

AGS Dual Disc Vic-Check® Valves



SERIES W715

The Series W715 AGS (Advanced Groove System) Vic-Check valve is available in 14 – 24”/350 – 600mm sizes and utilizes a spring-assisted, dual-disc design that achieves drop tight sealing over the full 230psi/1575kPa. The valve can be installed in both horizontal or vertical flow up positions. Series W715 AGS check valves are engineered for long life and seize-free operation. Constructed of rugged ductile iron, the valve features an EPDM seat bonded to the body and a 304 stainless steel disc and shaft.

Advanced Groove System (AGS) ends allow fast, easy installation with just two Victaulic couplings. These new couplings feature a two-piece housing and a deeper, uniform groove depth for consistent performance.

Request publication 20.02 for W07 AGS rigid or 20.03 for W77 AGS flexible coupling information.



WARNING

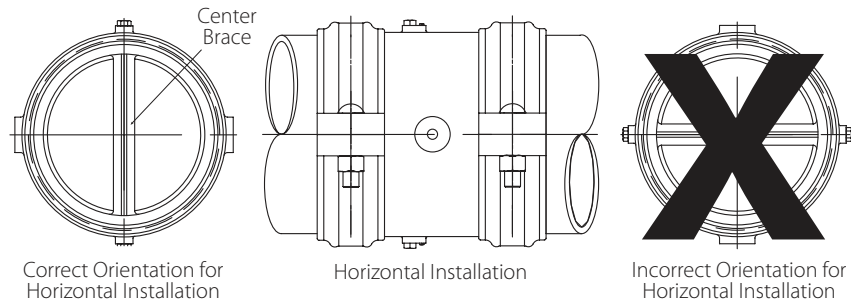
WARNING

- When grooving pipe for use with Series W715 AGS Dual-Disc Vic-Check® Valves, Victaulic roll grooving tools must be equipped with special Victaulic AGS (RW) roll sets made specifically for use with standard-weight pipe. Series W715 AGS Dual-Disc Vic-Check Valves **MUST NOT** be installed on pipe that is prepared to original groove dimensions. Failure to follow these instructions will cause improper assembly and joint failure, resulting in serious personal injury and property damage.



CAUTION

CAUTION



- For horizontal installations, the center brace inside the Series W715 AGS Dual-Disc Vic-Check® Valve must be in the vertical position, as shown above. Failure to install the valve in the proper orientation will cause improper operation.
- When connecting a series W715 AGS Dual-Disc Vic-Check Valve to a Vic-300 AGS Butterfly Valve, a pipe spool is required between the two valves to prevent disc interference.
- When a Series W715 AGS Dual-Disc Vic-Check Valve is placed near a Vic-300 AGS Butterfly Valve, orient the center brace/disc shaft of the Series W715 at right angles to the butterfly valve stem. Failure to follow these instructions will cause uneven and unstable flow through the Series W715, resulting in noise and reduced valve life.

JOB OWNER

System No. _____
Location _____

CONTRACTOR

Submitted By _____
Date _____

ENGINEER

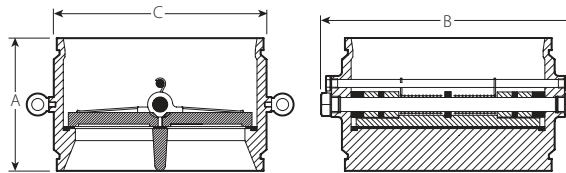
Spec Sect _____ Para _____
Approved _____
Date _____

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DIMENSIONS

Size		Dimensions – Inches/mm			Approx. Weight Each
Nominal Size Inches/mm	Actual Outside Diameter Inches/mm	A End to End	B	C	Lbs. kg
14	14.000	10.75	16.93	14.38	140.0
350	355.6	273	430	366	64.0
16	16.000	12.00	19.88	16.38	160.0
400	406.4	305	505	416	73.0
18	18.000	14.25	21.54	18.38	180.0
450	457.2	362	547	467	82.0
20	20.000	14.50	24.75	20.38	200.0
500	508.0	368	628	518	91.0
24	24.000	15.50	28.81	24.38	240.0
600	609.6	394	732	620	190.0



PERFORMANCE

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	Size		C _v	Size		C _v
Normal Size Inches/mm	Actual Outside Dia. Inches/mm	(Full Open)	Normal Size Inches/mm	Actual Outside Dia. Inches/mm	(Full Open)	Normal Size Inches/mm	Actual Outside Dia. Inches/mm	(Full Open)
14	14.000	6000	18	18.000	10500	24	24.000	20500
350	355.6		450	457.2		600	609.6	
16	16.000	8300	20	20.000	13800			
400	406.4		500	508.0				

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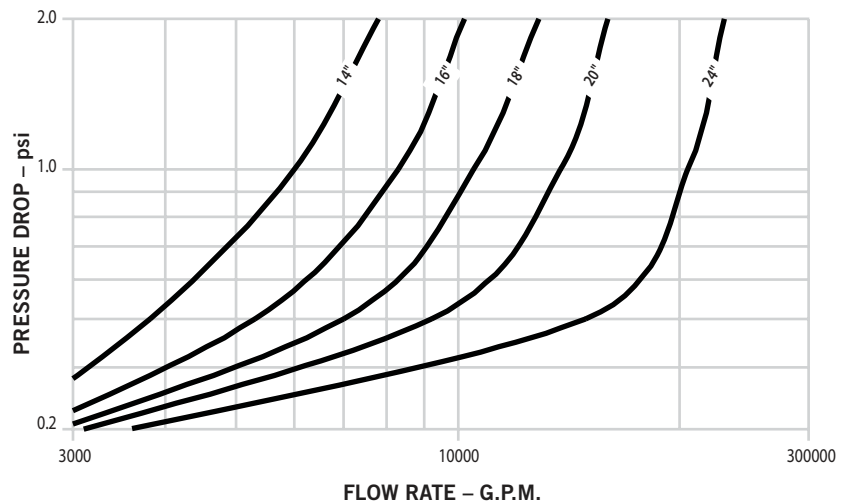
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FLOW CHARACTERISTICS

Note:

Placement of check valves too close to sources of unstable flow will shorten the life of the valve and potentially may damage the system. To extend valve life, valves should be installed a reasonable distance downstream from pumps, elbows, expanders, reducers or other similar devices. Sound piping practices dictate a minimum of five (5) times the pipe diameter for general use. Distances between three (3) and five (5) diameters are allowable provided the flow velocity is less than eight (8) feet per second (2.4 mps). Distances less than three (3) diameters are not recommended and will violate the Victaulic product warranty.

The chart below expresses the flow of water at 65°F/18°C through a full open valve.



MATERIAL SPECIFICATIONS

Body: Ductile iron conforming to ASTM A-395 with painted black enamel finish

Disc: Stainless Steel – 304SS

Seat: EPDM

Spring: Stainless Steel – 300 series

Shafts: Stainless Steel – 300 series

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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

20.08 3858 REV B UPDATED 4/2007

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20.08

