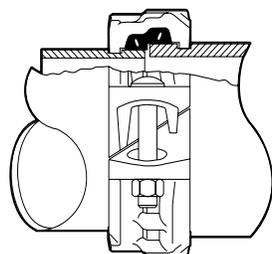


# Style 307 Transition Couplings

## PRODUCT DESCRIPTION



Patented



Exaggerated for clarity



See Victaulic publication 10.01 for details.

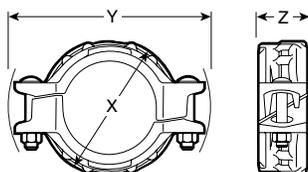
Victaulic Style 307 Transition couplings provide a direct, single coupling connection for grooved end IPS steel pipe, valves or fittings to grooved end AWWA ductile iron pipe, valves or fittings of the same nominal size. The housings will join cut or roll grooved IPS steel and rigid or flexible cut grooved AWWA iron or ductile iron.

The unique (patented) angle-pad design allows the housings to offset while clamping to the grooves. By permitting the housings to slide on the angled bolt pads, rigidity is obtained.

Style 307 housings also have assembly lugs by each bolt pad to aid proper positioning of AWWA-to-AWWA and IPS-to-IPS sides of the housing. These lugs **must** be on opposite sides for proper assembly.

Couplings are supplied with a FlushSeal® gasket (specify choice, grade M or S, on order), specifically compounded to conform to ductile pipe surfaces.

## DIMENSIONS



Pipe Size		Pipe Inches/mm		Max. Work. Press. PSI kPa	Max. End Load Lbs.* N	Fixed Pipe End Sep. † Inches mm	Bolt/Nut@ No. Size Inches	Dimensions Inches/millimeters			Approx. Weight Each Lbs. kg
Nominal Diameter In./mm	Actual Outside Dia. In./mm	Mating Pipe Actual Size						X	Y	Z	
		IPS Steel	AWWA Ductile								
3 80	3.960 100,6	3.500 88,9	3.96 100,6	500 3450	4810 21405	0.03 1	2 - 1/2 X 2 3/4	5.50 140	7.38 187	2.07 53	6.0 2,7
4 100	4.800 121,9	4.500 114,3	4.80 121,9	500 3450	7950 35377	0.06 2	2 - 1/2 X 3 1/4	6.38 162	9.00 229	2.19 56	8.0 3,6
6 150	6.900 175,3	6.625 168,3	6.90 175,3	400 2750	13780 61321	0.06 2	2 - 5/8 X 3 1/4	8.44 214	11.13 283	2.31 59	9.0 4,1
8 200	9.050 229,9	8.625 219,1	9.05 229,9	400 2750	23370 103997	0.03 1	2 - 3/4 X 5	11.00 279	13.88 353	2.63 67	18.0 8,2
10 250	11.100 281,9	10.750 273,0	11.10 281,9	350 2410	31760 141332	0.03 1	2 - 7/8 X 6 1/2	13.13 334	16.50 419	2.63 67	22.0 10,0
12 300	13.200 335,3	12.750 323,9	13.20 335,3	350 2410	44680 198826	0.03 1	2 - 7/8 X 6 1/2	15.38 391	18.94 481	2.63 67	31.0 14,1

Refer to notes below.

† For field installation only. Style 307 Transition couplings are essentially rigid and do not permit expansion/contraction.

### NOTES

\* Working Pressure and End Load are total, from all internal and external loads, based on AWWA class 53 ductile iron pipe radius cut grooved in accordance with ANSI/AWWA C-606 specifications and ANSI standard wall carbon steel pipe cut or roll grooved in accordance with Victaulic specifications. Contact Victaulic for performance on other pipe.

WARNING: FOR ONE TIME FIELD TEST ONLY, the Maximum Joint Working Pressure may be increased to 1 1/2 times the figures shown.

† For field installation only. Style 307 Transition couplings are essentially rigid and do not permit expansion/contraction.

@ 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.



## 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:** Couplings are orange enamel.

On request the following are available:

- **Alkyd-phenolic primer (1.5 mil)**
- **Coal tar epoxy coating (3 mils)**

**Optional:**

- Organic zinc primer (3 mils)
- Bituminous coating
- Hot dipped galvanized
- Others available; contact Victaulic

**Gasket:** (specify choice\*)

- **Grade “M” FlushSeal**

Halogenated butyl (Brown color code). Temperature range –20°F to +200°F (–29°C to 93°C). Specially compounded to conform to ductile pipe surfaces. Recommended for 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 (30°C) potable water service. NOT RECOMMENDED FOR PETROLEUM SERVICES.

- **Grade “S” FlushSeal**

Nitrile (Red color code). Temperature range –20°F to +180°F (–29°C to +82°C). Specially compounded to conform to ductile pipe surfaces Recommended for petroleum products, air with oil vapors, vegetable and mineral oils within the specified temperature range; except hot, dry air over +140°F (+60°C) and water over +150°F (+66°C). NOT RECOMMENDED FOR HOT WATER SERVICES.

\*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.