

AGS Full Flow Fittings with Vic-Rings®



Victaulic offers a line of AGS (Advanced Groove System) full flow fittings with Vic-Rings in sizes from 12 – 48”/300 – 1200mm for abrasive applications in a variety of straight and reducing styles.

Fittings are supplied with tangents for full flow service. Each tangent adds 6”/152.4mm to the standard C to E dimensions for the fitting. For fittings where E to E dimensions are published an extra 12” /304.8mm tangent is supplied.

These fittings include integral Victaulic Type D AGS™ Vic-Rings®. These fittings can be supplied in standard weight or extra heavy construction. The use of the Vic-Ring® maintains a smooth bore through the fitting with no reduction in wall thickness at the joints making it ideal for abrasive services.

The fittings are pressure rated to conform to the pressure ratings of Victaulic Style W07/W77 AGS Couplings. All fittings are supplied with AGS grooves to permit fast installation without field preparation. The AGS design permits increased pipe end/component end separation for easy alignment. These fittings are designed for use exclusively with Victaulic W07 (rigid) and W77 (flexible) AGS couplings with AGS rings.

Fittings are painted orange enamel with a galvanized finish available as an option. Contact Victaulic for details.



PATENTED



WARNING

WARNING

- Victaulic Type D AGS Vic-Rings include the patent-pending AGS groove profile and are only available from Victaulic. These fittings must be used with pipe with the same Type D AGS Vic-Rings only available from Victaulic.
- Failure to use AGS products on AGS Vic-Rings could result in serious personal injury, property damage, joint leakage or joint separation.**

MATERIAL SPECIFICATIONS

Carbon steel pipe conforming to ASTM A 53, Grade B or equivalent
 Forged steel conforming to ASTM A 234, Grade WPB, or equivalent
 Forged steel conforming to ASTM A 105, or equivalent

JOB/OWNER

System No. _____
 Location _____

CONTRACTOR

Submitted By _____
 Date _____

ENGINEER

Spec Sect _____ Para _____
 Approved _____
 Date _____

www.victaulic.com

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REV_C

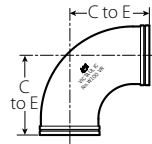


AGS Full Flow Fittings with Vic-Rings®

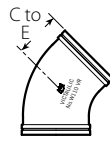
DIMENSIONS

Full Flow With Vic-Rings, Elbows, Tees

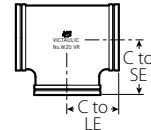
- NO. W100 VR 90° Elbow
- NO. W110 VR 45° Elbow
- NO. W20 VR Tee



NO. W100 VR



NO. W110 VR



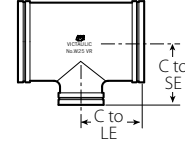
NO. W20 VR

Size		No. W100 VR 90° Elbow		No. W110 VR 45° Elbow		No. W20 VR Tee		
Nominal Size Inches mm	Actual Outside Diameter Inches mm	C to E Inches mm	Approx. Weight Each Lbs. kg	C to E Inches mm	Approx. Weight Each Lbs. kg	C to LE Inches mm Run	C to SE Inches mm Branch	Approx. Weight Each Lbs. kg
12 300	12.75 323.9	24.00 609.6	206.7 93.8	13.50 342.9	147.1 66.7	16.00 406.4	16.00 406.4	217.7 98.7
14 350	14.00 355.6	27.00 685.8	282.7 128.2	14.75 374.7	205.1 93.0	17.00 431.8	17.00 431.8	287.0 130.2
16 400	16.00 406.4	30.00 762.0	345.7 156.8	16.00 406.4	244.7 111.0	18.00 457.2	18.00 457.2	347.5 157.6
18 450	18.00 457.2	33.00 838.2	418.6 189.9	17.25 438.2	290.7 131.9	19.50 495.3	19.50 495.3	403.6 183.1
20 500	20.00 508.0	36.00 914.4	497.7 225.8	18.50 469.9	338.7 153.6	21.00 533.4	21.00 533.4	488.4 221.5
24 600	24.00 609.6	42.00 1066.8	714.6 324.1	21.00 533.4	485.8 220.4	23.00 584.2	23.00 584.2	671.2 304.5
26 650	26.00 660.4	45.00 1143.0	815.8 370.0	22.00 558.8	545.7 247.5	25.50 647.7	25.50 647.7	789.0 357.9
28 700	28.00 711.2	48.00 1219.2	977.8 443.5	23.25 590.6	638.3 289.5	26.50 673.1	26.50 673.1	909.1 412.4
30 750	30.00 762.0	51.00 1295.4	1038.8 471.2	24.50 622.3	676.8 307.0	28.00 711.2	28.00 711.2	1034.6 469.3
32 800	32.00 812.8	54.00 1371.6	1191.8 540.6	25.75 654.1	766.3 347.6	29.50 749.3	29.50 749.3	1382.9 627.3
36 900	36.00 914.4	60.00 1524.0	1422.7 645.3	28.25 717.6	900.9 408.6	32.50 825.5	32.50 825.5	1509.7 684.8
40 1000	40.00 1016.0	66.00 1676.4	1739.6 789.1	30.88 784.4	1089.2 494.1	35.50 901.7	35.50 901.7	1759.4 798.1
42 1050	42.00 1066.8	69.00 1752.6	1882.9 854.1	32.00 812.8	1169.9 530.7	36.00 914.4	34.00 863.6	2082.3 944.5
46 1150	46.00 1168.4	75.00 1905.0	2889.2 1310.5	34.62 879.3	1731.8 785.5	39.50 1003.3	37.50 952.5	2503.5 1135.6
48 1200	48.00 1219.2	78.00 1981.2	3089.9 1401.6	35.88 911.4	1839.9 834.6	41.00 1041.4	39.00 990.6	3684.5 1671.3

AGS Full Flow Fittings with Vic-Rings®

Full Flow Tees With Vic-Rings

NO. W25 VR Reducing Tee



NO. W25 VR

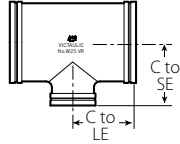
Size	No. W25 VR Reducing Tee		Approx. Weight Each
	Nominal Size Inches mm	C to LE Run Inches mm	C to SE Branch Inches mm
14 × 14 × 12 350 × 350 × 300	14 350	16.00	417.1
		17.62	189.2
16 × 16 × 12 400 × 400 × 300	16 400	18.00	450.8
		17.62	204.5
		18.00	471.3
		18.00	213.8
18 × 18 × 14 450 × 450 × 350	18 450	19.50	524.6
		19.00	238.0
		19.50	532.6
		19.00	241.6
20 × 20 × 14 500 × 500 × 350	20 500	21.00	604.3
		20.00	274.1
		21.00	623.4
		20.00	282.8
24 × 24 × 14 600 × 600 × 350	24 600	23.00	810.4
		22.00	367.6
		23.00	818.5
		22.00	371.3
26 × 26 × 14 650 × 650 × 350	26 650	25.50	872.0
		23.00	395.5
		25.50	893.6
		23.00	405.3
28 × 28 × 14 700 × 700 × 350	28 700	26.50	970.1
		24.00	440.0
		26.50	995.0
		24.00	451.3
30 × 30 × 16 750 × 750 × 400	30 750	28.00	1095.0
		25.00	496.7
		28.00	1127.6
		25.00	511.5
32 × 32 × 20 800 × 800 × 500	32 800	29.50	1418.8
		27.00	643.6
		29.50	1509.7
		27.00	684.8
36 × 36 × 18 900 × 900 × 450	36 900	32.50	1564.0
		28.50	709.4
		32.50	1602.0
		29.00	726.7
40 × 40 × 20 1000 × 1000 × 500	40 1000	35.50	1794.0
		31.00	813.8
		35.50	1840.0
		32.00	834.6

Size	No. W25 VR Reducing Tee		Approx. Weight Each
	Nominal Size Inches mm	C to LE Run Inches mm	C to SE Branch Inches mm
30 × 30 × 16 750 × 750 × 400	30 750	28.00	1095.0
		25.00	496.7
		28.00	1127.6
		25.00	511.5
		20	1158.7
		26.00	525.6
		24	1243.0
		27.00	563.8
32 × 32 × 20 800 × 800 × 500	32 800	28.00	1305.9
		27.50	592.3
		29.50	1418.8
		27.00	643.6
		24	1509.7
		28.00	684.8
		26	1541.8
		28.50	699.3
36 × 36 × 18 900 × 900 × 450	36 900	29.50	1577.0
		28.50	715.3
		29.50	1615.7
		29.00	732.9
		30	1657.7
		29.50	736.6
		28	1716.1
		30.50	778.4
40 × 40 × 20 1000 × 1000 × 500	40 1000	32.50	1790.0
		28.50	811.9
		32.50	1840.0
		31.00	834.6
		26	1889.0
		32.50	856.8
		28	1935.2
		32.50	877.8
36 × 36 × 30 900 × 900 × 750	36 900	35.50	1980.5
		33.50	898.3
		35.50	2026.8
		34.00	919.3
36 × 36 × 35 900 × 900 × 875	36 900	35.50	2083.1
		35.00	944.9

AGS Full Flow Fittings with Vic-Rings®

Full Flow Tees With Vic-Rings

NO. W25 VR
Reducing Tee

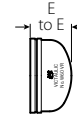


NO. W25 VR

Size			No. W25 VR Reducing Tee		Approx. Weight Each
Nominal Size Inches	Nominal Size mm	Run	C to LE Run Inches	C to SE Branch Inches	Lbs. / kg
42 1050	42 1050	24 600	36.00 914.4	32.00 812.8	2243.0 1017.4
		26 650	36.00 914.4	33.50 850.9	2254.7 1022.7
		28 700	36.00 914.4	33.50 850.9	2265.7 1027.7
		30 750	36.00 914.4	34.00 863.6	2324.2 1054.2
		32 800	36.00 914.4	34.00 863.6	2335.2 1059.2
		36 900	36.00 914.4	34.00 863.6	2457.6 1114.7
		40 1000	36.00 914.4	34.00 863.6	2557.0 1159.8
		46 1150	46 1150	26 650	39.50 1003.3
28 700	39.50 1003.3			35.00 889.0	2612.7 1185.1
30 750	39.50 1003.3			35.00 889.0	2649.6 1201.8
32 800	39.50 1003.3			35.50 901.7	2687.0 1218.8
36 900	39.50 1003.3			36.00 914.4	2761.0 1252.4
40 1000	39.50 1003.3			36.50 927.1	2841.9 1289.1
42 1050	39.50 1003.3			37.00 939.8	2880.3 1306.5
48 1200	48 1200			26 650	41.00 1041.4
		28 700	41.00 1041.4	36.00 914.4	3239.3 1469.3
		30 750	41.00 1041.4	36.00 914.4	3328.7 1509.9
		32 800	41.00 1041.4	37.00 939.8	3339.7 1514.9
		36 900	41.00 1041.4	37.00 939.8	3433.5 1557.4
		40 1000	41.00 1041.4	38.00 965.2	3613.6 1639.1
		42 1050	41.00 1041.4	38.00 965.2	3625.6 1644.5
		46 1150	41.00 1041.4	39.00 990.6	3753.0 1702.3

Cap

NO. W60 VR



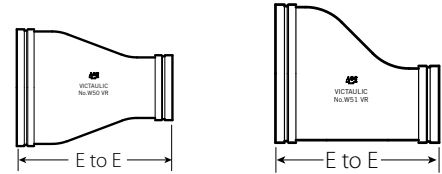
NO. W60 VR

Size		No. W60 VR Cap	
Nominal Size Inches	Actual Outside Diameter Inches	E to E Inches	Approx. Weight Each Lbs. / kg
12 300	12.75 323.9	12.00 304.8	76.9 34.9
14 350	14.00 355.6	12.50 317.5	99.6 45.2
16 400	16.00 406.4	13.00 330.2	118.6 53.8
18 450	18.00 457.2	14.00 355.6	138.6 62.9
20 500	20.00 508.0	15.00 381	160.9 73.0
24 600	24.00 609.6	16.50 419.1	229.8 104.2
26 650	26.00 660.4	20.50 520.7	248.2 112.6
28 700	28.00 711.2	21.00 533.4	272.8 123.8
30 750	30.00 762.0	21.50 546.1	296.1 134.3
32 800	32.00 812.8	22.00 558.8	320.3 145.3
36 900	36.00 914.4	23.00 584.2	366.5 166.2
40 1000	40.00 1016.0	24.00 609.6	429.5 194.8
42 1050	42.00 1066.8	24.50 622.3	460.7 209.0
46 1150	46.00 1168.4	25.50 647.7	691.7 313.8
48 1200	48.00 1219.2	26.00 660.4	770.0 349.3

AGS Full Flow Fittings with Vic-Rings®

Full Flow With Vic-Rings Concentric/Eccentric Reducer

NO. W50 VR Concentric Reducer
 NO. W51 VR Eccentric Reducer



NO. W50 VR

NO. W51 VR

Size		No. W50 VR Concentric Reducer		No. W51 VR Eccentric Reducer	
Nominal Size Inches	mm	E to E Inches	Approx. Weight Each Lbs. kg	E to E Inches	Approx. Weight Each Lbs. kg
14	350	12	171.6	25.00	171.6
		300	77.8	635	77.8
16	400	12	191.7	26.00	191.7
		300	87.0	660.4	87.0
	350	14	214.2	26.00	214.2
		350	97.2	660.4	97.2
18	450	14	236.7	27.00	236.7
		350	107.4	685.8	107.4
	400	16	247.8	27.00	247.8
		400	112.4	685.8	112.4
20	500	14	289.8	32.00	289.8
		350	131.4	812.8	131.4
	400	16	300.7	32.00	300.7
		400	136.4	812.8	136.4
	450	18	313.9	32.00	313.9
		450	142.4	812.8	142.4
24	600	16	360.7	32.00	360.7
		400	163.6	812.8	163.6
	450	18	372.8	32.00	372.8
		450	169.1	812.8	169.1
	500	20	385.8	32.00	385.8
		500	175.0	812.8	175.0
26	650	18	419.6	36.00	419.6
		450	190.3	914.4	190.3
	500	20	428.7	36.00	428.7
		500	194.4	914.4	194.4
	600	24	466.7	36.00	466.7
		600	211.7	914.4	211.7
28	700	18	440.8	36.00	440.8
		450	199.9	914.4	199.9
	500	20	449.8	36.00	449.8
		500	204.0	914.4	204.0
	600	24	487.8	36.00	487.8
		600	221.3	914.4	221.3
	650	26	497.8	36.00	497.8
		650	225.8	914.4	225.8
30	750	20	470.2	36.00	470.2
		500	213.3	914.4	213.3
	600	24	508.2	36.00	508.2
		600	230.5	914.4	230.5
	650	26	518.2	36.00	518.2
		650	235.1	914.4	235.1
	700	28	529.2	36.00	529.2
		700	240.0	914.4	240.0

Size		No. W50 VR Concentric Reducer		No. W51 VR Eccentric Reducer	
Nominal Size Inches	mm	E to E Inches	Approx. Weight Each Lbs. kg	E to E Inches	Approx. Weight Each Lbs. kg
32	800	24	552.3	36.00	552.3
		600	250.5	914.4	250.5
	650	26	562.3	36.00	562.3
		650	255.0	914.4	255.0
	700	28	573.3	36.00	573.3
		700	260.0	914.4	260.0
	750	30	583.3	36.00	583.3
		750	264.6	914.4	264.6
36	900	24	604.2	36.00	604.2
		600	274.0	914.4	274.0
	650	26	614.2	36.00	614.2
		650	278.6	914.4	278.6
	750	30	635.2	36.00	635.2
		750	288.1	914.4	288.1
	800	32	646.2	36.00	646.2
		800	293.1	914.4	293.1
40	1000	30	694.1	36.00	694.1
		750	314.8	914.4	314.8
	800	32	705.1	36.00	705.1
		800	319.8	914.4	319.8
	900	36	726.1	36.00	726.1
		900	329.3	914.4	329.3
42	1050	30	725.9	36.00	725.9
		750	329.3	914.4	329.3
	800	32	736.9	36.00	736.9
		800	334.3	914.4	334.3
	900	36	757.9	36.00	757.9
		900	343.8	914.4	343.8
40	1000	36	786.0	36.00	786.0
		1000	356.5	914.4	356.5
46	1150	40	997.1	40.00	997.1
		1000	452.3	1016.0	452.3
	1050	42	1009.1	40.00	1009.1
		1050	457.7	1016.0	457.7
48	1200	40	1039.1	40.00	1039.1
		1000	471.3	1016.0	471.3
	1050	42	1051.1	40.00	1051.1
		1050	476.8	1016.0	476.8
	1150	46	1101.3	40.00	1101.3
		1150	499.5	1016.0	499.5

AGS Full Flow Fittings with Vic-Rings®

Adapter Nipples

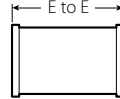
NO. W42 VR Grv. × Bev.

NO. W43 VR Grv. × Grv.

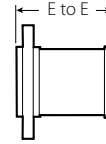
NO. W45 VR Grv. × Flg.



NO. W42 VR



NO. W43 VR



NO. W45 VR

Size		No. W42 VR Adapter Nipple		No. W43 VR Adapter Nipple		No. W45 VR Adapter Nipple	
Nominal Size Inches mm	Actual Outside Diameter Inches mm	E to E Inches mm	Approx. Weight Each Lbs. kg	E to E Inches mm	Approx. Weight Each Lbs. kg	E to E Inches mm	Approx. Weight Each Lbs. kg
12 300	12.75 323.9	12.00 304.8	68.6 31.1	12.00 304.8	87.6 39.7	12.00 304.8	129.6 58.8
14 350	14.00 355.6	12.00 304.8	91.6 41.6	12.00 304.8	128.6 58.3	12.00 304.8	174.6 79.2
16 400	16.00 406.4	12.00 304.8	103.6 47.0	12.00 304.8	144.6 65.6	12.00 304.8	209.6 95.1
18 450	18.00 457.2	12.00 304.8	116.7 52.9	12.00 304.8	162.7 73.8	12.00 304.8	225.7 102.4
20 500	20.00 508.0	12.00 304.8	129.7 58.8	12.00 304.8	180.7 82.0	12.00 304.8	277.7 125.9
24 600	24.00 609.6	12.00 304.8	175.7 79.7	12.00 304.8	256.7 116.4	12.00 304.8	379.7 172.2
26 650	26.00 660.4	12.00 304.8	189.7 86.1	12.00 304.8	276.7 125.5	12.00 304.8	422.7 191.7
28 700	28.00 711.2	12.00 304.8	204.7 92.9	12.00 304.8	298.7 135.5	12.00 304.8	479.7 217.6
30 750	30.00 762.0	12.00 304.8	218.8 99.2	12.00 304.8	318.8 144.6	12.00 304.8	518.8 235.3
32 800	32.00 812.8	12.00 304.8	233.8 106.0	12.00 304.8	340.8 154.6	12.00 304.8	603.8 273.9
36 900	36.00 914.4	12.00 304.8	262.8 119.2	12.00 304.8	382.8 173.6	12.00 304.8	722.8 327.9
40 1000	40.00 1016.0	12.00 304.8	298.8 135.6	12.00 304.8	438.8 199.1	12.00 304.8	897.8 407.3
42 1050	42.00 1066.8	12.00 304.8	314.9 142.8	12.00 304.8	462.9 209.9	12.00 304.8	1004.9 455.8
46 1150	46.00 1168.4	12.00 304.8	403.3 183.0	12.00 304.8	563.3 255.5	12.00 304.8	1172.3 531.8
48 1200	48.00 1219.2	12.00 304.8	421.9 191.4	12.00 304.8	589.9 267.6	12.00 304.8	1261.9 572.4

Note:

No.W45 VR flange adapters include Class 150 flat or raised face flanges.

No.W46 VR flange adapters are available with Class 300 flat or raised face flanges, contact Victaulic for details.

AGS Full Flow Fittings with Vic-Rings®

Fittings Dimensions:

Fittings with Type D AGS™ Vic-Rings®

For abrasive applications fittings are supplied with Victaulic Type D AGS™ Vic-Rings®, which are one nominal size larger than the fitting/pipe size, as illustrated in the diagrams below. The required AGS coupling size is listed in the table. The fittings can be supplied with AGS Vic-Rings for un-lined pipe or with abrasion or corrosion resistant rubber lining.

The C-E and E-E dimensions of plain and rubber lined fittings are detailed in the previous pages.

Fitting NPS	Coupling Size
12	14
14	16
16	18
18	20
20	24
24	26
26	28
28	30
30	32
34	36
36	38
38	40
40	42
44	46
46	48
48	50

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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