

AGS Vic-Strainer®

SERIES W730



Series W730 AGS (Advanced Groove System) Vic-Strainer is lighter than flanged “Y” type strainers and provides straight-through flow for lower pressure drop. It installs with two Victaulic couplings, and is rated up to 300 psi/2065 kPa. A durable 304 stainless screen is provided. The standard mesh sizes are 6 mesh for sizes 14 – 16”/350 – 400 mm and 4 mesh for sizes 18 – 24”/450 – 600 mm; other smaller sizes available. The access cap permits easy basket removal for cleaning. Basket must be cleaned prior to obtaining 10 psi/69 kPa pressure differential across the basket. Contact Victaulic for details.



WARNING

! WARNING

Always depressurize and drain the piping system before attempting to install, remove, or adjust any Victaulic piping products.
 Failure to do so could result in serious personal injury, property damage, joint leakage or joint separation.

! 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.

JOB/OWNER

System No. _____
 Location _____

CONTRACTOR

Submitted By _____
 Date _____

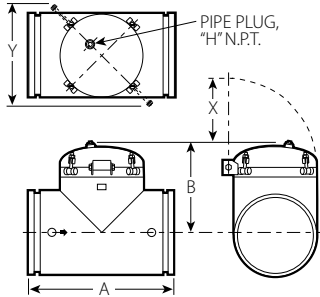
ENGINEER

Spec Sect _____ Para _____
 Approved _____
 Date _____

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DIMENSIONS



TYPICAL 14 - 24"/350 - 600 MM SIZES

Size		Max. Work Pressure psi kPa	Dimensions - Inches/mm					Approx. Wgt. Each Lbs. kg
Nominal Size Inches/mm	Actual Outside Diameter Inches/mm		A	B	X	Y	H	
14	14.000	300	22.00	17.75	12.25	17.70	2.00	300.0
350	355.6	2065	559	451	311	450	51	136.1
16	16.000	300	24.00	18.75	13.75	20.50	2.00	350.0
400	406.4	2065	610	476	349	521	51	158.8
18	18.000	300	31.00	23.25	15.25	23.30	2.00	400.0
450	457.0	2065	787	591	387	592	51	181.4
20	20.000	300	34.50	25.88	16.94	25.50	2.00	565.0
500	508.0	2065	876	657	430	648	51	256.3
24	24.000	300	40.00	30.13	19.94	28.30	2.00	830.0
600	610.0	2065	1016	765	506	719	51	376.5

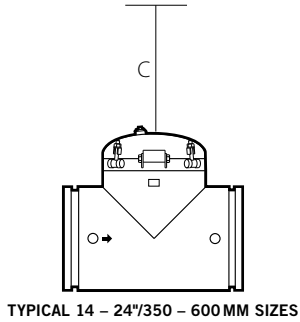
Maximum differential pressure from inlet must not exceed 10 psi/69 kPa.

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ASSEMBLY CLEARANCE

Recommended Minimum Clearance Required to Remove Strainer Basket



Size		Strainer Basket Clearance†
Nominal Size Inches/mm	Actual Outside Diameter Inches/mm	"C" Dimension Inches/mm
14 350	14.000 355.6	30.00 762
16 400	16.000 406.4	32.00 813
18 450	18.000 457.0	35.00 889
20 500	20.000 508.0	38.00 965
24 600	24.000 610.0	44.00 1118

† Measurement is from the center line to the top of the basket during removal.

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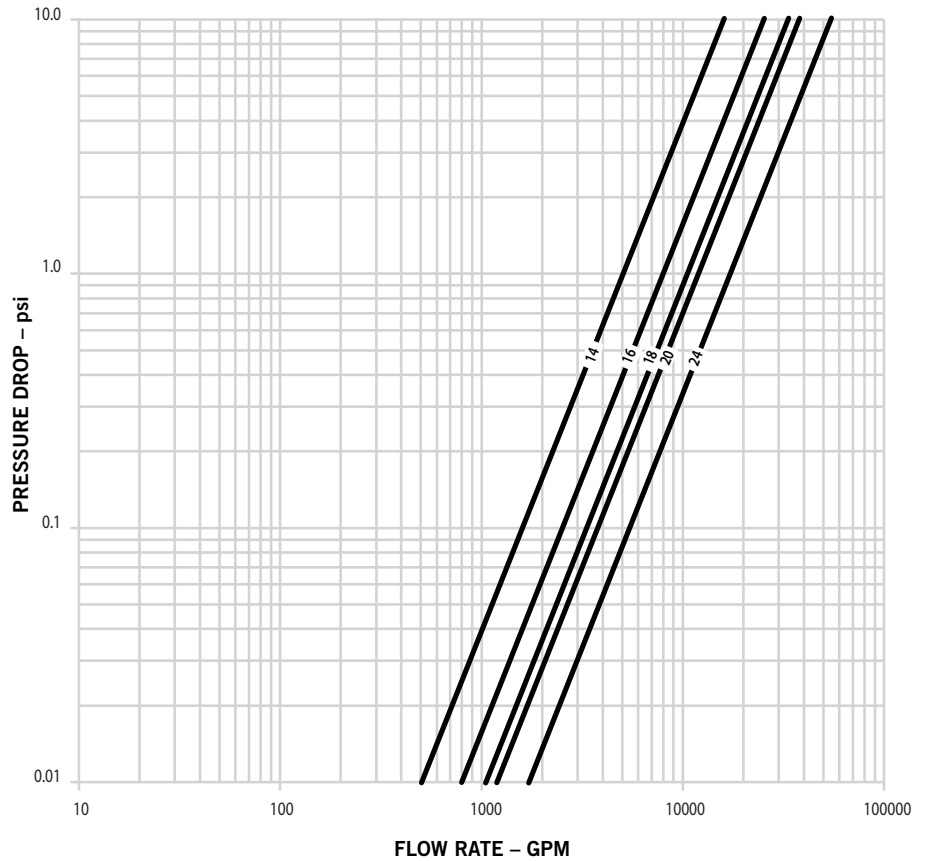
PERFORMANCE DATA

Flow Characteristics

Flow characteristics are charted to the right and are based on standard 6 mesh in 14 – 16"/350 – 400mm sizes and 4 mesh in 18 – 24"/450 – 600mm sizes.

Flow may vary from these figures.

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



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PERFORMANCE DATAC_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 Size Inches/mm	Actual Outside Diameter Inches/mm	
14 350	14.000 355.6	5050
16 400	16.000 406.4	8000
18 450	18.000 457.0	10540
20 500	20.000 508.0	11960
24 600	24.000 610.0	17222

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MATERIAL SPECIFICATIONS

Body (14 – 24"/350 – 600 mm): Segmentally welded carbon steel, ANSI standard wall thickness, conforming to ASTM A-53, Type E or S, Gr. B.

- **Optional:** Zinc electroplated

End Cap (14 – 24"/350 – 600 mm): Carbon steel T-bolt hinged closure, Class 300-TB

- **Optional:** Zinc electroplated

Basket: Stainless Steel, Type 304, frame and mesh.

14 – 16"/350 – 400 mm: 6 x 6 mesh (0.041" wire) with 0.126" opening.

18 – 24"/450 – 600 mm: 4 x 4 mesh (0.047" wire) with 0.203" opening.

- **Optional:** Other mesh sizes and materials available, contact Victaulic for details.

Gasket: (specify choice*)

- **Grade "E" FlushSeal® EPDM**

EPDM (Green color code). Temperature range –30°F to +230°F/–34°C to +110°C.

Recommended for cold and hot water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. UL classified in accordance with ANSI/NSF 61 for cold +86°F/+30°C and hot +180°F/+82°C potable water service. NOT RECOMMENDED FOR PETROLEUM SERVICES.

- **Grade "T" FlushSeal nitrile**

Nitrile (Orange color code). Temperature range –20°F to +180°F/–29°C to +82°C.

Recommended for petroleum products, air with oil vapors, vegetable and mineral oils within the specified temperature range. Not recommended for hot water services over +150°F/+66°C or for hot dry air over +140°F/+60°C.

* Services listed are General Service Recommendations only. It should be noted that there are services for which these gaskets are not recommended. Reference should always be made to the latest Victaulic Gasket Selection Guide for specific gasket service recommendations and for a listing of services which are not recommended.

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.

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INSTALLATION

Reference should always be made to the I-100 Victaulic Field Installation Handbook for the product you are installing. Handbooks are included with each shipment of Victaulic products for 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.

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.

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For complete contact information, visit www.victaulic.com

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