

Victaulic® Outlet Coupling

Style 72



1.0 PRODUCT DESCRIPTION

Available Sizes

- 1 ½ × ½"/DN40 × DN15 through 6 × 2"/DN150 × DN50

Pipe Material

- Carbon Steel
- For exceptions, reference section [6.0 Notifications](#)

Maximum Working Pressure

- Accommodates pressures up to 500 psi/3450 kPa/34 bar
- Working pressure dependent on material and size of pipe

Operating Temperature

- Dependent on gasket selection from section [3.0 Specifications – Material](#)

Application

- This product provides a reduced-size outlet in place of a reducing tee.

Available Branch End Configurations

- Female Threaded NPT
- Female Threaded ISO 7-Rc (BSPT)

NOTES

- Style 72 Outlet Couplings are primarily intended for flow that goes out through the outlet. Flow that goes into the outlet must not exceed 7 ft/sec (2.1 m/sec).
- Not recommended for use with stainless steel pipe
- Not designed for use on vacuum service
- End caps MUST NOT be installed in Style 72 Outlet Coupling runs in systems where vacuums may develop.
- The Style 72 Gasket contains a plated neck insert to aid sealing. DO NOT remove this neck insert.

2.0 CERTIFICATIONS/LISTINGS



EN 10311
CPR (EU)
No. 305/2011



BS EN 10311
CPR (UK)
2019 No. 465

NOTES

- See [Publication 10.01](#) for Fire Protection Certifications/Listings Reference Guide.
- See [Publication 02.06](#): Victaulic Potable Water Approvals ANSI/NSF for potable water approvals if applicable.

ALWAYS REFER TO ANY NOTIFICATIONS AT THE END OF THIS DOCUMENT REGARDING PRODUCT INSTALLATION, MAINTENANCE OR SUPPORT.

3.0 SPECIFICATIONS – MATERIAL

Housing: Ductile Iron conforming to ASTM A536, Grade 65-45-12. Ductile Iron conforming to ASTM A395, Grade 65-45-15, is available upon special request.

Housing Coating: (specify choice)

Standard: Orange Enamel

Optional: Hot Dipped Galvanized

Optional: Contact Victaulic with your requirements.

Gasket: (specify choice¹)

Grade “E” EPDM

EPDM (Green stripe color code). Temperature range –30°F to +230°F/–34°C to +110°C. May be specified 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 +73°F/+23°C and hot +180°F/+82°C potable water service and ANSI/NSF 372. NOT COMPATIBLE FOR USE WITH PETROLEUM SERVICES OR STEAM SERVICES.

Grade “T” Nitrile

Nitrile (Orange stripe color code). Temperature range –20°F to +180°F/–29°C to +82°C. May be specified for petroleum products, hydrocarbons, air with oil vapors, vegetable and mineral oils within the specified temperature range. Not compatible for hot water services over +150°F/+66°C or for hot dry air over +140°F/+60°C. NOT COMPATIBLE FOR USE WITH HOT WATER SERVICES OR STEAM SERVICES.

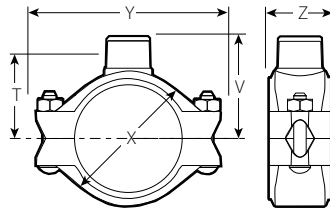
¹ Services listed are General Service Guidelines only. It should be noted that there are services for which these gaskets are not compatible. Reference should always be made to [Publication 05.01: Victaulic Seal Selection Guide](#) for specific gasket service guidelines and for a listing of services which are not compatible.

Bolts/Nuts: Carbon steel oval neck track bolts meeting the mechanical property requirements of ASTM A449. Carbon steel heavy hex nuts meeting the mechanical property requirements of ASTM A563 Grade B. Track bolts and heavy hex nuts are zinc electroplated per ASTM B633 ZN/FE5, finish Type III (imperial).

Gasket Neck Insert: Carbon Steel, Electroplated

4.0 DIMENSIONS

Style 72 Outlet Coupling



Female Threaded Outlet

Size				Allowable Pipe End Separation ²	Bolt/ Nut ³		Dimensions					Weight	
Nominal inches DN		Actual Outside Diameter inches mm			Qty.	Size inches	X inches mm	Y inches mm	Z inches mm	T ⁴ inches mm	V ⁵ inches mm	Approx. (Each) lb kg	
1 1/2 DN40	x	1.900 48.3	x	0.840 21.3	0.75 – 0.88 19 – 22	2	3/8 x 2	2.94	4.50	2.75	2.06	2.63	1.4
								75	114	70	52	67	0.6
								2.94	4.50	2.75	2.06	2.63	1.4
DN20		26.9		1.050	0.75 – 0.88 19 – 22	2	3/8 x 2	2.94	4.50	2.75	2.06	2.63	1.4
								75	114	70	52	67	0.6
								1.315	0.75 – 0.88 19 – 22	2	3/8 x 2	2.94	4.50
DN25		33.7		1.315	0.75 – 0.88 19 – 22	2	3/8 x 2	2.94	4.50	2.75	1.94	2.63	1.4
								75	114	70	49	67	0.6
								2.375	0.81 – 0.88 20 – 22	2	3/8 x 2	3.38	5.00
2	x	2.375 60.3	x	0.840 21.3	0.81 – 0.88 20 – 22	2	3/8 x 2	3.38	5.00	2.75	2.50	3.03	3.5
								86	127	70	64	77	1.6
								1.050	0.81 – 0.88 20 – 22	2	3/8 x 2	3.38	5.00
DN20		26.9		1.050	0.81 – 0.88 20 – 22	2	3/8 x 2	3.38	5.00	2.75	2.50	3.03	2.5
								86	127	70	64	77	1.1
								1.315	0.81 – 0.88 20 – 22	2	3/8 x 2	3.38	5.00
DN25		33.7		1.315	0.81 – 0.88 20 – 22	2	3/8 x 2	3.38	5.00	2.75	2.38	3.03	2.5
								86	127	70	60	77	1.1
								2.875	0.840 21.3	2	1/2 x 2 3/4	3.88	6.00
2 1/2	x	2.875 73.0	x	0.840 21.3	0.81 – 0.88 20 – 22	2	1/2 x 2 3/4	3.88	6.00	2.75	2.56	3.13	4.5
								98	152	70	65	79	2.0
								1.050	0.81 – 0.88 20 – 22	2	1/2 x 2 3/4	3.88	6.00
DN20		26.9		1.050	0.81 – 0.88 20 – 22	2	1/2 x 2 3/4	3.88	6.00	2.75	2.56	3.13	4.6
								98	152	70	65	79	2.1
								1.315	0.81 – 0.88 20 – 22	2	1/2 x 2 3/4	3.88	6.00
DN25		33.7		1.315	0.81 – 0.88 20 – 22	2	1/2 x 2 3/4	3.88	6.00	2.75	2.44	3.13	4.6
								98	152	70	62	79	2.1
								1.660	1.25 – 1.50 32 – 38	2	5/8 x 3 1/4	4.13	6.88
DN32		42.4		1.660	1.25 – 1.50 32 – 38	2	5/8 x 3 1/4	4.13	6.88	3.25	3.00	3.75	5.0
								105	175	83	76	95	2.3
								1.900	1.25 – 1.50 32 – 38	2	5/8 x 3 1/4	4.13	6.88
DN40		48.3		1.900	1.25 – 1.50 32 – 38	2	5/8 x 3 1/4	4.13	6.88	3.25	3.00	3.75	5.0
								105	175	83	76	95	2.3
								3.500	0.50 – 0.63 13 – 16	2	1/2 x 2 3/4	4.50	7.00
3	x	3.500 88.9	x	1.050 26.9	0.50 – 0.63 13 – 16	2	1/2 x 2 3/4	4.50	7.00	2.38	2.75	3.31	3.4
								114	178	60	70	84	1.5
								1.315	1.25 – 1.50 32 – 38	2	5/8 x 3 1/4	4.75	8.00
DN25		33.7		1.315	1.25 – 1.50 32 – 38	2	5/8 x 3 1/4	4.75	8.00	3.25	3.63	4.25	7.0
								121	203	83	92	108	3.2
								1.660	1.25 – 1.50 32 – 38	2	5/8 x 3 1/4	4.75	8.00
DN32		42.4		1.660	1.25 – 1.50 32 – 38	2	5/8 x 3 1/4	4.75	8.00	3.25	3.50	4.25	7.0
								121	203	83	89	108	3.2
								1.900	1.25 – 1.50 32 – 38	2	5/8 x 3 1/4	4.75	8.00
DN40		48.3		1.900	1.25 – 1.50 32 – 38	2	5/8 x 3 1/4	4.75	8.00	3.25	3.50	4.25	7.0
								121	203	83	89	108	3.2

² Allowable Pipe End Separation 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 3/4 – 3 1/2"/20 – 90 mm or 25% for 4"/100 mm and larger.

³ Number of bolts required equals number of housing segments.

⁴ Center of run to the engaged pipe end. Female threaded outlet only (dimensions are approximate).

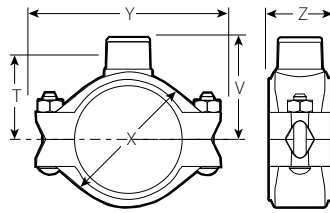
⁵ Center of run to end of fittings.

NOTES

- Metric thread size bolts are available (color-coded gold) for all coupling sizes upon request. Contact Victaulic for details.
- NPT or BSPT threaded outlets available.

4.0 DIMENSIONS (CONTINUED)

Style 72 Outlet Coupling



Female Threaded Outlet

Size		Allowable Pipe End Separation ²	Bolt/ Nut ³		Dimensions					Weight Approx. (Each)		
Nominal inches DN	Actual Outside Diameter inches mm		Qty.	Size inches	X inches mm	Y inches mm	Z inches mm	T ⁴ inches mm	V ⁵ inches mm			
4 DN100	× ¾ DN20	4.500 114.3	× 1.050 26.9	0.44 – 0.63 11 – 16	2	½ × 2 ¾	5.69 145	8.38 213	2.50 64	3.25 83	3.88 98	6.8 3.1
	1 DN25		1.315 33.7	0.44 – 0.63 11 – 16	2	½ × 2 ¾	5.69 145	8.38 213	2.50 64	3.25 83	3.88 98	11.4 5.2
	1½ DN40		1.900 48.3	1.63 – 1.81 41 – 46	2	⅝ × 3 ¼	6.13 156	9.00 229	3.75 95	3.91 99	4.63 117	11.4 5.2
	2 DN50		2.375 60.3	1.63 – 1.81 41 – 46	2	⅝ × 3 ¼	6.13 156	9.00 229	3.75 95	3.91 99	4.63 117	18.0 8.2
	6 DN150		6.625 168.3	1.315 33.7	1.63 – 1.81 41 – 46	2	¾ × 4 ¼	8.13 206	12.00 305	3.69 94	5.38 137	6.00 152
	1½ DN40		1.900 48.3	1.63 – 1.81 41 – 46	2	¾ × 4 ¼	8.13 206	12.00 305	3.69 94	5.38 137	6.00 152	18.0 8.2
	2 DN50		2.375 60.3	1.63 – 1.81 41 – 46	2	¾ × 4 ¼	8.13 206	12.00 305	3.69 94	5.25 133	6.00 152	18.0 8.2

² Allowable Pipe End Separation 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 or 25% for 4/100 mm and larger.

³ Number of bolts required equals number of housing segments.

⁴ Center of run to the engaged pipe end. Female threaded outlet only (dimensions are approximate).

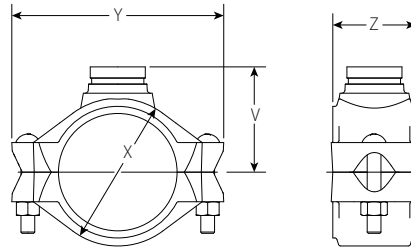
⁵ Center of run to end of fittings.

NOTES

- Metric thread size bolts are available (color-coded gold) for all coupling sizes upon request. Contact Victaulic for details.
- NPT or BSPT threaded outlets available.

4.1 DIMENSIONS

Style 72 Outlet Coupling



Grooved Outlet

Size			Allowable Pipe End Separation ² inches mm	Bolt/ Nut ³		Dimensions					Weight			
Nominal inches DN	×	Actual Outside Diameter inches mm		Qty.	Size inches	X inches mm	Y inches mm	Z inches mm	T ⁴ inches mm	V ⁵ inches mm	Approx. (Each) lb kg			
4 DN100	×	2 DN50	4.500 114.3	×	2.375 60.3	1.63 – 1.81 41 – 46	2	5/8 × 3/4	6.13 156	9.00 229	3.75 95	–	4.50 114	18.0 8.2
6 DN150	×	DN65	6.625 168.3	×	3.000 76.1	1.63 – 1.81 41 – 46	2	3/4 × 4 1/4	8.13 206	11.50 292	4.50 114	–	5.75 146	18.0 8.2

² Allowable Pipe End Separation 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 3/4 – 3 1/2"/20 – 90 mm or 25% for 4"/100 mm and larger.

³ Number of bolts required equals number of housing segments.

⁴ Center of run to the engaged pipe end. Female threaded outlet only (dimensions are approximate).

⁵ Center of run to end of fittings.

NOTES

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

5.0 PERFORMANCE

Style 72 Outlet Coupling

Size				Maximum Working Pressure ⁶	Maximum Permissible End Load			
Run x Reducing Outlet					Run	Reducing Outlet		
Nominal inches DN		Actual Outside Diameter inches mm			lbs N	lbs N		
1½ DN40	x	½ DN15	1.900 48.3	x	0.840 21.3	500 3447	1418 6307	277 1232
					1.050 26.9	500 3447	1418 6307	433 1926
					1.315 33.7	500 3447	1418 6307	679 3020
					1.050 26.9	500 3447	2215 9852	433 1926
					1.315 33.7	500 3447	2215 9852	679 3020
2 DN50	x	½ DN15	2.375 60.3	x	0.840 21.3	500 3447	2215 9852	277 1232
					1.050 26.9	500 3447	2215 9852	433 1926
					1.315 33.7	500 3447	2215 9852	679 3020
					1.050 26.9	500 3447	2215 9852	433 1926
					1.315 33.7	500 3447	2215 9852	679 3020
2½	x	½ DN15	2.875 73.0	x	0.840 21.3	500 3447	3246 14438	277 1232
					1.050 26.9	500 3447	3246 14438	433 1926
					1.315 33.7	500 3447	3246 14438	679 3020
					1.660 42.4	500 3447	3246 14438	1082 4813
					1.900 48.3	500 3447	3246 14438	1418 6308
					1.050 26.9	500 3447	4811 21399	433 1926
					1.315 33.7	500 3447	4811 21399	679 3020
3 DN80	x	¾ DN20	3.500 88.9	x	1.050 26.9	500 3447	4811 21399	433 1926
					1.315 33.7	500 3447	4811 21399	679 3020
					1.660 42.4	500 3447	4811 21399	1082 4813
					1.900 48.3	500 3447	4811 21399	1418 6308
					1.050 26.9	500 3447	4811 21399	433 1926
4 DN100	x	¾ DN20	4.500 114.3	x	1.050 26.9	500 3447	7952 35370	433 1926
					1.315 33.7	500 3447	7952 35370	679 3020
					1.900 48.3	400 2758	6362 28298	1134 5044
					2.375 60.3	400 2758	6362 28298	1772 7882
					1.050 26.9	500 3447	7952 35370	433 1926
					1.315 33.7	500 3447	7952 35370	679 3020
6 DN150	x	1 DN25	6.625 168.3	x	1.315 33.7	400 2758	13789 61333	543 2415
					1.900 48.3	400 2758	13789 61333	1134 5044
					2.375 60.3	400 2758	13789 61333	1772 7882
					3.000 76.1	400 2758	13789 61333	2828 12580
					1.315 33.7	400 2758	13789 61333	543 2415

⁶ 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.

NOTE

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

5.1 PERFORMANCE

Style 72 Outlet Coupling

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)
 ΔP = Pressure Drop (psi)
 C_v = Flow Coefficient

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

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

Where:

Q = Flow (m³/hr)
 ΔP = Pressure Drop (Bar)
 K_v = Flow Coefficient

Outlet Size inches DN	Equivalent Length of 1 inch Schedule 40 Steel Pipe (per UL 213) (C=120) ⁷ FT		C _v K _v	
	Grooved	Threaded	Grooved	Threaded
½ DN15	–	–	–	5.0 4.3
¾ DN20	–	–	–	15.0 13.0
1 DN25	–	7.0	–	22.0 19.0
1¼ DN32	–	9.0	–	40.0 34.6
1½ DN40	–	11.0	–	53.0 45.8
2 DN50	9.0	26.0	112.0 96.9	66.0 57.1
DN65	16.0	–	161.0 139.3	–

⁷ Hazen-Williams coefficient of friction is 120.

6.0 NOTIFICATIONS

⚠ WARNING



- Read and understand all instructions before attempting to install any Victaulic products.
- Always verify that the piping system has been completely depressurized and drained immediately prior to installation, removal, adjustment, or maintenance of any Victaulic products.
- Confirm that any equipment, branch lines, or sections of piping that may have been isolated for/during testing or due to valve closures/positioning are identified, depressurized, and drained immediately prior to installation, removal, adjustment, or maintenance of any Victaulic products.
- Wear safety glasses, hardhat, foot protection, and hearing protection.

Failure to follow these instructions could result in death or serious personal injury and property damage.

7.0 REFERENCE MATERIALS

[02.06: Victaulic Potable Water Approvals ANSI/NSF](#)

[05.01: Victaulic Seal Selection Guide](#)

[06.08: Victaulic Reducing Coupling Style 750](#)

[10.01: Victaulic Products for Fire Protection Piping Systems - Regulatory Approval Reference Guide](#)

[I-100: Victaulic Field Installation Handbook](#)

[I-ENDCAP: Victaulic End Cap Installation Safety Instructions](#)

User Responsibility for Product Selection and Suitability

Each user bears final responsibility for determining the suitability of Victaulic products for their end-use application, in accordance with industry standards, project specifications, and Victaulic's published performance, maintenance, and safety data, as well as all warnings and installation instructions. Nothing in this or any other document, nor any verbal recommendation, advice, or opinion from any Victaulic employee, shall be deemed to alter, vary, supersede, or waive any provision of Victaulic Company's standard conditions of sale, warranty, installation instructions, or this disclaimer.

Installation

Always refer to and follow the [Victaulic Installation Handbook](#) or installation instructions for the product you are installing. Handbooks are included with each shipment of Victaulic products, providing complete installation and assembly data, and are available in PDF format on our website at [victaulic.com](#).

Warranty

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

Intellectual Property Rights

No statement concerning the use of any material, product, service, or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Victaulic or any of its affiliates, or as a recommendation for the use of such material, product, service, or design in the infringement of any patent or other intellectual property right. The terms "Patented" or "Patent Pending" refer to design or utility patents or patent applications for articles and/or methods of use in the United States and/or other countries. Victaulic and all other Victaulic marks are the trademarks or registered trademarks of Victaulic Company, and/or its affiliated entities, in the U.S. and/or other countries.

Note

All products bearing a Victaulic trademark are manufactured by Victaulic or to Victaulic specifications. All products are to be installed only in accordance with the applicable Victaulic installation instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.