

Style 231 Non-Restrained Flexible Expansion Coupling

Victaulic Bolted Split-Sleeve Products (VBSP) Style 231 carbon steel expansion couplings (formerly Depend-O-Lok FxE) provide a non-restrained, flexible pipe joint that is designed to accommodate axial pipe movement at the joint. The Style 231 coupling satisfies the requirements set forth by the AWWA C227 Standard for Bolted, Split-Sleeve Restrained and Non-Restrained Couplings for Plain-End Pipe.

This style of coupling is typically used in exposed pipe applications for field joint connections where axial pipe movement due to thermal expansion or contraction of the pipe line is a factor. Although Style 231 expansion couplings provide for a flexible joint and therefore do not prevent angular pipe movement, these couplings are not designed to accommodate static or dynamic angular deflection at the joint. Style 231 couplings should be used to accommodate axial pipe movement only. The Style 231 couplings can allow for up to 4"/100 mm of axial pipe movement at the joint and therefore assist in avoiding the accumulation of thermal stresses due to changes in pipe length. For these couplings to function properly, the pipe movement must be axially directed to the joint through the proper use of pipe supports, anchors and/or guides. External restraints must be installed to ensure the coupling does not exceed published values for expansion capabilities. Typical applications include water and wastewater treatment pipelines, force main and water transmission piping, penstock piping and other applications where changes in pipe temperature result in axial pipe movement that requires the use of an expansion joint to avoid thermal stresses. The coupling provides ease of installation and comes standard with an epoxy coating for protection against corrosion. The use of a heat-shrink sleeve or tape system can be used with minimal effort due to the low profile configuration.

The dual-arched mechanical coupling body houses o-ring gaskets that provide the radial seal around the circumference of the pipe, while the sealing plate provides for the axial seal across the coupling body and pipe joint. The Style 231 coupling incorporates restraint rings welded to one pipe end (furnished with the coupling) that keep the coupling in place on the "fixed" side of the joint, while allowing the pipe to move axially within the coupling on the "expansion" side of the joint. The Style 231 coupling requires thin stainless steel cladding (also furnished with the coupling) to be welded to the pipe end on the "expansion" side of the joint, providing for a smooth sliding surface for the coupling and o-ring gasket and avoiding damage to coated steel pipe surface. The coupling housing is designed to accommodate hoop stress to meet system pressure requirements while maintaining a leak-proof joint seal. The expansion coupling also performs at negative pipe pressures up to full vacuum since the o-ring gasket is not pressure responsive and therefore does not require internal pipe pressure to assist with the seal. The arched cross-sectional shape of the coupling provides for a high section modulus to resist forces encountered during negative pressure (submerged) or vacuum service.

Style 231 couplings are available in standard nominal sizes from 16 – 144"/400 – 3600 mm with larger sizes available based on design and application requirements. The Style 231 coupling can accommodate operating pressures up to 300 psi/2065 kPa (with higher pressure available) depending on the actual pipe diameter. For pressures and sizes not shown in the dimension and performance tables contact Victaulic for information on our engineered products.

All flexible mechanical couplings should be properly supported to minimize or eliminate undesirable loads at the joint. Pipe support requirements are defined within the Victaulic Application Guidelines document. Please see publication 26.20.

For proper closure tool selection see column marked Tool Type on pages 6-9.



16 – 144"/400 – 3600mm

JOB/OWNER

System No. _____

Location _____

CONTRACTOR

Submitted By _____

Date _____

ENGINEER

Spec Sect _____ Para _____

Approved _____

Date _____

Style 231 Non-Restrained Flexible Expansion Coupling

PRODUCT GUIDE

Product Style Guide			
Submittal Number	Style Number	Coupling/Body Material	Application
60.01	230	Carbon Steel	Non-Restrained Coupling
60.02	230S	Stainless Steel	Non-Restrained Coupling
60.03	231	Carbon Steel	Expansion Coupling
60.04	231S	Stainless Steel	Expansion Coupling
60.05	232	Carbon Steel	Restrained Coupling
60.06	232S	Stainless Steel	Restrained Coupling
60.07	233	Carbon Steel	Restrained Coupling For Dynamic Joint Deflection
60.08	233S	Stainless Steel	Restrained Coupling For Dynamic Joint Deflection
60.09	234	Carbon Steel	Restrained Single-Gasket Coupling
60.10	234S	Stainless Steel	Restrained Single-Gasket Coupling

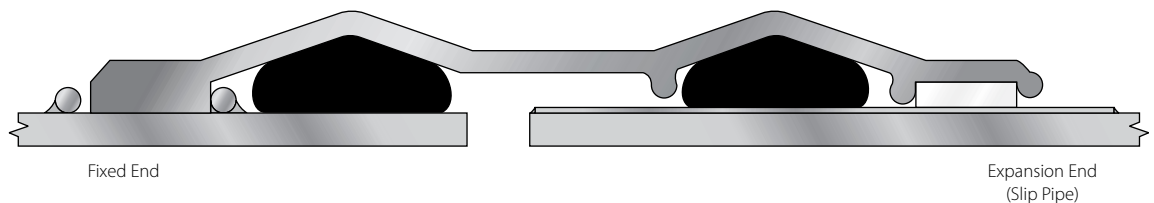
SEGMENTED COUPLINGS

The Style 231 dimension tables list the minimum number of coupling housing segments for a particular pipe size. For special applications, expansion couplings are available in two (or more) segments to allow for installation of the coupling over an existing pipe joint or to facilitate ease of handling for larger size couplings. The o-ring gaskets (except Silicone) can be furnished “split” to allow for field bonding when an existing pipe joint configuration does not allow for installation of a complete o-ring onto the pipe end.

BODY TYPE

Cross-Section

NOTE: Body type is not optional and will be determined by system requirements.



Type 2 coupling is a shouldered coupling. This is a heavy duty coupling to accommodate higher pressures for certain pipe diameters. The steel shoulder welded to the edge of one side of the coupling body provides additional cross-sectional stiffness and provides the mechanism for holding the coupling in place between the restraint rings attached to the pipe on the fixed side of the joint. The Teflon® shoulder provides a smooth surface at the area of contact between the coupling housing and pipe cladding to allow for unimpeded pipe movement.

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COUPLING COMPONENTS

1. Body – Dual arch cross-section.

2. Shoulders

Fixed Side – Rectangular steel bar located at coupling body edge provides additional stiffness, allows for larger o-ring gasket and provides vertical bearing surface for restraint ring.

Expansion Side – Utilizes Teflon® material to provide for a smooth sliding surface in order to accommodate larger expansion values afforded by the Style 231 Type 2 coupling.

3. Closure Plates – Low profile bolt pads for installation and tightening of coupling; gap between plates of installed coupling allows for field flexibility.

4. Sealing Plate – Provides axial seal across the coupling body and pipe joint.

5. O-ring Gaskets – Provide circumferential seal.

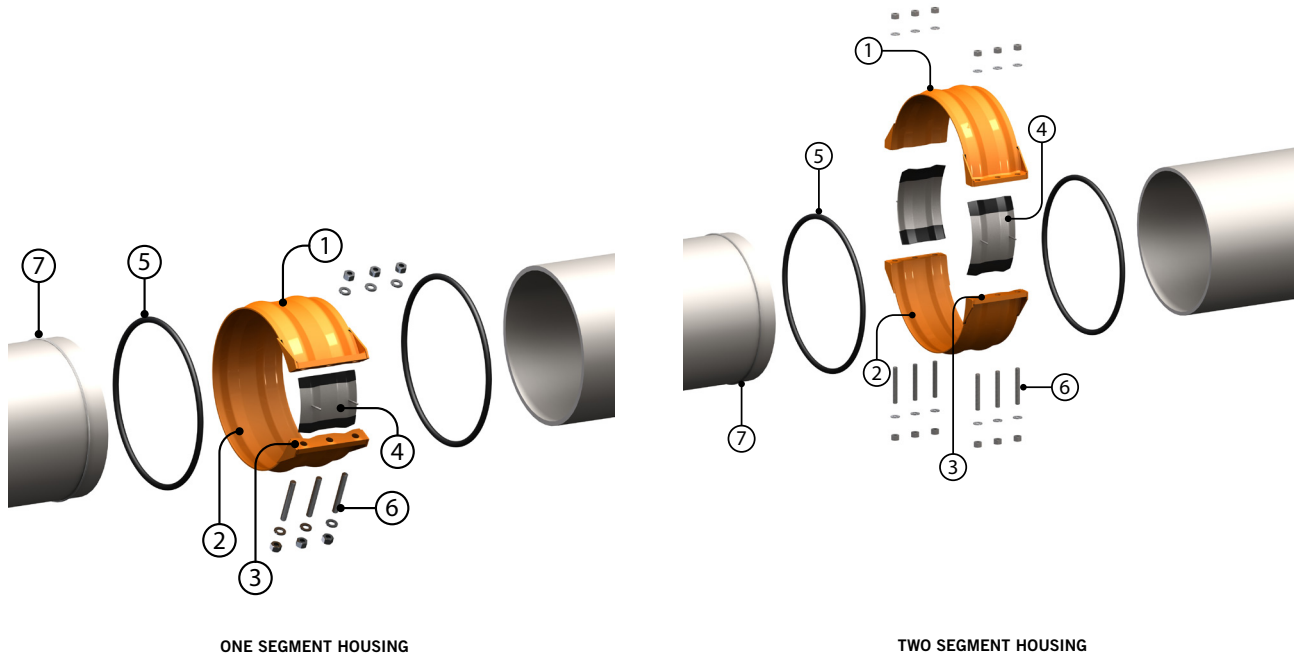
6. Fasteners

Studs – High Strength Threaded Rod

Nuts – Heavy Hex Nuts

Washers – SAE small pattern flat washers

7. Restraint Rings – Used to maintain coupling position on the "fixed" end of the pipe.



Style 231 Non-Restrained Flexible Expansion Coupling

MATERIAL SPECIFICATIONS

Body

Carbon Steel conforming to ASTM A36

Shoulders

Carbon steel conforming to ASTM A36 (Fixed Side)

Teflon® - PTFE commercial grade (Expansion Side)

Closure Plates

Carbon Steel conforming to ASTM A36

Sealing Plate

Stainless Steel conforming to ASTM A240 316L

O-ring Gaskets

Standard (Specify choice on order):

- **EPDM** -30°F to +230°F/-34°C to +110°C
Cold and hot water within allowable temperature range; dilute acids; excellent resistance to the deteriorative effects of ozone, oxygen, heat and most chemicals not involving hydrocarbons.
NOT RECOMMENDED FOR PETROLEUM SERVICES.
- **Silicone** -30°F to +350°F/-34°C to +177°C
Dry, hot air applications; excellent resistance to many chemicals.
NOT RECOMMENDED FOR HOT WATER OR STEAM APPLICATIONS.
- **Isoprene** -40°F to +160°F/-40°C to +71°C
Water; salt water; sewage; good resistance to oxygen and dilute acids
Services listed are general service recommendations only. Refer to a chemical elastomer guide for specific applications and suitability of gasket material for services that are not listed.

Optional gasket (specify choice on order):

- **Nitrile** -20°F to +180°F/-28°C to +82°C
Water; petroleum products, vegetable and mineral oils; air with oil vapors within allowable temperature range; good resistance to hydrocarbons; acids and bases.
- **Fluoroelastomer** +20°F to +300°F/-7°C to +149°C
Outstanding resistance to heat and most chemicals.
- **Neoprene** -30°F to +180°F/-34°C to +82°C
Water and wastewater; good resistance to ozone, effects of UV and some oils.

Restraint Rings

Carbon Steel conforming to ASTM A108 Grade 1018 C.S.

Fasteners

Studs - Carbon Steel conforming to ASTM A193 Grade B7 zinc plated.

Optional: Stainless Steel conforming to ASTM A193 Grade B8M 316 Class 2

Nuts - Heavy hex nuts

Carbon Steel conforming to ASTM A194 Grade 2H zinc plated

Optional: Stainless Steel conforming to ASTM A194 Grade 8M 316

Washers - Carbon Steel SAE small pattern flat washers conforming to ASTM F436 SAE pattern zinc plated

Optional: Stainless Steel Type 316 SAE pattern.

Cladding

Stainless Steel conforming to ASTM A240 316L

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LININGS AND COATINGS

Standard (specify choice on order):

- **Liquid Epoxy:**

Liquid epoxy is applied per AWWA C210, 16 mils minimum DFT and is NSF approved. Epoxy can be applied as a primer for field applied top coat where UV protection due to sunlight exposure is required.

- **Fusion Bonded Epoxy:**

Fusion bonded epoxy is applied with an electrostatic spray system using a long cure epoxy powder that offers excellent chemical resistance and corrosion protection. Fusion bonded epoxy is applied per AWWA C213, 12 mils minimum DFT and is NSF61 approved.

Optional (specify choice on order):

- **Phenolic Alkyd Primer:**

Phenolic Alkyd primer is a lead-free and chromate-free, fast-drying, corrosion-resistant primer that accepts a variety of high-performance topcoats, but is not recommended for immersion service by itself. This primer system is typically applied at 2 to 3 mils DFT.

- **Other Coating Systems (Available Upon Request):**

A water based enamel coating is available. This paint offers an aesthetic coating for minimal protection, short-term installations or where corrosion protection is not a consideration. Fusion bonded nylon for chemical and abrasion resistance, as well as other coatings such as organic zinc primers and hot dipped galvanizing may also be available.

PIPE END DIMENSIONAL TOLERANCE AND OVALITY

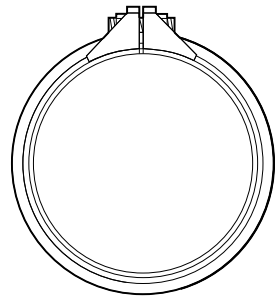
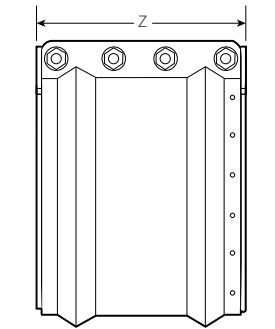
For specific pipe diameter tolerances, pipe ovality (roundness) requirements and minimum/maximum pipe diameter allowance, refer to the tables included in the Installation Manuals, Publications (below) and 26.20 Application Guidelines.

I-231.T2S1/CLAD - Styles 231/231S Expansion Coupling (Type 2, One-Segment with Cladding on Expansion Side of Pipe)

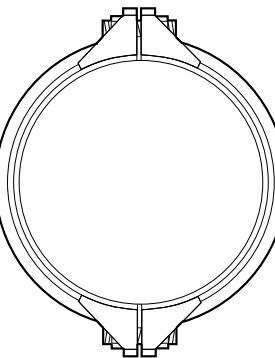
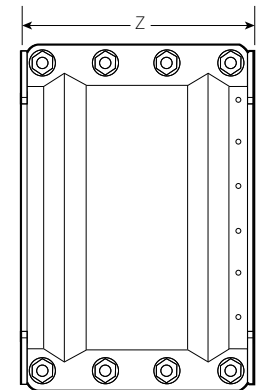
I-231.T2S2/CLAD - Styles 231/231S Expansion Coupling (Type 2, Two-Segments with Cladding on Expansion Side of Pipe)

Style 231 Non-Restrained Flexible Expansion Coupling

DIMENSIONS



1-SEGMENT



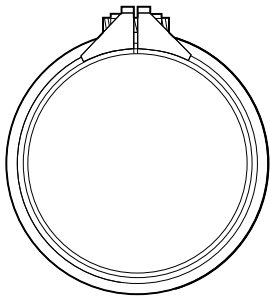
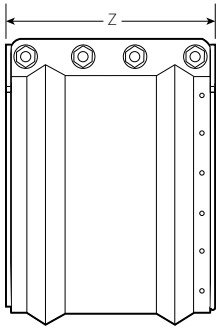
2-SEGMENT

(1) Nominal Pipe Size In./mm	(2) Actual Pipe O.D. Range In./mm	(3) Maximum Working Pressure psi/kPa	Coupling Dimensions		(4) Min. No. of Coupling Segments	No. of Fasteners - Fastener Dimensions Dia. x Length In. x In.	(5) Approximate Weight Each Lbs/Kg.	Body Type	(6) Tool Type
			Body Thickness In.	Width (Z) In./mm					
16 400	15.00 - 16.88 381.0 - 428.8	200 1375	3/16	14.38 365.3	1	4 - 3/4 x 6	97.0 44.0	2	B,C
			3/16	16.38 416.1	1	5 - 3/4 x 6	117.0 53.1	2	B,C
			3/16	18.38 466.9	1	5 - 3/4 x 6	128.0 58.1	2	B,C
		300 2065	1/4	14.38 365.3	1	4 - 3/4 x 6	110.0 49.9	2	C
			1/4	16.38 416.1	1	5 - 3/4 x 6	132.0 59.9	2	C
			1/4	18.38 466.9	1	5 - 3/4 x 6	145.0 65.8	2	C
18 450	17.00 - 18.88 431.8 - 479.6	200 1375	3/16	14.38 365.3	1	4 - 3/4 x 6	106.0 48.1	2	B,C
			3/16	16.38 416.1	1	5 - 3/4 x 6	127.0 57.6	2	B,C
			3/16	18.38 466.9	1	5 - 3/4 x 6	138.0 62.6	2	B,C
		300 2065	1/4	14.38 365.3	1	4 - 3/4 x 6	120.0 54.4	2	C
			1/4	16.38 416.1	1	5 - 3/4 x 6	143.0 64.9	2	C
			1/4	18.38 466.9	1	5 - 3/4 x 6	157.0 71.2	2	C
20 500	19.00 - 21.88 482.6 - 555.8	200 1375	3/16	14.38 365.3	1	4 - 3/4 x 6	115.0 52.2	2	B,C
			3/16	16.38 416.1	1	5 - 3/4 x 6	136.0 61.7	2	B,C
			3/16	18.38 466.9	1	5 - 3/4 x 6	150.0 68.0	2	B,C
		300 2065	1/4	14.38 365.3	1	4 - 3/4 x 6	131.0 59.4	2	C
			1/4	16.38 416.1	1	5 - 3/4 x 6	155.0 70.3	2	C
			1/4	18.38 466.9	1	5 - 3/4 x 6	170.0 77.1	2	C
24 600	22.00 - 26.88 558.8 - 682.8	150 1035	1/4	14.38 365.3	1	4 - 3/4 x 6	155.0 70.3	2	C
			1/4	16.38 416.1	1	5 - 3/4 x 6	179.0 81.2	2	C
			1/4	18.38 466.9	1	5 - 3/4 x 6	196.0 88.9	2	C
		300 2065	3/8	14.38 365.3	2	8 - 7/8 x 8	301.0 136.5	2	C
			3/8	16.38 416.1	2	10 - 7/8 x 8	377.0 171.0	2	C
			3/8	18.38 466.9	2	10 - 7/8 x 8	411.0 186.4	2	C

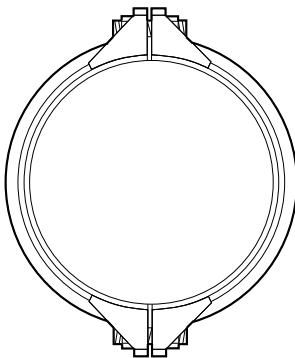
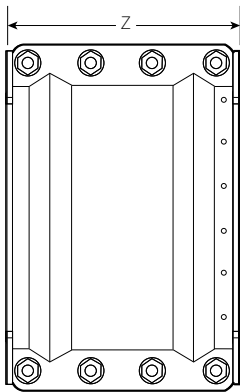
(1) Couplings must be used on pipe with a minimum wall thickness that meets the requirements of AWWA C200 for carbon steel pipe.
 (2) Actual pipe O.D. required at time of order. For actual pipe O.D. round down to the nearest 1/8" to determine proper coupling size required.
 (3) For allowable test or transient pressure, the maximum working pressure may be increased to 1 1/2 times the values shown.
 (4) 1-segment couplings may be available as 2-segment couplings to allow for in-place pipe installations. Contact Victaulic for details.
 (5) Coupling weights are based on nominal pipe diameter and include all accessories. Weight may vary based on actual size of pipe.
 (6) Closure Tool Recommendations:
 B= CTM-02 Large Manual Closure Tool
 C= CTH-01 10-Ton Hydraulic Closure Tool
 *For more details on closure tools refer to page 17.
 Note: The data in this table only applies when carbon steel couplings are being used on carbon steel pipe.

Style 231 Non-Restrained Flexible Expansion Coupling

DIMENSIONS



1-SEGMENT



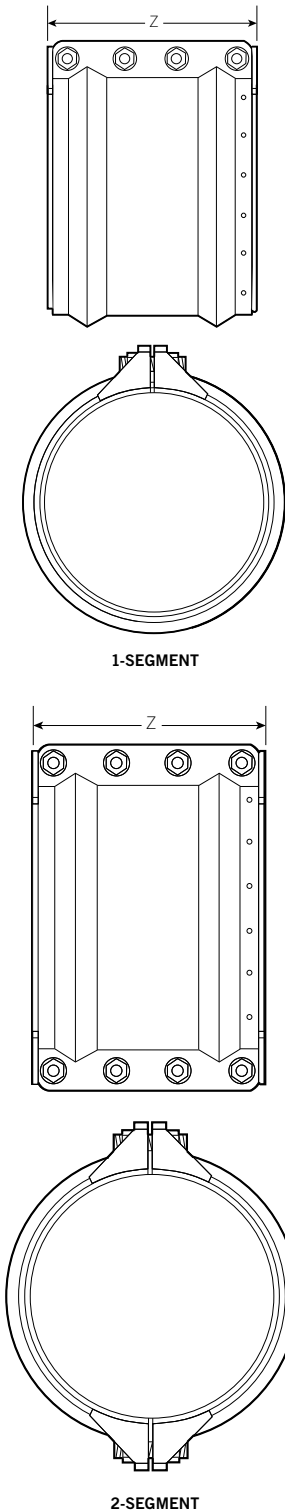
2-SEGMENT

(1) Nominal Pipe Size In./mm	(2) Actual Pipe O.D. Range In./mm	(3) Maximum Working Pressure psi/kPa	Coupling Dimensions		(4) Min. No. of Coupling Segments	No. of Fasteners - Fastener Dimensions Dia. x Length In. x In.	(5) Approximate Weight Each Lbs/Kg.	Body Type	(6) Tool Type
			Body Thickness In.	Width (Z) In./mm					
30 750	27.00 - 32.88 685.8 - 835.2	100 690	1/4	14.38 365.3	1	4 - 3/4 x 6	187.0 84.8	2	C
			1/4	16.38 416.1	1	5 - 3/4 x 6	214.0 97.1	2	C
			1/4	18.38 466.9	1	5 - 3/4 x 6	237.0 107.5	2	C
		300 2065	3/8	14.38 365.3	2	8 - 7/8 x 8	355.0 161.0	2	C
			3/8	16.38 416.1	2	10 - 7/8 x 8	437.0 198.2	2	C
			3/8	18.38 466.9	2	10 - 7/8 x 8	479.0 217.3	2	C
36 900	33.00 - 38.88 838.2 - 987.6	75 515	1/4	14.38 365.3	1	4 - 3/4 x 6	223.0 101.2	2	C
			1/4	16.38 416.1	1	5 - 3/4 x 6	287.0 130.2	2	C
			1/4	18.38 466.9	1	5 - 3/4 x 6	314.0 142.4	2	C
		300 2065	3/8	14.38 365.3	2	8 - 7/8 x 8	412.0 186.9	2	C
			3/8	16.38 416.1	2	10 - 7/8 x 8	501.0 227.2	2	C
			3/8	18.38 466.9	2	10 - 7/8 x 8	551.0 249.9	2	C
42 1050	39.00 - 44.88 990.6 - 1140.0	50 345	1/4	14.38 365.3	1	4 - 3/4 x 6	256.0 116.1	2	C
			1/4	16.38 416.1	1	5 - 3/4 x 6	323.0 146.5	2	C
			1/4	18.38 466.9	1	5 - 3/4 x 6	353.0 160.0	2	C
		250 1725	3/8	14.38 365.3	2	8 - 7/8 x 8	466.0 211.4	2	C
			3/8	16.38 416.1	2	10 - 7/8 x 8	562.0 254.9	2	C
			3/8	18.38 466.9	2	10 - 7/8 x 8	618.0 280.3	2	C
48 1200	45.00 - 50.88 1143 - 1292.4	50 345	1/4	14.38 365.3	1	4 - 3/4 x 6	288.0 130.6	2	C
			1/4	16.38 416.1	1	5 - 3/4 x 6	359.0 162.8	2	C
			1/4	18.38 466.9	1	5 - 3/4 x 6	393.0 178.3	2	C
		250 1725	3/8	14.38 365.3	2	8 - 7/8 x 8	520.0 235.9	2	C
			3/8	16.38 416.1	2	10 - 7/8 x 8	624.0 283.0	2	C
			3/8	18.38 466.9	2	10 - 7/8 x 8	686.0 311.2	2	C

(1) Couplings must be used on pipe with a minimum wall thickness that meets the requirements of AWWA C200 for carbon steel pipe.
 (2) Actual pipe O.D. required at time of order. For actual pipe O.D. round down to the nearest 1/8" to determine proper coupling size required.
 (3) For allowable test or transient pressure, the maximum working pressure may be increased to 1 1/2 times the values shown.
 (4) 1-segment couplings may be available as 2-segment couplings to allow for in-place pipe installations. Contact Victaulic for details.
 (5) Coupling weights are based on nominal pipe diameter and include all accessories. Weight may vary based on actual size of pipe.
 (6) Closure Tool Recommendations: *
 B= CTM-02 Large Manual Closure Tool
 C= CTH-01 10-Ton Hydraulic Closure Tool
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 Note: The data in this table only applies when carbon steel couplings are being used on carbon steel pipe.

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DIMENSIONS

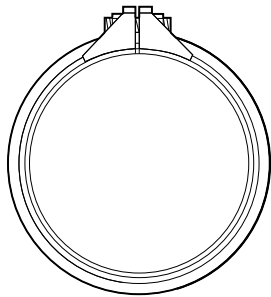
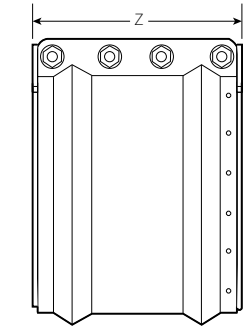


(1)	(2)	(3)	Coupling Dimensions		(4)	(5)	(6)	(7)	(8)
			Body Thickness In.	Width (Z) In./mm					
54 1350	51.00 - 56.88 1295.4 - 1444.8	200 1375	3/8	14.38 365.3	2	8 - 7/8 x 8	562.0 254.9	2	C
			3/8	16.38 416.1	2	10 - 7/8 x 8	671.0 304.4	2	C
			3/8	18.38 466.9	2	10 - 7/8 x 8	738.0 334.8	2	C
60 1500	57.00 - 62.88 1447.8 - 1597.2	200 1375	3/8	14.38 365.3	2	8 - 7/8 x 8	616.0 279.4	2	C
			3/8	16.38 416.1	2	10 - 7/8 x 8	732.0 332.0	2	C
			3/8	18.38 466.9	2	10 - 7/8 x 8	806.0 365.6	2	C
66 1650	63.00 - 68.88 1600.2 - 1749.6	175 1200	3/8	14.38 365.3	2	8 - 7/8 x 8	660.0 299.4	2	C
			3/8	16.38 416.1	2	10 - 7/8 x 8	779.0 353.3	2	C
			3/8	18.38 466.9	2	10 - 7/8 x 8	859.0 389.6	2	C
72 1800	69.00 - 74.88 1752.6 - 1902.0	175 1200	3/8	14.38 365.3	2	8 - 7/8 x 8	714.0 323.9	2	C
			3/8	16.38 416.1	2	10 - 7/8 x 8	840.0 381.0	2	C
			3/8	18.38 466.9	2	10 - 7/8 x 8	926.0 420.0	2	C
78 1950	75.00 - 80.88 1905.0 - 2054.4	150 1035	3/8	14.38 365.3	2	8 - 7/8 x 8	756.0 342.9	2	C
			3/8	16.38 416.1	2	10 - 7/8 x 8	888.0 402.8	2	C
			3/8	18.38 466.9	2	10 - 7/8 x 8	980.0 444.5	2	C
84 2100	81.00 - 86.88 2057.4 - 2206.8	150 1035	3/8	14.38 365.3	2	8 - 7/8 x 8	810.0 367.4	2	C
			3/8	16.38 416.1	2	10 - 7/8 x 8	949.0 430.5	2	C
			3/8	18.38 466.9	2	10 - 7/8 x 8	1047.0 474.9	2	C
90 2250	87.00 - 92.88 2209.8 - 2359.2	100 690	3/8	14.38 365.3	2	8 - 7/8 x 8	852.0 386.5	2	C
			3/8	16.38 416.1	2	10 - 7/8 x 8	996.0 451.8	2	C
			3/8	18.38 466.9	2	10 - 7/8 x 8	1099.0 498.5	2	C
96 2400	93.00 - 101.88 2362.2 - 2587.8	100 690	3/8	14.38 365.3	2	8 - 7/8 x 8	917.0 415.9	2	C
			3/8	16.38 416.1	2	10 - 7/8 x 8	1070.0 485.3	2	C
			3/8	18.38 466.9	2	10 - 7/8 x 8	1181.0 535.7	2	C
108 2700	102.00 - 113.88 2590.8 - 2892.6	100 690	3/8	14.38 365.3	2	8 - 7/8 x 8	1002.0 454.5	2	C
			3/8	16.38 416.1	2	10 - 7/8 x 8	1164.0 528.0	2	C
			3/8	18.38 466.9	2	10 - 7/8 x 8	1286.0 583.3	2	C

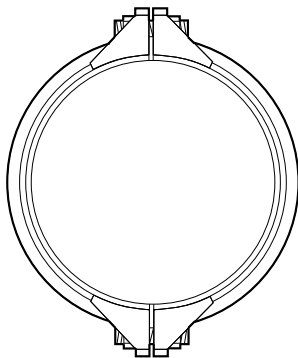
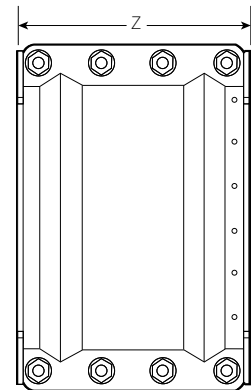
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DIMENSIONS



1-SEGMENT



2-SEGMENT

(1) Nominal Pipe Size In./mm	(2) Actual Pipe O.D. Range In./mm	(3) Maximum Working Pressure psi/kPa	Coupling Dimensions		(4) Min. No. of Coupling Segments	No. of Fasteners - Fastener Dimensions Dia. x Length In. x In.	(5) Approximate Weight Each Lbs/Kg.	Body Type	(6) Tool Type		
			Body Thickness In.	Width (Z) In./mm							
120 3000	114.00 - 125.88 2895.6 - 3197.4	75 515	3/8	14.38 365.3	2	8 - 7/8 x 8	1098.0 498.0	2	C		
			3/8	16.38 416.1						10 - 7/8 x 8	1272.0 577.0
			3/8	18.38 466.9							
144 3600	126.00 - 150.00 3200.4 - 3810.0	75 515	3/8	14.38 365.3	2	8 - 7/8 x 8	1267.0 574.7	2	C		
			3/8	16.38 416.1						10 - 7/8 x 8	1462.0 663.2
			3/8	18.38 466.9							

- (1) Couplings must be used on pipe with a minimum wall thickness that meets the requirements of AWWA C200 for carbon steel pipe.
 - (2) Actual pipe O.D. required at time of order. For actual pipe O.D. round down to the nearest 1/8" to determine proper coupling size required.
 - (3) For allowable test or transient pressure, the maximum working pressure may be increased to 1 1/2 times the values shown.
 - (4) 1-segment couplings may be available as 2-segment couplings to allow for in-place pipe installations. Contact Victaulic for details.
 - (5) Coupling weights are based on nominal pipe diameter and include all accessories. Weight may vary based on actual size of pipe.
 - (6) Closure Tool Recommendations:
 - B= CTM-02 Large Manual Closure Tool
 - C= CTH-01 10-Ton Hydraulic Closure Tool
- *For more details on closure tools refer to page 17.
 Note: The data in this table only applies when carbon steel couplings are being used on carbon steel pipe.

Style 231 Non-Restrained Flexible Expansion Coupling

PERFORMANCE

Nominal Pipe Size In./mm	(1)			Body Type	Width (Z) In./mm	(2) Pipe End Separation Min - Max In./mm	Max. Allowable Axial Pipe Movement In./mm
	Maximum Working Pressure psi/kPa Carbon Steel	Maximum Working Pressure psi/kPa Stainless Steel	Maximum Working Pressure psi/kPa Ductile Iron				
16 400	200 1375	200 1375	N/R	2	14.38 365.3	0 - 2.00 0 - 50.8	2.00 50.8
				2	16.38 416.1	0 - 3.00 0 - 76.2	3.00 76.2
				2	18.38 466.9	0 - 4.00 0 - 101.6	4.00 101.6
	300 2065	300 2065	N/R	2	14.38 365.3	0 - 2.00 0 - 50.8	2.00 50.8
				2	16.38 416.1	0 - 3.00 0 - 76.2	3.00 76.2
				2	18.38 466.9	0 - 4.00 0 - 101.6	4.00 101.6
18 450	200 1375	200 1375	N/R	2	14.38 365.3	0 - 2.00 0 - 50.8	2.00 50.8
				2	16.38 416.1	0 - 3.00 0 - 76.2	3.00 76.2
				2	18.38 466.9	0 - 4.00 0 - 101.6	4.00 101.6
	300 2065	300 2065	N/R	2	14.38 365.3	0 - 2.00 0 - 50.8	2.00 50.8
				2	16.38 416.1	0 - 3.00 0 - 76.2	3.00 76.2
				2	18.38 466.9	0 - 4.00 0 - 101.6	4.00 101.6
20 500	200 1375	200 1375	N/R	2	14.38 365.3	0 - 2.00 0 - 50.8	2.00 50.8
				2	16.38 416.1	0 - 3.00 0 - 76.2	3.00 76.2
				2	18.38 466.9	0 - 4.00 0 - 101.6	4.00 101.6
	300 2065	300 2065	N/R	2	14.38 365.3	0 - 2.00 0 - 50.8	2.00 50.8
				2	16.38 416.1	0 - 3.00 0 - 76.2	3.00 76.2
				2	18.38 466.9	0 - 4.00 0 - 101.6	4.00 101.6
24 600	150 1035	150 1035	N/R	2	14.38 365.3	0 - 2.00 0 - 50.8	2.00 50.8
				2	16.38 416.1	0 - 3.00 0 - 76.2	3.00 76.2
				2	18.38 466.9	0 - 4.00 0 - 101.6	4.00 101.6
	300 2065	300 2065	N/R	2	14.38 365.3	0 - 2.00 0 - 50.8	2.00 50.8
				2	16.38 416.1	0 - 3.00 0 - 76.2	3.00 76.2
				2	18.38 466.9	0 - 4.00 0 - 101.6	4.00 101.6
30 750	100 690	100 690	N/R	2	14.38 365.3	0 - 2.00 0 - 50.8	2.00 50.8
				2	16.38 416.1	0 - 3.00 0 - 76.2	3.00 76.2
				2	18.38 466.9	0 - 4.00 0 - 101.6	4.00 101.6
	300 2065	300 2065	N/R	2	14.38 365.3	0 - 2.00 0 - 50.8	2.00 50.8
				2	16.38 416.1	0 - 3.00 0 - 76.2	3.00 76.2
				2	18.38 466.9	0 - 4.00 0 - 101.6	4.00 101.6

(1) For allowable test or transient pressure, the maximum working pressure may be increased to 1 ½ times the values shown.
 (2) The maximum pipe end separation in the tables also represents the maximum allowable axial pipe movement within the coupling. At maximum pipe end separation, axial pipe movement can only be accommodated in the direction of pipe expansion (pipe ends moving toward each other) within the coupled joint. At no time during operation should the pipe ends exceed the maximum listed values. The temperature of the pipe at time of installation will impact the separation between pipe ends. Consult publication 26.20 or contact Victaulic for details.

Style 231 Non-Restrained Flexible Expansion Coupling

PERFORMANCE

Nominal Pipe Size In./mm	(1)			Body Type	Width (Z) In./mm	(2) Pipe End Separation Min - Max In./mm	Max. Allowable Axial Pipe Movement In./mm
	Maximum Working Pressure psi/kPa Carbon Steel	Maximum Working Pressure psi/kPa Stainless Steel	Maximum Working Pressure psi/kPa Ductile Iron				
36 900	75 515	75 515	N/R	2	14.38 365.3	0 - 2.00 0 - 50.8	2.00 50.8
				2	16.38 416.1	0 - 3.00 0 - 76.2	3.00 76.2
				2	18.38 466.9	0 - 4.00 0 - 101.6	4.00 101.6
	300 2065	300 2065	N/R	2	14.38 365.3	0 - 2.00 0 - 50.8	2.00 50.8
				2	16.38 416.1	0 - 3.00 0 - 76.2	3.00 76.2
				2	18.38 466.9	0 - 4.00 0 - 101.6	4.00 101.6
42 1050	50 345	50 345	N/R	2	14.38 365.3	0 - 2.00 0 - 50.8	2.00 50.8
				2	16.38 416.1	0 - 3.00 0 - 76.2	3.00 76.2
				2	18.38 466.9	0 - 4.00 0 - 101.6	4.00 101.6
	250 1725	250 1725	N/R	2	14.38 365.3	0 - 2.00 0 - 50.8	2.00 50.8
				2	16.38 416.1	0 - 3.00 0 - 76.2	3.00 76.2
				2	18.38 466.9	0 - 4.00 0 - 101.6	4.00 101.6
48 1200	50 345	50 345	N/R	2	14.38 365.3	0 - 2.00 0 - 50.8	2.00 50.8
				2	16.38 416.1	0 - 3.00 0 - 76.2	3.00 76.2
				2	18.38 466.9	0 - 4.00 0 - 101.6	4.00 101.6
	250 1725	250 1725	N/R	2	14.38 365.3	0 - 2.00 0 - 50.8	2.00 50.8
				2	16.38 416.1	0 - 3.00 0 - 76.2	3.00 76.2
				2	18.38 466.9	0 - 4.00 0 - 101.6	4.00 101.6
54 1350	200 1375	200 1375	N/R	2	14.38 365.3	0 - 2.00 0 - 50.8	2.00 50.8
				2	16.38 416.1	0 - 3.00 0 - 76.2	3.00 76.2
				2	18.38 466.9	0 - 4.00 0 - 101.6	4.00 101.6
60 1500	200 1375	200 1375	N/R	2	14.38 365.3	0 - 2.00 0 - 50.8	2.00 50.8
				2	16.38 416.1	0 - 3.00 0 - 76.2	3.00 76.2
				2	18.38 466.9	0 - 4.00 0 - 101.6	4.00 101.6
66 1650	175 1200	175 1200	N/R	2	14.38 365.3	0 - 2.00 0 - 50.8	2.00 50.8
				2	16.38 416.1	0 - 3.00 0 - 76.2	3.00 76.2
				2	18.38 466.9	0 - 4.00 0 - 101.6	4.00 101.6

(1) For allowable test or transient pressure, the maximum working pressure may be increased to 1½ times the values shown.

(2) The maximum pipe end separation in the tables also represents the maximum allowable axial pipe movement within the coupling. At maximum pipe end separation, axial pipe movement can only be accommodated in the direction of pipe expansion (pipe ends moving toward each other) within the coupled joint. At no time during operation should the pipe ends exceed the maximum listed values. The temperature of the pipe at time of installation will impact the separation between pipe ends. Consult publication 26.20 or contact Victaulic for details.

Style 231 Non-Restrained Flexible Expansion Coupling

PERFORMANCE

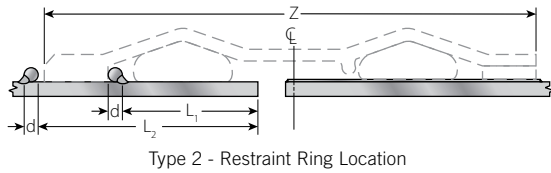
Nominal Pipe Size In./mm	(1)			Body Type	Width (Z) In./mm	(2)	
	Maximum Working Pressure psi/kPa Carbon Steel	Maximum Working Pressure psi/kPa Stainless Steel	Maximum Working Pressure psi/kPa Ductile Iron			Pipe End Separation Min - Max In./mm	Max. Allowable Axial Pipe Movement In./mm
72 1800	175 1200	175 1200	N/R	2	14.38 365.3	0 - 2.00 0 - 50.8	2.00 50.8
				2	16.38 416.1	0 - 3.00 0 - 76.2	3.00 76.2
				2	18.38 466.9	0 - 4.00 0 - 101.6	4.00 101.6
78 1950	150 1035	150 1035	N/R	2	14.38 365.3	0 - 2.00 0 - 50.8	2.00 50.8
				2	16.38 416.1	0 - 3.00 0 - 76.2	3.00 76.2
				2	18.38 466.9	0 - 4.00 0 - 101.6	4.00 101.6
84 2100	150 1035	150 1035	N/R	2	14.38 365.3	0 - 2.00 0 - 50.8	2.00 50.8
				2	16.38 416.1	0 - 3.00 0 - 76.2	3.00 76.2
				2	18.38 466.9	0 - 4.00 0 - 101.6	4.00 101.6
90 2250	100 690	100 690	N/R	2	14.38 365.3	0 - 2.00 0 - 50.8	2.00 50.8
				2	16.38 416.1	0 - 3.00 0 - 76.2	3.00 76.2
				2	18.38 466.9	0 - 4.00 0 - 101.6	4.00 101.6
96 2400	100 690	100 690	N/R	2	14.38 365.3	0 - 2.00 0 - 50.8	2.00 50.8
				2	16.38 416.1	0 - 3.00 0 - 76.2	3.00 76.2
				2	18.38 466.9	0 - 4.00 0 - 101.6	4.00 101.6
108 2700	100 690	100 690	N/R	2	14.38 365.3	0 - 2.00 0 - 50.8	2.00 50.8
				2	16.38 416.1	0 - 3.00 0 - 76.2	3.00 76.2
				2	18.38 466.9	0 - 4.00 0 - 101.6	4.00 101.6
120 3000	75 515	75 515	N/R	2	14.38 365.3	0 - 2.00 0 - 50.8	2.00 50.8
				2	16.38 416.1	0 - 3.00 0 - 76.2	3.00 76.2
				2	18.38 466.9	0 - 4.00 0 - 101.6	4.00 101.6
144 3600	75 515	75 515	N/R	2	14.38 365.3	0 - 2.00 0 - 50.8	2.00 50.8
				2	16.38 416.1	0 - 3.00 0 - 76.2	3.00 76.2
				2	18.38 466.9	0 - 4.00 0 - 101.6	4.00 101.6

(1) For allowable test or transient pressure, the maximum working pressure may be increased to 1 ½ times the values shown.

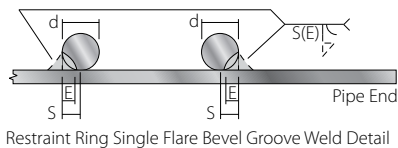
(2) The maximum pipe end separation in the tables also represents the maximum allowable axial pipe movement within the coupling. At maximum pipe end separation, axial pipe movement can only be accommodated in the direction of pipe expansion (pipe ends moving toward each other) within the coupled joint. At no time during operation should the pipe ends exceed the maximum listed values. The temperature of the pipe at time of installation will impact the separation between pipe ends. Consult publication 26.20 or contact Victaulic for details.

Style 231 Non-Restrained Flexible Expansion Coupling

RESTRAINT RINGS



Type 2 - Restraint Ring Location



Restraint Ring Single Flare Bevel Groove Weld Detail

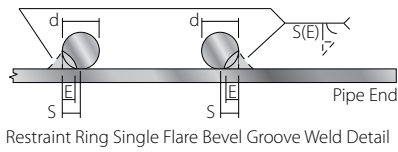
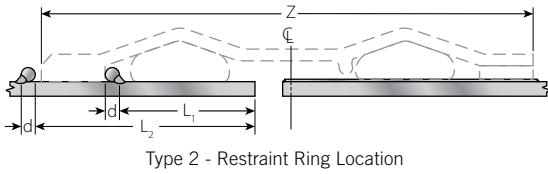
Nominal Pipe Size In./mm	(1) Maximum Working Pressure psi/kPa	Body Type	Width (Z) In./mm	Restraint Rings			Weld Size (E) In
				Diameter (d) In./mm	Location (L1) In./mm	Location (L2) In./mm	
16 400	200 1375	2	14.38 365.3	¼	4.50 114.3	6.25 158.8	⅜/32
			16.38 416.1	¼	4.50 114.3	6.25 158.8	⅜/32
			18.38 466.9	¼	4.50 114.3	6.25 158.8	⅜/32
	300 2065	2	14.38 365.3	¼	4.50 114.3	6.25 158.8	⅜/32
			16.38 416.1	¼	4.50 114.3	6.25 158.8	⅜/32
			18.38 466.9	¼	4.50 114.3	6.25 158.8	⅜/32
18 450	200 1375	2	14.38 365.3	¼	4.50 114.3	6.25 158.8	⅜/32
			16.38 416.1	¼	4.50 114.3	6.25 158.8	⅜/32
			18.38 466.9	¼	4.50 114.3	6.25 158.8	⅜/32
	300 2065	2	14.38 365.3	¼	4.50 114.3	6.25 158.8	⅜/32
			16.38 416.1	¼	4.50 114.3	6.25 158.8	⅜/32
			18.38 466.9	¼	4.50 114.3	6.25 158.8	⅜/32
20 500	200 1375	2	14.38 365.3	¼	4.50 114.3	6.25 158.8	⅜/32
			16.38 416.1	¼	4.50 114.3	6.25 158.8	⅜/32
			18.38 466.9	¼	4.50 114.3	6.25 158.8	⅜/32
	300 2065	2	14.38 365.3	¼	4.50 114.3	6.25 158.8	⅜/32
			16.38 416.1	¼	4.50 114.3	6.25 158.8	⅜/32
			18.38 466.9	¼	4.50 114.3	6.25 158.8	⅜/32
24 600	150 1035	2	14.38 365.3	¼	4.50 114.3	6.25 158.8	⅜/32
			16.38 416.1	¼	4.50 114.3	6.25 158.8	⅜/32
			18.38 466.9	¼	4.50 114.3	6.25 158.8	⅜/32
	300 2065	2	14.38 365.3	¼	4.50 114.3	6.25 158.8	⅜/32
			16.38 416.1	¼	4.50 114.3	6.25 158.8	⅜/32
			18.38 466.9	¼	4.50 114.3	6.25 158.8	⅜/32

- (1) For allowable test or transient pressure, the maximum working pressure may be increased to 1½ times the values shown.
- (2) Restraint rings must be welded perpendicular to the pipe axis with a tolerance of $L \pm \frac{1}{16} / 1.6$ mm. Each restraint ring shipment includes restraint ring placement and welding data that is specific to application or project requirements. Contact Victaulic for details.
- (3) Flare bevel groove weld size in table is the minimum requirement. Depth of preparation $S = (d) \div 2$; Weld size $E \approx S * 0.625$ per AWS D1.1. The coupling shoulder must have unrestricted contact with the ring and the pipe O.D.

Note: The data in this table only applies when carbon steel couplings are being used on carbon steel pipe.

Style 231 Non-Restrained Flexible Expansion Coupling

RESTRAINT RINGS



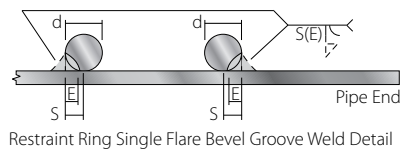
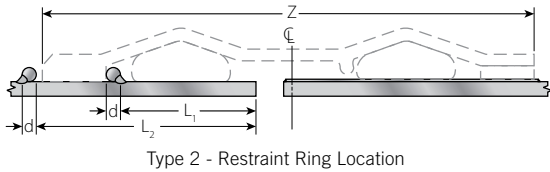
Nominal Pipe Size In./mm	(1) Maximum Working Pressure psi/kPa	Body Type	Width (Z) In./mm	Restraint Rings			Weld Size (E) In
				Diameter-(d) In./mm	Location (L1) In./mm	Location (L2) In./mm	
30 750	100 690	2	14.38 365.3	¼	4.50 114.3	6.25 158.8	⅜
			16.38 416.1	¼	4.50 114.3	6.25 158.8	⅜
			18.38 466.9	¼	4.50 114.3	6.25 158.8	⅜
	300 2065	2	14.38 365.3	¼	4.50 114.3	6.25 158.8	⅜
			16.38 416.1	¼	4.50 114.3	6.25 158.8	⅜
			18.38 466.9	¼	4.50 114.3	6.25 158.8	⅜
36 900	75 515	2	14.38 365.3	⅜	4.50 114.3	6.50 158.8	⅜
			16.38 416.1	⅜	4.50 114.3	6.50 158.8	⅜
			18.38 466.9	⅜	4.50 114.3	6.50 158.8	⅜
	300 2065	2	14.38 365.3	⅜	4.50 114.3	6.50 158.8	⅜
			16.38 416.1	⅜	4.50 114.3	6.50 158.8	⅜
			18.38 466.9	⅜	4.50 114.3	6.50 158.8	⅜
42 1050	50 345	2	14.38 365.3	⅜	4.50 114.3	6.50 158.8	⅜
			16.38 416.1	⅜	4.50 114.3	6.50 158.8	⅜
			18.38 466.9	⅜	4.50 114.3	6.50 158.8	⅜
	250 1725	2	14.38 365.3	⅜	4.50 114.3	6.50 158.8	⅜
			16.38 416.1	⅜	4.50 114.3	6.50 158.8	⅜
			18.38 466.9	⅜	4.50 114.3	6.50 158.8	⅜
48 1200	50 345	2	14.38 365.3	⅜	4.50 114.3	6.50 158.8	⅜
			16.38 416.1	⅜	4.50 114.3	6.50 158.8	⅜
			18.38 466.9	⅜	4.50 114.3	6.50 158.8	⅜
	250 1725	2	14.38 365.3	⅜	4.50 114.3	6.50 158.8	⅜
			16.38 416.1	⅜	4.50 114.3	6.50 158.8	⅜
			18.38 466.9	⅜	4.50 114.3	6.50 158.8	⅜

- (1) For allowable test or transient pressure, the maximum working pressure may be increased to 1½ times the values shown.
- (2) Restraint rings must be welded perpendicular to the pipe axis with a tolerance of $\pm \frac{1}{16}$ "/1.6 mm. Each restraint ring shipment includes restraint ring placement and welding data that is specific to application or project requirements. Contact Victaulic for details.
- (3) Flare bevel groove weld size in table is the minimum requirement. Depth of preparation $S = (d) \div 2$; Weld size $E \approx S * 0.625$ per AWS D1.1. The coupling shoulder must have unrestricted contact with the ring and the pipe O.D.

Note: The data in this table only applies when carbon steel couplings are being used on carbon steel pipe.

Style 231 Non-Restrained Flexible Expansion Coupling

RESTRAINT RINGS



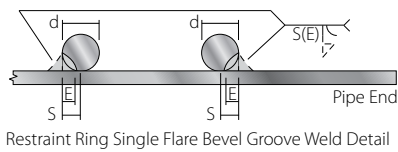
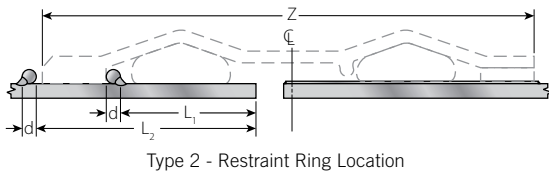
Nominal Pipe Size In./mm	(1) Maximum Working Pressure psi/kPa	Body Type	Width (Z) In./mm	Restraint Rings			Weld Size (E) In
				Diameter (d) In./mm	Location (L1) In./mm	Location (L2) In./mm	
54 1350	200 1375	2	14.38 365.3	3/8	4.50 114.3	6.50 165.1	1/8
			16.38 416.1				
			18.38 466.9				
60 1500	200 1375	2	14.38 365.3	3/8	4.50 114.3	6.50 165.1	1/8
			16.38 416.1				
			18.38 466.9				
66 1650	175 1200	2	14.38 365.3	3/8	4.50 114.3	6.50 165.1	1/8
			16.38 416.1				
			18.38 466.9				
72 1800	175 1200	2	14.38 365.3	3/8	4.50 114.3	6.50 165.1	1/8
			16.38 416.1				
			18.38 466.9				
78 1950	150 1035	2	14.38 365.3	3/8	4.50 114.3	6.50 165.1	1/8
			16.38 416.1				
			18.38 466.9				
84 2100	150 1035	2	14.38 365.3	3/8	4.50 114.3	6.50 165.1	1/8
			16.38 416.1				
			18.38 466.9				
90 2250	100 690	2	14.38 365.3	3/8	4.50 114.3	6.50 165.1	1/8
			16.38 416.1				
			18.38 466.9				
96 2400	100 690	2	14.38 365.3	3/8	4.50 114.3	6.50 165.1	1/8
			16.38 416.1				
			18.38 466.9				

- (1) For allowable test or transient pressure, the maximum working pressure may be increased to 1 1/2 times the values shown.
- (2) Restraint rings must be welded perpendicular to the pipe axis with a tolerance of $L \pm 1/16" / 1.6 \text{ mm}$. Each restraint ring shipment includes restraint ring placement and welding data that is specific to application or project requirements. Contact Victaulic for details.
- (3) Flare bevel groove weld size in table is the minimum requirement. Depth of preparation $S = (d) \div 2$; Weld size $E \approx S * 0.625$ per AWS D1.1. The coupling shoulder must have unrestricted contact with the ring and the pipe O.D.

Note: The data in this table only applies when carbon steel couplings are being used on carbon steel pipe.

Style 231 Non-Restrained Flexible Expansion Coupling

RESTRAINT RINGS



Nominal Pipe Size In./mm	(1) Maximum Working Pressure psi/kPa	Body Type	Width (Z) In./mm	Restraint Rings			Weld Size (E) In
				Diameter (d) In./mm	Location (L1) In./mm	Location (L2) In./mm	
108 2700	100 690	2	14.38 365.3	3/8	4.50 114.3	6.50 165.1	1/8
			16.38 416.1	3/8	4.50 114.3	6.50 165.1	1/8
			18.38 466.9	3/8	4.50 114.3	6.50 165.1	1/8
120 3000	75 515	2	14.38 365.3	3/8	4.50 114.3	6.50 165.1	1/8
			16.38 416.1	3/8	4.50 114.3	6.50 165.1	1/8
			18.38 466.9	3/8	4.50 114.3	6.50 165.1	1/8
144 3600	75 515	2	14.38 365.3	3/8	4.50 114.3	6.50 165.1	1/8
			16.38 416.1	3/8	4.50 114.3	6.50 165.1	1/8
			18.38 466.9	3/8	4.50 114.3	6.50 165.1	1/8

- (1) For allowable test or transient pressure, the maximum working pressure may be increased to 1 1/2 times the values shown.
- (2) Restraint rings must be welded perpendicular to the pipe axis with a tolerance of $L \pm 1/16 \text{ } \sqrt{1.6}$ mm. Each restraint ring shipment includes restraint ring placement and welding data that is specific to application or project requirements. Contact Victaulic for details.
- (3) Flare bevel groove weld size in table is the minimum requirement. Depth of preparation $S = (d) \div 2$; Weld size $E \approx S * 0.625$ per AWS D1.1. The coupling shoulder must have unrestricted contact with the ring and the pipe O.D.

Note: The data in this table only applies when carbon steel couplings are being used on carbon steel pipe.

Style 231 Non-Restrained Flexible Expansion Coupling

CLOSURE TOOLS



MANUAL TOOL



HYDRAULIC TOOL

Manual Tools

- CTM-01: for use on 5" and 8" body widths
- CTM-02: for use on 10" body widths
for use on 12" body widths with thickness of $\frac{3}{16}$ " or less

Hydraulic Tools

- CTH-01*: for use on 12" body widths with thickness of $\frac{1}{4}$ " or greater
for use on 14", 16" and 18" body widths
- CTH-02: for use on all type 3 couplings
- Hydraulic tool package comes standard with:
 - one (1) tool head
 - one (1) hydraulic cylinder
 - one (1) hydraulic hose
 - one (1) hand pump

* A CTH-01 hydraulic closure tool can be used in applications where the CTM-02 manual closure tool is recommended.

Note: The closure tools listed above are designed specifically for Victaulic Style 230, 231, 232 and 233 couplings. If ordering custom product, contact Victaulic for appropriate tool selection.

Style 231 Non-Restrained Flexible Expansion Coupling

PRODUCT CONFIGURATOR

C 0231 0144 50 S 2 C E P S S D

Class	Style	Actual Pipe O.D.*		Body Type	Segments	PSI/kPa Rating	Rubber Compound	Paint	Hardware	Ring and Pipe Material	Movement †
		Inches^	Fraction								
C	0231	0015 through 0150	00 - 0 13 - 1/8 25 - 1/4 38 - 3/8 50 - 1/2 63 - 5/8 75 - 3/4 88 - 7/8	S - Carbon	1 - One 2 - Two	B - 50/345 C - 75/515 D - 100/690 F - 150/1035 G - 175/1200 H - 200/1375 J - 250/1725 K - 300/2065	E - EPDM I - Isoprene L - Silicone T - Nitrile V - Neoprene O - Fluoro-elastomer	F - Fusion bonded epoxy P - Orange enamel T - Shop primer B - Liquid epoxy N - Fusion bonded nylon G - Galvanized 0 - None	S - Carbon X - Stainless	S - Carbon Steel Ring on Carbon Steel Pipe X - Stainless Steel Ring on Stainless Steel Pipe	D - 2.00" E - 3.00" F - 4.00"

^ Couplings are available in a range of nominal sizes from 16 - 144".
 * For actual pipe O.D. round down to the nearest 1/8" to determine proper coupling size required.
 † Movement provided is dependent on size and body type and must correspond to allowable movements published in the product submittal.

ENGINEERED PRODUCTS OPTIONS

For non-standard products the Victaulic Engineered Products group can assist with specialty joints designed to meet the specific size, pressure and temperature requirements of your system.

WARRANTY

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

NOTE

This product shall be manufactured by Victaulic or to Victaulic specifications. All products to be installed in accordance with current Victaulic installation/assembly instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.

TESTING

Victaulic Style 231 couplings are designed to allow for a 50 percent increase over the published maximum working pressure for test and/or transient pressures. Due to the huge volume of air that can be involved in jobsite air testing and the nature of air or gas that is pressurized, jobsite air testing should be limited to 25 psi/175 kPa or less.

For complete contact information, visit www.victaulic.com

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