



## Victaulic® AGS Grooved End Fittings



**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.

System No.		Location	
Submitted By		Date	

Spec Section		Paragraph	
Approved		Date	





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[victaulic.com](http://victaulic.com)

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### 3.0 SPECIFICATIONS – MATERIAL

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**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.

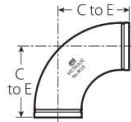


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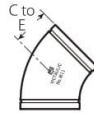
## 4.0 DIMENSIONS

### Elbows and Tees

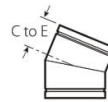
- No. W10** 90° Elbow
- No. W11** 45° Elbow
- No. W12** 22½° Elbow
- No. W13** 11¼° Elbow  
(Ductile Iron<sup>1</sup>)



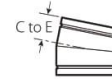
No. W10



No. W11



No. W12



No. W13

Size		No. W10 90° Elbow		No. W11 45° Elbow		No. W12 22½° Elbow		No. W13 11¼° Elbow	
Nominal	Actual Outside Diameter	C to E	Approx. Weight Each	C to E	Approx. Weight Each	C to E	Approx. Weight Each	C to E	Approx. Weight Each
inches DN	inches mm	inches mm	lb kg	inches mm	lb kg	inches mm	lb kg	inches mm	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

<sup>1</sup> Ductile iron except those marked (sw) which are segmentally welded steel.



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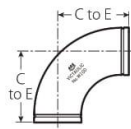
## 4.1 DIMENSIONS

### Elbows and Tees

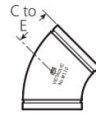
**No. W100** 90° Long Radius

**No. W110** 45° Long Radius

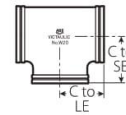
**No. W20** Tee  
(Ductile Iron<sup>1</sup>)



No. W100



No. W110



No. W20

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

<sup>1</sup> Ductile iron except those marked (sw) which are segmentally welded steel.



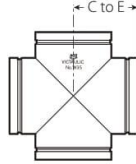
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## 4.2 DIMENSIONS

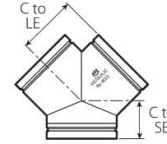
### Crosses and Wyes

**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 inches DN	Actual Outside Diameter inches mm	C to E inches mm	Approx. Weight Each lb kg	C to LE inches mm	C to SE inches mm	Approx. Weight Each 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



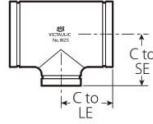


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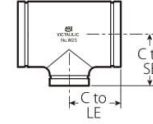
### 4.3 DIMENSIONS

#### Reducing Tee

**No. W25** Reducing Tee  
(Segmentally Welded Steel)



No. W25



No. W25

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

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

<sup>2</sup> 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.

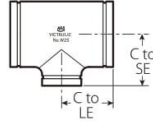


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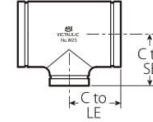
**4.3 DIMENSIONS (Continued)**

**Reducing Tee**

**No. W25 Reducing Tee**  
(Segmentally Welded Steel)



No. W25



No. W25

Size			No. W25 Reducing Tee		Approx. Weight Each lb kg								
Nominal inches DN			C to LE inches mm	C to SE inches mm									
26 DN650	x	26 DN650	x	14 DN350	19.50 495.3	17.00 431.8	346.0 157.0						
					16 DN400	19.50 495.3	17.00 431.8	346.0 157.0					
					18 DN450	19.50 495.3	17.50 444.5	349.0 158.3					
					20 DN500	19.50 495.3	18.00 457.2	352.0 159.7					
					22 DN550	19.50 495.3	18.50 469.9	356.0 161.5					
					24 DN600	19.50 495.3	19.00 482.6	361.0 163.8					
					28 DN700	x	28 DN700	x	14 DN350	20.50 520.7	18.00 457.2	391.0 177.4	
										16 DN400	20.50 520.7	18.00 457.2	391.0 177.4
										18 DN450	20.50 520.7	18.50 469.9	393.0 178.3
										20 DN500	20.50 520.7	19.00 482.6	396.0 179.6
22 DN550	20.50 520.7	19.50 495.3	400.0 181.4										
24 DN600	20.50 520.7	20.00 508.0	404.0 183.3										
16 DN650	20.50 520.7	20.50 520.7	410.0 186.0										
30 DN750	x	30 DN750	x	14 DN350						22.00 558.8	19.00 482.6	449.0 203.7	
										16 DN400	22.00 558.8	19.00 482.6	448.0 203.2
										18 DN450	22.00 558.8	19.50 495.3	451.0 204.6
					20 DN500	22.00 558.8	20.00 508.0	453.0 205.5					
					22 DN550	22.00 558.8	20.50 520.7	457.0 207.3					
					24 DN600	22.00 558.8	21.00 533.4	461.0 209.1					
					26 DN650	22.00 558.8	21.50 546.1	466.0 211.4					
					28 DN700	22.00 558.8	21.50 546.1	467.0 211.8					

Size			No. W25 Reducing Tee		Approx. Weight Each lb kg							
Nominal inches DN			C to LE inches mm	C to SE inches mm								
32 DN800	x	32 DN800	x	16 DN400	23.50 596.9	20.00 508.0	510.0 231.3					
					18 DN450	23.50 596.9	20.50 520.7	512.0 232.2				
					20 DN500	23.50 596.9	21.00 533.4	515.0 233.6				
					22 DN550	23.50 596.9	21.50 546.1	518.0 235.0				
					24 DN600	23.50 596.9	22.00 558.8	522.0 236.8				
					26 DN650	23.50 596.9	22.50 571.5	527.0 239.1				
					28 DN700	23.50 596.9	22.50 571.5	527.0 239.1				
					30 DN750	23.50 596.9	23.00 584.2	533.0 241.8				
					36 DN900	x	36 DN900	x	18 DN450	26.50 673.1	22.50 571.5	648.0 293.9
										20 DN500	26.50 673.1	23.00 584.2
22 DN550	26.50 673.1	23.50 596.9	653.0 296.2									
24 DN600	26.50 673.1	24.00 609.6	656.0 297.6									
26 DN650	26.50 673.1	24.50 622.3	661.0 299.8									
28 DN700	26.50 673.1	24.50 622.3	661.0 299.8									
30 DN750	26.50 673.1	25.00 635.0	666.0 302.1									
32 DN800	26.50 673.1	25.50 647.7	671.0 304.4									
38 DN950	x	38 DN950	x	18 DN450						28.00 711.2	23.50 596.9	722.0 327.5
										20 DN500	28.00 711.2	24.00 609.6
					22 DN550	28.00 711.2	24.50 622.3	727.0 329.8				
					24 DN600	28.00 711.2	25.00 635.0	730.0 331.1				
					26 DN650	28.00 711.2	25.50 647.7	734.0 332.9				
					28 DN700	28.00 711.2	25.50 647.7	734.0 332.9				
					30 DN750	28.00 711.2	26.50 673.1	743.0 337.0				
					32 DN800	28.00 711.2	27.00 685.8	749.0 339.8				
					36 DN900	28.00 711.2	28.00 711.2	1003.0 455.0				

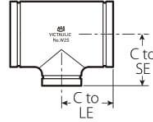


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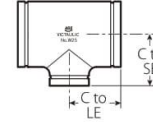
**4.3 DIMENSIONS (Continued)**

**Reducing Tee**

**No. W25 Reducing Tee**  
 (Segmentally Welded Steel)



No. W25



No. W25

Size			No. W25 Reducing Tee		Approx. Weight Each lb kg						
Nominal inches DN			C to LE inches mm	C to SE inches mm							
40 DN1000	x	40 DN1000	x	20 DN500	29.50 749.3	25.00 635.0	802.0 363.8				
				22 DN550	29.50 749.3	25.50 647.7	804.0 364.7				
				24 DN600	29.50 749.3	26.00 660.4	808.0 366.5				
				26 DN650	29.50 749.3	26.50 673.1	811.0 367.9				
				28 DN700	29.50 749.3	26.50 673.1	811.0 367.9				
				30 DN750	29.50 749.3	27.50 698.5	820.0 371.9				
				32 DN800	29.50 749.3	28.00 711.2	826.0 374.7				
				36 DN900	29.50 749.3	29.00 736.6	1102.0 499.9				
				38 DN950	29.50 749.3	29.50 749.3	1113.0 504.9				
				42 DN1050	x	42 DN1050	x	20 DN500	30.00 762.0	26.00 660.4	856.0 388.3
								22 DN550	30.00 762.0	26.00 660.4	854.0 387.3
								24 DN600	30.00 762.0	26.00 660.4	853.0 386.9
								26 DN650	30.00 762.0	27.50 698.5	865.0 392.4
								28 DN700	30.00 762.0	27.50 698.5	864.0 391.9
30 DN750	30.00 762.0	28.00 711.2	868.0 393.7								
32 DN800	30.00 762.0	28.00 711.2	1140.0 517.1								
36 DN900	30.00 762.0	28.00 711.2	1139.0 516.7								
38 DN950	30.00 762.0	28.00 711.2	1139.0 516.7								
40 DN1000	30.00 762.0	28.00 711.2	1139.0 516.7								

Size			No. W25 Reducing Tee		Approx. Weight Each lb kg						
Nominal inches DN			C to LE inches mm	C to SE inches mm							
46 DN1150	x	46 DN1150	x	22 DN550	33.50 850.9	28.50 723.9	1042.0 472.7				
				24 DN600	33.50 850.9	28.50 723.9	1046.0 474.5				
				26 DN650	33.50 850.9	29.00 736.6	1049.0 475.8				
				28 DN700	33.50 850.9	29.00 736.6	1049.0 475.8				
				30 DN750	33.50 850.9	29.00 736.6	1050.0 476.3				
				32 DN800	33.50 850.9	29.50 749.3	1055.0 478.6				
				36 DN900	33.50 850.9	30.00 762.0	1053.0 477.6				
				38 DN950	33.50 850.9	30.00 762.0	1060.0 480.8				
				40 DN1000	33.50 850.9	30.50 774.7	1060.0 480.8				
				42 DN1050	33.50 850.9	31.00 787.4	1060.0 480.8				
				48 DN1200	x	48 DN1200	x	24 DN600	35.00 889.0	29.00 736.6	1135.0 514.8
								26 DN650	35.00 889.0	30.00 762.0	1142.0 518.0
								28 DN700	35.00 889.0	30.00 762.0	1141.0 517.6
								30 DN750	35.00 889.0	30.00 762.0	1139.0 516.7
32 DN800	35.00 889.0	31.00 787.4	1148.0 520.7								
36 DN900	35.00 889.0	31.00 787.4	1146.0 519.8								
38 DN950	35.00 889.0	32.00 812.8	1157.0 524.8								
40 DN1000	35.00 889.0	32.00 812.8	1157.0 524.8								
42 DN1050	35.00 889.0	32.00 812.8	1157.0 524.8								
46 DN1150	35.00 889.0	33.00 838.2	1539.0 698.1								



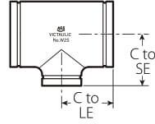


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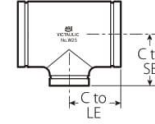
### 4.3 DIMENSIONS (Continued)

#### Reducing Tee

**No. W25** Reducing Tee  
 (Segmentally Welded Steel)



No. W25



No. W25

Size	No. W25 Reducing Tee		Approx. Weight Each lb kg		
	C to LE inches mm	C to SE inches mm			
54 x 54 x DN1350 x DN1350 x	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 56 x DN1400 x DN1400 x	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 lb kg	
	C to LE inches mm	C to SE inches mm		
60 x 60 x DN1500 x DN1500 x	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

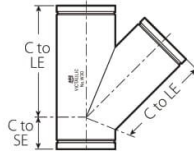


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**4.4 DIMENSIONS**

**45° Lateral**

**No. W30**  
 (Segmentally Welded Steel)



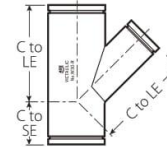
No. W30

Size		No. W30 45° Lateral		Approx. Weight Each
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	x	Nominal inches DN	x	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
				14 DN350	26.50 673	7.50 191	213.3 96.8
16 DN400	x	16 DN400	x	6 DN150	29.00 737	8.00 203	226.4 102.7
				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
				16 DN400	29.00 737	8.00 203	260.9 118.4
18 DN450	x	18 DN450	x	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
				14 DN350	32.00 813	8.50 216	312.4 141.7
				16 DN400	32.00 813	8.50 216	322.4 146.2
				18 DN450	32.00 813	8.50 216	322.4 146.2
20 DN500	x	20 DN500	x	12 DN300	35.00 889	9.00 229	362.1 164.3
				14 DN350	35.00 889	9.00 229	368.7 167.2
				16 DN400	35.00 889	9.00 229	379.4 172.1
				20 DN500	35.00 889	9.00 229	379.4 172.1
24 DN600	x	24 DN600	x	16 DN400	40.00 1016	10.00 254	494.9 224.5
				20 DN500	40.00 1016	10.00 254	517.7 234.8
				24 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.



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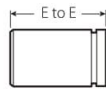
## 4.6 DIMENSIONS

### Adapter Nipple

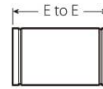
**No. W42** AGS Grv. x Bev.

**No. W43** AGS Grv. x AGS Grv.

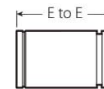
**No. W49** AGS Grv. x OGS Grv.  
 (Segmentally Welded Steel)



No. W42



No. W43



No. W49

Size		No. 42 Adapter Nipple		No. 43 Adapter Nipple		No. 49 Adapter Nipple	
Nominal inches DN	Actual Outside Dimeter inches mm	E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) lb kg	E to E inches mm	Approx. Weight (Each) 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 1371.6	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	-	-

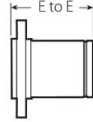


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**4.7 DIMENSIONS**

**Flanged Adapter Nipple**

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



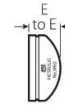
No. W45R

Size		No. W45R 45° Lateral	
Nominal inches DN	Actual Outside Diameter inches mm	E to E inches mm	Approx. Weight Each 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

**4.8 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





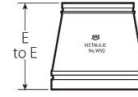
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#### 4.9 DIMENSIONS

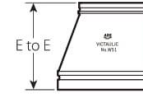
##### Concentric/Eccentric Reducer

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	6	14.00	68.0	13.00	68.0
	DN150	356	30.8	330	30.8
	8	14.00	70.0	13.00	70.0
	DN200	356	31.8	330	31.8
10 <sup>3</sup> DN250	10 <sup>3</sup>	14.00	72.0	13.00	72.0
	DN250	356	32.7	330	32.7
	12 <sup>3</sup>	14.00	74.0	13.00	74.0
	DN300	356	33.6	330	33.6
377 mm x 10 273	10	13.00	73.6	13.00	81.9
	273	330	33.4	330	37.1
	12	13.00	78.1	13.00	86.8
323.9	323.9	330	35.4	330	39.4
	16 DN400 x 8 DN200	14.00	88.0	14.00	88.0
DN200	8	356	39.9	356	39.9
	10	14.00	91.0	14.00	91.0
DN250	DN250	356	41.3	356	41.3
	12 <sup>3</sup>	14.00	93.0	14.00	93.0
DN300	DN300	356	42.2	356	42.2
	14 <sup>3</sup>	14.00	95.0	14.00	95.0
DN350	DN350	356	43.1	356	43.1
	426 mm x 12 323.9	14.00	91.7	14.00	101.9
377 mm	323.9	356	41.6	356	46.2
	14.00	95.6	14.00	106.9	
377 mm	356	43.4	356	48.5	
18 DN450 x 10 DN250	10	15.00	112.0	15.00	112.0
	DN250	381	50.8	381	50.8
	12	15.00	115.0	15.00	115.0
	DN300	381	52.2	381	52.2
14 <sup>3</sup> DN350	14 <sup>3</sup>	15.00	118.0	15.00	118.0
	DN350	381	53.5	381	53.5
16 <sup>3</sup> DN400	16 <sup>3</sup>	15.00	121.0	15.00	121.0
	DN400	381	54.9	381	54.9
480 mm x 426 mm	15.00	125.1	15.00	139.4	
	381	56.8	381	63.3	
377 mm	15.00	119.2	15.00	119.2	
	381	54.1	381	60.9	
20 DN500 x 12 DN300	12	20.00	160.0	20.00	160.0
	DN300	508	72.6	508	72.6
	14	20.00	164.0	20.00	164.0
	DN350	508	74.4	508	74.4
16 <sup>3</sup> DN400	16 <sup>3</sup>	20.00	168.0	20.00	168.0
	DN400	508	76.2	508	76.2
18 <sup>3</sup> DN450	18 <sup>3</sup>	20.00	172.0	20.00	172.0
	DN450	508	78.	508	78.
24 DN600 x 16 DN400	16	20.00	198.0	20.00	198.0
	DN400	508	89.8	508	89.8
	18 <sup>3</sup> DN450	20.00	200.0	20.00	200.0
20 <sup>3</sup> DN500	20 <sup>3</sup>	20.00	204.0	20.00	204.0
	DN500	508	92.5	508	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	14	24.00	167.0	24.00	159.0
	DN350	609.6	75.7	609.6	72.1
	16	24.00	173.0	24.00	167.0
	DN400	609.6	78.4	609.6	75.7
	18	24.00	179.0	24.00	175.0
	DN450	609.6	81.1	609.6	79.3
	20	24.00	185.0	24.00	183.0
DN500	DN500	609.6	83.9	609.6	83.1
	22	24.00	192.0	24.00	191.0
	DN550	609.6	87.1	609.6	86.6
	24	24.00	199.0	24.00	199.0
DN600	DN600	609.6	90.2	609.6	90.2
	28 DN700 x 14 DN350	24.00	180.0	24.00	167.0
DN350	14	609.6	81.6	609.6	75.7
	16	24.00	185.0	24.00	175.0
DN400	DN400	609.6	83.9	609.6	79.3
	18	24.00	190.0	24.00	183.0
DN450	DN450	609.6	86.1	609.6	83.0
	20	24.00	196.0	24.00	191.0
DN500	DN500	609.6	88.9	609.6	86.6
	22	24.00	202.0	24.00	199.0
DN550	DN550	609.6	91.6	609.6	90.2
	24	24.00	208.0	24.00	207.0
DN600	DN600	609.6	94.3	609.6	93.8
	26	24.00	216.0	24.00	215.0
DN650	DN650	609.6	97.9	609.6	97.5
	30 DN750 x 14 DN350	24.00	192.0	24.00	175.0
DN350	14	609.6	87.1	609.6	79.3
	16	24.00	197.0	24.00	183.0
DN400	DN400	609.6	89.3	609.6	83.1
	18	24.00	202.0	24.00	191.0
DN450	DN450	609.6	91.6	609.6	86.6
	20	24.00	207.0	24.00	199.0
DN500	DN500	609.6	93.8	609.6	90.2
	22	24.00	213.0	24.00	207.0
DN550	DN550	609.6	96.6	609.6	93.8
	24	24.00	218.0	24.00	215.0
DN600	DN600	609.6	98.8	609.6	97.5
	26	24.00	225.0	24.00	223.0
DN650	DN650	609.6	102.1	609.6	101.5
	28	24.00	232.0	24.00	232.0
DN700	DN700	609.6	105.2	609.6	105.2

<sup>3</sup> 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.



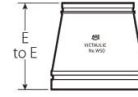
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**4.9 DIMENSIONS (Continued)**

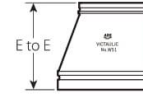
**Concentric/Eccentric Reducer**

**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 x	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 x	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 x		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 x	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 x	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



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#### 4.9 DIMENSIONS (Continued)

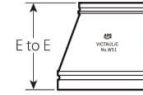
##### Concentric/Eccentric Reducer

**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	Approx. Weight (Each) lb kg	
48 DN1200 x	24 DN600	28.00 711.2	507.0 229.9	444.0 201.4	
	26 DN650	28.00 711.2	513.0 232.6	456.0 206.8	
	28 DN700	28.00 711.2	518.0 234.9	467.0 211.8	
	30 DN750	28.00 711.2	523.0 237.2	481.0 218.1	
	32 DN800	28.00 711.2	529.0 239.9	494.0 224.1	
	36 DN900	28.00 711.2	541.0 245.3	516.0 234.1	
	38 DN950	28.00 711.2	548.0 248.5	529.0 239.9	
	40 DN1000	28.00 711.2	557.0 252.6	542.0 245.8	
	42 DN1050	28.00 711.2	565.0 256.2	554.0 251.3	
	46 DN1150	28.00 711.2	586.0 265.8	579.0 262.6	
	54 DN1350 x	26 DN650	54.00 1371.6	995.0 451.3	950.0 430.9
		28 DN700	54.00 1371.6	1015.0 460.4	974.0 441.8
		30 DN750	54.00 1371.6	1035.0 469.4	998.0 452.6
		32 DN800	54.00 1371.6	1054.0 478.1	1022.0 463.5
36 DN900		54.00 1371.6	1095.0 496.6	1070.0 485.3	
38 DN950		54.00 1371.6	1116.0 506.2	1095.0 496.6	
40 DN1000		54.00 1371.6	1137.0 515.7	1119.0 507.5	
42 DN1050		54.00 1371.6	1158.0 525.2	1143.0 518.4	
46 DN1150		54.00 1371.6	1202.0 545.2	1191.0 540.2	
48 DN1200		54.00 1371.6	1224.0 555.2	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	Approx. Weight (Each) lb kg	
56 DN1400 x	28 DN700	56.00 1422.4	1081.0 490.3	1035.0 469.4	
	30 DN750	56.00 1422.4	1101.0 499.4	1060.0 480.8	
	32 DN800	56.00 1422.4	1122.0 508.9	1085.0 492.1	
	36 DN900	56.00 1422.4	1164.0 527.9	1135.0 514.8	
	38 DN950	56.00 1422.4	1185.0 537.5	1160.0 526.1	
	40 DN1000	56.00 1422.4	1207.0 547.4	1186.0 537.9	
	42 DN1050	56.00 1422.4	1228.0 557.1	1211.0 549.3	
	46 DN1150	56.00 1422.4	1273.0 577.8	1261.0 571.9	
	48 DN1200	56.00 1422.4	1296.0 587.7	1286.0 583.3	
	54 DN1350	56.00 1422.4	1368.0 620.5	1361.0 617.3	
	60 DN1500 x	30 DN750	60.00 1524.0	1241.0 562.9	1190.0 539.7
		32 DN800	60.00 1524.0	1263.0 572.8	1217.0 552.1
		36 DN900	60.00 1524.0	1307.0 592.8	1270.0 576.1
		38 DN950	60.00 1524.0	1330.0 603.2	1297.0 588.3
40 DN1000		60.00 1524.0	1353.0 613.7	1324.0 600.5	
42 DN1050		60.00 1524.0	1376.0 624.1	1351.0 612.8	
46 DN1150		60.00 1524.0	1423.0 645.4	1404.0 636.8	
48 DN1200		60.00 1524.0	1447.0 656.3	1431.0 649.1	
54 DN1350		60.00 1524.0	1521.0 689.9	1512.0 685.8	
56 DN1400		60.00 1524.0	1547.0 701.7	1538.0 697.6	





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## 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.