

# Style 750 Reducing Coupling

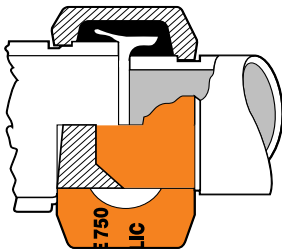
## PRODUCT DESCRIPTION



The Style 750 Reducing Coupling permits direct reduction on the piping run. Designed to replace two couplings and a reducing

fitting, the Style 750 features a special reducing gasket for pressure responsive sealing. A steel washer which prevents telescop-

ing of the smaller pipe inside the larger pipe during vertical systems assembly is available upon request.

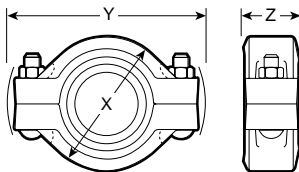


Exaggerated for clarity



See Victaulic publication 10.01 for details.

## DIMENSIONS



Nominal Size Inches mm	Max. Work Pres. PSI* kPa	Max. End Load Lbs.* N	Allow. Pipe End † Sep. In. mm	Deflect. Fr. C <sub>L</sub> †		@ Bolt/Nut No. - Size Inches	Dimensions Inches/millimeters			Aprx. Wgt. Each Lbs. kg
				Per Cplg. Deg.	Pipe In./Ft. mm/m		X	Y	Z	
2 X 1 50 X 25	350 2410	1000 4450	0 - 0.07 0 - 1.8	0° - 57'	0.20 17	2 - 3/8 X 2	3.38 85	5.25 133	1.88 48	2.0 0.9
X 1 1/2 X 40	350 2410	1000 4450	0 - 0.07 0 - 1.8	0° - 57'	0.20 17	2 - 3/8 X 2	3.38 85	5.25 133	1.88 48	2.0 1.0
2 1/2 X 2 65 X 50	350 2410	1550 6900	0 - 0.07 0 - 1.8	0° - 47'	0.16 14	2 - 3/8 X 2	4.13 105	6.00 152	1.88 48	2.9 1.4
76,1 mm X 2 X 50	350 2410	1550 6900	0 - 0.07 0 - 1.8	0° - 47'	0.16 14	2 - 3/8 X 2	4.13 105	6.00 152	1.88 48	4.6 2.1
3 X 2 80 X 50	350 2410	1550 6900	0 - 0.07 0 - 1.8	0° - 39'	0.13 11	2 - 1/2 X 2 3/4	4.75 121	7.13 181	1.88 48	4.6 2.1
X 2 1/2 X 65	350 2410	2275 10125	0 - 0.07 0 - 1.8	0° - 39'	0.13 11	2 - 1/2 X 2 3/4	4.75 121	7.13 181	1.88 48	4.1 1.9
X 76,1 mm	350 2410	2275 10125	0 - 0.07 0 - 1.8	0° - 39'	0.13 11	2 - 1/2 X 2 3/4	4.75 121	7.13 181	1.88 48	4.8 2.2
4 X 2 100 X 50	350 2410	1550 6900	0 - 0.13 0 - 3.2	1° - 19'	0.28 25	2 - 5/8 X 3 1/4	6.25 159	8.88 225	2.25 57	8.8 4.0
X 2 1/2 X 65	350 2410	2275 10125	0 - 0.13 0 - 3.2	1° - 19'	0.28 25	2 - 5/8 X 3 1/4	6.25 159	8.88 225	2.25 57	8.3 3.8
X 3 X 80	350 2410	3365 14975	0 - 0.13 0 - 3.2	1° - 19'	0.28 25	2 - 5/8 X 3 1/4	6.25 159	8.88 225	2.25 57	6.6 3.0
4 1/2 X 120 X 76,1 mm	350 2410	2275 10125	0 - 0.13 0 - 3.2	1° - 19'	0.28 25	2 - 5/8 X 3 1/4	6.25 159	8.88 225	2.25 57	6.4 3.8
5 X 4 125 X 100	350 2410	5565 24765	0 - 0.13 0 - 3.2	1° - 3'	0.22 19	2 - 3/4 X 4 1/4	7.13 181	10.63 270	2.13 54	10.8 4.9
6 X 4 150 X 100	350 2410	5565 24765	0 - 0.13 0 - 3.2	0° - 52'	0.18 15	2 - 3/4 X 4 1/4	8.63 181	11.88 302	2.25 57	16.1 7.3
X 5 X 125	350 2410	8500 37825	0 - 0.13 0 - 3.2	0° - 52'	0.18 15	2 - 3/4 X 4 1/4	8.50 216	11.88 302	2.25 57	12.6 5.7
165,1 mm X 4 X 100	350 2410	5565 24765	0 - 0.13 0 - 3.2	0° - 55'	0.19 16	2 - 3/4 X 4 1/4	8.50 216	11.38 289	2.25 57	15.2 6.9
8 X 6 200 X 150	350 2410	12000 53400	0 - 0.13 0 - 3.2	0° - 38'	0.13 11	2 - 7/8 X 5	10.75 273	14.75 375	2.50 64	22.3 10.1

Refer to notes on page 2.  
Style 750 Reducing couplings should not be used with end caps (#60) in systems where a vacuum may be developed.  
Contact Victaulic for details.

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## FLOW DATA

### Head Loss

The head loss across Style 750 Reducing coupling is very small and is essentially the same as for standard short body reducing pipe fittings.

Equivalent lengths of standard weight steel pipe are shown in the tables. All data is based on water flowing at ambient temperature.

### Flow Reducing

Nominal Size Inches mm	Equiv. Pipe Length Sm. Dia. Feet/m
2 X 1 50 X 25	5.9 1.8
X 1½ X 40	2.0 0.6
2½ X 2 65 X 50	1.9 0.6
3 X 2 80 X 50	5.5 1.7
X 2½ X 65	3.8 1.2
4 X 2 100 X 50	6.0 1.8
X 2½ X 65	6.0 1.8
X 3 X 80	6.0 1.8
5 X 4 125 X 100	3.0 0.9
6 X 4 150 X 100	6.0 1.8
X 5 X 125	4.5 1.4
165,1 mm X 4 X 100	6.0 1.8
8 X 6 200 X 150	7.3 2.2

### Flow Expanding

Nominal Size Inches mm	Equiv. Pipe Length Sm. Dia. Feet/m
1 X 2 25 X 50	2.7 0.8
1½ X 2 40 X 50	1.9 0.6
2 X 2½ 50 X 65	1.0 0.3
X 3 X 80	3.5 1.1
X 4 X 100	3.0 0.9
2½ X 3 65 X 80	2.5 0.8
X 4 X 100	3.0 0.9
3 X 4 80 X 100	2.5 0.8
4 X 5 100 X 125	3.3 1.0
X 6 X 150	4.6 1.4
X 165,1 mm X 165,1 mm	4.6 1.4
5 X 6 125 X 150	2.3 0.7
6 X 8 150 X 200	6.0 1.8

## MATERIAL SPECIFICATIONS

**Housing:** Ductile iron conforming to ASTM A-395, grade 65-45-15, and ASTM A-536, grade 65-45-12.

**Housing Coating:** Orange enamel

**Optional:**  
Hot dipped galvanized and others

**Gasket:** (Specify choice\*):

**Grade "E" EPDM**  
EPDM (Green color code). Temperature range -30°F to +230°F (-34°C to +110°C). Recommended for cold and 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.

**Optional:**  
**Assembly Washer:** Galvanized, carbon steel

**Bolts/Nuts:** Heat treated carbon steel, track-head, zinc plated to ASTM B-633 conforming to physical properties of ASTM A-183 minimum tensile 110,000 psi (758340 kPa).

### NOTES

\* Working Pressure and End Load are total, from all internal and external loads, based on standard weight (ANSI) steel pipe, standard **roll** or **cut** grooved in accordance with Victaulic specifications. Contact Victaulic for performance on other pipe. Maximum working pressure rating based on larger pipe size. Maximum End Load rating based on smaller pipe size.

WARNING: FOR ONE TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to 1½ times the figures shown.

† Allowable Pipe End Separation and Deflection figures show the maximum nominal range of movement available at each joint for standard **roll** grooved pipe. Figures for standard **cut** grooved pipe may be doubled. These figures are maximums; for design and installation purposes these figures should be reduced by: 50% for ¾ - 3½" (20 - 90 mm); 25% for 4" (100 mm) and larger.

@ Number of bolts required equals number of housing segments.

Metric thread size bolts are available (color coded gold) for all coupling sizes upon request. Contact Victaulic for details.

WARNING: Depressurize and drain the piping system before attempting to install, remove, or adjust any Victaulic piping products.

This product shall be manufactured by Victaulic Company. All products shall 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.