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## 1.0 PRODUCT DESCRIPTION

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### Available Sizes

- 14 – 24"/DN350 – DN600

### Maximum Working Pressure

- Up to 300 psi/2068 kPa/21 bar

### Application

- Provides straight-through flow for lower pressure drop

### Pipe Material

- Carbon steel

### Pipe Preparation

- Roll grooved in accordance with [publication 25.09](#): Advanced Groove System (AGS) Roll Groove Specifications.

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## 2.0 CERTIFICATION/LISTINGS

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Product designed and manufactured under the Victaulic Quality Management System, as certified by LPCB in accordance with ISO-9001:2015.

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

### 3.0 SPECIFICATIONS – MATERIAL

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**Body (14 – 24"/DN350 – DN600):**

- Segmentally welded carbon steel, ANSI standard wall thickness, conforming to ASTM A53, Type E or S, Gr. B
- Orange coating

**End Cap (14 – 24"/DN350 – DN600):**

- Carbon steel T-bolt hinged closure, Class 300-TB

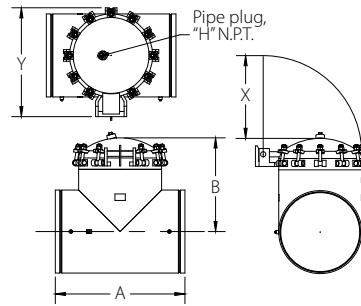
**Basket:** Stainless steel, Type 304, frame and mesh

- 14 – 16"/DN350 – DN400: 6 x 6 mesh (0.041" wire) with 0.126" opening
- 18 – 24"/DN450 – DN600: 4 x 4 mesh (0.047" wire) with 0.203" opening
- Optional: Other mesh sizes and materials available, contact Victaulic for details
- Optional: Magnets, particularly for lubricating oil service applications and others can be added at the factory. Contact Victaulic for details.

**Other:** Special requirements can often be met. Contact Victaulic with specific requirements for recommendations, availability and delivery.

## 4.0 DIMENSIONS

### Series W730 Tee Type Strainer



Size		Dimensions					Weight
Nominal inches DN	Actual Outside Diameter inches mm	A inches mm	B inches mm	X inches mm	Y inches mm	H inches mm	Approximate (Each) lb kg
14 DN350	14.000 355.6	22.00 559	17.63 448	12.00 305	17.70 450	2.00 51	300.0 136.1
16 DN400	16.000 406.4	24.00 610	19.06 484	12.75 324	20.50 521	2.00 51	350.0 158.8
18 DN450	18.000 457.0	31.00 787	23.56 598	14.50 368	23.30 592	2.00 51	400.0 181.4
20 DN500	20.000 508.0	34.50 876	26.12 663	16.00 406	25.50 648	2.00 51	565.0 256.3
24 DN600	24.000 610.0	40.00 1016	30.18 767	19.13 486	29.00 737	2.00 51	830.0 376.5

**NOTE**

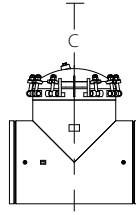
- Maximum differential pressure from inlet must not exceed 10 psi/69 kPa.

## 4.1 DIMENSIONS

### Series W730 Tee Type Strainer

#### Assembly Clearance

Recommended Minimum Clearance Required to Remove Strainer Basket



Size		Strainer Basket Clearance <sup>1</sup>
Nominal inches DN	Actual Outside Diameter inches mm	"C" Dimension inches mm
14 DN350	14.000 355.6	28.00 711
16 DN400	16.000 406.4	30.00 762
18 DN450	18.000 457.0	35.00 889
20 DN500	20.000 508.0	38.00 965
24 DN600	24.000 610.0	44.00 1118

<sup>1</sup> Measurement is from the center line to the top of the basket during removal

## 5.0 PERFORMANCE

### Series W730 Tee Type Strainer

Size		Maximum Working Pressure psi kPa
Nominal inches DN	Actual Outside Diameter inches mm	
14 DN350	14.000 355.6	300 2068
16 DN400	16.000 406.4	300 2068
18 DN450	18.000 457.0	300 2068
20 DN500	20.000 508.0	300 2068
24 DN600	24.000 610.0	300 2068

## 5.1 PERFORMANCE

C<sub>v</sub> values for flow of water at +60°F/+16°C are shown in the table below.

Formulas for C<sub>v</sub> Values:

$$\Delta P = \frac{Q^2}{C_v^2}$$

$$Q = C_v \times \sqrt{\Delta P}$$

**Where:**

Q = Flow (GPM)

ΔP = Pressure Drop (psi)

C<sub>v</sub> = Flow Coefficient

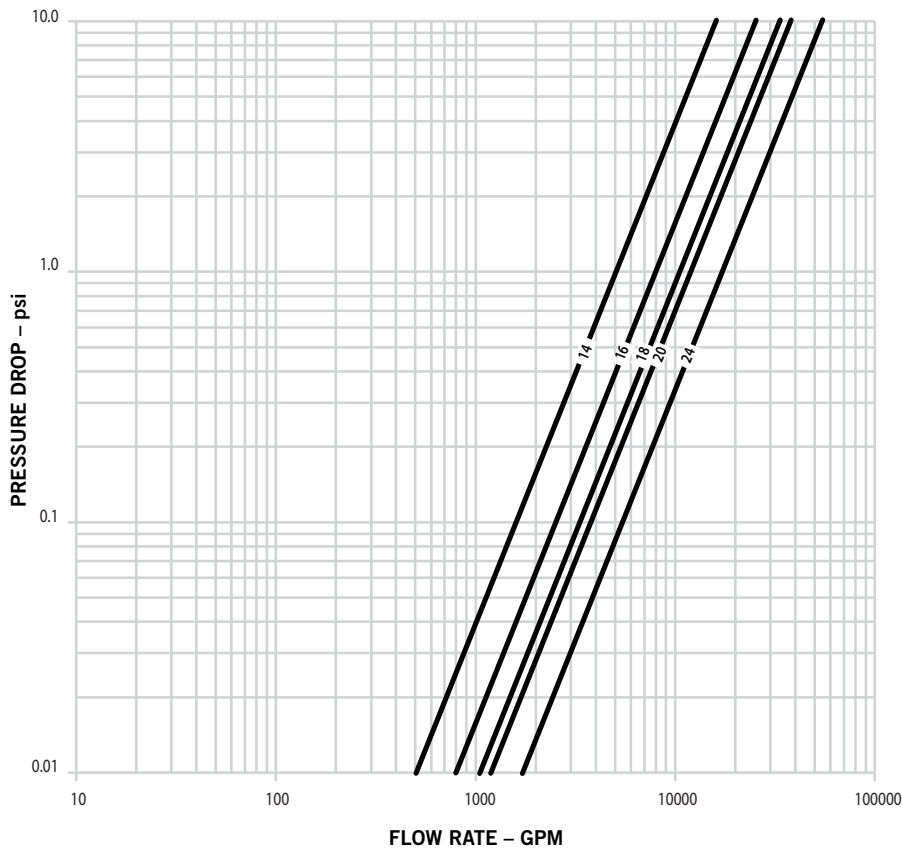
Size		C <sub>v</sub> Values
Nominal inches DN	Actual Outside Diameter inches mm	
14 DN350	14.000 355.6	5050
16 DN400	16.000 406.4	8000
18 DN450	18.000 457.0	10540
20 DN500	20.000 508.0	11960
24 DN600	24.000 610.0	17222

### Flow Characteristics

Flow characteristics are charted to the right and are based on standard 6 mesh in 14 – 16"/DN350 – DN400 sizes and 4 mesh in 18 – 24"/DN450 – DN600 sizes.

Flow may vary from these figures.

The chart below expresses the flow of water at 65°F/18°C through a clean strainer.



## 6.0 NOTIFICATIONS

### WARNING



- Read and understand all instructions before attempting to install, remove, adjust, or maintain any Victaulic piping products.
- Always verify that the piping system has been completely depressurized and drained immediately prior to installation, removal, adjustment, or maintenance of any Victaulic products.
- Wear safety glasses, hardhat, and foot protection.

Failure to follow these instructions could result in death or serious personal injury and property damage.

### WARNING

Victaulic AGS products use a patent-pending groove profile that requires the use of special AGS rolls. AGS products must not be used on pipe that has been grooved using standard grooving rolls.

Failure to use AGS products on AGS grooved pipe could result in serious personal injury, property damage, joint leakage or joint separation.

## 7.0 REFERENCE MATERIALS

[20.02: Victaulic® AGS Rigid Coupling Style W07](#)

[25.09: Advanced Groove System \(AGS\) Roll Groove Specifications](#)

[26.01: Victaulic Design Data](#)

[29.01: Victaulic Terms and Conditions of Sale](#)

[I-ENDCAP: Victaulic End Cap Installation Instructions](#)

### 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](http://www.victaulic.com).

### Warranty

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

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