

**AGS™**

1.0 PRODUCT DESCRIPTION

Available Sizes:

- 14 – 60"/DN350 – DN1500

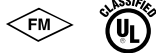
Maximum Working Pressure:

- Pressure ratings for Victaulic AGS fittings conform to the ratings of the Style W07 or Style W77 couplings (refer to publications [20.02](#) or [20.03](#) for more information)

Function:

- Connects pipe, provides change in direction and adapts to sizes or components
- Supplied with Victaulic AGS grooves
- Exclusively for use with Victaulic couplings, valves, accessories and pipe which feature ends formed with the Victaulic AGS groove profile

2.0 CERTIFICATION/LISTINGS



ALWAYS REFER TO ANY NOTIFICATIONS AT THE END OF THIS DOCUMENT REGARDING PRODUCT INSTALLATION, MAINTENANCE OR SUPPORT.

3.0 SPECIFICATIONS – MATERIAL

Cast Fittings: Ductile iron conforming to ASTM A536, Grade 65-45-12. Ductile iron conforming to ASTM A395, Grade 65-45-15, is available upon special request.

Segmentally Welded Fittings: Fabricated from carbon steel pipe conforming to ASTM A53, Type E or S, Grade B or API-5L, PSL 1 or PSL 2.

Nipples: Carbon steel pipe conforming to ASTM A53, Type E or S, Grade B or API-5L, PSL 1 or PSL 2.

Flanged Adapter Nipples:

Flange: ASME/ANSI B16.5 raised face carbon steel slip-on flange.

Pipe: Carbon steel pipe conforming to ASTM A53, Type E or S, Grade B or API-5L, PSL 1 or PSL 2.

Fitting Coatings: (specify choice)

- ☐ Standard: Orange enamel.
- ☐ Optional: Hot dipped galvanized (ASTM A153) and others.
- ☐ Optional: Liquid Epoxy (AWWA C210)
- ☐ Optional: Fusion Bonded Epoxy (AWWA C213)
- ☐ Optional: Other coatings available, contact Victaulic for details.

Flanged Adapter Nipple Coating:

- ☐ None (Unfinished).
- ☐ Optional: Orange enamel.
- ☐ Optional: Hot dip galvanized and others.

Fitting Linings: (specify choice)

- ☐ Standard: Orange Enamel
- ☐ Optional: Hot Dip Galvanized (ASTM A153)
- ☐ Optional: Liquid Epoxy (AWWA C210).
- ☐ Optional: FBE (AWWA C213)
- ☐ Optional: Others available upon request contact Victaulic for details.

4.10 DIMENSIONS

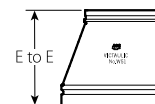
Concentric/Eccentric Reducer

No. W50 Concentric

No. W51 Eccentric



No. W50



No. W51

Size		No. W50 Concentric Reducer		No. W51 Eccentric Reducer	
Nominal inches DN		E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg
14 DN350	x 6 DN150	14.00 356	68.0 30.8	13.00 330	68.0 30.8
	x 8 DN200	14.00 356	70.0 31.8	13.00 330	70.0 31.8
	x 10 ³ DN250	14.00 356	72.0 32.7	13.00 330	72.0 32.7
	x 12 ³ DN300	14.00 356	74.0 33.6	13.00 330	74.0 33.6
	x 10 273	13.00 330	73.6 33.4	13.00 330	81.9 37.1
377 mm	x 12 323.9	13.00 330	78.1 35.4	13.00 330	86.8 39.4
	x 8 DN200	14.00 356	88.0 39.9	14.00 356	88.0 39.9
	x 10 DN250	14.00 356	91.0 41.3	14.00 356	91.0 41.3
16 DN400	x 12 ³ DN300	14.00 356	93.0 42.2	14.00 356	93.0 42.2
	x 14 ³ DN350	14.00 356	95.0 43.1	14.00 356	95.0 43.1
	x 12 323.9	14.00 356	91.7 41.6	14.00 356	101.9 46.2
	x 377 mm	14.00 356	95.6 43.4	14.00 356	106.9 48.5
18 DN450	x 10 DN250	15.00 381	112.0 50.8	15.00 381	112.0 50.8
	x 12 DN300	15.00 381	115.0 52.2	15.00 381	115.0 52.2
	x 14 ³ DN350	15.00 381	118.0 53.5	15.00 381	118.0 53.5
	x 16 ³ DN400	15.00 381	121.0 54.9	15.00 381	121.0 54.9
	x 426 mm	15.00 381	125.1 56.8	15.00 381	139.4 63.3
480 mm	x 377 mm	15.00 381	119.2 54.1	15.00 381	119.2 60.9
	x 12 DN300	20.00 508	160.0 72.6	20.00 508	160.0 72.6
	x 14 DN350	20.00 508	164.0 74.4	20.00 508	164.0 74.4
20 DN500	x 16 ³ DN400	20.00 508	168.0 76.2	20.00 508	168.0 76.2
	x 18 ³ DN450	20.00 508	172.0 78.	20.00 508	172.0 78.
	x 16 DN400	20.00 508	198.0 89.8	20.00 508	198.0 89.8
	x 18 ³ DN450	20.00 508	200.0 90.7	20.00 508	200.0 90.7
24 DN600	x 20 ³ DN500	20.00 508	204.0 92.5	20.00 508	204.0 92.5

Size		No. W50 Concentric Reducer		No. W51 Eccentric Reducer	
Nominal inches DN		E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg
26 DN650	x 14 DN350	24.00 609.6	167.0 75.7	24.00 609.6	159.0 72.1
	x 16 DN400	24.00 609.6	173.0 78.4	24.00 609.6	167.0 75.7
	x 18 DN450	24.00 609.6	179.0 81.1	24.00 609.6	175.0 79.3
	x 20 DN500	24.00 609.6	185.0 83.9	24.00 609.6	183.0 83.1
	x 22 DN550	24.00 609.6	192.0 87.1	24.00 609.6	191.0 86.6
	x 24 DN600	24.00 609.6	199.0 90.2	24.00 609.6	199.0 90.2
	x 14 DN350	24.00 609.6	180.0 81.6	24.00 609.6	167.0 75.7
	x 16 DN400	24.00 609.6	185.0 83.9	24.00 609.6	175.0 79.3
28 DN700	x 18 DN450	24.00 609.6	190.0 86.1	24.00 609.6	183.0 83.0
	x 20 DN500	24.00 609.6	196.0 88.9	24.00 609.6	191.0 86.6
	x 22 DN550	24.00 609.6	202.0 91.6	24.00 609.6	199.0 90.2
	x 24 DN600	24.00 609.6	208.0 94.3	24.00 609.6	207.0 93.8
	x 26 DN650	24.00 609.6	216.0 97.9	24.00 609.6	215.0 97.5
	x 14 DN350	24.00 609.6	192.0 87.1	24.00 609.6	175.0 79.3
	x 16 DN400	24.00 609.6	197.0 89.3	24.00 609.6	183.0 83.1
	x 18 DN450	24.00 609.6	202.0 91.6	24.00 609.6	191.0 86.6
30 DN750	x 20 DN500	24.00 609.6	207.0 93.8	24.00 609.6	199.0 90.2
	x 22 DN550	24.00 609.6	213.0 96.6	24.00 609.6	207.0 93.8
	x 24 DN600	24.00 609.6	218.0 98.8	24.00 609.6	215.0 97.5
	x 26 DN650	24.00 609.6	225.0 102.1	24.00 609.6	223.0 101.5
	x 28 DN700	24.00 609.6	232.0 105.2	24.00 609.6	232.0 105.2
	x 14 DN350	24.00 609.6	192.0 87.1	24.00 609.6	175.0 79.3
	x 16 DN400	24.00 609.6	197.0 89.3	24.00 609.6	183.0 83.1
	x 18 DN450	24.00 609.6	202.0 91.6	24.00 609.6	191.0 86.6

³ Ductile iron up to 24"/DN600, all other sizes are segmentally welded steel. Contact Victaulic for details.

NOTE

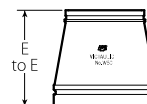
- Outlets 12"/DN300 and smaller will be provided with standard Victaulic roll or cut grooves, suitable for use with standard Victaulic grooved couplings in that size range.

4.10 DIMENSIONS (CONTINUED)

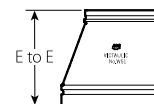
Concentric/Eccentric Reducer

No. W50 Concentric

No. W51 Eccentric



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No. W51

Size		No. W50 Concentric Reducer		No. W51 Eccentric Reducer	
Nominal inches DN		E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg
32 DN800	16 DN400	24.00 609.6	210.0 95.3	24.00 609.6	191.0 86.6
	18 DN450	24.00 609.6	214.0 97.1	24.00 609.6	199.0 90.3
	20 DN500	24.00 609.6	219.0 99.3	24.00 609.6	207.0 93.9
	22 DN550	24.00 609.6	224.0 101.6	24.00 609.6	215.0 97.5
	24 DN600	24.00 609.6	229.0 103.9	24.00 609.6	223.0 101.2
	26 DN650	24.00 609.6	235.0 106.6	24.00 609.6	232.0 105.2
	28 DN700	24.00 609.6	241.0 109.3	24.00 609.6	240.0 108.9
	30 DN750	24.00 609.6	248.0 112.5	24.00 609.6	248.0 112.5
36 DN900	18 DN450	24.00 609.6	320.0 145.2	24.00 609.6	282.0 127.9
	20 DN500	24.00 609.6	325.0 147.4	24.00 609.6	292.0 132.5
	22 DN550	24.00 609.6	330.0 149.7	24.00 609.6	303.0 137.4
	24 DN600	24.00 609.6	336.0 152.4	24.00 609.6	314.0 142.4
	26 DN650	24.00 609.6	342.0 155.1	24.00 609.6	324.0 147.0
	28 DN700	24.00 609.6	348.0 157.9	24.00 609.6	335.0 152.0
	30 DN750	24.00 609.6	355.0 161.0	24.00 609.6	346.0 157.0
	32 DN800	24.00 609.6	363.0 164.7	24.00 609.6	356.0 161.5
40 DN1000	20 DN500	24.00 609.6	365.0 165.6	24.00 609.6	316.0 143.3
	22 DN550	24.00 609.6	369.0 167.3	24.00 609.6	326.0 147.8
	24 DN600	24.00 609.6	373.0 169.1	24.00 609.6	337.0 152.8
	26 DN650	24.00 609.6	377.0 171.1	24.00 609.6	346.0 156.9
	28 DN700	24.00 609.6	382.0 173.2	24.00 609.6	357.0 161.9
	30 DN750	24.00 609.6	387.0 175.5	24.00 609.6	367.0 166.4
	32 DN800	24.00 609.6	393.0 178.2	24.00 609.6	378.0 171.4
	36 DN900	24.00 609.6	407.0 184.6	24.00 609.6	399.0 180.9

Size		No. W50 Concentric Reducer		No. W51 Eccentric Reducer	
Nominal inches DN		E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg
40 DN1050	20 DN500	24.00 609.6	386.0 175.1	24.00 609.6	327.0 148.3
	22 DN550	24.00 609.6	390.0 176.9	24.00 609.6	337.0 152.8
	24 DN600	24.00 609.6	393.0 178.2	24.00 609.6	348.0 157.8
	26 DN650	24.00 609.6	397.0 180.1	24.00 609.6	359.0 162.8
	28 DN700	24.00 609.6	401.0 181.8	24.00 609.6	369.0 167.3
	30 DN750	24.00 609.6	405.0 183.7	24.00 609.6	378.0 171.4
	32 DN800	24.00 609.6	409.0 185.5	24.00 609.6	389.0 176.4
	36 DN900	24.00 609.6	421.0 190.9	24.00 609.6	410.0 185.9
	40 DN1000	24.00 609.6	438.0 198.6	24.00 609.6	432.0 195.9
46 DN1150	22 DN550	28.00 711.2	479.0 217.2	28.00 711.2	419.0 190.1
	24 DN600	28.00 711.2	485.0 219.9	28.00 711.2	431.0 195.5
	26 DN650	28.00 711.2	490.0 222.2	28.00 711.2	444.0 201.4
	28 DN700	28.00 711.2	496.0 224.9	28.00 711.2	456.0 206.8
	30 DN750	28.00 711.2	502.0 227.7	28.00 711.2	469.0 212.7
	32 DN800	28.00 711.2	508.0 230.4	28.00 711.2	481.0 218.1
	36 DN900	28.00 711.2	523.0 237.2	28.00 711.2	504.0 228.6
	38 DN950	28.00 711.2	531.0 240.8	28.00 711.2	516.0 234.1
	40 DN1000	28.00 711.2	540.0 244.9	28.00 711.2	529.0 239.9
	42 DN1050	28.00 711.2	550.0 249.4	28.00 711.2	542.0 245.8

³ Ductile iron up to 24"/DN600, all other sizes are segmentally welded steel. Contact Victaulic for details.

NOTE

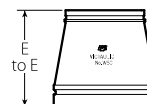
- Outlets 12"/DN300 and smaller will be provided with standard Victaulic roll or cut grooves, suitable for use with standard Victaulic grooved couplings in that size range.

4.10 DIMENSIONS (CONTINUED)

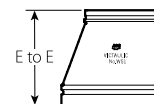
Concentric/Eccentric Reducer

No. W50 Concentric

No. W51 Eccentric



No. W50



No. W51

Size		No. W50 Concentric Reducer		No. W51 Eccentric Reducer	
Nominal inches DN		E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg
48 DN1200	24 DN600	28.00 711.2	507.0 229.9	28.00 711.2	444.0 201.4
	26 DN650	28.00 711.2	513.0 232.6	28.00 711.2	456.0 206.8
	28 DN700	28.00 711.2	518.0 234.9	28.00 711.2	467.0 211.8
	30 DN750	28.00 711.2	523.0 237.2	28.00 711.2	481.0 218.1
	32 DN800	28.00 711.2	529.0 239.9	28.00 711.2	494.0 224.1
	36 DN900	28.00 711.2	541.0 245.3	28.00 711.2	516.0 234.1
	38 DN950	28.00 711.2	548.0 248.5	28.00 711.2	529.0 239.9
	40 DN1000	28.00 711.2	557.0 252.6	28.00 711.2	542.0 245.8
	42 DN1050	28.00 711.2	565.0 256.2	28.00 711.2	554.0 251.3
	46 DN1150	28.00 711.2	586.0 265.8	28.00 711.2	579.0 262.6
54 DN1350	26 DN650	54.00 1371.6	995.0 451.3	54.00 1371.6	950.0 430.9
	28 DN700	54.00 1371.6	1015.0 460.4	54.00 1371.6	974.0 441.8
	30 DN750	54.00 1371.6	1035.0 469.4	54.00 1371.6	998.0 452.6
	32 DN800	54.00 1371.6	1054.0 478.1	54.00 1371.6	1022.0 463.5
	36 DN900	54.00 1371.6	1095.0 496.6	54.00 1371.6	1070.0 485.3
	38 DN950	54.00 1371.6	1116.0 506.2	54.00 1371.6	1095.0 496.6
	40 DN1000	54.00 1371.6	1137.0 515.7	54.00 1371.6	1119.0 507.5
	42 DN1050	54.00 1371.6	1158.0 525.2	54.00 1371.6	1143.0 518.4
	46 DN1150	54.00 1371.6	1202.0 545.2	54.00 1371.6	1191.0 540.2
	48 DN1200	54.00 1371.6	1224.0 555.2	54.00 1371.6	1215.0 551.1

Size		No. W50 Concentric Reducer		No. W51 Eccentric Reducer	
Nominal inches DN		E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg
56 DN1400	28 DN700	56.00 1422.4	1081.0 490.3	56.00 1422.4	1035.0 469.4
	30 DN750	56.00 1422.4	1101.0 499.4	56.00 1422.4	1060.0 480.8
	32 DN800	56.00 1422.4	1122.0 508.9	56.00 1422.4	1085.0 492.1
	36 DN900	56.00 1422.4	1164.0 527.9	56.00 1422.4	1135.0 514.8
	38 DN950	56.00 1422.4	1185.0 537.5	56.00 1422.4	1160.0 526.1
	40 DN1000	56.00 1422.4	1207.0 547.4	56.00 1422.4	1186.0 537.9
	42 DN1050	56.00 1422.4	1228.0 557.1	56.00 1422.4	1211.0 549.3
	46 DN1150	56.00 1422.4	1273.0 577.8	56.00 1422.4	1261.0 571.9
	48 DN1200	56.00 1422.4	1296.0 587.7	56.00 1422.4	1286.0 583.3
	54 DN1350	56.00 1422.4	1368.0 620.5	56.00 1422.4	1361.0 617.3
60 DN1500	30 DN750	60.00 1524.0	1241.0 562.9	60.00 1524.0	1190.0 539.7
	32 DN800	60.00 1524.0	1263.0 572.8	60.00 1524.0	1217.0 552.1
	36 DN900	60.00 1524.0	1307.0 592.8	60.00 1524.0	1270.0 576.1
	38 DN950	60.00 1524.0	1330.0 603.2	60.00 1524.0	1297.0 588.3
	40 DN1000	60.00 1524.0	1353.0 613.7	60.00 1524.0	1324.0 600.5
	42 DN1050	60.00 1524.0	1376.0 624.1	60.00 1524.0	1351.0 612.8
	46 DN1150	60.00 1524.0	1423.0 645.4	60.00 1524.0	1404.0 636.8
	48 DN1200	60.00 1524.0	1447.0 656.3	60.00 1524.0	1431.0 649.1
	54 DN1350	60.00 1524.0	1521.0 689.9	60.00 1524.0	1512.0 685.8
	56 DN1400	60.00 1524.0	1547.0 701.7	60.00 1524.0	1538.0 697.6

³ Ductile iron up to 24"/DN600, all other sizes are segmentally welded steel. Contact Victaulic for details.

NOTE

- Outlets 12"/DN300 and smaller will be provided with standard Victaulic roll or cut grooves, suitable for use with standard Victaulic grooved couplings in that size range.

6.0 NOTIFICATIONS

WARNING

- Victaulic AGS products use a patented 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.

7.0 REFERENCE MATERIALS

[02.06: Victaulic Potable Water Approvals ANSI/NSF](#)

[05.01: Victaulic Seal Selection Guide](#)

[10.01: Victaulic Products for Fire Protection Piping Systems](#)

[20.02: Victaulic AGS Rigid Coupling Style W07](#)

[20.03: Victaulic AGS Flexible Coupling Style W77](#)

[25.09: Victaulic AGS Roll Groove Data](#)

[29.01: Victaulic Terms and Conditions/Warranty](#)

[I-ENDCAP: Victaulic End Cap Installation Safety Instructions](#)

User Responsibility for Product Selection and Suitability

Each user bears final responsibility for making a determination as to the suitability of Victaulic products for a particular end-use application, in accordance with industry standards and project specifications, and the applicable building codes and related regulations as well as Victaulic performance, maintenance, safety, and warning instructions. Nothing in this or any other document, nor any verbal recommendation, advice, or opinion from any Victaulic employee, shall be deemed to alter, vary, supersede, or waive any provision of Victaulic Company's standard conditions of sale, installation guide, or this disclaimer.

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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.

Installation

Reference should always be made to the Victaulic installation handbook or installation instructions of the product you are installing. Handbooks are included with each shipment of Victaulic products, providing 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.

Trademarks

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