

AGS Suction Diffuser

SERIES W731-I



Victaulic Series W731-I AGS (Advanced Groove System) Suction Diffuser provides optimum flow conditions at the inlet side of the pump. Each suction diffuser is provided with a removable strainer and a fine mesh sleeve which acts as a start-up strainer. For convenience, bosses (tapped 1/2" NPT) on either side are provided for pressure measurement. A plug is also provided to allow for easy draining of the system. Victaulic Series W731-I AGS is rated at 300 psi/2065 kPa working pressure.



Note: Saddle-type support is required. Supplied by others.

WARNING



WARNING

Always depressurize and drain system before disassembly. 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 original 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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MATERIAL SPECIFICATIONS

Housing (body, coupling, end cap): Ductile iron conforming to ASTM A-536 or segmentally welded steel fabricated from standard wall. (375"/9.5 mm thickness) carbon steel pipe conforming to ASTM A-53, Type E or S, Grade B.

Coupling Gasket: (specify choice)*

Standard

- **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.

* 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.

Diffuser: Stainless steel, Type 304, frame and perforated sheet with 5/32"/4 mm diameter holes.

Start-up Pre-filter: 20 mesh stainless steel, Type 304.

Bolts/Nuts: Heat-treated plated carbon steel, trackhead meeting the physical and chemical requirements of ASTM A-449 and physical requirements of ASTM A-183.

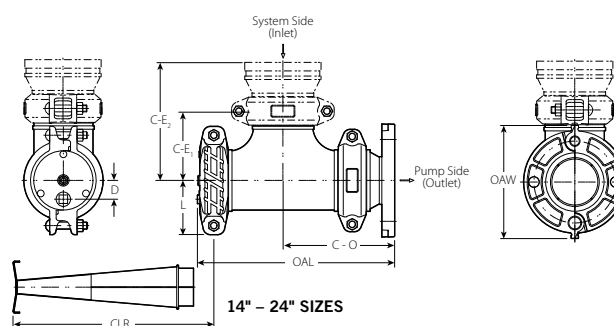
Support: Boss for support. See table above for size. (Support not supplied).

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ANSI DIMENSIONS

Size			Dimensions – Inches/mm								Approx. Wgt. Each
System Side Inlet	x	Pump Side Outlet									
		In./mm	C-E1	C-E2	CLR	C-O	D	L	OAL	OAW	Lbs./kg
14 350	x	10 250	-	23.13 588	28.00 711	17.13 435	5.32 135	8.93 227	29.00 737	17.25 4.38	410.0 186.0
		12 300	11.00 279	-	35.00 889	24.13 613	5.88 149	9.95 253	37.50 953	20.25 514	434.0 196.9
	x	14 350	-	26.13 664	39.00 991	26.13 664	6.88 175	11.03 280	40.56 1030	24.50 622	711.0 322.5
		16 400	-	26.13 664	35.00 889	24.13 613	5.88 149	9.95 253	37.50 953	17.25 4.38	583.0 264.5
16 400	x	14 350	12.00 305	-	39.00 991	26.13 664	6.88 175	11.03 280	40.56 1030	24.50 622	551.0 249.9
		18 450	13.50 343	-	43.00 1092	28.63 727	7.88 200	12.14 308	44.50 1130	27.13 689	678.0 307.5
24 600	x	20 500	17.00 432	-	55.00 1397	37.13 943	10.88 276	15.63 397	54.25 1378	13.50 800	1102.0 499.9



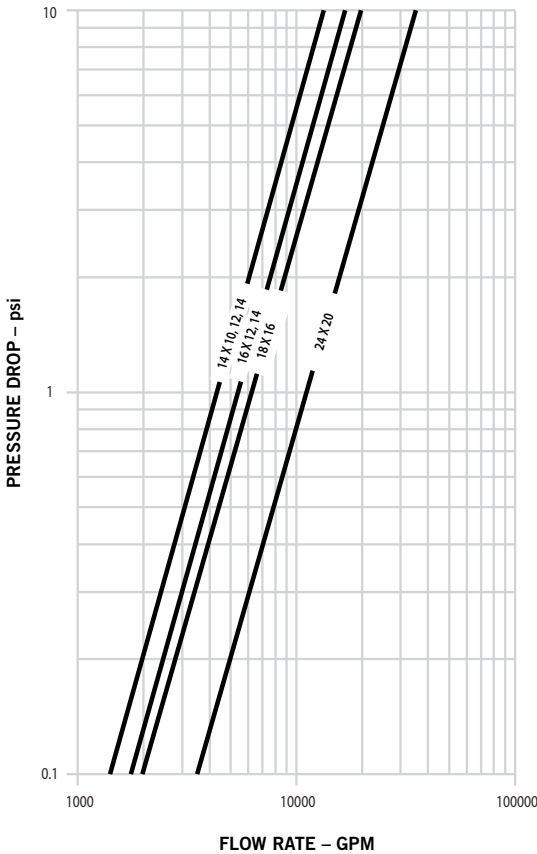
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PERFORMANCE DATA

Pressure loss values for flow of water at 60°F/+16°C shown below.

Imperial Flow Data



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.



For complete contact information, visit www.victaulic.com

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