

Vic[®]-Ring Couplings & Adapters

Victaulic offers the Vic[®]-Ring Piping Method for joining large diameter pipe which does not lend itself to direct grooving. The adaptation of pipe with Vic-Ring adapters and the selection of a suitable Victaulic coupling can present individual considerations which are best handled by Victaulic engineers, who are experienced in these applications. However, the following guidelines can be used to aid in the selection process.



Type "A"

This method is widely used for light wall pipe and tubing for general applications. The Vic-Ring adapters are slipped over the pipe ends and are welded in place with a single fillet end weld. The Victaulic coupling seats over the Vic-Ring adapter and functions in normal fashion.

Type "B"

A short grooved nipple, butt-welded to the pipe end. The nipples may be cut from standard pipe and joined using standard IPS couplings or with Vic-Ring couplings.

Type "C"

Attached with double fillet welds, front and rear, this is principally for large diameter pipe. Coupling Styles 41 and 44 are generally applied but others may be used depending on the Vic-Ring O.D.

Type "D"

A heavy duty collar typically for large diameter pipe – 30"/750mm and up – providing special pipe end reinforcement and rigidity. Styles 41 and 44 couplings are most commonly used, however, others may be used depending on the Vic-Ring adapter O.D.

Type "E"

Similar in application to Type "C" and "D" Vic-Ring adapter ends, Type E allows easier attachment while providing secure coupling engagement. Style 31, Style 41 and Style 44 couplings are commonly used.

Type "G"

Ductile iron pipe may sometimes be supplied with a cast-in shoulder which equates to an applied ring.

The Vic-Ring illustrations (page 2) are of configurations often used for general, non-abrasive, non-corrosive services.

Modifications may be necessary for your application. Contact Victaulic with specific requirements for application recommendations, dimensions and technical data.

For complete Vic-Ring product, pipe preparation, design and selection details, contact Victaulic.

JOB/OWNER

System No. _____

Location _____

CONTRACTOR

Submitted By _____

Date _____

ENGINEER

Spec Sect _____ Para _____

Approved _____

Date _____

www.victaulic.com

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REV_B

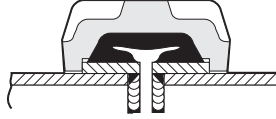


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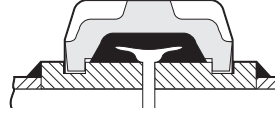
Vic[®]-Ring Couplings & Adapters

VIC-RING CONFIGURATIONS

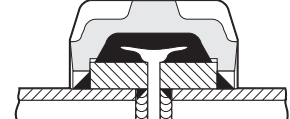
STANDARD VIC-RING CONFIGURATIONS



TYPE "A" VIC-RING



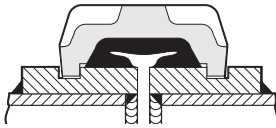
TYPE "B" VIC-RING



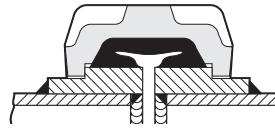
TYPE "C" VIC-RING

OTHER AVAILABLE CONFIGURATIONS

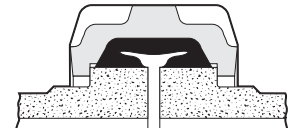
(Contact Victaulic for information)



TYPE "D" VIC-RING



TYPE "E" VIC-RING



TYPE "G" VIC-RING

Illustrations are exaggerated for clarity

Vic[®]-Ring Couplings & Adapters

TYPE "A" VIC-RING ADAPTER ENDS

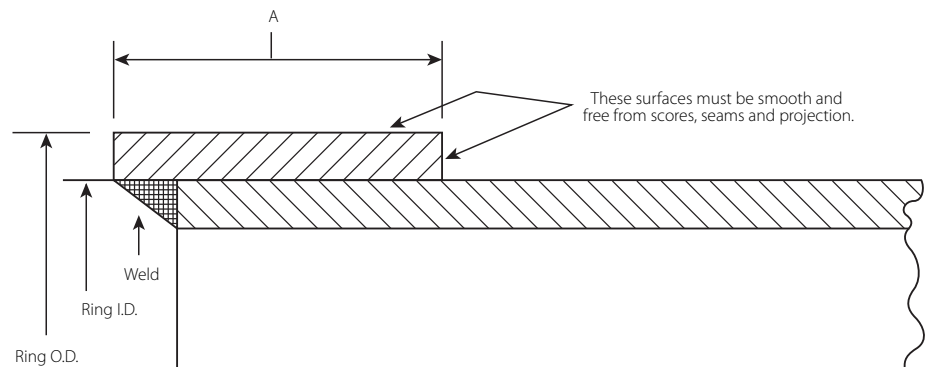
This method is widely used for adapting common sizes of light wall pipe and tubing for general applications such as contractors' portable pipe lines, irrigation lines, ventilating and duct piping, tank truck tubing and other applications where weight is a factor. The Vic-Ring adapters are slipped over the pipe ends and are welded in place with a single fillet end weld. The Victaulic coupling seats over the Vic-Ring adapter and functions in normal fashion.

TYPE "A" VIC-RING ADAPTER

Outside Diameter*	Pipe Wall Thickness	Vic-Ring Adapter Dimensions Inches/millimeters			Coupling Data		
		Ring O.D. C.D.	Gasket Seat "A" $\pm 0.03 \pm 0.76$	Ring I.D.**	Maximum Joint Working Pressure psi kPa	Size Nominal Inches mm	Style
16 400	0.188 4.8	17.03 433	1.03 26	16.06 408	200 1375	17 425	22
20 500	0.218 5.5	20.97 533	1.25 32	20.13 5118	200 1375	20 500	22
24 600	0.250 6.4	24.75 629	1.13 29	24.13 613	200 1375	24 600	22
30 750	0.375 9.5	31.00 787	1.25 32	30.13 765	150 1035	30 750	22
33 832	0.375 9.5	36.00 914	1.75 45	33.19 843	90 620	33 832	22
36 900	0.375 9.5	38.00 965	1.63 41	36.19 919	90 620	36 900	22
60 1500	0.375 9.5	63.50 1613	1.56 40	60.31 1532	50 345	60 1500	22

*Max pipe O.D. +0.06 for distance 0.75" behind collar.

These Vic-Ring adapters are not to be considered as pipe reinforcement. If reinforcement is required, provision must be made by the designer.



Vic®-Ring Couplings & Adapters

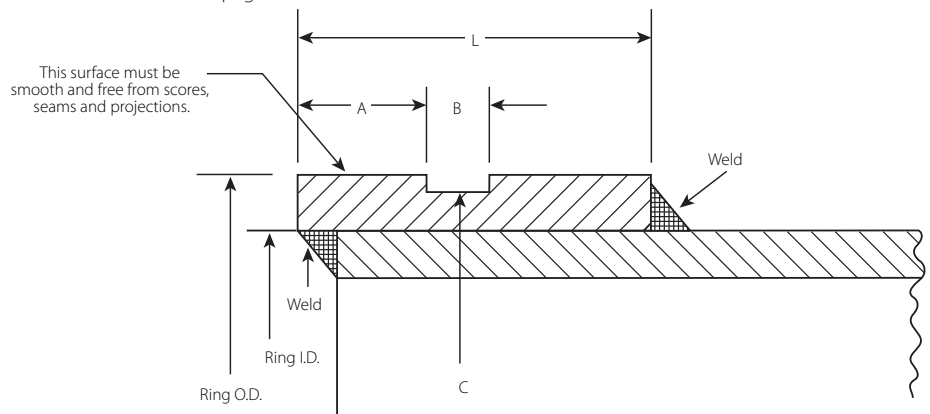
TYPE "D"
HEAVY DUTY GROOVED VIC-RING
ADAPTER ENDS – DOUBLE FILLETS

This heavy duty type end applies principally to large diameter pipe – 30"/ 750mm and up. Style 44 couplings are most commonly used with Type "D" Vic-Ring adapters; however, others may be used depending on the Vic-Ring adapter O.D.

Outside Diameter		Pipe Wall Thick.	Vic-Ring Adapter Dimensions † Inches/millimeters					Coupling Data			
Inches	mm	Inches	Ring O.D. C.D.	Gasket Seat "A"	Groove Width "B"	Groove Diameter "C"	Ring Width "L" Min.	Ring I.D.	Max. Work. Press. psi	Size Nom. Inches	Style
		mm	mm	mm	mm	mm	mm	mm	kPa	mm	
14	350	0.188	15.30	0.94	0.63	14.97	2.00	14.06	250	14	31
		4.8	389	24	16	380	51	357	1725	350	
14	350	0.188	16.44	0.94	0.50	15.94	2.00	14.06	175	14	44
		4.8	418	24	13	405	51	357	1200	350	
16	400	0.188	17.40	1.19	0.63	17.06	2.50	16.06	175	16	31
		4.8	442	30	16	433	64	408	1200	400	
16	400	0.188	18.50	1.19	0.63	18.00	2.25	16.06	175	16	44
		4.8	470	30	16	457	57	408	1200	400	
18	450	0.188	19.50	1.19	0.63	19.13	2.50	18.06	250	18	31
		4.8	495	30	16	486	64	459	1725	450	
18	450	0.188	20.94	1.25	0.63	20.44	2.50	18.06	175	18	44
		4.8	532	32	16	519	64	459	1200	450	
20	500	0.218	21.60	1.19	0.63	21.22	2.50	20.12	175	20	31
		5.5	549	30	16	539	64	511	1200	500	
20	500	0.218	22.88	1.19	0.63	22.31	2.50	20.12	175	20	44
		5.5	581	30	16	567	64	511	1200	500	
24	600	0.250	25.80	1.19	0.63	25.41	2.50	24.12	175	24	31
		6.4	655	30	16	645	64	613	1200	600	
24	600	0.250	27.13	1.19	0.63	26.56	2.50	24.12	175	24	44
		6.4	689	30	16	675	64	613	1200	600	
30	750	0.375	32.00	1.38	0.75	31.55	3.00	30.12	150	30	31
		9.5	813	35	19	801	76	765	1035	750	
30	750	0.375	33.00	1.75	0.88	32.31	3.50	30.12	90	30	41
		9.5	838	45	22	821	89	765	620	750	
30	750	0.375	33.75	1.75	0.88	33.00	3.50	30.12	175	30	44
		9.5	857	45	22	838	89	765	1200	750	
36	900	0.375	38.00	1.63	0.88	37.00	3.50	36.12	90	36	22
		9.5	965	41	22	940	89	917	620	900	
36	900	0.375	38.30	1.38	0.75	37.85	3.00	36.12	150	36	31
		9.5	973	35	19	961	76	917	1035	900	
36	900	0.375	39.16	1.75	0.88	38.47	3.50	36.12	90	36	41
		9.5	995	45	22	977	89	917	620	900	
36	900	0.375	40.19	1.75	0.94	39.44	3.50	36.12	175	36	44
		9.5	1021	45	25	1002	89	917	1200	900	

These Vic-Ring adapters are not to be considered as pipe reinforcement. If reinforcement is required, provision must be made by the designer.

† Dimensions shown are approximate average dimensions, and should only be used as a general guideline. Table continued on next page.

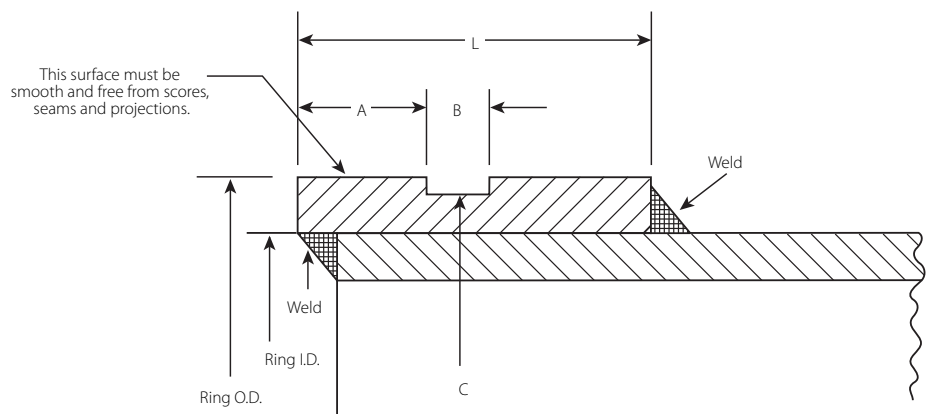


Vic[®]-Ring Couplings & Adapters

Outside Diameter	Pipe Wall Thick.	Vic-Ring Adapter Dimensions †						Coupling Data		
		Ring O.D. C.D.	Gasket Seat "A"	Groove Width "B"	Groove Diameter "C"	Ring Width "L" Min.	Ring I.D.	Max. Work. Press. psi kPa	Size Nom. Inches mm	Style
38 950	0.375 9.5	40.94 1040	1.75 45	0.88 22	40.12 1019	3.50 89	38.12 968	90 620	38 950	41
42 1050	0.375 9.5	45.56 1157	1.75 45	0.94 25	44.81 1138	3.62 92	42.12 1070	90 620	42 1050	41
42 1050	0.375 9.5	46.63 1184	1.75 45	1.00 25	45.81 1164	3.62 92	42.12 1070	175 1200	42 1050	44
46 1150	0.375 9.5	48.75 1238	1.75 45	0.94 25	47.88 1216	3.62 92	46.19 1173	90 620	46 1150	41
48 1200	0.375 9.5	52.00 1321	1.75 45	1.00 25	51.06 1297	3.88 99	48.19 1224	90 620	48 1200	41
48 1200	0.375 9.5	53.13 1350	1.75 45	1.06 27	52.19 1326	3.88 99	48.12 1222	175 1200	48 1200	44
54 1375	0.375 9.5	58.50 1486	1.75 45	1.06 27	57.44 1459	3.88 99	54.19 1376	90 620	54 1375	41
54 1375	0.375 9.5	59.69 1516	1.75 45	1.13 29	58.63 1489	3.88 99	54.19 1376	175 1200	54 1375	44
60 1500	0.375 9.5	63.50 1613	1.44 37	1.06 27	62.38 1585	3.88 99	60.25 1530	50 345	60 1500	22
60 1500	0.375 9.5	64.69 1643	1.75 45	1.13 29	63.63 1616	3.88 99	60.25 1530	90 620	60 1500	41
60 1500	0.375 9.5	66.19 1681	1.75 45	1.13 29	65.06 1653	3.88 99	60.25 1530	175 1200	60 1500	44
66 1675	0.375 9.5	70.75 1797	1.75 45	1.13 29	69.63 1769	4.12 105	66.25 1530	90 620	66 1675	41
72 1825	0.375 9.5	76.00 1930	1.75 45	1.13 29	74.88 1902	4.12 105	72.31 1837	90 620	72 1825	41

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Vic®-Ring Couplings & Adapters

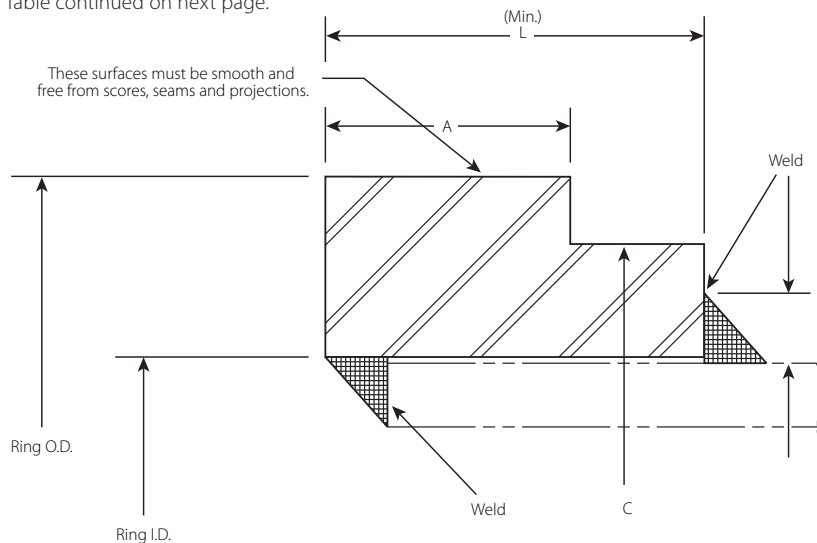
TYPE "E" VIC-RING ADAPTER ENDS – DOUBLE FILLETS

Type E is similar in application to "D" Vic-Ring allowing easier attachment while providing secure coupling engagement. Style 31, Style 41 and Style 44 couplings are commonly used with Type "E" Vic-Ring adapters.

Outside Diameter		Pipe Wall Thick.	Vic-Ring Adapter Dimensions † Inches/millimeters				Coupling Data			
Inches	mm	Inches	Ring O.D. C.D.	Gasket Seat "A"	Groove Diameter "C"	Ring Width "L" Min.	Ring I.D.	Max. Work. Press. psi kPa	Size Nom. Inches mm	Style
14	350	0.188 4.8	15.30 389	0.94 24	14.97 380	1.88 48	14.06 357	250 1725	14 350	31
14	350	0.188 4.8	16.44 418	0.94 24	15.94 405	1.88 48	14.06 357	175 1200	14 350	44
16	400	0.188 4.8	17.40 442	1.19 30	17.06 433	2.38 60	16.06 408	175 1200	16 400	31
16	400	0.188 4.8	18.50 470	1.19 30	18.00 457	2.38 60	16.06 408	175 1200	16 400	44
18	450	0.188 4.8	19.50 495	1.19 30	19.13 486	2.38 60	18.06 459	250 1725	18 450	31
18	450	0.188 4.8	20.94 532	1.25 32	20.44 519	2.38 60	18.06 459	175 1200	18 450	44
20	500	0.218 5.5	21.60 549	1.19 30	21.22 539	2.38 60	20.12 511	175 1200	20 500	31
20	500	0.218 5.5	22.88 581	1.19 30	22.31 567	2.38 60	20.12 511	175 1200	20 500	44
24	600	0.250 6.4	25.80 655	1.19 30	25.41 645	2.38 60	24.12 613	175 1200	24 600	31
24	600	0.250 6.4	27.13 689	1.19 30	26.56 675	2.38 60	24.12 613	175 1200	24 600	44
30	750	0.375 9.5	32.00 813	1.38 35	31.55 801	2.63 67	30.12 765	150 1035	30 750	31
30	750	0.375 9.5	33.00 838	1.75 45	32.31 821	2.88 73	30.12 765	90 620	30 750	41
30	750	0.375 9.5	33.75 857	1.75 45	33.00 838	3.13 80	30.12 765	175 1200	30 750	44
36	900	0.375 9.5	38.00 965	1.63 41	37.00 940	2.88 73	36.12 917	90 620	36 900	22
36	900	0.375 9.5	38.30 973	1.38 35	37.85 961	2.63 67	36.12 917	150 1035	36 900	31

These Vic-Ring adapters are not to be considered as pipe reinforcement. If reinforcement is required, provision must be made by the designer.

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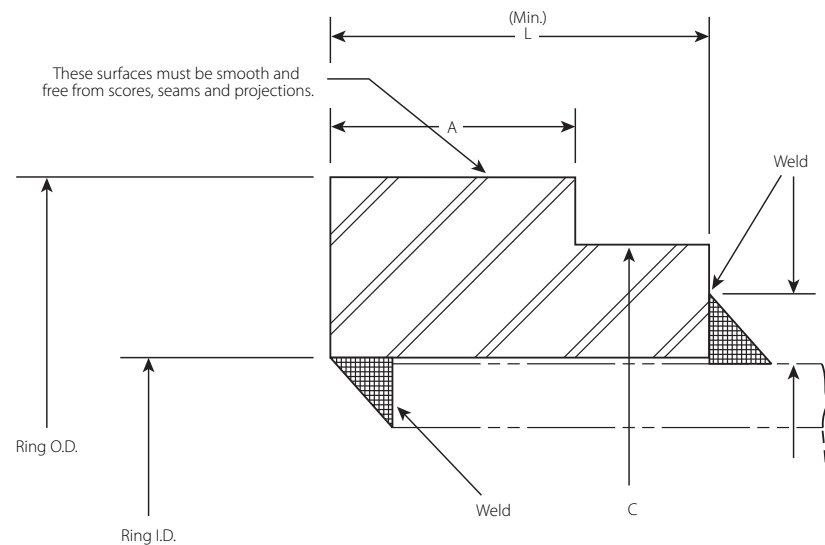


Vic[®]-Ring Couplings & Adapters

Outside Diameter	Pipe Wall Thick.	Vic-Ring Adapter Dimensions †					Coupling Data		
		Inches mm	Inches mm	Ring O.D. C.D.	Gasket Seat "A"	Groove Diameter "C"	Ring Width "L" Min.	Ring I.D.	Max. Work. Press. psi kPa
36 900	0.375 9.5	39.16 995	1.75 45	38.47 977	2.88 73	36.12 917	90 620	36 900	41
36 900	0.375 9.5	40.19 1021	1.75 45	39.44 1002	3.88 99	36.12 917	175 1200	36 900	44
38 950	0.375 9.5	40.94 1040	1.75 45	40.12 1019	2.88 73	38.12 968	90 620	38 950	41
42 1050	0.375 9.5	45.56 1157	1.75 45	44.81 1138	3.13 80	42.12 1070	90 620	42 1050	41
42 1050	0.375 9.5	46.63 1184	1.75 45	45.81 1164	3.38 86	42.12 1070	175 1200	42 1050	44
46 1150	0.375 9.5	48.75 1238	1.75 45	47.88 1216	3.13 80	46.19 1173	90 620	46 1150	41
48 1200	0.375 9.5	52.00 1321	1.75 45	51.06 1297	3.38 86	48.19 1224	90 620	48 1200	41
48 1200	0.375 9.5	53.13 1350	1.75 45	52.19 1326	3.63 92	48.12 1222	175 1200	48 1200	44
54 1375	0.375 9.5	58.50 1486	1.75 45	57.44 1459	3.38 86	54.19 1376	90 620	54 1375	41
54 1375	0.375 9.5	59.69 1516	1.75 45	58.63 1489	3.38 86	54.19 1376	175 1200	54 1375	44
60 1500	0.375 9.5	63.50 1613	1.44 37	62.38 1585	3.12 80	60.25 1530	50 345	60 1500	22
60 1500	0.375 9.5	64.69 1643	1.75 45	63.63 1616	3.63 92	60.25 1530	90 620	60 1500	41
60 1500	0.375 9.5	66.19 1681	1.75 45	65.06 1653	3.88 99	60.25 1530	175 1200	60 1500	44

These Vic-Ring adapters are not to be considered as pipe reinforcement. If reinforcement is required, provision must be made by the designer.

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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.



For complete contact information, visit www.victaulic.com

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