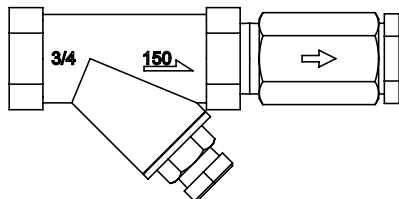


# Victaulic Vortex™ Hybrid Fire Extinguishing System

## Flow Cartridge and Strainer Kit



### 1.0 PRODUCT DESCRIPTION

#### Application

- The flow cartridge and strainer kit are used to regulate the water flow rate through an emitter over a wide range of water inlet pressures
- The flow cartridge and strainer kit include a 100 mesh Y-strainer, an automatic flow regulating valve, a 3/4" male NPT closed nipple, and a reducing bushing 3/4" Male NPT x 1/4" female NPT

#### Operating Temperature

- 40°F to 130°F/4°C to 54°C.

#### Working Pressure

- Automatic Flow Regulating Valve:
  - Differential Pressure: 30 – 145 psi/207 – 1000 kPa
- Flow Cartridge and Strainer Kit:
  - Max Pressure: 150 psi/1034 kPa

### 2.0 CERTIFICATION/LISTINGS

- Product designed and manufactured under the Victaulic Quality Management System, as certified by LPCB in accordance with ISO-9001:2015.
- Flow Cartridge and Strainer Kit has been evaluated and Approved by FM as components of the Victaulic Vortex System.

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

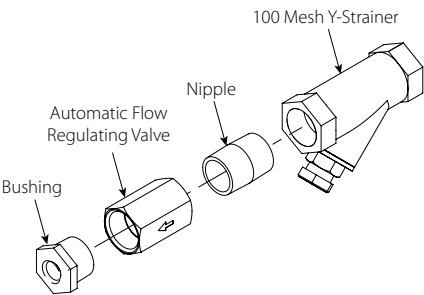
3.0 SPECIFICATIONS – MATERIAL

**Automatic Flow Regulating Valve:** Brass or Type 304 stainless steel

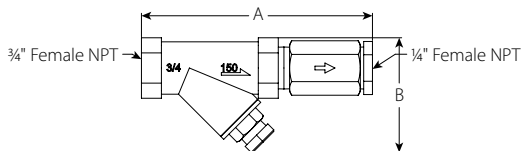
**Strainer:** Bronze or Type 304 stainless steel

**Close Nipple:** Brass or Type 304 stainless steel

**Reducing Bushing:** Brass or Type 304 stainless steel



4.0 DIMENSIONS



Size		Dimensions		Weight
Nominal inches DN	Actual Outside Diameter inches mm	End to End A inches mm	B inches mm	Approximate (Each) lb kg
3/4" x 1/4" DN20 x DN5	1.050 x 0.540 26.7 x 13.7	6.25 159	3.00 76	1.7 0.8





5.0 PERFORMANCE


Series 953 Flow Cartridge and Strainer Kit

Flow Characteristics

Flow Rate GPM	Accuracy ± GPM	Flow Rate LPM	Accuracy ± LPM
0.13	0.05	0.49	0.19
0.26	0.05	0.98	0.19
0.53	0.05	2.01	0.19
0.79	0.10	2.99	0.38
1.06	0.10	4.01	0.38
1.59	0.13	6.02	0.49
2.11	0.13	7.99	0.49
4.23	0.32	16.01	1.21

6.0 NOTIFICATIONS



 **WARNING**

- Always refer to the applicable Victaulic Vortex™ Hybrid Fire Extinguishing System General Design, Installation, and Maintenance Manual before specifying or installing any Victaulic Vortex™ products.
- Wear safety glasses, hardhat, and foot protection during installation and maintenance of a Victaulic Vortex™ Hybrid Fire Extinguishing System.
- It is the customer's responsibility to verify hybrid emitter material compatibility and that the proper size hybrid emitter and water flow control cartridge are specified in the system design.

Failure to follow instructions and warnings can cause system failure, resulting in death or serious personal injury and property damage.

7.0 REFERENCE MATERIALS

- [70.03: Victaulic Vortex™ Hybrid Fire Extinguishing System - Series 951 Panels](#)
- [70.05: Victaulic Vortex™ Hybrid Fire Extinguishing System - Series 950 Water Tanks](#)
- [70.07: Victaulic Vortex™ Hybrid Fire Extinguishing System - Series 950 Releasing Manifold System](#)
- [70.12: Victaulic Vortex™ Hybrid Fire Extinguishing System - Series 953 and Series 954 Hybrid Emitters](#)

User Responsibility for Product Selection and Suitability

Each user bears final responsibility for making a determination as to the suitability of Victaulic products for a particular end-use application, in accordance with industry standards and project specifications, and the applicable building codes and related regulations as well as Victaulic performance, maintenance, safety, and warning 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, installation guide, or this disclaimer.

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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.

Installation

Reference should always be made to the Victaulic installation handbook or installation instructions of 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 [www.victaulic.com](#).

Warranty

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

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