



AGS™

1.0 PRODUCT DESCRIPTION

Available Sizes:

- 14 – 60"/DN350 – DN1500

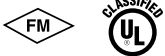
Maximum Working Pressure:

- 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.

4.0 DIMENSIONS

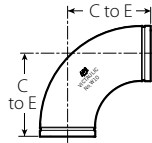
Elbows and Tees

No. W10 90° Elbow

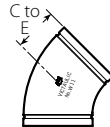
No. W11 45° Elbow
(Ductile Iron)¹

No. W12 22° Elbow

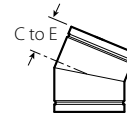
No. W13 11° Elbow
(Segmentally Welded Steel)



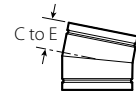
No. W10



No. W11



No. W12



No. W13

Size		No. W10 90° Elbow		No. W11 45° Elbow		No. W12 22½° Elbow (sw)		No. W13 11¼° Elbow (sw)	
Nominal inches DN	Actual Outside Diameter inches mm	C to E inches mm	Approx. Weight Each lb kg	C to E inches mm	Approx. Weight Each lb kg	C to E inches mm	Approx. Weight Each lb kg	C to E inches mm	Approx. Weight Each lb kg
14	14.000	14.00	150.8	5.80	63.0	5.00	46.0	3.50	32.0
DN350	355.6	355.6	68.4	147	28.7	127	20.9	89	14.5
	14.843	14.84	157.7	6.15	74.7	-	-	-	-
	377.0	377	71.5	156	33.9	-	-	-	-
16	16.000	16.00	184.3	6.63	93.8	5.00	52.1	4.00	42.0
DN400	406.4	406.4	83.6	168	42.5	127	23.6	102	19.1
	16.772	16.77	201.6	6.95	96.2	-	-	-	-
	426.0	426	91.5	177	43.7	-	-	-	-
18	18.000	18.00	272.3	7.46	129.0	5.50	65.0	4.50	53.2
DN450	457.0	457.2	123.5	189	58.5	140	29.5	114	24.1
	18.898	18.90	279.0	7.83	132.7	-	-	-	-
	480.0	480	126.6	199	60.2	-	-	-	-
20	20.000	20.00	312.0	8.28	165.3	6.00	78.6	5.00	65.0
DN500	508.0	508.0	141.5	210	75.0	152	36.0	127	29.5
24	24.000	24.00	559.8	9.94	264.5	7.00	110.3	6.00	94.5
DN600	610.0	609.6	253.9	252	120.0	178	50.0	152	42.9
26	26.000	-	-	-	-	6.75	122.0	5.00	92.0
DN650	660.4	-	-	-	-	171.5	55.3	127.0	41.7
28	28.000	-	-	-	-	7.00	136.0	5.25	104.0
DN700	711.2	-	-	-	-	177.8	61.6	133.4	47.1
30	30.000	-	-	-	-	7.25	151.0	5.25	112.0
DN750	762.0	-	-	-	-	184.2	68.4	133.4	50.8
32	32.000	-	-	-	-	7.50	167.0	5.50	124.0
DN800	812.8	-	-	-	-	190.5	75.7	139.7	56.2
36	36.000	-	-	-	-	7.75	194.0	5.50	140.0
DN900	914.4	-	-	-	-	196.9	87.9	139.7	63.5
40	40.000	-	-	-	-	8.75	322.0	6.25	234.0
DN1000	1016.0	-	-	-	-	222.3	146.1	158.8	106.1
42	42.000	-	-	-	-	9.00	348.0	6.25	246.0
DN1050	1066.8	-	-	-	-	228.6	157.8	158.8	111.5
46	46.000	-	-	-	-	9.25	392.0	6.50	280.0
DN1150	1168.4	-	-	-	-	235.0	177.8	165.1	127.1
48	48.000	-	-	-	-	9.50	420.0	6.80	303.0
DN1200	1219.2	-	-	-	-	241.3	190.5	172.7	137.4
54	54.000	-	-	-	-	12.00	592.0	8.75	437.0
DN1350	1371.6	-	-	-	-	304.8	268.5	222.3	198.2
56	56.000	-	-	-	-	12.25	627.0	9.00	465.0
DN1400	1422.4	-	-	-	-	311.2	284.4	228.6	210.1
60	60.000	-	-	-	-	12.75	698.0	9.25	512.0
DN1500	1524.0	-	-	-	-	323.9	316.6	235.0	232.2

¹ Ductile iron except those marked (sw) which are segmentally welded steel.

4.1 DIMENSIONS

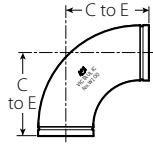
Elbows and Tees

No. W100 90° Long Radius

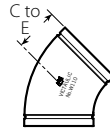
No. W110 45° Long Radius

No. W20 Tee

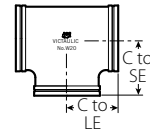
(Ductile Iron)¹



No. W100



No. W110



No. W20

Size		No. W100 90° Long Radius Elbow		No. W110 45° Long Radius Elbow		No. W20 Tee		
Nominal inches DN	Actual Outside Diameter inches mm	C to E inches mm	Approx. Weight Each lb kg	C to E inches mm	Approx. Weight Each lb kg	C to E Run inches mm	C to E Branch inches mm	Approx. Weight Each lb kg
14 DN350	14.000	21.00	210.4	8.75	105.2	11.00	11.00	102.0
	355.6	533	95.4	222	47.7	279	279	46.3
	14.843	-	-	-	-	11.50	11.50	176.3
	377.0	-	-	-	-	292	292	80.0
16 DN400	16.000	24.00	274.8	10.00	137.4	12.00	12.00	123.5
	406.4	610	124.7	254	62.3	305	305	56.0
	16.772	-	-	-	-	13.00	13.00	226.9
	426.0	-	-	-	-	330	330	102.9
18 DN450	18.000	27.00	383.9	11.25	192.0	13.50	13.50	281.0
	457.0	686	174.1	286	87.1	343	343	127.5
	18.898	-	-	-	-	14.57	14.57	312.8
	480.0	-	-	-	-	370	370	141.9
20 DN500	20.000	30.00	474.3	12.50	237.2	15.00	15.00	350.0
	508.0	762	215.1	318	107.8	381	381	158.7
24 DN600	24.000	36.00	746.6	15.00	373.3	17.00	17.00	503.7
	610.0	914	338.7	381	169.3	432	432	228.5
26 DN650	26.000	39.00	892.6	16.00	446.3	19.50 (sw)	19.50 (sw)	634.0
	660.4	990.6	404.9	406.4	202.4	495.3	495.3	287.5
28 DN700	28.000	42.00	1019.0	17.25	491.0	20.50 (sw)	20.50 (sw)	741.0
	711.2	1066.8	462.2	438.2	227.7	520.7	520.7	336.1
30 DN750	30.000	45.00	1268.0	18.50	612.0	22.00 (sw)	22.00 (sw)	855.0
	762.0	1143.0	575.1	469.9	277.6	558.8	558.8	387.8
32 DN800	32.000	48.00	1517.0	19.75	733.0	23.50 (sw)	23.50 (sw)	1190.0
	812.8	1219.2	688.1	501.7	332.4	596.9	596.9	539.7
36 DN900	36.000	54.00	1925.0	22.25	935.0	26.50 (sw)	26.50 (sw)	1608.0
	914.4	1371.6	83.1	565.2	424.1	673.1	673.1	729.4
38 DN950	38.000	-	-	-	-	28.00 (sw)	28.00 (sw)	1496.0
	965.2	-	-	-	-	711.2	711.2	678.5
40 DN1000	40.000	60.00	2883.0	24.88	1397.0	29.50 (sw)	29.50 (sw)	1968.0
	1016.0	1524.0	1307.7	632.0	633.7	749.3	749.3	892.6
42 DN1050	42.000	63.00	3260.0	26.00	1583.0	30.00 (sw)	28.00 (sw)	2891.0
	1066.8	1600.2	1478.7	660.4	718.1	762.0	711.2	1311.3
46 DN1150	46.000	69.00 (sw)	2270.0	28.63 (sw)	1210.0	33.50 (sw)	31.50 (sw)	2620.0
	1168.4	1752.6	1029.7	727.2	548.8	850.9	800.1	1188.4
48 DN1200	48.000	72.00 (sw)	2471.0	29.88 (sw)	1314.0	35.00 (sw)	33.00 (sw)	3805.0
	1219.2	1828.8	1120.8	759.0	596.1	889.0	838.2	1725.9
54 DN1350	54.000	81.00 (sw)	3120.0	33.50 (sw)	1648.0	41.00 (sw)	41.00 (sw)	3656.0
	1371.6	2057.4	1415.2	850.9	747.5	1041.4	1041.4	1658.3
56 DN1400	56.000	84.00 (sw)	3355.0	34.75 (sw)	1769.0	42.00 (sw)	42.00 (sw)	3961.0
	1422.4	2133.6	1521.8	882.7	802.4	1066.8	1066.8	1796.7
60 DN1500	60.000	90.00 (sw)	3850.0	37.25 (sw)	2023.0	45.00 (sw)	45.00 (sw)	4325.0
	1524.0	2286.0	1746.3	946.2	917.6	1143.0	1143.0	1961.8

¹ Ductile iron except those marked (sw) which are segmentally welded steel.

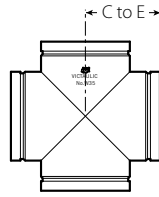
4.2 DIMENSIONS

Crosses and Wyes

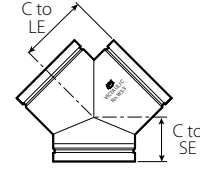
No. W35 Cross

No. W33 True Wye

(Segmentally Welded Steel)



No. W35



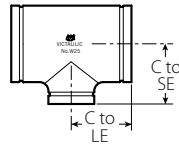
No. W33

Size		No. W35 Cross (sw)		No. W33 True Wye (sw)		
Nominal	Actual Outside Diameter	C to E	Approx. Weight Each	C to LE	C to SE	Approx. Weight Each
inches DN	inches mm	inches mm	lb kg	inches mm	inches mm	lb kg
14 DN350	14.000 355.6	11.00 279	121.0 54.9	11.00 279	7.50 191	98.0 44.4
16 DN400	16.000 406.4	12.00 305	146.4 66.4	12.00 305	8.00 203	119.3 54.1
18 DN450	18.000 457.0	13.50 343	185.4 84.1	13.50 343	8.50 216	148.3 67.3
20 DN500	20.000 508.0	15.00 381	229.1 103.9	15.00 381	9.00 229	180.4 81.8
24 DN600	24.000 610.0	17.00 432	298.7 135.5	17.00 432	10.00 254	238.3 108.1

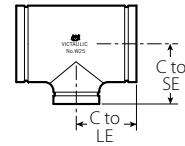
4.3 DIMENSIONS

Reducing Tee

No. W25 Reducing Tee
(Segmentally Welded Steel)



No. W25



No. W25

Size	No. W25 Reducing Tee		Approx. Weight Each		
	Nominal inches DN	Nominal inches DN		C to LE inches mm	C to SE inches mm
14 x 14 x 6 DN350 x DN350 x DN150	6	DN150	11.00 279	9.38 238	101.4 46.0
	8	DN200	11.00 279	9.75 248	102.5 46.5
	10	DN250	11.00 279	10.12 257	105.1 47.7
	12	DN300	11.00 279	10.62 270	108.1 49.0
	14	DN350	11.00 279	11.00 279	111.0 279
16 x 16 x 6 DN400 x DN400 x DN150	6	DN150	12.00 305	10.38 264	126.2 57.2
	8	DN200	12.00 305	10.75 273	127.4 57.8
	10	DN250	12.00 305	11.12 282	129.8 58.9
	12	DN300	12.00 305	11.62 295	132.5 60.1
	14	DN350	12.00 305	12.00 305	134.6 61.1
18 x 18 x 6 DN450 x DN450 x DN150	6	DN150	13.50 343	11.38 289	160.0 72.6
	8	DN200	13.50 343	11.75 298	161.0 73.0
	10	DN250	13.50 343	12.12 308	163.1 74.0
	12	DN300	13.50 343	12.62 321	165.6 75.1
	14	DN350	13.50 343	13.00 330	167.6 76.0
	16	DN400	13.50 343	13.00 330	168.2 76.3
	18	DN450	13.50 343	13.50 343	171.0 77.0

Size	No. W25 Reducing Tee		Approx. Weight Each			
	Nominal inches DN	Nominal inches DN		C to LE inches mm	C to SE inches mm	
20 x 20 x 6 DN500 x DN500 x DN150	6	DN150	15.00 381	12.38 314	197.0 89.5	
	8	DN200	15.00 381	12.75 324	198.5 90.0	
	10	DN250	15.00 381	13.12 333	200.5 90.9	
	12	DN300	15.00 381	13.62 346	202.9 92.0	
	14 ²	DN350	15.00 381	14.00 356	204.7 92.9	
	16 ²	DN400	15.00 381	14.00 356	205.0 93.0	
	18	DN450	15.00 381	14.50 368	208.4 94.5	
	20	DN500	15.00 381	15.00 381	211.0 95.0	
	24 x 24 x 6 DN600 x DN600 x DN150	6	DN150	17.00 432	14.38 365	260.9 122.0
		8	DN200	17.00 432	14.75 375	270.0 123.0
10		DN250	17.00 432	15.12 384	271.7 123.2	
12		DN300	17.00 432	15.62 397	273.8 124.2	
14		DN350	17.00 432	16.00 406	275.4 125.0	
16		DN400	17.00 432	16.00 406	275.3 125.0	
18		DN450	17.00 432	16.50 419	278.1 127.1	
20		DN500	17.00 432	17.00 432	282.1 128.0	
24		DN600	17.00 432	17.00 432	282.1 128.0	

² Cast fitting available. Contact Victaulic for details.

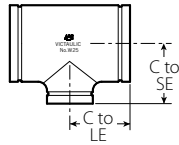
NOTE

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

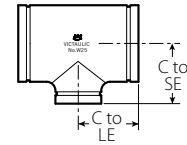
4.3 DIMENSIONS (CONTINUED)

Reducing Tee

No. W25 Reducing Tee
(Segmentally Welded Steel)



No. W25



No. W25

Size			No. W25 Reducing Tee		Approx. Weight Each			
Nominal inches DN			C to LE inches mm	C to SE inches mm				
26 DN650	x	26 DN650	x	14 DN350	19.50	17.00	346.0	
					495.3	431.8	157.0	
					16	17.00	346.0	
					DN400	495.3	431.8	157.0
					18	19.50	17.50	349.0
					DN450	495.3	444.5	158.3
					20	19.50	18.00	352.0
					DN500	495.3	457.2	159.7
28 DN700	x	28 DN700	x	14 DN350	20.50	18.00	391.0	
					520.7	457.2	177.4	
					16	20.50	18.00	391.0
					DN400	520.7	457.2	177.4
					18	20.50	18.50	393.0
					DN450	520.7	469.9	178.3
					20	20.50	19.00	396.0
					DN500	520.7	482.6	179.6
30 DN750	x	30 DN750	x	14 DN350	22.00	19.00	449.0	
					558.8	482.6	203.7	
					16	22.00	19.00	448.0
					DN400	558.8	482.6	203.2
					18	22.00	19.50	451.0
					DN450	558.8	495.3	204.6
					20	22.00	20.00	453.0
					DN500	558.8	508.0	205.5
				16 DN400	22.00	20.50	457.0	
					558.8	520.7	207.3	
					24	22.00	21.00	461.0
					DN600	558.8	533.4	209.1
					26	22.00	21.50	466.0
					DN650	558.8	546.1	211.4
					28	22.00	21.50	467.0
					DN700	558.8	546.1	211.8

² Cast fitting available. Contact Victaulic for details.

NOTE

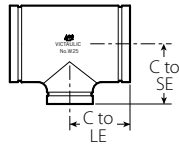
- Outlets 12"/DN300 and smaller will be provided with original Victaulic roll or cut grooves, suitable for use with original Victaulic grooved couplings in that size range.

Size			No. W25 Reducing Tee		Approx. Weight Each			
Nominal inches DN			C to LE inches mm	C to SE inches mm				
32 DN800	x	32 DN800	x	16 DN400	23.50	20.00	510.0	
					596.9	508.0	231.3	
					18	23.50	20.50	512.0
					DN450	596.9	520.7	232.2
					20	23.50	21.00	515.0
					DN500	596.9	533.4	233.6
					22	23.50	21.50	518.0
					DN550	596.9	546.1	235.0
					24	23.50	22.00	522.0
					DN600	596.9	558.8	236.8
					26	23.50	22.50	527.0
					DN650	596.9	571.5	239.1
36 DN900	x	36 DN900	x	18 DN450	26.50	22.50	648.0	
					673.1	571.5	293.9	
					20	26.50	23.00	650.0
					DN500	673.1	584.2	294.8
					22	26.50	23.50	653.0
					DN550	673.1	596.9	296.2
					24	26.50	24.00	656.0
					DN600	673.1	609.6	297.6
38 DN950	x	38 DN950	x	18 DN450	28.00	23.50	722.0	
					711.2	596.9	327.5	
					20	28.00	24.00	724.0
					DN500	711.2	609.6	328.4
					22	28.00	24.50	727.0
					DN550	711.2	622.3	329.8
					24	28.00	25.00	730.0
					DN600	711.2	635.0	331.1
					26	28.00	25.50	734.0
					DN650	711.2	647.7	332.9
					28	28.00	25.50	734.0
					DN700	711.2	647.7	332.9
				20 DN500	28.00	26.50	743.0	
					711.2	673.1	337.0	
					32	28.00	27.00	749.0
					DN800	711.2	685.8	339.8
					36	28.00	28.00	1003.0
					DN900	711.2	711.2	455.0

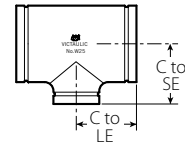
4.3 DIMENSIONS (CONTINUED)

Reducing Tee

No. W25 Reducing Tee
(Segmentally Welded Steel)



No. W25



No. W25

Size	No. W25 Reducing Tee		Approx. Weight Each
	Nominal inches DN	Nominal inches DN	
40 x 40 x 20 DN1000 x DN1000 x DN500	20	25.00	802.0
	22	25.50	804.0
	24	26.00	808.0
	26	26.50	811.0
	28	26.50	811.0
	30	27.50	820.0
	32	28.00	826.0
	36	29.00	1102.0
	38	29.50	1113.0
	42	30.00	1139.0
	44	30.00	1139.0
	46	30.00	1139.0
	48	30.00	1139.0
	50	30.00	1139.0
42 x 42 x 20 DN1050 x DN1050 x DN500	20	30.00	856.0
	22	30.00	854.0
	24	30.00	853.0
	26	30.00	865.0
	28	30.00	864.0
	30	30.00	868.0
	32	30.00	1140.0
	36	30.00	1139.0
	38	30.00	1139.0
	40	30.00	1139.0
	42	30.00	1139.0
	44	30.00	1139.0
	46	30.00	1139.0
	48	30.00	1139.0

Size	No. W25 Reducing Tee		Approx. Weight Each
	Nominal inches DN	Nominal inches DN	
46 x 46 x 22 DN1150 x DN1150 x DN550	22	33.50	1042.0
	24	33.50	1046.0
	26	33.50	1049.0
	28	33.50	1049.0
	30	33.50	1050.0
	32	33.50	1055.0
	36	33.50	1053.0
	38	33.50	1060.0
	40	33.50	1060.0
	42	33.50	1060.0
	44	33.50	1060.0
	46	33.50	1060.0
	48	33.50	1060.0
	50	33.50	1060.0
48 x 48 x 24 DN1200 x DN1200 x DN600	24	35.00	1135.0
	26	35.00	1142.0
	28	35.00	1141.0
	30	35.00	1139.0
	32	35.00	1148.0
	36	35.00	1146.0
	38	35.00	1157.0
	40	35.00	1157.0
	42	35.00	1157.0
	44	35.00	1157.0
	46	35.00	1157.0
	48	35.00	1157.0
	50	35.00	1157.0
	52	35.00	1157.0

² Cast fitting available. Contact Victaulic for details.

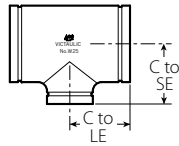
NOTE

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

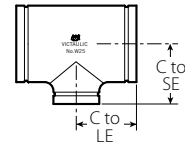
4.3 DIMENSIONS (CONTINUED)

Reducing Tee

No. W25 Reducing Tee
(Segmentally Welded Steel)



No. W25



No. W25

Size			No. W25 Reducing Tee		Approx. Weight Each		
Nominal inches	DN		C to LE inches mm	C to SE inches mm			
54 x DN1350	54 x DN1350	26 DN650	41.00 1041.4	41.00 1041.4	2805.0 1272.3		
		28 DN700	41.00 1041.4	41.00 1041.4	2805.0 1272.3		
		30 v750	41.00 1041.4	41.00 1041.4	2821.0 1279.6		
		32 DN800	41.00 1041.4	41.00 1041.4	2835.0 1285.9		
		36 DN900	41.00 1041.4	41.00 1041.4	2853.0 1294.1		
		38 DN950	41.00 1041.4	41.00 1041.4	2879.0 1305.9		
		40 DN1000	41.00 1041.4	41.00 1041.4	2906.0 1318.1		
		42 DN1050	41.00 1041.4	41.00 1041.4	2932.0 1329.9		
		46 DN1150	41.00 1041.4	41.00 1041.4	2985.0 1354.1		
		48 DN1200	41.00 1041.4	41.00 1041.4	3012.0 1366.2		
		56 x DN1400	56 x DN1400	28 DN700	42.00 1066.8	42.00 1066.8	3059.0 1387.5
				30 DN750	42.00 1066.8	42.00 1066.8	3075.0 1394.8
				32 DN800	42.00 1066.8	42.00 1066.8	3087.0 1400.2
				36 DN900	42.00 1066.8	42.00 1066.8	3111.0 1411.1
				38 DN950	42.00 1066.8	42.00 1066.8	3137.0 1422.9
				40 v1000	42.00 1066.8	42.00 1066.8	3164.0 1434.2
42 DN1050	42.00 1066.8			42.00 1066.8	3190.0 1447.1		
46 DN1150	42.00 1066.8			42.00 1066.8	3243.0 1471.1		
48 DN1200	42.00 1066.8			42.00 1066.8	3269.0 1482.8		
54 DN1350	42.00 1066.8			42.00 1066.8	3349.0 1519.1		

Size			No. W25 Reducing Tee		Approx. Weight Each
Nominal inches	DN		C to LE inches mm	C to SE inches mm	
60 x DN1500	60 x DN1500	30 DN750	44.00 1117.6	44.00 1117.6	3269.0 1482.8
		32 DN800	44.00 1117.6	44.00 1117.6	3308.0 1500.5
		36 DN900	44.00 1117.6	44.00 1117.6	3345.0 1517.3
		38 DN950	44.00 1117.6	44.00 1117.6	3386.0 1535.9
		40 DN1000	44.00 1117.6	44.00 1117.6	3420.0 1551.3
		42 DN1050	44.00 1117.6	44.00 1117.6	3459.0 1569.1
		46 DN1150	44.00 1117.6	44.00 1117.6	3512.0 1593.1
		48 DN1200	44.00 1117.6	44.00 1117.6	3538.0 1604.8
		54 DN1350	44.00 1117.6	44.00 1117.6	3618.0 1641.1
		56 DN1400	44.00 1117.6	44.00 1117.6	3644.0 1652.9

² Cast fitting available. Contact Victaulic for details.

NOTE

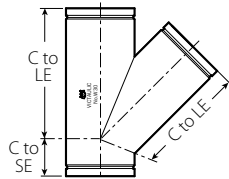
- Outlets 12"/DN300 and smaller will be provided with original Victaulic roll or cut grooves, suitable for use with original Victaulic grooved couplings in that size range.

4.4 DIMENSIONS

45° Lateral

No. W30

(Segmentally Welded Steel)



No. W30

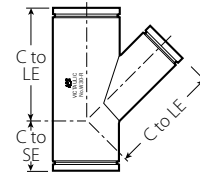
Size		No. W30 45° Lateral		Approx. Weight Each lb kg
Nominal inches DN	Actual Outside Diameter inches mm	C to LE inches mm	C to SE inches mm	
14 DN350	14.000 355.6	26.50 673	7.50 191	219.1 99.4
16 DN400	16.000 406.4	29.00 737	8.00 203	270.5 122.7
18 DN450	18.000 457.0	32.00 813	8.50 216	332.7 150.9
20 DN500	20.000 508.0	35.00 889	9.00 229	401.3 182.0
24 DN600	24.000 610.0	40.00 1016	10.00 254	541.3 245.5

4.5 DIMENSIONS

45° Reducing Lateral

No. W30-R

(Segmentally Welded Steel)



No. W30-R

Size			No. W30-R Reducing Lateral		Approx. Weight Each lb kg		
Nominal inches DN			C to LE inches mm	C to SE inches mm			
14 DN350	x	14 DN350	x	4 DN100	26.50 673	7.50 191	175.9 79.8
				6 DN150	26.50 673	7.50 191	185.9 84.3
				8 DN200	26.50 673	7.50 191	195.0 88.4
				10 DN250	26.50 673	7.50 191	204.4 92.7
				12 DN300	26.50 673	7.50 191	213.3 96.8
				16 DN400	x	16 DN400	x
16 DN400	x	16 DN400	x	8 DN200	29.00 737	8.00 203	236.0 107.1
				10 DN250	29.00 737	8.00 203	246.0 111.6
				12 DN300	29.00 737	8.00 203	255.1 115.7
				14 DN350	29.00 737	8.00 203	260.9 118.4
				6 DN150	32.00 813	8.50 216	274.8 124.6
				8 DN200	32.00 813	8.50 216	285.3 129.4
				12 DN300	32.00 813	8.50 216	306.2 138.9
18 DN450	x	18 DN450	x	14 DN350	32.00 813	8.50 216	312.4 141.7
				16 DN400	32.00 813	8.50 216	322.4 146.2
				12 DN300	35.00 889	9.00 229	362.1 164.3
				14 DN350	35.00 889	9.00 229	368.7 167.2
20 DN500	x	20 DN500	x	16 DN400	35.00 889	9.00 229	379.4 172.1
				16 DN400	40.00 1016	10.00 254	494.9 224.5
				20 DN600	40.00 1016	10.00 254	517.7 234.8

NOTE

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

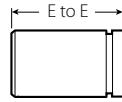
4.6 DIMENSIONS

Adapter Nipple

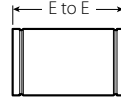
No. W42 AGS Grv. x Bev.

No. W43 AGS Grv. x AGS Grv.

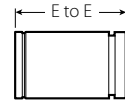
No. W49 AGS Grv. x OGS Grv.
(Segmentally Welded Steel)



No. W42



No. W43



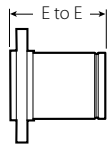
No. W49

Size		No. 42 Adapter Nipple		No. 43 Adapter Nipple		No. 49 Adapter Nipple	
Nominal	Actual Outside Dimeter	E to E	Approx. Weight (Each)	E to E	Approx. Weight (Each)	E to E	Approx. Weight (Each)
inches DN	inches mm	inches mm	lb kg	inches mm	lb kg	inches mm	lb kg
14 DN350	14.000 355.6	8.00 203	36.0 16.3	8.00 203	36.0 16.3	8.00 203	36.0 16.3
16 DN400	16.000 406.4	8.00 203	42.0 19.1	8.00 203	42.0 19.1	8.00 203	42.0 19.1
18 DN450	18.000 457.0	8.00 203	47.0 21.3	8.00 203	47.0 21.3	8.00 203	47.0 21.3
20 DN500	20.000 508.0	8.00 203	52.0 23.6	8.00 203	52.0 23.6	8.00 203	52.0 23.6
24 DN600	24.000 610.0	8.00 203	63.0 28.6	8.00 203	63.0 28.6	8.00 203	63.0 28.6
26 DN650	26.000 660.4	12.00 304.8	104.0 47.1	12.00 304.8	104.0 47.1	- -	- -
28 DN700	28.000 711.2	12.00 304.8	112.0 50.8	12.00 304.8	112.0 50.8	- -	- -
30 DN750	30.000 762.0	12.00 304.8	120.0 54.4	12.00 304.8	120.0 54.4	- -	- -
32 DN800	32.000 812.8	12.00 304.8	128.0 58.1	12.00 304.8	128.0 58.1	- -	- -
36 DN900	36.000 914.4	12.00 304.8	190.0 86.1	12.00 304.8	190.0 86.1	- -	- -
40 DN1000	40.000 1016.0	12.00 304.8	211.0 95.7	12.00 304.8	211.0 95.7	- -	- -
42 DN1050	42.000 1066.8	12.00 304.8	222.0 100.7	12.00 304.8	222.0 100.7	- -	- -
46 DN1150	46.000 1168.4	12.00 304.8	243.0 110.2	12.00 304.8	243.0 110.2	- -	- -
48 DN1200	48.000 1219.2	12.00 304.8	254.0 115.2	12.00 304.8	254.0 115.2	- -	- -
54 DN1350	54.000 371.6	12.00 304.8	286.0 129.7	12.00 304.8	286.0 129.7	- -	- -
56 DN1400	56.000 1422.4	12.00 304.8	297.0 134.7	12.00 304.8	297.0 134.7	- -	- -
60 DN1500	60.000 1524.0	12.00 304.8	318.0 144.2	12.00 304.8	318.0 144.2	- -	- -

4.7 DIMENSIONS

Flanged Adapter Nipple

No. W41 PN10/PN16 Flange



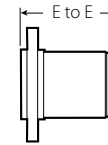
No. W41

No. W41 Flanged Adapter Nipple		
Size	E to E	Approx. Weight Each
Nominal inches DN	inches mm	lbs kg
14 DN350	8.00 203	121.9 55.3
16 DN400	8.00 203	140.0 63.5
18 DN450	8.00 203	168.0 76.2
20 DN500	8.00 203	207.9 94.3
24 DN600	8.00 203	274.0 124.3

4.8 DIMENSIONS

Flanged Adapter Nipple

No. W45R ANSI Class 150 Raised Face (Segmentally Welded Steel)



No. W45R

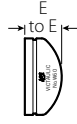
Size		No. W45R 45° Lateral	
Nominal	Actual Outside Diameter	E to E	Approx. Weight Each
inches DN	inches mm	inches mm	lb kg
14 DN350	14.000 355.6	8.00 203	122.0 55.3
16 DN400	16.000 406.4	8.00 203	136.0 61.7
18 DN450	18.000 457.0	8.00 203	168.0 76.2
20 DN500	20.000 508.0	8.00 203	208.0 94.3
24 DN600	24.000 610.0	8.00 203	274.0 124.3
26 DN650	26.000 660.4	12.00 304.8	254.0 115.2
28 DN700	28.000 711.2	12.00 304.8	262.0 118.8
30 DN750	30.000 762.0	12.00 304.8	270.0 122.4
32 DN800	32.000 812.8	12.00 304.8	278.0 126.1
36 DN900	36.000 914.4	12.00 304.8	340.0 154.2
40 DN1000	40.000 1016.0	12.00 304.8	361.0 163.7
42 DN1050	42.000 1066.8	12.00 304.8	372.0 168.7
46 DN1150	46.000 1168.4	12.00 304.8	393.0 178.2
48 DN1200	48.000 1219.2	12.00 304.8	404.0 183.2
54 DN1372	54.000 1371.6	16.00 406.4	436.0 197.8
56 DN1422	56.000 1422.2	16.00 406.4	447.0 202.8
60 DN1524	60.000 1524.0	16.00 406.4	468.0 212.3

4.9 DIMENSIONS

Cap

No. W60

(Segmentally Welded Steel)



No. W60

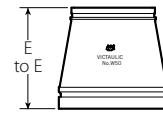
Size		No. W60 Cap	
Nominal inches DN	Actual Outside Diameter inches mm	E to E inches mm	Approx. Weight Each lb kg
14 DN350	14.000 355.6	6.50 165.0	33.2 15.1
16 DN400	16.000 406.4	7.00 178.0	41.2 18.7
18 DN450	18.000 457.0	8.00 203.0	54.6 24.8
20 DN500	20.000 508.0	9.00 229.0	67.5 30.6
24 DN600	24.000 610.0	10.50 267.0	96.0 43.5
26 DN650	26.000 660.4	14.50 368.3	144.0 65.3
28 DN700	28.000 711.2	15.00 381.0	166.0 75.2
30 DN750	30.000 762.0	15.50 393.7	187.0 84.8
32 DN800	32.000 812.8	16.00 406.4	209.0 94.8
36 DN900	36.000 914.4	17.00 431.8	253.0 114.7
40 DN1000	40.000 1016.8	18.00 457.2	391.0 177.3
42 DN1050	42.000 1066.8	18.50 469.9	420.0 190.5
46 DN1150	46.000 1168.4	19.50 495.3	532.0 241.3
48 DN1200	48.000 1219.2	20.00 508.0	613.0 278.1
54 DN1372	54.000 1371.6	21.50 546.1	785.0 356.1
56 DN1422	56.000 1422.4	22.00 558.8	875.0 396.8
60 DN1524	60.000 1524.0	23.00 584.2	977.0 443.1

4.10 DIMENSIONS

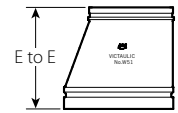
Concentric/Eccentric Reducer

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	6 DN150	14.00 356	68.0 30.8	13.00 330	68.0 30.8
	8 DN200	14.00 356	70.0 31.8	13.00 330	70.0 31.8
	10 ³ DN250	14.00 356	72.0 32.7	13.00 330	72.0 32.7
	12 ³ DN300	14.00 356	74.0 33.6	13.00 330	74.0 33.6
377 mm	10 273	13.00 330	73.6 33.4	13.00 330	81.9 37.1
	12 323.9	13.00 330	78.1 35.4	13.00 330	86.8 39.4
	16 DN400	14.00 356	88.0 39.9	14.00 356	88.0 39.9
10 DN250	8 DN200	14.00 356	91.0 41.3	14.00 356	91.0 41.3
	12 ³ DN300	14.00 356	93.0 42.2	14.00 356	93.0 42.2
	14 ³ DN350	14.00 356	95.0 43.1	14.00 356	95.0 43.1
	12 323.9	14.00 356	91.7 41.6	14.00 356	101.9 46.2
377 mm	14.00 356	95.6 43.4	14.00 356	106.9 48.5	
	18 DN450	15.00 381	112.0 50.8	15.00 381	112.0 50.8
12 DN300	10 DN250	15.00 381	115.0 52.2	15.00 381	115.0 52.2
	14 ³ DN350	15.00 381	118.0 53.5	15.00 381	118.0 53.5
	16 ³ DN400	15.00 381	121.0 54.9	15.00 381	121.0 54.9
	12 323.9	15.00 381	125.1 56.8	15.00 381	139.4 63.3
377 mm	15.00 381	119.2 54.1	15.00 381	119.2 60.9	
	20 DN500	20.00 508	160.0 72.6	20.00 508	160.0 72.6
14 DN350	12 DN300	20.00 508	164.0 74.4	20.00 508	164.0 74.4
	16 ³ DN400	20.00 508	168.0 76.2	20.00 508	168.0 76.2
	18 ³ DN450	20.00 508	172.0 78.	20.00 508	172.0 78.
	16 DN400	20.00 508	198.0 89.8	20.00 508	198.0 89.8
	18 ³ DN450	20.00 508	200.0 90.7	20.00 508	200.0 90.7
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	14 DN350	24.00 609.6	167.0 75.7	24.00 609.6	159.0 72.1
	16 DN400	24.00 609.6	173.0 78.4	24.00 609.6	167.0 75.7
	18 DN450	24.00 609.6	179.0 81.1	24.00 609.6	175.0 79.3
	20 DN500	24.00 609.6	185.0 83.9	24.00 609.6	183.0 83.1
	22 DN550	24.00 609.6	192.0 87.1	24.00 609.6	191.0 86.6
	24 DN600	24.00 609.6	199.0 90.2	24.00 609.6	199.0 90.2
	28 DN700	14 DN350	24.00 609.6	180.0 81.6	24.00 609.6
16 DN400	16 DN400	24.00 609.6	185.0 83.9	24.00 609.6	175.0 79.3
	18 DN450	24.00 609.6	190.0 86.1	24.00 609.6	183.0 83.0
	20 DN500	24.00 609.6	196.0 88.9	24.00 609.6	191.0 86.6
	22 DN550	24.00 609.6	202.0 91.6	24.00 609.6	199.0 90.2
	24 DN600	24.00 609.6	208.0 94.3	24.00 609.6	207.0 93.8
	26 DN650	24.00 609.6	216.0 97.9	24.00 609.6	215.0 97.5
	30 DN750	14 DN350	24.00 609.6	192.0 87.1	24.00 609.6
16 DN400	16 DN400	24.00 609.6	197.0 89.3	24.00 609.6	183.0 83.1
	18 DN450	24.00 609.6	202.0 91.6	24.00 609.6	191.0 86.6
	20 DN500	24.00 609.6	207.0 93.8	24.00 609.6	199.0 90.2
	22 DN550	24.00 609.6	213.0 96.6	24.00 609.6	207.0 93.8
	24 DN600	24.00 609.6	218.0 98.8	24.00 609.6	215.0 97.5
	26 DN650	24.00 609.6	225.0 102.1	24.00 609.6	223.0 101.5
	28 DN700	24.00 609.6	232.0 105.2	24.00 609.6	232.0 105.2

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

NOTE

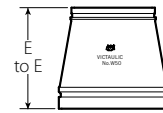
- Outlets 12"/DN300 and smaller will be provided with standard Victaulic roll or cut grooves, suitable for use with standard Victaulic grooved couplings in that size range.

4.10 DIMENSIONS (CONTINUED)

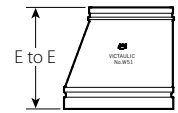
Concentric/Eccentric Reducer

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	
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
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

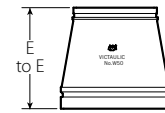
- Outlets 12"/DN300 and smaller will be provided with standard Victaulic roll or cut grooves, suitable for use with standard Victaulic grooved couplings in that size range.

4.10 DIMENSIONS (CONTINUED)

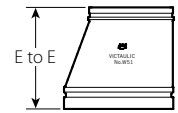
Concentric/Eccentric Reducer

No. W50 Concentric

No. W51 Eccentric



No. W50



No. W51

Size		No. W50 Concentric Reducer		No. W51 Eccentric Reducer		
Nominal inches		E to E inches	Approx. Weight (Each) lb	E to E inches	Approx. Weight (Each) lb	
DN		mm	kg	mm	kg	
48 DN1200 ^x	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 ^x	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		E to E inches	Approx. Weight (Each) lb	E to E inches	Approx. Weight (Each) lb	
DN		mm	kg	mm	kg	
56 DN1400 ^x	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 ^x	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.

5.0 PERFORMANCE

Flow Data

(Frictional Resistance)

The chart expresses the frictional resistance of various Victaulic fittings as equivalent feet/meters of straight pipe. Fittings not listed can be estimated from the data given, for example, a 22 ½° elbow is approximately one-half the resistance of a 45° elbow. Values of mid-sizes can be interpolated.

Size		Frictional Resistance- Equivalent					
Nominal inches DN	Actual Outside Diameter inches mm	Elbows				Tees	
		90° Elbows		45° Elbows			
		No. W10 Std. Radius Feet metres	No. W100 1 ½ D Long Radius Feet metres	No. W11 Std. Feet metres	No. W110 1 ½ D Long Radius Feet metres	Branch Feet metres	Run Feet metres
14	14.000	24.5	15.8	18.5	11.0	70.0	23.0
DN350	355.6	7.5	4.8	5.6	3.4	21.3	7.0
16	16.000	28.0	18.0	21.0	13.0	80.0	27.0
DN400	406.4	8.5	5.5	6.4	4.0	24.4	8.2
18	18.000	31.0	20.0	23.5	14.0	90.0	30.0
DN450	457.0	9.5	6.1	7.2	4.3	27.4	9.1
20	20.000	34.0	22.5	25.5	16.0	100.0	33.0
DN500	508.0	10.4	6.9	7.8	4.9	30.5	10.1
24	24.000	42.0	27.0	29.5	19.0	120.0	40.0
DN600	610.0	12.8	8.2	9.0	5.8	36.6	12.2
26	26.000	–	29.3	–	20.4	130.0	42.7
DN650	660.4	–	8.9	–	6.2	39.6	13.0
28	28.000	–	31.5	–	22.0	140.0	46.0
DN700	711.2	–	9.6	–	6.7	42.7	14.0
30	30.000	–	33.8	–	23.6	150.0	49.3
DN750	762.0	–	10.3	–	7.2	45.7	15.0
32	32.000	–	36.0	–	25.1	160.0	52.6
DN800	812.8	–	11.0	–	7.7	48.8	16.0
36	36.000	–	40.5	–	28.3	180.0	59.1
DN900	914.4	–	12.3	–	8.6	54.8	18.0
38	38.000	–	42.8	–	29.9	190.0	62.4
DN950	965.2	–	13.1	–	9.1	57.9	19.0
40	40.000	–	45.0	–	31.4	200.0	65.7
DN1000	1016.0	–	13.7	–	9.6	61.0	20.0
42	42.000	–	47.3	–	33.0	210.0	69.0
DN1050	1066.8	–	14.4	–	10.1	64.0	21.0
46	46.000	–	51.8	–	36.1	230.0	75.6
DN1150	1168.4	–	15.8	–	11.0	70.1	23.0
48	48.000	–	54.0	–	37.7	240.0	78.8
DN1200	1219.2	–	16.5	–	11.5	73.2	24.0

NOTE

- The flow data listed is based upon the pressure drop of standard wall pipe. Contact Victaulic for data on sizes not shown above.

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.

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