

Style 44 Vic-Ring® Coupling

PRODUCT DESCRIPTION



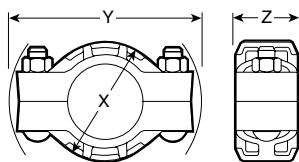
Style 44 couplings are designed with cross-ribbed construction to provide a strong component for use on steel pipe with applied Vic-Ring adapters. Many sizes may be used on pipe with cast shoulders.

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.

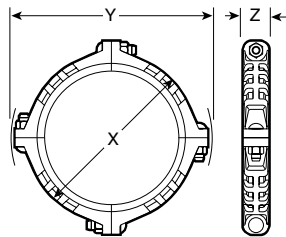
Style 44 couplings are supplied with "E" or "T" gaskets. FlushSeal® gaskets are available upon request.

All sizes are supplied painted with alkyd phenolic primer and with plated nuts and bolts.

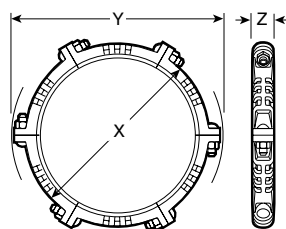
DIMENSIONS



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	4.500	5.312	5.312	175	3860	0 - 3/16	3/16	2° 2'	0.42	
100	114,3	134,9	134,9	1206	17170	0 - 4,8	4,8		35,0	
6	6.625	7.500	7.500	175	7700	0 - 3/16	3/16	1° 26'	0.30	
150	168,3	190,5	190,5	1206	34250	0 - 4,8	4,8		25,0	
8	8.625	9.750	9.750	175	13000	0 - 3/16	3/16	1° 6'	0.23	
200	219,1	247,6	247,6	1206	57800	0 - 4,8	4,8		19,2	
10	10.750	12.000	12.000	175	19700	0 - 1/4	1/4	1° 12'	0.25	
250	273,0	304,8	304,8	1206	87600	0 - 6,4	6,4		20,8	
12	12.750	14.250	14.250	175	27900	0 - 1/4	1/4	1° 0'	0.21	
300	323,9	361,9	361,9	1206	124100	0 - 6,4	6,4		17,5	
14	14.000	16.437	16.437	175	37100	0 - 1/4	1/4	0° 52'	0.18	
350	355,6	417,5	417,5	1206	165000	0 - 6,4	6,4		15,0	
16	16.000	18.500	18.500	175	47000	0 - 3/8	3/8	1° 10'	0.24	
400	406,4	469,9	469,9	1206	209050	0 - 9,7	9,7		20,0	
18	18.000	20.937	20.937	175	60200	0 - 1/4	1/4	0° 43'	0.15	
450	457,0	531,8	531,8	1206	267750	0 - 6,4	6,4		12,5	
20	20.000	22.875	22.875	175	71900	0 - 3/8	3/8	0° 56'	0.20	
500	508,0	581,0	581,0	1206	319800	0 - 9,7	9,7		16,7	
24	24.000	27.125	27.125	175	101100	0 - 3/8	3/8	0° 48'	0.16	
600	610,0	689,0	689,0	1206	449700	0 - 9,7	9,7		13,3	
30	30.000	33.750	33.750	175	156600	0 - 1/2	1/2	0° 51'	0.18	
750	762,0	857,2	857,2	1206	696600	0 - 12,7	12,7		15,0	
36	36.000	40.187	40.187	175	221950	0 - 1/2	1/2	0° 43'	0.15	
900	914,0	1020,7	1020,7	1206	987250	0 - 12,7	12,7		12,5	
42	42.000	46.625	46.625	175	298750	0 - 1/2	1/2	0° 37'	0.12	
1050	1067,0	1184,3	1184,3	1206	1328900	0 - 12,7	12,7		10,0	
48	48.000	53.125	53.125	175	388000	0 - 1/2	1/2	0° 32'	0.11	
1200	1219,2	1349,4	1349,4	1206	1725900	0 - 12,7	12,7		9,2	
54	54.000	59.687	59.687	175	489600	0 - 1/2	1/2	0° 29'	0.10	
1375	1371,6	1516,0	1516,0	1206	2177850	0 - 12,7	12,7		8,3	
60	60.000	66.187	66.187	175	602100	0 - 1/2	1/2	0° 26'	0.09	
1500	1524,0	1681,1	1681,1	1206	2678250	0 - 12,7	12,7		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.