

Victaulic **AGS™** Tee Type Strainer

Series W730



1.0 PRODUCT DESCRIPTION

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.

2.0 CERTIFICATION/LISTINGS

Product manufactured by Victaulic and/or certified suppliers in accordance with ISO-9001.

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

3.0 SPECIFICATIONS – MATERIAL

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

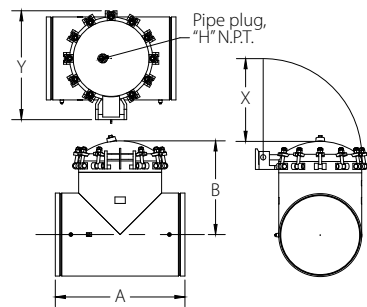
Basket: Stainless steel, Type 304, frame and mesh

- 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

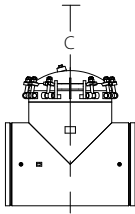
- Maximum differential pressure from inlet must not exceed 10 psi/69 kPa.

4.1 DIMENSIONS

Series W730 Tee Type Strainer

Assembly Clearance

Recommended Minimum Clearance Required to Remove Strainer Basket



Size		Strainer Basket Clearance ¹
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

¹ 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_V values for flow of water at +60°F/+16°C are shown in the table below.

Formulas for C_V 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_v = Flow Coefficient

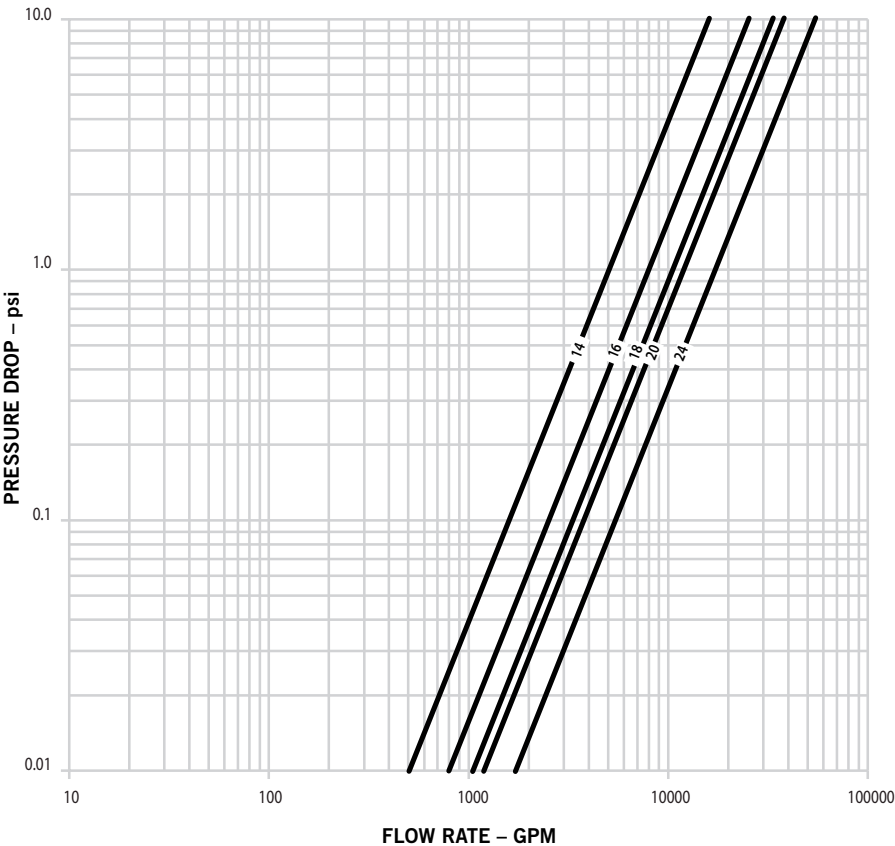
Size		C _v Values
Nominal inches DN	Actual Outside Diameter inches mm	
14 DN350	14.000 355.6	5050
16 DN400	16.000 406.4	8000
18 DN450	18.000 457.0	10540
20 DN500	20.000 508.0	11960
24 DN600	24.000 610.0	17222

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 any Victaulic 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.
- Confirm that any equipment, branch lines, or sections of piping that may have been isolated for/during testing or due to valve closures/positioning are identified, depressurized, and drained immediately prior to installation, removal, adjustment, or maintenance of any Victaulic products.
- Always reference Victaulic [publication I-ENDCAP](#) for important end cap installation safety instructions.
- Wear safety glasses, hardhat, foot protection, and hearing protection.

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

⚠ WARNING

- When grooving pipe for use with AGS products, Victaulic roll grooving tools shall be equipped with AGS roll sets (RW for steel or RWX for stainless steel).
- RWX grooving rolls are identified by a silver color and the designation "RWX" on the front of the roll sets.
- Victaulic AGS products SHALL NOT be installed on pipe that is prepared with original-type grooving roll sets.
- To ensure proper pipe end preparation, refer to [publication 25.09](#) for AGS groove specifications.

Failure to follow these instructions will cause grooves that are not within Victaulic AGS specifications, resulting in joint failure, serious personal injury, and property damage.

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 determining the suitability of Victaulic products for their end-use application, in accordance with industry standards, project specifications, and Victaulic's published performance, maintenance, and safety data, as well as all warnings and installation 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, warranty, installation instructions, or this disclaimer.

Installation

Always refer to and follow the [Victaulic Installation Handbook](#) or installation instructions for 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 victaulic.com.

Warranty

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

Intellectual Property Rights

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Note

All products bearing a Victaulic trademark are manufactured by Victaulic or to Victaulic specifications. All products are to be installed only in accordance with the applicable Victaulic installation instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.