

Style 44 Vic-Ring® Coupling

PRODUCT DESCRIPTION

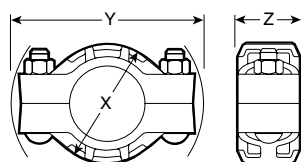


Style 44 couplings are designed with cross-ribbed construction to provide a strong component for use on steel pipe with applied Vic-Ring adapters. Many sizes may be used on pipe with cast shoulders.

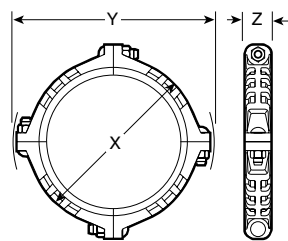
Style 44 sizes 4 - 12" (100 - 300 mm) are cast in two segments; 14 - 20" (350 - 500 mm) sizes in four segments; 24 - 36" (600 - 900 mm) sizes in six segments; 42 - 54" (1050 - 1375 mm) sizes in eight segments; and 60" (1500 mm) in 10 segments, to assure concentricity and ease of handling.

Style 44 couplings are supplied with "E" or "T" gaskets. FlushSeal® gaskets are available upon request. All sizes are supplied painted with alkyd phenolic primer and with plated nuts and bolts.

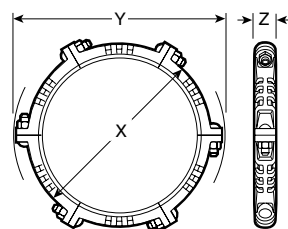
DIMENSIONS



4 - 12" sizes



14 - 20" sizes



24 - 36" sizes

Pipe Size		Coupling Dimensions Inches/millimeters			Bolt Dimensions Inches/millimeters		Approx. Weight Ea. Lbs. kg
Nominal Diameter Inches/mm	Actual Outside Diameter Inches/mm	Height X	Width Y	Depth Z	No.	Diameter X Length	
4 100	4.500 114,3	7.00 178	9.65 245	2.25 57	2	⁵ / ₈ X 4	8.0 3,6
6 150	6.625 168,3	9.25 235	12.05 306	2.38 60	2	⁵ / ₈ X 4	11.0 5,0
8 200	8.625 219,1	12.00 305	15.00 381	2.63 67	2	³ / ₄ X 5	17.0 7,7
10 250	10.750 273,0	14.25 362	17.75 450	2.88 73	2	³ / ₄ X 5	23.0 10,4
12 300	12.750 323,9	16.75 425	20.03 509	3.00 76	2	⁷ / ₈ X 5 ¹ / ₂	31.0 14,1
14 350	14.000 355,6	18.88 480	22.75 578	3.63 92	4	1 X 3 ¹ / ₂	43.0 19,5
16 400	16.000 406,4	21.13 538	25.68 652	3.63 92	4	1 X 3 ¹ / ₂	63.0 28,6
18 450	18.000 457,0	24.63 626	28.25 717	3.75 95	4	1 X 3 ¹ / ₂	85.0 38,6
20 500	20.000 508,0	26.25 668	30.88 784	3.75 95	4	1 ¹ / ₄ X 5 ¹ / ₂	90.0 40,8
24 600	24.000 610,0	30.25 768	35.00 889	3.75 95	6	1 ¹ / ₄ X 3 ¹ / ₂	107.0 48,5
30 750	30.000 762,0	37.75 959	43.21 1098	5.38 137	6	1 ¹ / ₂ X 5 ³ / ₄	225.0 102,1
36 900	36.000 914,0	44.38 1127	50.00 1270	5.38 137	6	1 ¹ / ₂ X 5 ³ / ₄	270.0 122,5
42 1050	42.000 1067,0	50.75 1289	57.50 1461	5.38 137	8	1 ³ / ₄ X 6	380.0 172,4
48 1200	48.000 1219,2	57.75 1467	63.00 1600	5.50 140	16	1 ³ / ₈ X 5 ³ / ₄	515.0 233,6
54 1375	54.000 1371,6	64.63 1642	70.50 1791	5.63 143	16	1 ¹ / ₂ X 5 ³ / ₄	615.0 279,0
60 1500	60.000 1524,0	71.38 1813	77.00 1956	5.75 146	20	1 ¹ / ₂ X 5 ³ / ₄	688.0 312,1

PERFORMANCE

1		2	3	4	5	6	7	8	9
Pipe Size		Cast Shoulder O.D. In./mm	Applied Vic-Ring Adapter O.D. In./mm	Max. Joint Working Press. † PSI/kPa	Maximum Permiss. End Load Lbf/N	§ ‡ Pipe End Sep. Min.-Max. In./mm	§ ‡ Max. Allow. Pipe End Mvmt. In./mm	§ ‡ Max. Deflection from Center Line	
Nom. Dia. In./mm	Actual Outside Dia. In./mm							Degrees per Coupling	In./Ft. of Pipe mm/m of Pipe
4 100	4.500 114,3	5.312 134,9	5.312 134,9	175 1206	3860 17170	0 - 3/16 0 - 4,8	3/16 4,8	2° 2'	0.42 35,0
6 150	6.625 168,3	7.500 190,5	7.500 190,5	175 1206	7700 34250	0 - 3/16 0 - 4,8	3/16 4,8	1° 26'	0.30 25,0
8 200	8.625 219,1	9.750 247,6	9.750 247,6	175 1206	13000 57800	0 - 3/16 0 - 4,8	3/16 4,8	1° 6'	0.23 19,2
10 250	10.750 273,0	12.000 304,8	12.000 304,8	175 1206	19700 87600	0 - 1/4 0 - 6,4	1/4 6,4	1° 12'	0.25 20,8
12 300	12.750 323,9	14.250 361,9	14.250 361,9	175 1206	27900 124100	0 - 1/4 0 - 6,4	1/4 6,4	1° 0'	0.21 17,5
14 350	14.000 355,6	16.437 417,5	16.437 417,5	175 1206	37100 165000	0 - 1/4 0 - 6,4	1/4 6,4	0° 52'	0.18 15,0
16 400	16.000 406,4	18.500 469,9	18.500 469,9	175 1206	47000 209050	0 - 3/8 0 - 9,7	3/8 9,7	1° 10'	0.24 20,0
18 450	18.000 457,0	20.937 531,8	20.937 531,8	175 1206	60200 267750	0 - 1/4 0 - 6,4	1/4 6,4	0° 43'	0.15 12,5
20 500	20.000 508,0	22.875 581,0	22.875 581,0	175 1206	71900 319800	0 - 3/8 0 - 9,7	3/8 9,7	0° 56'	0.20 16,7
24 600	24.000 610,0	27.125 689,0	27.125 689,0	175 1206	101100 449700	0 - 3/8 0 - 9,7	3/8 9,7	0° 48'	0.16 13,3
30 750	30.000 762,0	33.750 857,2	33.750 857,2	175 1206	156600 696600	0 - 1/2 0 - 12,7	1/2 12,7	0° 51'	0.18 15,0
36 900	36.000 914,0	40.187 1020,7	40.187 1020,7	175 1206	221950 987250	0 - 1/2 0 - 12,7	1/2 12,7	0° 43'	0.15 12,5
42 1050	42.000 1067,0	46.625 1184,3	46.625 1184,3	175 1206	298750 1328900	0 - 1/2 0 - 12,7	1/2 12,7	0° 37'	0.12 10,0
48 1200	48.000 1219,2	53.125 1349,4	53.125 1349,4	175 1206	388000 1725900	0 - 1/2 0 - 12,7	1/2 12,7	0° 32'	0.11 9,2
54 1375	54.000 1371,6	59.687 1516,0	59.687 1516,0	175 1206	489600 2177850	0 - 1/2 0 - 12,7	1/2 12,7	0° 29'	0.10 8,3
60 1500	60.000 1524,0	66.187 1681,1	66.187 1681,1	175 1206	602100 2678250	0 - 1/2 0 - 12,7	1/2 12,7	0° 26'	0.09 7,5

COLUMN 1 - Victaulic couplings are identified by nominal pipe size.

COLUMN 2 - Nominal cast shoulder diameter on pipe of AWWA diameter (as per Fed. Spec. WW-P 421b and ASA A21.6 and A21.8).

COLUMN 3 - Nominal Vic-Ring adapter outside diameter.

COLUMN 4 - Maximum line pressure, including surge, to which the joint may be subjected, depending upon steel pipe wall thickness and properly applied Vic-Ring adapter.

COLUMN 5 - Maximum end load from all internal and/or external forces to which the joint should be subjected under working conditions.

COLUMN 6 - Range of pipe end separation normally available with above couplings.

COLUMN 7 - Maximum linear movement available at joints made with the above couplings, subject to tolerances (Request 26.01). Movement is the difference between minimum and maximum pipe end separation (Request 26.01 and refer to Linear Movement Tolerance on page 2).

COLUMNS 8 & 9 - Maximum allowable deflection of pipe from centerline, subject to tolerances (Request 26.01 and refer to Angular Movement Tolerance on page 2).

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

§ Maximum Pipe will be reduced by Deflection and vice versa.

‡ Refer to Design Data for information on tolerances and pipe gap settings.

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: Alkyd phenolic primer

- **Optional:** Hot dipped galvanized and others

Coupling 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.

- **Optional:** Type 316 stainless steel, Grade B-8M, Class 2.