM (Class B), 0.26 GPM/0.98 LPM Flow Cartridge (Class A/E)
Orientation:	Pendent for machinery spaces, pendent or sidewall for turbine enclosures - avoid direct impinging on casing
Nitrogen Inlet:	19mm <mark>/ ¾" M</mark> ale NPT
Water Inlet:	6.4mm / ¼" Female NPT
Temperature Rating:	None, open

#### Installation

Reference should always be made to the applicable I-VORTEX-1500\_Rev\_F 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.

# **Dimensions**



#### 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.