

# Victaulic® Dynamic Movement Joint

## Style W257



### 1.0 PRODUCT DESCRIPTION

#### Available Pipe Sizes

- 14 – 72"/DN350 – DN1800
- For pipe sizes greater than 50"/DN1250: Style W257 products utilize Vic-Rings. See [publication 16.12](#) for additional information.
- For pipe sizes greater than 72", contact Victaulic.

#### Maximum Working Pressure

- 14 – 24"/DN350 – DN600: 350 psi/2413 kPa
- 26 – 42"/DN650 – DN950: 300 psi/2068 kPa
- 44 – 50"/DN1100 – DN1250: 232 psi/1599 kPa
- 52 – 72"/DN1300 – DN1600: 250 psi/1724 kPa

#### Movement

- Standard movement of 1 – 4"
- For movement requirements greater than 4", contact Victaulic.

#### Function

- Supports the accommodation of seismic movement, thermal movement and differential settlement

#### Application

- Meets the design requirements of AWWA M11 for the accommodation of differential settlement
- Coated and lined in accordance with the requirements of AWWA C210 Liquid Epoxy Coating Systems for the Interior and Exterior of Steel Water Pipelines
- For buried applications please see the Style W257B for Buried Services Dynamic Movement Joint [publication 20.36](#).
- At minimum, above ground Style W257 dynamic movement joints shall be supported at the field connections and the center spool. For details on flexible coupling support spacing, please see [publication 26.01](#).
- For field connections for the Style W257, installers shall refer to [publication 20.03](#) (W77/W77B) for torque requirements.

### 2.0 CERTIFICATION/LISTINGS

Product designed, manufactured and tested under the Victaulic Quality Management System, as certified by LPCB in accordance with ISO – 9001:2015.

The Grade "E" EPDM gasket is certified for use in drinking water systems by UL LLC in accordance with ANSI/NSF – 61 Drinking Water System Components – Health Effects and ANSI/NSF – 372 Drinking Water System Components – Lead Content for sizes up to 50"/DN1250.

For sizes above 50"/DN1250 please contact Victaulic.

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

### 3.0 SPECIFICATIONS – MATERIAL

**Housing:**

Ductile iron conforming to ASTM A536, Grade 65 – 45 – 12.

**Vic-Ring Material:**

Carbon Steel to ASTM A105 or equivalent

**Housing Coating (Specify Choice):**

Standard: Liquid Epoxy conforming with AWWA C210 and NSF Certified in accordance with NSF/ANSI/CAN 61 (North America)

Standard: Liquid Epoxy in accordance with EN 10289 (Other Regions)

Optional: Others, contact Victaulic with your requirements.

**Spools:**

14 – 72"/DN350 – DN1800: Meeting the physical and mechanical requirements of the following pipe standards: ASTM A53, API 5L, AWWA C200, EN/BS10216 – 1, EN/BS10217 – 1, GB/T 3091, GB/T 8163 or other internationally recognized standards.

52 – 72"/DN1300 – DN1800: Carbon Steel to ASTM A105 or equivalent.

**External Pipe Coating (Specify Choice):**

Standard: Liquid Epoxy conforming with AWWA C210 and NSF Certified in accordance with NSF/ANSI/CAN 61 (North America)

Standard: Liquid Epoxy in accordance with EN 10289 (Other Regions)

Optional: Others, contact Victaulic with your requirements.

**Pipe Lining (Specify Choice):**

Standard: Liquid Epoxy conforming with AWWA C210 and NSF Certified in accordance with NSF/ANSI/CAN 61 (North America)

Standard: Liquid Epoxy in accordance with EN 10339 (Other Regions)

Optional: Cement/Mortar Type 2 Lining conforming to AWWA C104

Optional: Others, contact Victaulic with your requirements.

**Gasket: (specify choice<sup>1</sup>)****Grade “E” FlushSeal EPDM**

EPDM (Green stripe color code). Temperature range –30°F to +230°F/–34°C to +110°C. May be specified for hot water service within the specified temperature range plus a variety of dilute acids, oil – free air and many chemical services. UL Classified in accordance with ANSI/NSF 61 for cold +73°F/+23°C and hot +180°F/+82°C potable water service and ANSI/NSF 372. NOT COMPATIBLE FOR USE WITH PETROLEUM SERVICES OR STEAM SERVICES.

**Grade “T” Nitrile**

Nitrile (Orange color code). Temperature range –20°F to +180°F/–29°C to +82°C. May be specified for oil related services, including air with oil vapor, this gasket may be specified for temperatures rated up to +180°F/+82°C. For water related services, this gasket may be specified for temperatures rated up to +150°F/+66°C. For oil free, dry air services, this gasket may be specified for temperatures rated up to +140°F/+60°C. NOT COMPATIBLE FOR USE WITH HOT WATER SERVICES OR STEAM SERVICES.

**Grade “L” Silicone**

Silicone (Red color code). Temperature range –30°F to +350°F/–34°C to +177°C. May be specified for dry heat, air without hydrocarbons to +350°F/+177°C and certain chemical services.

<sup>1</sup> Services listed are General Service Guidelines only. It should be noted that there are services for which these gaskets are not compatible. Reference should always be made to the latest [Victaulic Seal Selection Guide](#) for specific gasket service guidelines and for a listing of services which are not compatible.

### 3.0 SPECIFICATIONS – MATERIAL (CONTINUED)

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#### **Bolts/Nuts: (specify choice)**

Bolts: Carbon steel oval neck track bolts or studs meeting the mechanical property requirements of ASTM A449 (imperial) and ISO 898-1 Class 9.8 (M10-M16) Class 8.8 (M20 and greater). Track bolts are zinc electroplated per ASTM B633 FE/ZN5, finish Type III(imperial) or Type II (metric).

Nuts: Carbon steel hex nuts meeting the mechanical property requirements of ASTM A563 Grade B (imperial - heavy hex nuts) and ASTM A563M Class 9 (metric - hex nuts). Hex nuts are zinc electroplated per ASTM B633 FE/ZN5, finish Type III (imperial) or Type II (metric).

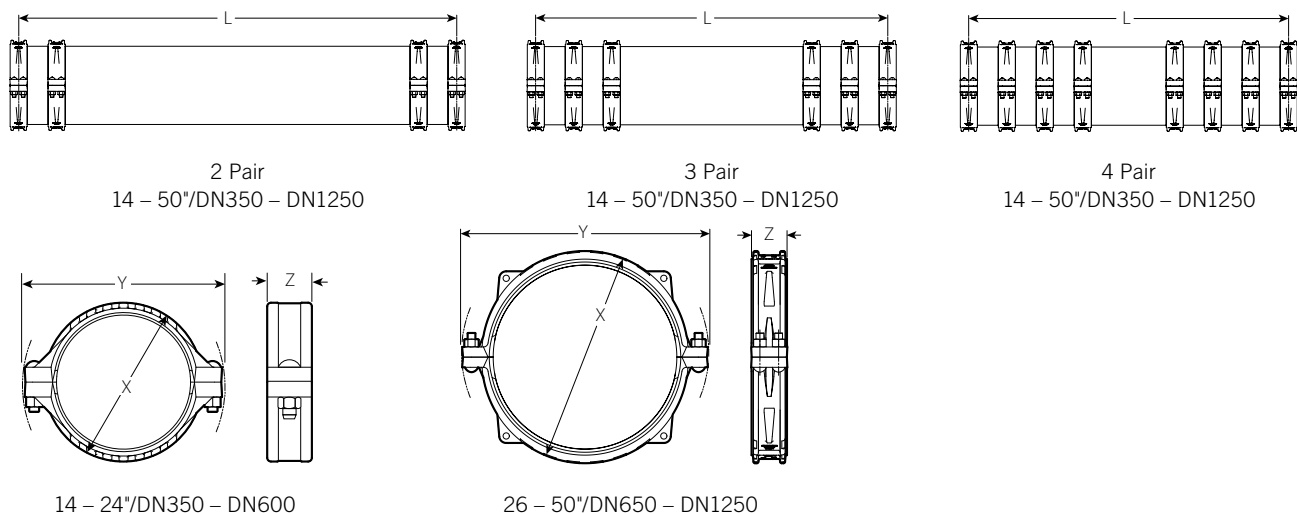
Washers: Plated carbon steel, flat. SAE high strength conforming to ASTM F436 or high strength stainless steel

#### **End Connections:**

Standard: Flexible AGS grooved ends

Optional: Others, contact Victaulic with your requirements

## 4.0 DIMENSIONS



Nominal Pipe Size inches DN	Actual Outside Diameter inches mm	# Pairs	Nominal Overall Length (L) <sup>2</sup>				Dimensions			Approximate Weight				Activation Moment <sup>3</sup> FT-LBS [N-M]	Shear Load <sup>4</sup>	
			1" Sett.	2" Sett.	3" Sett.	4" Sett.	X	Y	Z	1" Sett.	2" Sett.	3" Sett.	4" Sett.		Allowable at 0 psi lbs N	Allowable at MAWP lbs N
			feet meters	feet meters	feet meters	feet meters				lb kg	lb kg	lb kg	lb kg			
14 DN350	14.000 355.6	2	4' 4 1/2" 1.34	7' 7 1/2" 2.33	10' 10 1/2" 3.32	14' 1 1/2" 4.31	16.25 412	20.88 530	4.75 120	500.0 227.0	690.0 313.0	870.0 394.5	1060.0 481.0	31500 42710	33500 149010	12500 55600
		3	-	6' 5 7/8" 1.98	8' 7 7/8" 2.64	10' 9 7/8" 3.30	16.25 412	20.88 530	4.75 120	-	730.0 331.0	900.0 408.0	980.0 444.5			
		4	-	-	7' 3/8" 2.15	9' 8 3/8" 2.96	16.25 412	20.88 530	4.75 120	-	-	920.0 417.5	1010.0 458.0			
16 DN400	16.000 406.4	2	4' 10 1/2" 1.49	8' 7 1/2" 2.63	12' 5 1/2" 3.80	16' 2 1/2" 4.95	18.50 470	22.88 582	4.88 124	620.0 281.0	870.0 394.5	1110.0 503.5	1360.0 617.0	47000 63720	33500 149010	9900 44040
		3	-	7' 1 7/8" 2.19	9' 7 7/8" 2.95	12' 1 7/8" 3.71	18.50 470	22.88 582	4.88 124	-	890.0 403.5	1060.0 481.0	1220.0 553.5			
		4	-	-	8' 9 3/8" 2.68	10' 8 3/8" 3.27	18.50 470	22.88 582	4.88 124	-	-	1120.0 508.0	1240.0 562.5			
18 DN450	18.000 457.2	2	5' 3 1/2" 1.62	9' 5 1/2" 2.89	13' 7 1/2" 4.16	17' 9 1/2" 5.43	20.63 524	24.88 632	4.88 124	720.0 326.5	1030.0 467.0	1330.0 603.5	1640.0 744.0	67000 90840	33500 149010	7100 31590
		3	5' 7/8" 1.55	7' 7 7/8" 2.34	10' 5 7/8" 3.20	13' 2 7/8" 4.04	20.63 524	24.88 632	4.88 124	840.0 381.0	1020.0 462.5	1230.0 558.0	1430.0 648.5			
		4	-	7' 3 3/8" 2.22	9' 4 3/8" 2.86	11' 6 3/8" 3.52	20.63 524	24.88 632	4.88 124	-	1130.0 512.5	1270.0 576.0	1430.0 648.5			
20 DN500	20.000 508.0	2	5' 10 1/2" 1.80	10' 7 1/2" 3.24	15' 4 1/2" 4.69	20' 1 1/2" 6.14	22.88 582	28.00 712	4.88 124	900.0 408.0	1290.0 585.0	1670.0 757.5	2060.0 934.5	92000 124740	44500 197940	15500 68950
		3	5' 2 1/2" 1.59	8' 5 7/8" 2.59	11' 7 7/8" 3.56	14' 9 7/8" 4.52	22.88 582	28.00 712	4.88 124	1020.0 462.5	1280.0 580.5	1540.0 698.5	1800.0 816.5			
		4	-	7' 10 3/8" 2.40	10' 3 3/8" 3.14	12' 8 3/8" 3.88	22.88 582	28.00 712	4.88 124	-	1400.0 635.0	1600.0 725.5	1800.0 816.5			

<sup>2</sup> Due to manufacturing tolerances, the actual overall nominal length of assemblies can vary depending upon configuration

2 Pair: +/- 7/8"

3 Pair: +/- 1 5/8"

4 Pair: +/- 2 3/8"

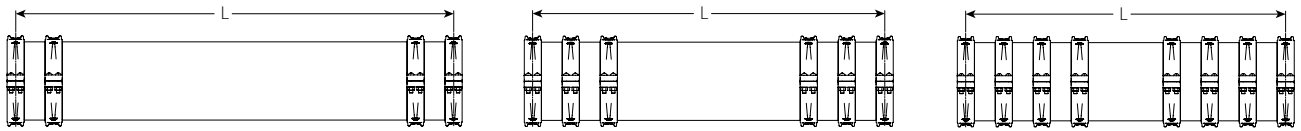
<sup>3</sup> Victaulic Style W257 Dynamic Settlement Joints require an activation moment resulting in reaction forces and moments in the system. This moment is linearly proportional to the system MAWP (Maximum Allowable Working Pressure) and can be determined for system design pressure through this linear relationship. The design activation moment shall be used for piping system and structural design purposes.

<sup>4</sup> Victaulic Style W257 Dynamic Movement Joints will be subject to shear loads. The allowable shear load at 0 psi and the allowable shear load at MAWP (Maximum Allowable Working Pressure) are provided in this table. The minimum and maximum shear loads are linearly proportional and can be determined for system design pressure through this linear relationship. The system shear load shall be used for piping system design and structural design purposes.

<sup>5</sup> For pipe sizes greater than 50", Victaulic Style W257 Dynamic Movement Joints are provided with Vic Rings and appropriately sized couplings. For sizes in the range 52" - 72", 9 1/2" long Type B Rings are provided. This length shall be added to the overall nominal length and shall be accounted for in piping layout design.



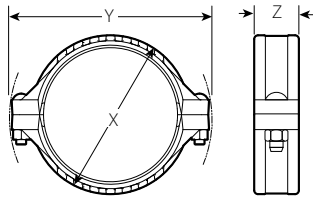
## 4.0 DIMENSIONS (CONTINUED)



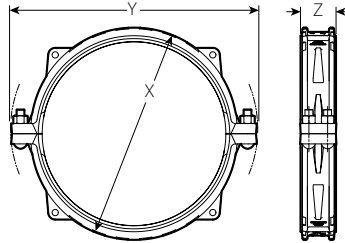
2 Pair  
14 – 50"/DN350 – DN1250

3 Pair  
14 – 50"/DN350 – DN1250

4 Pair  
14 – 50"/DN350 – DN1250



14 – 24"/DN350 – DN600



26 – 50"/DN650 – DN1250

Nominal Pipe Size  inches DN	Actual Outside Diameter  inches mm	# Pairs	Nominal Overall Length (L) <sup>2</sup>				Dimensions			Approximate Weight				Activation Moment <sup>3</sup>  FT-LBS [N-M]	Shear Load <sup>4</sup>	
			1" Sett.	2" Sett.	3" Sett.	4" Sett.	X  inches mm	Y  inches mm	Z  inches mm	1" Sett.  lb kg	2" Sett.  lb kg	3" Sett.  lb kg	4" Sett.  lb kg		Allowable at 0 psi  lbs N	Allowable at MAWP  lbs N
			feet meters	feet meters	feet meters	feet meters										
			For movement requirements greater than 4", contact Victaulic.													
22 DN550	22.000 558.8	2	5' 10 ½" 1.80	10' 7 ½" 3.24	15' 4 ½" 4.69	20' 1 ½" 6.14	25.00 636	30.50 774	4.88 124	1010.0 458.0	1430.0 648.5	1860.0 843.5	2290.0 1038.5	125000 169480	44500 197940	12500 55600
		3	5' 2 ¾" 1.60	8' 5 ⅝" 2.59	11' 7 ⅝" 3.56	14' 9 ⅞" 4.52	25.00 636	30.50 774	4.88 124	1150.0 521.5	1440.0 653.0	1730.0 784.5	2010.0 911.5			
		4	–	7' 10 ⅜" 2.40	10' 3 ⅜" 3.14	12' 8 ⅜" 3.88	25.00 636	30.50 774	4.88 124	–	1590.0 721.0	1800.0 816.5	2020.0 916.5			
24 DN600	24.000 609.6	2	6' 8 ½" 2.05	12' 5 ½" 3.80	18' 1 ½" 5.53	23' 9 ½" 7.26	27.50 698	32.25 820	4.88 124	1200.0 544.5	1760.0 798.5	2320.0 1052.5	2770.0 1256.5	160000 216930	44500 197940	10000 44480
		3	5' 10 ½" 1.80	9' 7 ⅞" 2.95	13' 5 ⅝" 4.12	17' 2 ⅞" 5.26	27.50 698	32.25 820	4.88 124	1330.0 603.5	1700.0 771.0	2090.0 948.0	2450.0 1111.5			
		4	–	8' 9 ⅜" 2.68	11' 7 ⅞" 3.55	14' 5 ⅜" 4.41	27.50 698	32.25 820	4.88 124	–	1840.0 0.0	2120.0 834.5	2390.0 961.5			
26 DN650	26.000 660.4	2	3' 11 ⅝" 1.21	6' 9 ⅝" 2.08	9' 8 ⅝" 2.97	12' 6 ⅝" 3.83	30.75 782	35.75 908	6.00 152	1350.0 612.5	1650.0 748.5	1970.0 893.5	2260.0 1025.0	175000 237270	89000 395880	54000 240200
		3	5' 1 ⅜" 1.56	5' 11 ⅜" 1.82	7' 10 ⅜" 2.40	9' 9 ⅜" 2.99	30.75 782	35.75 908	6.00 152	1900.0 862.0	1980.0 898.0	2180.0 989.0	2380.0 1079.5			
		4	–	–	7' 6" 2.29	9' 0" 2.75	30.75 782	35.75 908	6.00 152	–	–	2550.0 1156.5	2720.0 1234.0			
28 DN700	28.000 711.2	2	4' 1 ⅜" 1.27	7' 2 ⅝" 2.21	10' 2 ⅝" 3.12	13' 3 ⅜" 4.06	32.75 832	37.75 958	6.00 152	1470.0 667.0	1830.0 830.0	2170.0 984.5	2520.0 1143.0	220000 298280	89000 395880	51000 226850
		3	–	6' 2 ⅜" 1.89	8' 2 ⅜" 2.50	10' 3 ⅜" 3.14	32.75 832	37.75 958	6.00 152	–	2160.0 980.0	2390.0 1084.0	2620.0 1188.5			
		4	–	–	7' 9" 2.37	9' 3" 2.82	32.75 832	37.75 958	6.00 152	–	–	2770.0 1256.5	2950.0 1338.0			

<sup>2</sup> Due to manufacturing tolerances, the actual overall nominal length of assemblies can vary depending upon configuration

2 Pair: +/- 7/8"

3 Pair: +/- 1 1/8"

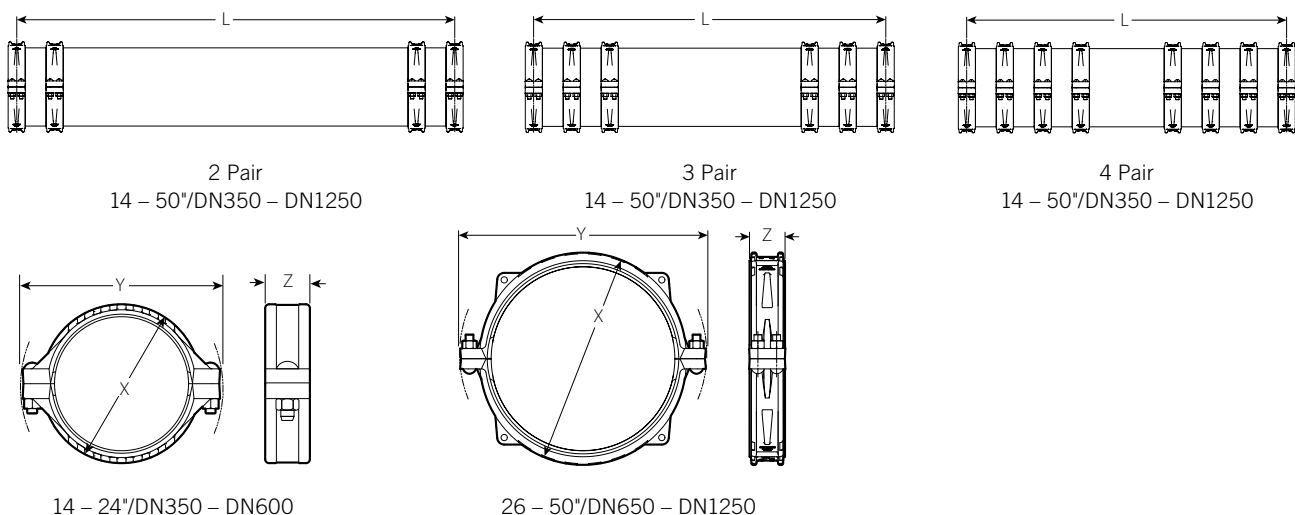
4 Pair: +/- 2 3/8"

<sup>3</sup> Victaulic Style W257 Dynamic Settlement Joints require an activation moment resulting in reaction forces and moments in the system. This moment is linearly proportional to the system MAWP (Maximum Allowable Working Pressure) and can be determined for system design pressure through this linear relationship. The design activation moment shall be used for piping system and structural design purposes.

<sup>4</sup> Victaulic Style W257 Dynamic Movement Joints will be subject to shear loads. The allowable shear load at 0 psi and the allowable shear load at MAWP (Maximum Allowable Working Pressure) are provided in this table. The minimum and maximum shear loads are linearly proportional and can be determined for system design pressure through this linear relationship. The system shear load shall be used for piping system design and structural design purposes.

<sup>5</sup> For pipe sizes greater than 50", Victaulic Style W257 Dynamic Movement Joints are provided with Vic Rings and appropriately sized couplings. For sizes in the range 52" – 72", 9 1/2" long Type B Rings are provided. This length shall be added to the overall nominal length and shall be accounted for in piping layout design.

## 4.0 DIMENSIONS (CONTINUED)



Nominal Pipe Size  inches DN	Actual Outside Diameter  inches mm	# Pairs	Nominal Overall Length (L) <sup>2</sup>				Dimensions			Approximate Weight				Activation Moment <sup>3</sup>  FT-LBS [N-M]	Shear Load <sup>4</sup>	
			1" Sett.	2" Sett.	3" Sett.	4" Sett.	X	Y	Z	1" Sett.	2" Sett.	3" Sett.	4" Sett.		Allowable at 0 psi  lbs N	Allowable at MAWP  lbs N
			feet meters	feet meters	feet meters	feet meters				1" Sett.	2" Sett.	3" Sett.	4" Sett.			
			For movement requirements greater than 4", contact Victaulic.	inches mm	inches mm	inches mm	lb kg	lb kg	lb kg	lb kg						
30 DN750	30.000 762.0	2	4' 3 3/8" 1.32	7' 7 7/8" 2.33	10' 10 5/8" 3.32	14' 1 1/8" 4.31	34.50 876	40.25 1022	6.00 152	1570.0 712.0	1990.0 902.5	2380.0 1079.5	2780.0 1261.0	270000 366070	105000 467040	67000 298020
		3	—	6' 5 3/8" 1.97	8' 7 3/8" 2.63	10' 10 3/8" 3.32	34.50 876	40.25 1022	6.00 152	—	2300.0 1043.5	2570.0 1165.5	2850.0 1292.5			
		4	—	—	8' 1" 2.47	9' 8" 2.95	34.50 876	40.25 1022	6.00 152	—	—	2960.0 1342.5	3160.0 1433.5			
32 DN800	32.000 812.8	2	4' 6 5/8" 1.39	8' 5/8" 2.46	11' 7 7/8" 3.55	15' 1 1/8" 4.62	36.75 934	42.25 1074	6.00 152	1710.0 775.5	2170.0 984.5	2640.0 1197.5	3110.0 1410.5	325000 440640	105000 467040	64000 284680
		3	—	6' 9 3/8" 2.07	9' 1 3/8" 2.78	11' 5 3/8" 3.49	36.75 934	42.25 1074	6.00 152	—	2490.0 1129.5	2800.0 1270.0	3110.0 1410.5			
		4	—	—	8' 5" 2.57	10' 2" 3.10	36.75 934	42.25 1074	6.00 152	—	—	3200.0 1451.5	3440.0 1560.5			
34 DN850	34.000 863.6	2	4' 6 5/8" 1.39	7' 11 5/8" 2.43	11' 5 5/8" 3.50	14' 10 3/8" 4.54	38.75 984	44.25 1124	6.00 152	1790.0 812.0	2270.0 1029.5	2760.0 1252.0	3240.0 1469.5	390000 528770	105000 467040	61000 271330
		3	—	6' 8 3/8" 2.05	9' 3/8" 2.76	11' 4 3/8" 3.47	38.75 984	44.25 1124	6.00 152	—	2610.0 1184.0	2930.0 1329.0	3260.0 1478.5			
		4	—	—	8' 4" 2.54	10' 1" 3.08	38.75 984	44.25 1124	6.00 152	—	—	3350.0 1519.5	3600.0 1633.0			
36 DN900	36.000 914.4	2	5' 5/8" 1.54	9' 5/8" 2.76	12' 11 5/8" 3.96	16' 11 5/8" 5.18	40.75 1036	46.25 1174	6.00 152	1970.0 893.5	2570.0 1165.5	3150.0 1429.0	3740.0 1696.5	460000 623680	105000 467040	59000 262440
		3	—	7' 5 3/8" 2.28	10' 3/8" 3.06	12' 8 3/8" 3.88	40.75 1036	46.25 1174	6.00 152	—	2870.0 1302.0	3250.0 1474.0	3650.0 1655.5			
		4	—	7' 2" 2.19	9' 1" 2.77	11' 1" 3.38	40.75 1036	46.25 1174	6.00 152	—	3370.0 1528.5	3660.0 1660.0	3960.0 1796.0			

<sup>2</sup> Due to manufacturing tolerances, the actual overall nominal length of assemblies can vary depending upon configuration

2 Pair: +/- 7/8"

3 Pair: +/- 1 1/8"

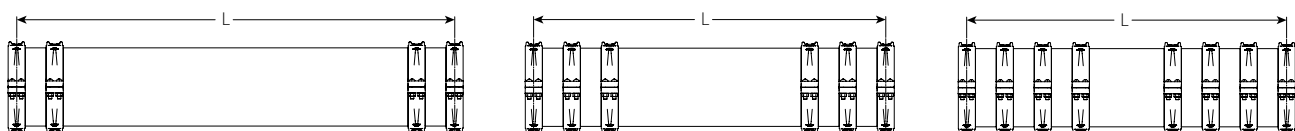
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<sup>3</sup> Victaulic Style W257 Dynamic Settlement Joints require an activation moment resulting in reaction forces and moments in the system. This moment is linearly proportional to the system MAWP (Maximum Allowable Working Pressure) and can be determined for system design pressure through this linear relationship. The design activation moment shall be used for piping system and structural design purposes.

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<sup>5</sup> For pipe sizes greater than 50", Victaulic Style W257 Dynamic Movement Joints are provided with Vic Rings and appropriately sized couplings. For sizes in the range 52" - 72", 9 1/2" long Type B Rings are provided. This length shall be added to the overall nominal length and shall be accounted for in piping layout design.

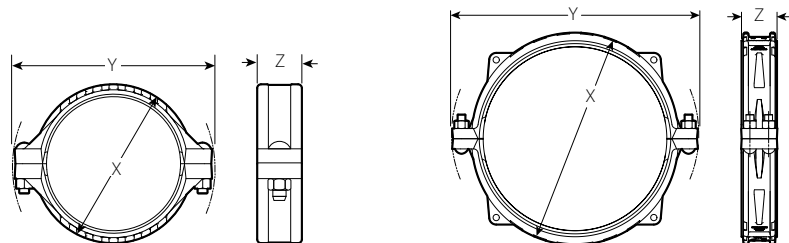
## 4.0 DIMENSIONS (CONTINUED)



2 Pair  
14 – 50"/DN350 – DN1250

3 Pair  
14 – 50"/DN350 – DN1250

4 Pair  
14 – 50"/DN350 – DN1250



14 – 24"/DN350 – DN600

26 – 50"/DN650 – DN1250

Nominal Pipe Size inches DN	Actual Outside Diameter inches mm	# Pairs	Nominal Overall Length (L) <sup>2</sup>				Dimensions			Approximate Weight				Activation Moment <sup>3</sup> FT-LBS [N-M]	Shear Load <sup>4</sup>	
			1" Sett.	2" Sett.	3" Sett.	4" Sett.	X	Y	Z	1" Sett.	2" Sett.	3" Sett.	4" Sett.		Allowable at 0 psi lbs N	Allowable at MAWP lbs N
			feet meters	feet meters	feet meters	feet meters				lb kg	lb kg	lb kg	lb kg			
38 DN950	38.000 965.2	2	5' 2 5/8" 1.60	9' 5 5/8" 2.89	13' 7 5/8" 4.16	17' 9 5/8" 5.43	42.75 1086	48.25 1226	6.00 152	2170.0 984.5	2830.0 1283.5	3490.0 1583.0	4140.0 1878.0	540000 732140	105000 467040	56000 249090
		3	5' 1 3/8" 1.56	7' 8 3/8" 2.35	10' 6 3/8" 3.21	13' 3 3/8" 4.05	42.75 1086	48.25 1226	6.00 152	2760.0 1252.0	3170.0 1438.0	3600.0 1633.0	4040.0 1832.5			
		4	–	7' 4" 2.24	9' 5" 2.88	11' 6" 3.51	42.75 1086	48.25 1226	6.00 152	–	3790.0 1719.0	4030.0 1828.0	4360.0 1977.5			
40 DN1000	40.000 1016.0	2	5' 4 7/8" 1.65	9' 8 7/8" 2.97	14' 7/8" 4.29	18' 4 7/8" 5.62	44.50 1130	51.50 1308	6.75 172	2420.0 1097.5	3140.0 1424.5	3850.0 1746.5	4560.0 2068.5	630000 854170	105000 467040	54000 240200
		3	5' 1 5/8" 1.57	7' 10 5/8" 2.41	10' 9 5/8" 3.30	13' 8 5/8" 4.19	44.50 1130	51.50 1308	6.75 172	3060.0 1388.0	3510.0 1592.0	3990.0 1810.0	4470.0 2027.5			
		4	–	7' 6 1/2" 2.30	9' 8 1/2" 2.96	11' 10 1/2" 3.62	44.50 1130	51.50 1308	6.75 172	–	4140.0 1878.0	4500.0 2041.0	4850.0 2200.0			
42 DN1050	42.000 1066.8	2	5' 7 7/8" 1.73	10' 2 7/8" 3.13	14' 9 7/8" 4.52	19' 4 7/8" 5.92	46.50 1182	53.00 1346	6.75 172	2590.0 1175.0	3390.0 1537.5	3970.0 1801.0	4980.0 2259.0	730000 989750	105000 467040	51000 226850
		3	5' 2 5/8" 1.60	8' 2 5/8" 2.51	11' 3 5/8" 3.45	14' 4 5/8" 4.39	46.50 1182	53.00 1346	6.75 172	3250.0 1474.0	3760.0 1705.5	4290.0 1946.0	4820.0 2186.5			
		4	–	7' 9 1/2" 2.38	10' 1/2" 3.07	12' 4 1/2" 3.78	46.50 1182	53.00 1346	6.75 172	–	4420.0 2005.0	4800.0 2177.0	5200.0 2358.5			
44 DN1100	44.000 1117.6	2	5' 11 7/8" 1.83	10' 9 7/8" 3.30	15' 8 7/8" 4.80	20' 6 7/8" 6.28	49.00 1244	55.00 1398	6.75 172	2830.0 1283.5	3710.0 1683.0	4590.0 2082.0	5470.0 2481.0	650000 881280	105000 467040	62000 275780
		3	5' 4 3/8" 1.65	8' 7 3/8" 2.64	11' 10 3/8" 3.63	15' 1 3/8" 4.62	49.00 1244	55.00 1398	6.75 172	3500.0 1587.5	4100.0 1859.5	4680.0 2123.0	5280.0 2395.0			
		4	–	8' 1/2" 2.46	10' 5 1/2" 3.19	12' 11 1/2" 3.95	49.00 1244	55.00 1398	6.75 172	–	4770.0 2163.5	5210.0 2363.0	5670.0 2572.0			

<sup>2</sup> Due to manufacturing tolerances, the actual overall nominal length of assemblies can vary depending upon configuration

2 Pair: +/- 7/8"

3 Pair: +/- 1 1/8"

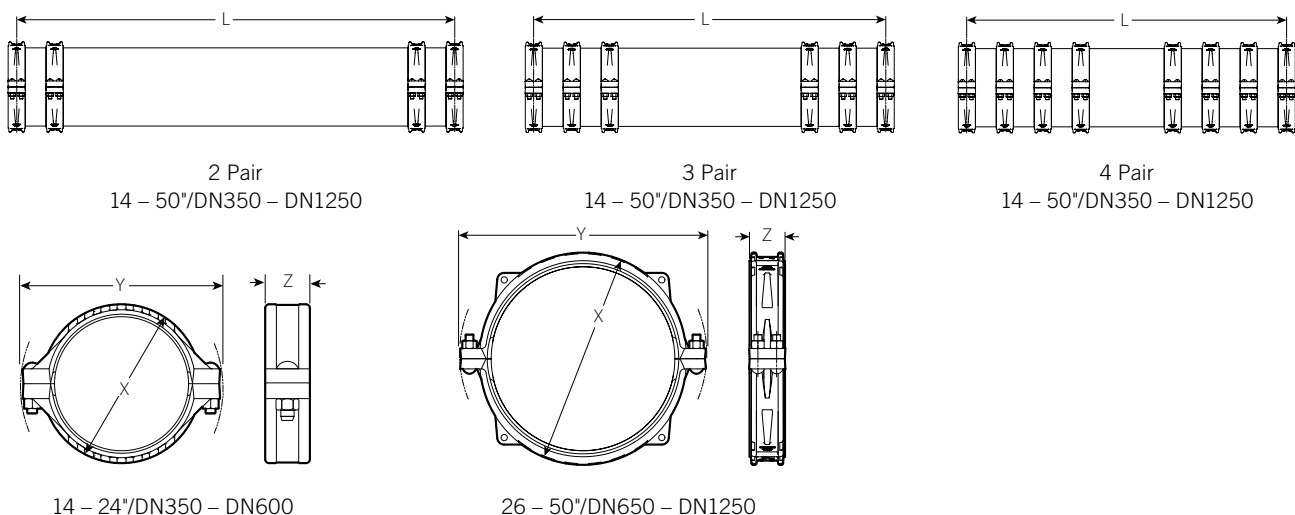
4 Pair: +/- 2 3/8"

<sup>3</sup> Victaulic Style W257 Dynamic Settlement Joints require an activation moment resulting in reaction forces and moments in the system. This moment is linearly proportional to the system MAWP (Maximum Allowable Working Pressure) and can be determined for system design pressure through this linear relationship. The design activation moment shall be used for piping system and structural design purposes.

<sup>4</sup> Victaulic Style W257 Dynamic Movement Joints will be subject to shear loads. The allowable shear load at 0 psi and the allowable shear load at MAWP (Maximum Allowable Working Pressure) are provided in this table. The minimum and maximum shear loads are linearly proportional and can be determined for system design pressure through this linear relationship. The system shear load shall be used for piping system design and structural design purposes.

<sup>5</sup> For pipe sizes greater than 50", Victaulic Style W257 Dynamic Movement Joints are provided with Vic Rings and appropriately sized couplings. For sizes in the range 52" – 72", 9 1/2" long Type B Rings are provided. This length shall be added to the overall nominal length and shall be accounted for in piping layout design.

## 4.0 DIMENSIONS (CONTINUED)



Nominal Pipe Size inches DN	Actual Outside Diameter inches mm	# Pairs	Nominal Overall Length (L) <sup>2</sup>				Dimensions			Approximate Weight				Activation Moment <sup>3</sup> FT-LBS [N-M]	Shear Load <sup>4</sup>	
			1" Sett.	2" Sett.	3" Sett.	4" Sett.	X	Y	Z	1" Sett.	2" Sett.	3" Sett.	4" Sett.		Allowable at 0 psi lbs N	Allowable at MAWP lbs N
			feet meters	feet meters	feet meters	feet meters				lb kg	lb kg	lb kg	lb kg			
46 DN1150	46.000 1168.4	2	6' 1 7/8" 1.88	11' 2 7/8" 3.43	16' 3 7/8" 4.98	21' 4 7/8" 6.53	51.00 1296	57.00 1448	6.75 172	3020.0 1370.0	3980.0 1805.5	4950.0 2245.5	5920.0 2685.5	740000 1003310	105000 467040	60000 266894
		3	5' 6 3/8" 1.70	8' 10 5/8" 2.71	12' 3 3/8" 3.75	15' 7 5/8" 4.77	51.00 1296	57.00 1448	6.75 172	3740.0 1696.5	4370.0 1982.0	5020.0 2277.0	5600.0 2540.0			
		4	–	8' 3 1/2" 2.53	10' 9 1/2" 3.29	13' 4 1/2" 4.08	51.00 1296	57.00 1448	6.75 172	–	5110.0 2318.0	5570.0 2526.5	6060.0 2749.0			
48 DN1200	48.000 1219.2	2	6' 4 7/8" 1.96	11' 7 7/8" 3.56	16' 11 7/8" 5.18	22' 3 7/8" 6.81	53.00 1346	59.00 1498	6.75 172	3170.0 1438.0	4110.0 1864.5	5270.0 2390.5	6320.0 2866.5	840000 1138890	105000 467040	58000 257996
		3	5' 7 7/8" 1.72	9' 2 5/8" 2.81	12' 8 5/8" 3.88	16' 3 3/8" 4.97	53.00 1346	59.00 1498	6.75 172	3670.0 1664.5	4590.0 2082.0	5280.0 2395.0	5980.0 2712.5			
		4	–	8' 5 1/2" 2.58	11' 1 1/2" 3.40	13' 9 1/2" 4.21	53.00 1346	59.00 1498	6.75 172	–	5280.0 2395.0	5820.0 2640.0	6340.0 2876.0			
50 DN1250	50.000 1270.0	2	6' 7 7/8" 2.03	12' 1 7/8" 3.71	17' 8 7/8" 5.41	23' 3 7/8" 7.11	55.50 1410	61.50 1562	10.25 260	3740.0 1696.5	4870.0 2209.0	6020.0 2730.5	7170.0 3252.5	950000 1288030	105000 467040	56000 249100
		3	5' 9 5/8" 1.77	9' 6 5/8" 2.92	13' 2 5/8" 4.03	16' 11 5/8" 5.18	55.50 1410	61.50 1562	10.25 260	4650.0 2109.0	5420.0 2458.5	6160.0 2794.0	6940.0 3148.0			
		4	–	8' 8 1/2" 2.66	11' 6 1/2" 3.52	14' 3 1/2" 4.36	55.50 1410	61.50 1562	10.25 260	–	6330.0 2871.0	6910.0 3134.5	7470.0 3388.5			

<sup>2</sup> Due to manufacturing tolerances, the actual overall nominal length of assemblies can vary depending upon configuration

2 Pair: +/- 7/8"

3 Pair: +/- 1 5/8"

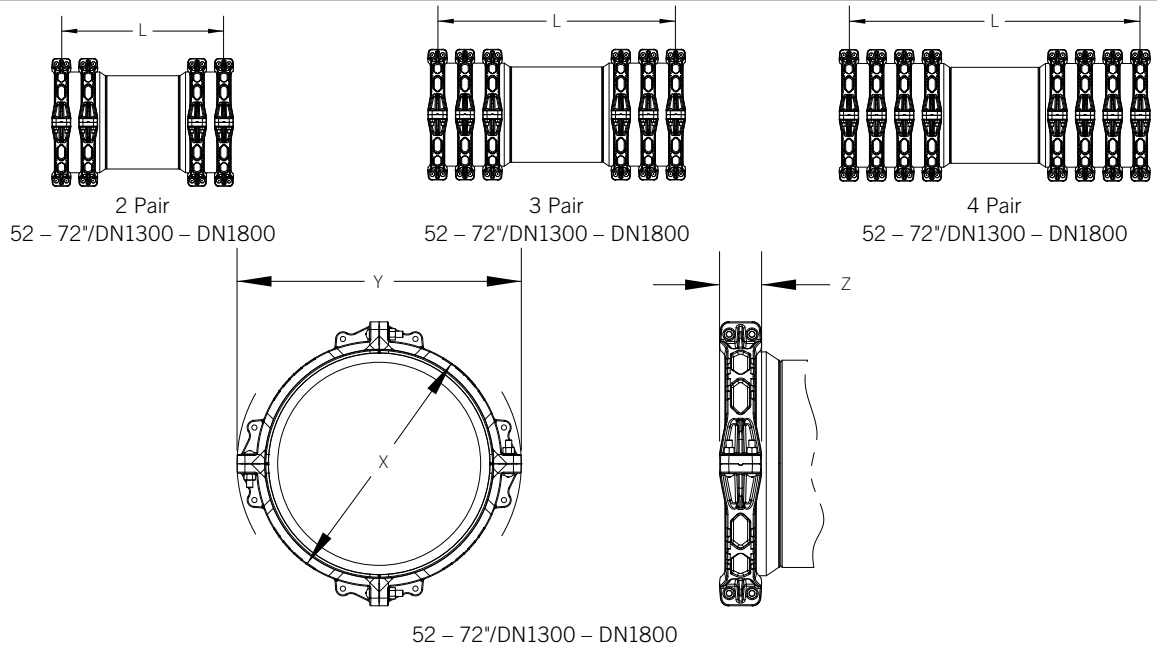
4 Pair: +/- 2 3/8"

<sup>3</sup> Victaulic Style W257 Dynamic Settlement Joints require an activation moment resulting in reaction forces and moments in the system. This moment is linearly proportional to the system MAWP (Maximum Allowable Working Pressure) and can be determined for system design pressure through this linear relationship. The design activation moment shall be used for piping system and structural design purposes.

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<sup>5</sup> For pipe sizes greater than 50", Victaulic Style W257 Dynamic Movement Joints are provided with Vic Rings and appropriately sized couplings. For sizes in the range 52" – 72", 9 1/2" long Type B Rings are provided. This length shall be added to the overall nominal length and shall be accounted for in piping layout design.

## 4.0 DIMENSIONS (CONTINUED)



Nominal Pipe Size inches DN	Actual Outside Diameter inches mm	# Pairs	Nominal Overall Length (L) <sup>2</sup>				Dimensions			Approximate Weight				Activation Moment <sup>3</sup> FT-LBS [N-M]	Shear Load <sup>4</sup>	
			1" Sett.	2" Sett.	3" Sett.	4" Sett.	X	Y	Z	1" Sett.	2" Sett.	3" Sett.	4" Sett.		Allowable at 0 psi lbs N	Allowable at MAWP lbs N
			feet meters	feet meters	feet meters	feet meters				lb kg	lb kg	lb kg	lb kg			
52 <sup>5</sup> DN1300	52.000 1320.8	2	7' 3" 2.21	13' 2" 4.02	19' 2" 5.85	25' 2" 7.68	60.50 1536	69.50 1766	10.25 260	8220.0 3728.5	9900.0 4490.5	11600.0 5261.5	13310.0 6037.5	1290000 1749010	215000 956320	115000 511546
		3	6' 6" 1.99	10' 5" 3.18	14' 5" 4.40	18' 5" 5.62	60.50 1536	69.50 1766	10.25 260	11410.0 5175.5	12520.0 5679.0	13660.0 6196.0	14800.0 6713.0			
		4	–	9' 7 7/8" 2.95	12' 7 7/8" 3.86	15' 7 7/8" 4.78	60.50 1536	69.50 1766	10.25 260	–	15710.0 7126.0	16560.0 7511.5	17410.0 7897.0			
54 <sup>5</sup> DN1350	54.000 1371.6	2	7' 6" 2.29	13' 10" 4.22	20' 1" 6.13	26' 5" 8.06	62.50 1588	71.50 1816	10.25 260	8550.0 3878.0	10430.0 4731.0	12270.0 5565.5	14140.0 6414.0	1440000 1952380	215000 956320	115000 511546
		3	6' 8" 2.04	10' 10" 3.31	15' 1" 4.60	19' 3" 5.87	62.50 1588	71.50 1816	10.25 260	11810.0 5357.0	13040.0 5915.0	14300.0 6486.5	15530.0 7044.5			
		4	–	9' 11 7/8" 3.05	13' 1 7/8" 4.02	16' 2 7/8" 4.95	62.50 1588	71.50 1816	10.25 260	–	16300.0 7393.5	17240.0 7820.0	18140.0 8228.0			
56 <sup>5</sup> DN1400	56.000 1422.4	2	7' 8" 2.34	14' 2" 4.32	20' 7" 6.28	27' 1" 8.26	64.50 1638	73.50 1866	10.25 260	8870.0 4023.5	10860.0 4926.0	12830.0 5819.5	14820.0 6722.0	1600000 2169310	215000 956320	110000 489304
		3	6' 9" 2.06	11' 1" 3.38	15' 5" 4.70	19' 8" 6.00	64.50 1638	73.50 1866	10.25 260	12190.0 5529.5	13520.0 6132.5	14850.0 6736.0	16150.0 7325.5			
		4	–	10' 1 7/8" 3.10	13' 4 7/8" 4.09	16' 6 7/8" 5.06	64.50 1638	73.50 1866	10.25 260	–	16850.0 0.0	17830.0 7643.0	18810.0 8087.5			
58 <sup>5</sup> DN1450	58.000 1473.2	2	7' 11" 2.42	14' 6" 4.42	21' 2" 6.46	27' 9" 8.46	66.50 1690	75.50 1918	10.25 260	9210.0 4177.5	11300.0 5125.5	13420.0 6087.0	15510.0 7035.0	1770000 2399800	215000 956320	105000 467064
		3	6' 11" 2.11	11' 4" 3.46	15' 9" 4.81	20' 2" 6.15	66.50 1690	75.50 1918	10.25 260	12600.0 5715.5	14000.0 6350.5	15400.0 6985.5	16800.0 7620.5			
		4	–	10' 3 7/8" 3.15	13' 7 7/8" 4.17	16' 11 7/8" 5.18	66.50 1690	75.50 1918	10.25 260	–	17390.0 7888.0	18450.0 8369.0	19500.0 8845.0			

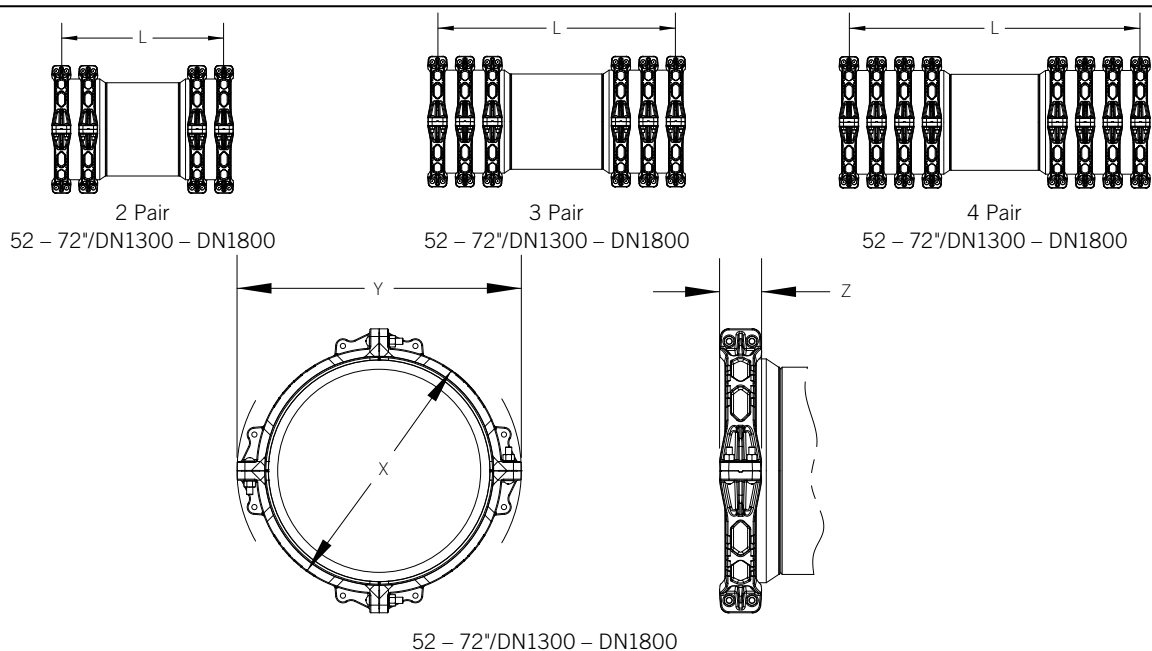
<sup>2</sup> Due to manufacturing tolerances, the actual overall nominal length of assemblies can vary depending upon configuration  
 2 Pair: +/- 7/8"  
 3 Pair: +/- 1 1/8"  
 4 Pair: +/- 2 3/8"

<sup>3</sup> Victaulic Style W257 Dynamic Settlement Joints require an activation moment resulting in reaction forces and moments in the system. This moment is linearly proportional to the system MAWP (Maximum Allowable Working Pressure) and can be determined for system design pressure through this linear relationship. The design activation moment shall be used for piping system and structural design purposes.

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<sup>5</sup> For pipe sizes greater than 50", Victaulic Style W257 Dynamic Movement Joints are provided with Vic Rings and appropriately sized couplings. For sizes in the range 52" – 72", 9 1/2" long Type B Rings are provided. This length shall be added to the overall nominal length and shall be accounted for in piping layout design.

## 4.0 DIMENSIONS (CONTINUED)



Nominal Pipe Size inches DN	Actual Outside Diameter inches mm	# Pairs	Nominal Overall Length (L) <sup>2</sup>				Dimensions			Approximate Weight				Activation Moment <sup>3</sup> FT-LBS [N-M]	Shear Load <sup>4</sup>	
			1" Sett.	2" Sett.	3" Sett.	4" Sett.	X	Y	Z	1" Sett.	2" Sett.	3" Sett.	4" Sett.		Allowable at 0 psi lbs N	Allowable at MAWP lbs N
			feet meters	feet meters	feet meters	feet meters				lb kg	lb kg	lb kg	lb kg			
60 <sup>5</sup> DN1500	60.000 1524.0	2	8' 1" 2.47	14' 11" 4.55	21' 9" 6.63	28' 6" 8.69	69.00 1752	78.50 1994	10.50 266	9740.0 4418.0	11980.0 5434.0	14230.0 6454.5	16440.0 7457.0	1950000 2643840	215000 956320	105000 467064
		3	7' 0" 2.14	11' 7" 3.54	16' 2" 4.93	20' 8" 6.30	69.00 1752	78.50 1994	10.50 266	13300.0 6033.0	14810.0 6717.5	16310.0 7398.0	17780.0 8065.0			
		4	-	10' 5 7/8" 3.20	13' 10 7/8" 4.24	17' 3 7/8" 5.29	69.00 1752	78.50 1994	10.50 266	-	18360.0 8328.0	19480.0 8836.0	20600.0 9344.0			
62 <sup>5</sup> DN1550	62.000 1574.8	2	8' 3" 2.52	15' 4" 4.68	22' 4" 6.81	29' 4" 8.95	71.00 1804	80.50 2044	10.50 266	10070.0 4567.5	12470.0 5656.5	14850.0 6736.0	17220.0 7811.0	2150000 2915010	215000 956320	100000 444822
		3	7' 2" 2.19	11' 10" 3.61	16' 6" 5.03	21' 2" 6.46	71.00 1804	80.50 2044	10.50 266	13710.0 6219.0	15300.0 6940.0	16880.0 7656.5	18460.0 8373.5			
		4	-	10' 8 7/8" 3.28	14' 2 7/8" 4.35	17' 8 7/8" 5.41	71.00 1804	80.50 2044	10.50 266	-	18950.0 8595.5	20130.0 9131.0	21320.0 9670.5			
64 <sup>5</sup> DN1600	64.000 1625.6	2	8' 6" 2.60	15' 9" 4.81	22' 11" 6.99	30' 2" 9.20	73.00 1854	82.50 2096	10.50 266	10430.0 4731.0	12960.0 5878.5	15480.0 7021.5	18010.0 8169.0	2360000 3199730	215000 956320	98000 435926
		3	7' 4" 2.24	12' 2" 3.71	16' 11" 5.16	21' 9" 6.63	73.00 1854	82.50 2096	10.50 266	14140.0 6414.0	15830.0 7180.5	17490.0 7933.5	19180.0 8700.0			
		4	-	10' 10 7/8" 3.33	14' 6 7/8" 4.45	18' 1 7/8" 5.54	73.00 1854	82.50 2096	10.50 266	-	19500.0 8845.0	20790.0 9430.0	22050.0 10001.5			
66 <sup>5</sup> DN1650	66.000 1676.4	2	8' 9" 2.67	16' 2" 4.93	23' 8" 7.22	31' 1" 9.48	75.50 1918	84.50 2146	10.50 266	11000.0 4989.5	13670.0 6200.5	16380.0 7430.0	19060.0 8645.5	2580000 3498010	215000 956320	94000 418132
		3	7' 5" 2.27	12' 5" 3.79	17' 5" 5.31	22' 5" 6.84	75.50 1918	84.50 2146	10.50 266	14840.0 6731.5	16640.0 7548.0	18450.0 8369.0	20250.0 9185.0			
		4	-	11' 1 7/8" 3.41	14' 10 7/8" 4.55	18' 7 7/8" 5.69	75.50 1918	84.50 2146	10.50 266	-	20510.0 9303.0	21860.0 9915.5	23220.0 10532.5			

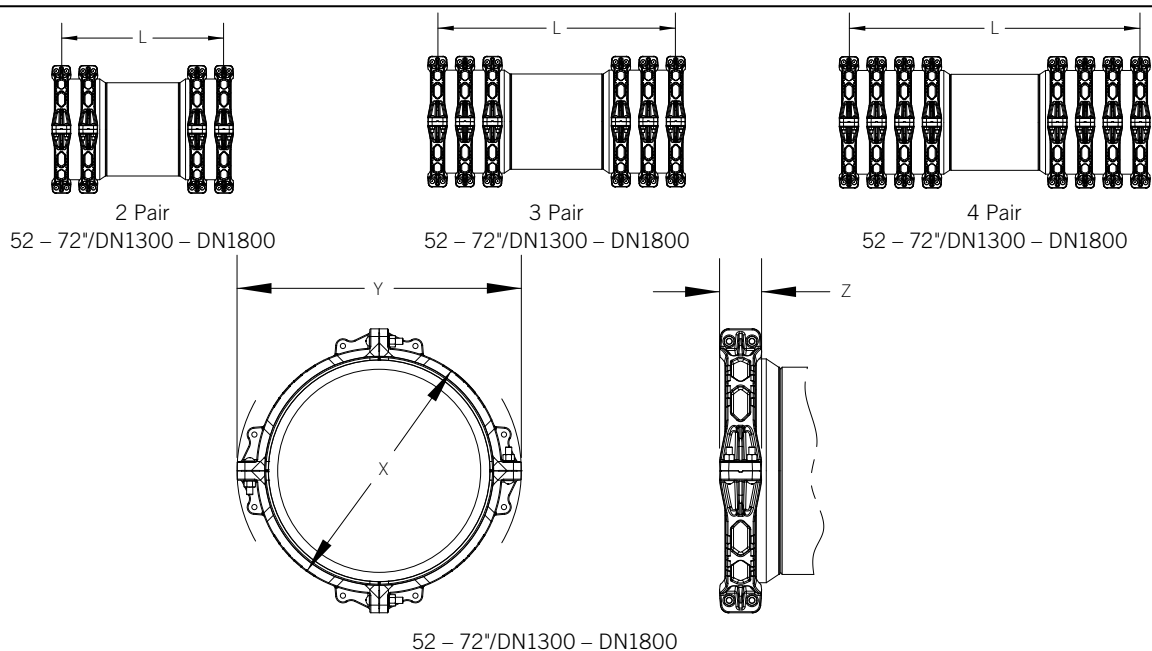
<sup>2</sup> Due to manufacturing tolerances, the actual overall nominal length of assemblies can vary depending upon configuration  
 2 Pair: +/- 7/8"  
 3 Pair: +/- 1 1/8"  
 4 Pair: +/- 2 3/8"

<sup>3</sup> Victaulic Style W257 Dynamic Settlement Joints require an activation moment resulting in reaction forces and moments in the system. This moment is linearly proportional to the system MAWP (Maximum Allowable Working Pressure) and can be determined for system design pressure through this linear relationship. The design activation moment shall be used for piping system and structural design purposes.

<sup>4</sup> Victaulic Style W257 Dynamic Movement Joints will be subject to shear loads. The allowable shear load at 0 psi and the allowable shear load at MAWP (Maximum Allowable Working Pressure) are provided in this table. The minimum and maximum shear loads are linearly proportional and can be determined for system design pressure through this linear relationship. The system shear load shall be used for piping system design and structural design purposes.

<sup>5</sup> For pipe sizes greater than 50", Victaulic Style W257 Dynamic Movement Joints are provided with Vic Rings and appropriately sized couplings. For sizes in the range 52" - 72", 9 1/2" long Type B Rings are provided. This length shall be added to the overall nominal length and shall be accounted for in piping layout design.

## 4.0 DIMENSIONS (CONTINUED)



Nominal Pipe Size  inches DN	Actual Outside Diameter  inches mm	# Pairs	Nominal Overall Length (L) <sup>2</sup>				Dimensions			Approximate Weight				Activation Moment <sup>3</sup>  FT–LBS [N–M]	Shear Load <sup>4</sup>	
			1" Sett. feet meters	2" Sett. feet meters	3" Sett. feet meters	4" Sett. feet meters	X  inches mm	Y  inches mm	Z  inches mm	1" Sett.	2" Sett.	3" Sett.	4" Sett.		Allowable at 0 psi lbs N	Allowable at MAWP lbs N
			For movement requirements greater than 4", contact Victaulic.							lb kg	lb kg	lb kg	lb kg			
68 <sup>5</sup> DN1700	68.000 1727.2	2	8' 11" 2.72	16' 8" 5.08	24' 4" 7.42	32' 1" 9.78	78.00 1982	87.50 2222	10.50 266	11440.0 5189.0	14320.0 6495.5	17160.0 7783.5	20030.0 9085.5	2810000 3809850	215000 956368	90000 400340
		3	7' 7" 2.32	12' 9" 3.89	17' 11" 5.47	23' 0" 7.02	78.00 1982	87.50 2222	10.50 266	16660.0 7557.0	17360.0 7874.5	19280.0 8745.5	21160.0 9598.0			
		4	–	11' 4 7⁄8" 3.48	15' 2 7⁄8" 4.65	19' 7⁄8" 5.82	78.00 1982	87.50 2222	10.50 266	–	21370.0 9693.5	22790.0 10337.5	24210.0 10981.5			
70 <sup>5</sup> DN1750	70.000 1778.0	2	9' 3" 2.82	17' 2" 5.24	25' 2" 7.68	33' 1" 10.09	80.00 2032	89.50 2274	10.50 266	14420.0 6541.0	17370.0 7879.0	20350.0 9230.5	23300.0 10568.5	3060000 4148800	215000 956368	87000 386996
		3	7' 9" 2.37	13' 1" 3.99	18' 5" 5.62	23' 8" 7.22	80.00 2032	89.50 2274	10.50 266	20380.0 9244.0	22370.0 10147.0	24340.0 11040.5	26300.0 11929.5			
		4	–	11' 7 7⁄8" 3.56	15' 7 7⁄8" 4.78	19' 7 7⁄8" 6.00	80.00 2032	89.50 2274	10.50 266	–	28340.0 12855.0	29830.0 13530.5	31320.0 14206.5			
72 <sup>5</sup> DN1800	72.000 1828.8	2	9' 6" 2.90	17' 9" 5.42	25' 11" 7.90	34' 2" 10.42	83.50 2120	92.00 2336	10.38 264	16110.0 7307.5	19280.0 8745.5	22400.0 10160.5	25560.0 11594.0	3320000 4501320	215000 956368	83000 369202
		3	8' 0" 2.44	13' 6" 4.12	18' 11" 5.77	24' 5" 7.45	83.50 2120	92.00 2336	10.38 264	22820.0 10351.0	24920.0 11303.5	27000.0 12247.0	29100.0 13199.5			
		4	–	11' 10 7⁄8" 3.63	16' 7⁄8" 4.90	20' 1 7⁄8" 6.15	83.50 2120	92.00 2336	10.38 264	–	31600.0 14333.5	33190.0 15054.5	34760.0 15767.0			
74 DN1850	For pipe sizes greater than 72", contact Victaulic.															

<sup>2</sup> Due to manufacturing tolerances, the actual overall nominal length of assemblies can vary depending upon configuration

2 Pair: +/- 3/8"

3 Pair: +/- 1 1/8"

4 Pair: +/- 2 3/8"

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## 5.0 PERFORMANCE

For performance data reference [publication 20.03](#): Victaulic® AGS Flexible Coupling Style W77.

## 6.0 NOTIFICATIONS

### NOTE

- For NPS greater than 50": Victaulic will provide two Vic-Ring adapters to be welded on to the ends of the customer supplied mating pipe. Please see [publication 16.12](#) for additional information.



### WARNING

- When grooving pipe for use with AGS (Advance Groove System) products, Victaulic roll grooving tools must be equipped with AGS roll sets (RW for steel or RWX for stainless steel).
- RWX grooving rolls are identified by a silver color and the designation "RWX" on the front of the roll sets.
- Victaulic AGS products MUST NOT be installed on pipe that is prepared with OGS (Original Groove System) roll sets.
- To ensure proper pipe end preparation refer to [publication 25.09](#) for AGS roll groove pipe specifications.

Failure to follow these instructions will cause grooves that are not within Victaulic AGS specifications, resulting in joint failure, serious personal injury, and property damage.

## 7.0 REFERENCE MATERIALS

[02.06: Potable Water Approvals](#)

[05.01: Seal Selection Guide](#)

[10.01: Regulatory Approval Reference Guide](#)

[16.12: Style W77 AGS Vic-Ring Systems](#)

[20.03: Style W77 AGS Coupling](#)

[26.01: Design Data](#)

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

[I-DMJ: Victaulic Dynamic Movement Joints Installation Instructions](#)

[I-W07/W77: AGS Installation](#)

[IT-W257: Style W257 Installation Tag](#)

[I-W100: Field Installation Handbook Advanced Groove System Products](#)

### 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](http://www.victaulic.com).

### Warranty

Refer to the Warranty section of the current Price List or contact Victaulic for details.

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