

Expansion Joints

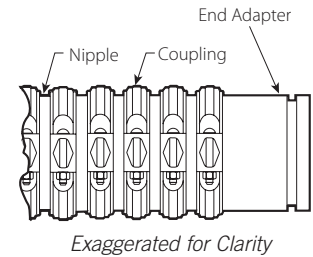
STYLE 155

Style 155 Expansion Joints are a combination of couplings and short nipples, joined in tandem to provide increased expansion. The nipples are precisely grooved to provide full linear allowance at each joint.

The standard units are prepared with Style 77 or Style 75 couplings and are assembled with nipples in the full open position for full expansion. For contraction services, units are fully compressed. Where expansion and contraction allowances are needed, the spacing will be set proportionally to the installation temperature and the temperature extremes (according to customer specifications). The ties holding the couplings in position must be removed after installation.

Victaulic expansion joints may be used as flexible connectors; however, they will not simultaneously provide full expansion and full deflection. Expansion joints installed horizontally require independent support to prevent deflection which will reduce the available expansion.

Request 09.06, 09.13 and 26.02 for design installation information.



MATERIAL SPECIFICATIONS

Housing: Ductile iron conforming to ASTM A-536, grade 65-45-12. Ductile iron conforming to ASTM A-395, grade 65-45-15, is available upon special request.

Housing Coating: Orange enamel

- **Optional:** Hot dip galvanized and others. Contact Victaulic for details.

Nipples:

- ¾ – 4"/20 – 100mm: Schedule 40, carbon steel conforming to ASTM A-53, Type F.
- 5 & 6"/125 & 150mm: Schedule 40, carbon steel conforming to ASTM A-53, Type E or S, Grade B.
- 8 – 12"/200 – 300mm: Schedule 30, carbon steel conforming to ASTM A-53, Type E or S, Grade B.
- 14 – 24"/350 – 600mm: 0.375 wall carbon steel conforming to ASTM A-53, Type E or S, Grade B.

Gasket: (specify choice*)

- **Grade "E" EPDM**
EPDM (Green color code). Temperature range –30°F to +230°F/–34°C to +100°C. Recommended 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 +86°F/+30°C and hot +180°F/+82°C potable water service. NOT RECOMMENDED FOR PETROLEUM SERVICES.
- **Grade "T" nitrile**
Nitrile (Orange color code). Temperature range –20°F to +180°F/–29°C to +82°C. Recommended for petroleum products, air with oil vapors, vegetable and mineral oils within the specified temperature range. Not recommended for hot water services over +150°F/+66°C or for hot dry air over +140°F/+60°C.

* Services listed are General Service Recommendations only. It should be noted that there are services for which these gaskets are not recommended. Reference should always be made to the latest Victaulic Gasket Selection Guide for specific gasket service recommendations and for a listing of services which are not recommended.

Bolts/Nuts: Heat-treated plated carbon steel, trackhead meeting the physical and chemical requirements of ASTM A-449 and physical requirements of ASTM A-183.

JOB/OWNER

System No. _____
Location _____

CONTRACTOR

Submitted By _____
Date _____

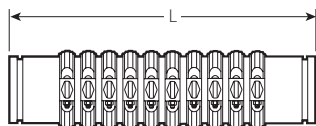
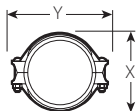
ENGINEER

Spec Sect _____ Para _____
Approved _____
Date _____

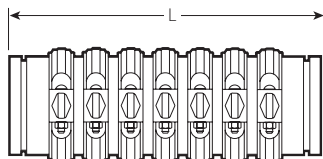
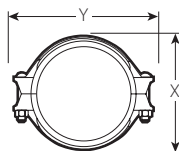
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DIMENSIONS



TYPICAL ¾ – 3 ½"/20 – 90MM SIZES



TYPICAL 4 – 12"/100 – 300MM SIZES

Standard Units †								
Size		Style	Dimensions – Inches/mm					Approx. Wgt. Each
Nominal Size Inches mm	Actual Outside Diameter Inches mm	Coupling Style	L - Length (ref.) §		X Height	Y Width	Total Movement Capability	Lbs. kg
			Compressed	Expanded				
¾ 20	1.050 26.7	77	26.25 667	28.13 715	2.13 54	3.63 92	1.88 48	17.0 7.7
1 25	1.315 33.7	77	26.25 667	28.13 715	2.38 61	3.88 99	1.88 48	20.0 9.1
1 ¼ 32	1.660 42.4	77	28.25 718	30.13 765	2.63 67	4.63 118	1.88 48	28.0 12.7
1 ½ 40	1.900 48.3	77	28.25 718	30.13 765	3.00 76	5.00 127	1.88 48	31.0 14.1
2 50	2.375 60.3	75	28.25 718	30.13 765	3.50 89	5.13 130	1.88 48	27.0 12.2
2 ½ 65	2.875 73.0	75	28.25 718	30.13 765	4.00 102	5.88 149	1.88 48	36.0 16.3
3 80	3.500 88.9	75	28.25 718	30.13 765	4.63 118	6.75 172	1.88 48	46.0 20.9
3 ½ 90	4.000 101.6	75	28.25 718	30.13 765	5.25 133	7.38 188	1.88 48	54.0 24.5
4 100	4.500 114.3	75	26.25 667	28.00 711	5.88 149	8.00 203	1.75 45	54.0 24.5
5 125	5.563 141.3	75	26.25 667	28.00 711	7.00 178	10.18 259	1.75 45	72.0 32.7
6 150	6.625 168.3	75	26.25 667	28.00 711	8.13 207	11.00 279	1.75 45	90.0 40.8
8 200	8.625 219.1	75	28.50 724	30.25 768	10.38 264	14.00 356	1.75 45	150.0 68.0
10 250	10.750 273.0	77	32.50 826	34.25 870	13.50 343	16.75 426	1.75 45	320.0 145.2
12 300	12.750 323.9	77	32.50 826	34.25 870	15.50 394	19.00 483	1.75 45	373.0 169.2

† Contact Victaulic for performance requirements not listed above.

§ Dimensions may vary slightly due to tolerances.

For Performance Data refer to 06.05 for Style 75 and 06.04 for Style 77.

NOTE: 14 – 24"/350 – 600 mm sizes available in the Advanced Grooved System. Contact Victaulic for details.

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SPECIAL LENGTH EXPANSION ABSORBERS

Nominal Sizes	Nominal Inches mm		
	1 – 3 ½ 25 – 90	4 – 6 100 – 150	8 – 12 200 – 300
Total movement increased or decreased in increments of	0.19 4.9	0.25 6.4	0.25 6.4
Length per increment compressed	2.25 57.2	2.38 60.5	2.75 69.9
Length per increment expanded	2.44 62.0	2.63 66.8	3.00 76.2

NOTE: Available with greater or less movement by adding or eliminating coupling and nipple units.

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INSTALLATION

Reference should always be made to the I-100 Victaulic Field Installation Handbook for the product you are installing. Handbooks are included with each shipment of Victaulic products for complete installation and assembly data, and are available in PDF format on our website at www.victaulic.com.

WARRANTY

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

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.



WCAS-6S8QAB

For complete contact information, visit www.victaulic.com

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