

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*.



PATENT PENDING



WARNING

WARNING

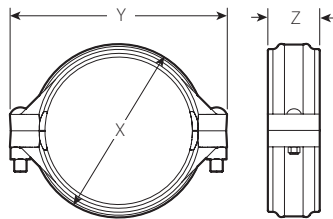
- Victaulic AGS products use a patent-pending groove profile that requires the use of special AGS rolls. AGS products must not be used on pipe that has been grooved using standard grooving rolls.

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.

DIMENSIONS



TYPICAL 14 – 24”/350 – 600MM



Exaggerated for clarity

Size		Max. Work Pressure*	Max. End Load*	Allow. Pipe End Sep.#	Bolt/Nut No - Size	Dimensions – Inches/mm			Approx. Wgt. Each
Nominal Size Inches mm	Actual Outside Dia. Inches mm	psi kPa	Lbs. N	Inches mm	Inches	X	Y	Z	Lbs. kg
14 350	14.000 355.6	350 2400	53851 239637	0.25 6.4	2 – 1 x 5 1/2	15.87 403	20.59 523	4.75 121	48.9 22.2
16 400	16.000 406.4	350 2400	70336 312995	0.25 6.4	2 – 1 x 5 1/2	18.12 460	23.51 597	4.75 121	60.8 27.6
18 450	18.000 457.0	350 2400	89019 396135	0.25 6.4	2 – 1 x 5 1/2	20.22 514	25.53 648	4.75 121	71.2 32.3
20 500	20.000 508.0	350 2400	109900 489055	0.25 6.4	2 – 1 1/8 x 5 1/2	22.44 570	27.13 389	4.75 121	81.7 37.1
24 600	24.000 610.0	350 2400	158256 704239	0.25 6.4	2 – 1 1/8 x 5 1/2	26.64 677	32.31 821	4.75 121	116.2 52.7

* # See notes on page 3.

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" EPDM**

EPDM (Green color code). Temperature range -30°F to $+230^{\circ}\text{F}$ / -34°C to $+110^{\circ}\text{C}$.

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 $+86^{\circ}\text{F}/+30^{\circ}\text{C}$ and hot $+180^{\circ}\text{F}/+82^{\circ}\text{C}$ potable water service. NOT RECOMMENDED FOR PETROLEUM SERVICES.

- **Grade "T" nitrile**

Nitrile (Orange color code). Temperature range -20°F to $+180^{\circ}\text{F}$ / -29°C to $+82^{\circ}\text{C}$.

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

- **Grade "L" silicone**

Silicone (Red color code). Temperature range -30°F to $+350^{\circ}\text{F}$ / -34°C to $+177^{\circ}\text{C}$.

Recommended for dry heat, air without hydrocarbons to $+350^{\circ}\text{F}/+177^{\circ}\text{C}$ 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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TORQUE REQUIREMENTS

Size		Recommended Torque ft. lbs./N•m
Nominal Size Inches/mm	Actual Outside Dia. Inches/mm	
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

GENERAL NOTES

- * **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.
WARNING: FOR ONE TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to 1 ½ times the figures shown.
 - # 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.
- WARNING: Depressurize and drain the piping system before attempting to install, remove, or adjust any Victaulic piping products.

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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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