

# Outlet Coupling

## STYLE 72



SEE VICTAULIC PUBLICATION 10.01 FOR DETAILS

Style 72 Outlet couplings are designed to serve as a joining device providing an integral reducing outlet. The coupling housing and gasket are wider than standard grooved couplings, providing space for the outlet area. When used on other than standard grooved pipe, contact Victaulic for recommendations.

The outlet gasket is designed to seal on the joined pipe ends and in the neck of the outlet. A steel insert reinforces the neck opening.

Style 72 Outlet Couplings are supplied with female threaded outlet connections.

NOTE: Style 72 couplings are primarily intended for use when flow is out from the outlet. Flow into the outlet must not exceed 7 ft./sec (2.1 m/sec).

Style 72 Outlet couplings are not recommended for vacuum service.

NOTE: Style 72 Outlet couplings are designed for application to pipe and may require additional factory preparation for use with fittings. For installation onto fittings contact Victaulic.



FEMALE THREADED OUTLET

### 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.

**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.

**Gasket Neck Insert:** Carbon steel, electroplated.

**JOB OWNER**

System No. \_\_\_\_\_

Location \_\_\_\_\_

**CONTRACTOR**

Submitted By \_\_\_\_\_

Date \_\_\_\_\_

**ENGINEER**

Spec Sect \_\_\_\_\_ Para \_\_\_\_\_

Approved \_\_\_\_\_

Date \_\_\_\_\_

# Outlet Coupling

STYLE 72

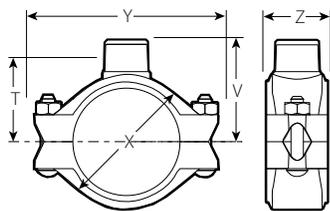


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## DIMENSIONS



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@, \*, † Refer to notes on page 4.

\*No. 60 Cap is not for use in vacuum services with Style 72 or 750 couplings. No. 61 Bull Plug should be used.

§ Center of run to end of fittings.

\*\* Center of run to the engaged pipe end. Female threaded outlet only (dimensions approximate).

Size		Max. Work Pressure * psi kPa	Allow. Pipe End Sep. † Inches mm	Bolt/Nut@ No - Size Inches	Dimensions - Inches/mm					Approx. Wgt. Each Lbs. kg
Run x Reducing Outlet Nominal Size Inches/mm					T **	V §	X	Y	Z	
1 1/2 40	1/2 x 15	500 3450	0.75 - 0.88 19 - 22	2 - 3/8 x 2	2.06 52	2.63 67	2.94 75	4.50 114	2.75 70	1.4 0.6
	3/4 x 20	500 3450	0.75 - 0.88 19 - 22	2 - 3/8 x 2	2.06 52	2.63 67	2.94 75	4.50 114	2.75 70	1.4 0.6
	1 x 25	500 3450	0.75 - 0.88 19 - 22	2 - 3/8 x 2	1.94 49	2.63 67	2.94 75	4.50 114	2.75 70	1.4 0.6
2 50	1/2 x 15	500 3450	0.81 - 0.88 20 - 22	2 - 3/8 x 2	2.47 63	3.03 77	3.38 86	5.00 127	2.75 70	3.5 1.6
	3/4 x 20	500 3450	0.81 - 0.88 20 - 22	2 - 3/8 x 2	2.47 63	3.03 77	3.38 86	5.00 127	2.75 70	2.5 1.1
	1 x 25	500 3450	0.81 - 0.88 20 - 22	2 - 3/8 x 2	2.34 60	3.03 77	3.38 86	5.00 127	2.75 70	2.5 1.1
2 1/2 65	1/2 x 15	500 3450	0.81 - 0.88 20 - 22	2 - 1/2 x 2 3/4	2.56 65	3.13 79	3.88 98	6.00 152	2.75 70	4.5 2.0
	3/4 x 20	500 3450	0.81 - 0.88 20 - 22	2 - 1/2 x 2 3/4	2.56 65	3.13 79	3.88 98	6.00 152	2.75 70	4.6 2.1
	1 x 25	500 3450	0.81 - 0.88 20 - 22	2 - 1/2 x 2 3/4	2.44 62	3.13 79	3.88 98	6.00 152	2.75 70	4.6 2.1
3 80	1 1/4 x 32	500 3450	1.25 - 1.50 32 - 38	2 - 5/8 x 3 1/4	3.00 76	3.69 94	4.06 103	6.88 175	3.25 83	5.0 2.3
	1 1/2 x 40	500 3450	1.25 - 1.50 32 - 38	2 - 5/8 x 3 1/4	—	3.69 94	4.06 103	6.88 175	3.25 83	5.0 2.3
	3/4 x 20	500 3450	0.50 - 0.63 13 - 16	2 - 1/2 x 2 1/2	2.75 70	3.31 84	4.50 114	7.00 178	2.38 60	3.4 1.5
4 100	1 x 25	500 3450	1.25 - 1.50 32 - 38	2 - 5/8 x 3 1/4	4.06 103	4.75 121	4.75 121	8.00 203	3.25 83	7.0 3.2
	1 1/4 x 32	500 3450	1.25 - 1.50 32 - 38	2 - 5/8 x 3 1/4	4.06 103	4.75 121	4.75 121	8.00 203	3.25 83	7.0 3.2
	1 1/2 x 40	500 3450	1.25 - 1.50 32 - 38	2 - 5/8 x 3 1/4	—	4.25 108	4.75 121	8.00 203	3.25 83	7.0 3.2
6 150	3/4 x 20	500 3450	0.44 - 0.63 11 - 16	2 - 1/2 x 2 1/2	3.25 83	3.81 97	5.69 145	8.38 213	2.50 64	6.8 3.1
	1 x 25	500 3450	0.44 - 0.63 11 - 16	2 - 1/2 x 2 1/2	—	3.81 97	5.69 145	8.38 213	2.50 64	6.8 3.1
	1 1/2 x 40	400 2750	1.63 - 1.81 41 - 46	2 - 5/8 x 3 1/4	3.91 99	4.59 117	6.13 156	9.00 229	3.69 94	11.4 5.2
6 150	2 x 50	400 2750	1.63 - 1.81 41 - 46	2 - 5/8 x 3 1/4	—	4.59 117	6.13 156	9.00 229	3.69 94	11.4 5.2
	1 x 25	400 2750	1.63 - 1.81 41 - 46	2 - 3/4 x 4 1/4	6.19 157	6.88 175	8.13 206	12.00 305	3.69 94	18.0 8.2
	1 1/2 x 40	400 2750	1.63 - 1.81 41 - 46	2 - 3/4 x 4 1/4	6.19 157	6.88 175	8.13 206	12.00 305	3.69 94	18.0 8.2
6 150	2 x 50	400 2750	1.63 - 1.81 41 - 46	2 - 3/4 x 4 1/4	—	6.06 154	8.13 206	12.00 305	3.69 94	18.0 8.2

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## PERFORMANCE

$C_v/K_v$  values for flow of water at +60°F/+16°C are shown in the table below.

**Formulas for  $C_v/K_v$  values:**

$$\Delta P = \frac{Q^2}{C_v^2}$$

$$Q = C_v \times \sqrt{\Delta P}$$

**Where:**

Q = Flow (GPM)

$\Delta P$  = Pressure Drop (psi)

$C_v$  = Flow Coefficient

$$\Delta P = \frac{Q^2}{K_v}$$

$$Q = K_v \times \sqrt{\Delta P}$$

**Where:**

Q = Flow (m<sup>3</sup>/h)

$\Delta P$  = Pressure Drop (bar)

$K_v$  = Flow Coefficient

OUTLET SIZE	Equivalent Length of 1 in. Schedule 40 Steel Pipe (per UL 213, SECTION 16)	$C_v/K_v$
NOMINAL DIAMETER In/mm	(C=120) <sup>t</sup> , FT	Values
½ 15	-	5 4.3
¾ 20	-	15 13.0
1 25	7.0	22 19.1
1¼ 32	9.0	40 34.6
1½ 40	11.0	53 45.6
2 50	26.0	66 56.6

<sup>t</sup> Hazen-Williams coefficient of friction is 120.

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## GENERAL 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.  
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 figures show the maximum nominal range of movement available at each joint for standard roll and cut grooved pipe. These figures are maximums; for design and installation purposes the available movement (max. sep. – min. sep.) should be reduced by: 50% for ¾ – 3½"/20 – 90mm; 25% for 4"/100mm 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.

## 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.