

AGS Rigid Coupling



STYLE W07

The patent-pending Style W07 AGS (Advanced Groove System) coupling is comprised of two housings and is the first flat pad, metal-to-metal, rigid coupling to be offered within this size range. Its unique wedge-shaped key profile increases allowable pipe end separation, resulting in easier initial assembly alignment.

Style W07 AGS couplings are rated up to 350psi/2400kPa for 14 – 24”/350 – 600mm piping systems. Style W07 AGS couplings provide rigidity for valve connections, machinery rooms, and long straight runs. Support and hanging requirements correspond to ASME B31.1 Power Piping Code and ASME B31.9 Building Services Code*.

Style W07 AGS couplings are provided with FlushSeal® gaskets for a variety of services. Please specify gasket grade when ordering. Please refer to publication 05.01 for gasket service ratings.



PATENT PENDING



WARNING

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.

When preparing pipe for AGS products, please refer to groove specification section 25.09 for AGS groove dimensions.

*Please refer to Victaulic publication 26.01 for complete pipe support information.

JOB/OWNER

System No. _____
 Location _____

CONTRACTOR

Submitted By _____
 Date _____

ENGINEER

Spec Sect _____ Para _____
 Approved _____
 Date _____

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MATERIAL SPECIFICATIONS

Housing: Ductile iron conforming to ASTM A-536, grade 65-45-12. Ductile iron conforming to ASTM A-395, grade 65-45-15, is available upon special request.

Housing Coating: Orange enamel.

- Optional: Hot dipped galvanized and others.

Coupling 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.

- **Grade “L” silicone**

Silicone (Red color code). Temperature range –30°F to +350°F / –34° C to +177° C.

Recommended for dry heat, air without hydrocarbons to +350°F/+177°C and certain chemical 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.

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

Nuts: Plated carbon steel, heavy hex conforming to ASTM A-563, Grade B.

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DIMENSIONS

Size		Max. Working Pressure* psi/kPa		Max. End Load* Lbs./N		Allow. Pipe End Sep.#	Bolt/Nut No - Size	Dimensions – Inches/mm			Approx. Wgt. Each
Nominal Size Inches mm	Actual Outside Dia. Inches mm	Std. Wall	Light Wall ‡	Std. Wall	Light Wall	Inches mm	Inches	X	Y	Z	Lbs. kg
14 350	14.000 355.6	350 § 2500	350 § 2500	55800 248310	55800 248310	0.25 6.4	2 – 1 x 5½	15.87 403	20.59 523	4.75 121	48.9 22.2
16 400	16.000 406.4	350 § 2500	350 § 2500	72885 324338	72885 324338	0.25 6.4	2 – 1 x 5½	18.12 460	23.51 597	4.75 121	60.8 27.6
18 450	18.000 457.0	350 § 2500	350 § 2500	92245 410490	92245 410490	0.25 6.4	2 – 1 x 5½	20.22 514	25.53 648	4.75 121	71.2 32.3
20 500	20.000 508.0	350 § 2500	350 § 2500	113880 506766	113880 506766	0.25 6.4	2 – 1½ x 5½	22.44 570	27.13 389	4.75 121	81.7 37.1
24 600	24.000 610.0	350 § 2500	225 § 1600	163990 729756	104955 467050	0.25 6.4	2 – 1½ x 5½	26.64 677	32.31 821	4.75 121	116.2 52.7

* **Working Pressure** and **End Load** are total, from all internal and external loads, based on standard weight (ANSI) steel pipe, AGS roll grooved in accordance with Victaulic® specifications. Contact Victaulic for performance on other pipe.

§ Pressure ratings have been rounded for global use. Actual maximum working pressure for lightwall in 14 – 20"/350 – 500 mm sizes is 363 psi/2500 kPa; 24"/600 mm is 232 psi/1600 kPa and standard wall 14 – 24"/350 – 500 mm sizes is 363 psi/2500 kPa.

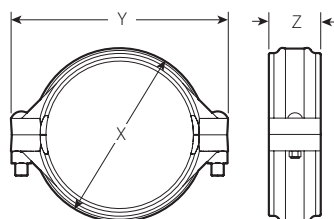
WARNING: FOR ONE TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to 1½ times the figures shown.

‡ Lightwall 14"/350 mm = 0.22"/5.6 mm; 16 – 24"/400 – 600 mm = 0.25"/6.35 mm

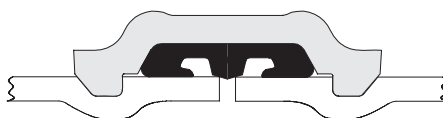
For field installation only on roll grooved pipe. Style W07 AGS couplings are essentially rigid and do not permit expansion/contraction.

Metric thread size bolts are available (color coded gold) for all coupling sizes upon request. Contact Victaulic for details.

Style W07 AGS couplings must not be used to join PVC pipe.



TYPICAL 14 – 24"/350 – 600MM



Exaggerated for clarity

TORQUE REQUIREMENTS

Size		Recommended Torque
Nominal Size Inches mm	Actual Outside Dia. Inches mm	ft. lbs. N•m
14, 16 & 18 350, 400, 450	14.000, 16.000, 18.000 355.6, 406.4 & 457.0	250 340
20 & 24 500, 600	20.000, 24.000 508.0, 610.0	375 500

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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.



WCAS-6VYHBC

For complete contact information, visit www.victaulic.com

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