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 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.

System No.	Location	Spec Section	Paragraph	
Submitted By	Date	Approved	Date	

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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
- Optional: Zinc electroplated

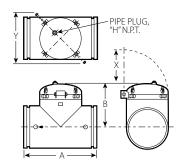
End Cap (14 – 24"/DN350 – DN600):

- Carbon steel T-bolt hinged closure, Class 300-TB
- Optional: Zinc electroplated
- 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
- **Magnets:** 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



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

NOTE

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

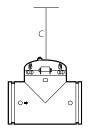


4.1 **DIMENSIONS**

Series W730 Tee Type Strainer

Assembly Clearance

Recommended Minimum Clearance Required to Remove Strainer Basket



Size		Strainer Basket Clearance ¹	
Nominal	Actual Outside Diameter	"C" Dimension	
inches	inches	inches	
DN	mm	mm	
14	14.000	28.00	
DN350	355.6	711	
16	16.000	30.00	
DN400	406.4	762	
18	18.000	35.00	
DN450	457.0	889	
20	20.000	38.00	
DN500	508.0	965	
24	24.000	44.00	
DN600	610.0	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		
Nominal	Actual Outside Diameter	Maximum Working Pressure
inches	inches	psi
DN	mm	kPa
14	14.000	300
DN350	355.6	2068
16	16.000	300
DN400	406.4	2068
18	18.000	300
DN450	457.0	2068
20	20.000	300
DN500	508.0	2068
24	24.000	300
DN600	610.0	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:

$\Delta P = Q^2$	Where:
C 2	Q = Flow (GPM)
$Q = C_v \times \sqrt{\Delta P}$	$\Delta P = Pressure Drop (psi)$ $C_v = Flow Coefficient$

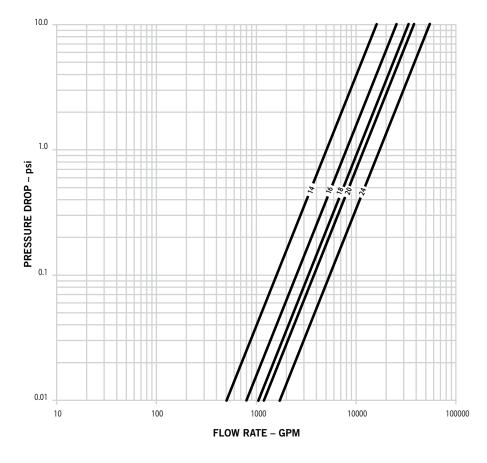
Size			
Nominal	Actual Outside Diameter	C _v Values	
inches	inches		
DN	mm		
14	14.000	5050	
DN350	355.6	5030	
16	16.000	8000	
DN400	406.4	8000	
18	18.000	10540	
DN450	457.0	10540	
20	20.000	11960	
DN500	508.0	11900	
24	24.000	17222	
DN600	610.0	17222	

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



- 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.

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.

Warranty Pofor t

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

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