



Style "RC501" Reducing Couplings

Material Specifications

Center Rings: Ductile iron per ASTM A 536, Grade 65-45-12. Yellow shopcoat. Epoxy and special coatings available on request.

End Rings: Ductile iron per ASTM A 536, Grade 65-45-12. Color coded RED for O.D. and Std. Stl., BLACK for cast iron and YELLOW for A/C.

Gaskets: SBR per ASTM D 2000 MBA 710, compounded for water and sewer service. Other compounds available on request.

Bolts and Nuts: Trackhead bolts, heavy hex nuts, UNC 5/8" rolled thread, high strength, low alloy, corrosion-resistant steel per AWWA C111. Other materials or special coatings available on request.

Options: For other options and specifications, see Page 2-24.



WARNING: Flexible couplings do not provide protection against possible pullout of pipe ends in unrestrained conditions.

CAUTION: Couplings with a step in the center ring have the potential for migrating along the pipe, therefore some sort of restraint should be used.

Meets AWWA C219

NOM. PIPE SIZE	ONE END			BY	OTHER END			LIST PRICE																					
	COLOR CODE	GASKET RANGE	APPROX. USE		X	COLOR CODE	GASKET RANGE	APPROX. USE	SHOPCOAT			FUSION EPOXY																	
									w/STD B&N	w/304 SS B&N	w/316 SS B&N	w/STD B&N	w/304 SS B&N	w/316 SS B&N															
4" x 3"	RED	3.80 - 4.05	O.D. Stl.	X	RED	3.00 - 3.13	O.D. Stl., Copper																						
		4.06 - 4.31	Riv. Stl.																		3.50	Std. Stl.	\$178.60	\$223.77	\$299.81	\$233.53	\$276.59	\$354.73	
		4.21 - 4.49	A/C																										
3"	BLACK	4.50 - 4.70	Std. Stl. & PVC	X	RED	3.00 - 3.13	O.D. Stl., Copper																						
		4.50 - 4.81	Std. Stl., D.I. & PVC																		3.50	Std. Stl.	\$178.60	\$223.77	\$299.81	\$233.53	\$276.59	\$354.73	
		4.80 - 5.00	Cast Iron & PVC																										
3"	BLACK	4.74 - 5.10	C.I. & A/CME	X	RED	3.00 - 3.13	O.D. Stl., Copper																						
		5.11 - 5.30	A/C R.B.																		3.50	Std. Stl.	\$178.60	\$223.77	\$299.81	\$233.53	\$276.59	\$354.73	
		5.11 - 5.30	A/C R.B.																										
3"	YELLOW	5.11 - 5.40	A/CR.B. CL. 200	X	RED	3.00 - 3.13	O.D. Stl., Copper																						
		5.11 - 5.30	A/C R.B.																			3.50	Std. Stl.	\$178.60	\$223.77	\$299.81	\$233.53	\$276.59	\$354.73
		5.11 - 5.30	A/C R.B.																										
6" x 4"	RED	5.40 - 5.60 ²	Std. Stl. & PVC	X	RED	3.80 - 4.05	O.D. Stl.																						
		5.60 - 5.79 ²	Std. Stl. & PVC																			4.06 - 4.31	Riv. Stl.	306.82	363.29	458.32	426.62	483.08	578.11
		5.80 - 5.98 ²	Std. Stl. & PVC																										
4"	RED	5.80 - 6.10	O.D. Stl.	X	RED	4.21 - 4.49	A/C																						
		6.05 - 6.30	Riv. Stl.																			4.50 - 4.70	Std. Stl. & PVC	306.82	363.29	458.32	426.62	483.08	578.11
		6.18 - 6.46	PVC Sewer & Clay																										
4"	BLACK	6.55 - 6.76	Std. Stl. & PVC	X	BLACK	4.80 - 5.00	Cast Iron & PVC																						
		6.60 - 6.91	Std. Stl., D.I. & PVC																			4.74 - 5.10	C.I. & A/CME	306.82	363.29	458.32	426.62	483.08	578.11
		6.90 - 7.10	Cast Iron & PVC																										
4"	BLACK	6.86 - 7.20	C.I. & A/CME	X	BLACK	4.74 - 5.10	C.I. & A/CME																						
		7.15 - 7.35	A/C R.B.																			5.11 - 5.30	A/C R.B.	306.82	363.29	458.32	426.62	483.08	578.11
		7.15 - 7.35	A/C R.B.																										
4"	YELLOW	7.26 - 7.60	A/CR.B. CL. 200	X	YELLOW	5.11 - 5.40	A/CR.B. CL. 200																						
		7.26 - 7.60	A/CR.B. CL. 200																			5.11 - 5.40	A/CR.B. CL. 200	306.82	363.29	458.32	426.62	483.08	578.11
		7.26 - 7.60	A/CR.B. CL. 200																										
8" x 6"	RED	7.80 - 8.10	O.D. Stl.	X	RED	5.80 - 6.10	O.D. Stl.																						
		8.05 - 8.30	Riv. Stl.																			6.05 - 6.30	Riv. Stl.	391.81	459.56	574.30	546.14	613.88	727.93
		8.30 - 8.55	C.I. Soil, PVC Sewer																										
6"	BLACK	8.55 - 8.75	Std. Stl. & PVC	X	BLACK	6.18 - 6.46	PVC Sewer & Clay																						
		8.60 - 9.06	Std. Stl., D.I. & PVC																			6.55 - 6.76	Std. Stl. & PVC	391.81	459.56	574.30	546.14	613.88	727.93
		9.05 - 9.30	Cast Iron & PVC																										
6"	BLACK	8.99 - 9.40	C.I. & A/CME	X	BLACK	6.60 - 6.91	Std. Stl., D.I. & PVC																						
		9.31 - 9.50	A/C R.B.																			6.90 - 7.10	Cast Iron & PVC	391.81	459.56	574.30	546.14	613.88	727.93
		9.31 - 9.50	A/C R.B.																										
6"	YELLOW	9.39 - 9.79	A/CR.B. CL. 200	X	YELLOW	7.26 - 7.60	A/CR.B. CL. 200																						
		9.39 - 9.79	A/CR.B. CL. 200																			7.26 - 7.60	A/CR.B. CL. 200	391.81	459.56	574.30	546.14	613.88	727.93
		9.39 - 9.79	A/CR.B. CL. 200																										
10" x 8"	RED	9.80 - 10.10A ¹	O.D. Stl.	X	RED	7.80 - 8.10	O.D. Stl.																						
		10.20 - 10.55A ¹	C.I. Soil, PVC Sewer																			8.05 - 8.30	Riv. Stl.	552.46	644.16	798.97	743.57	835.27	990.09
		10.70 - 11.00A ¹	Std. Stl. & PVC																										
8"	BLACK	10.70 - 10.80B ¹	Cast Iron	X	BLACK	9.05 - 9.30	Cast Iron & PVC																						
		10.89 - 11.40B ¹	C.I. & A/CME																			8.99 - 9.40	C.I. & A/CME	552.46	644.16	798.97	743.57	835.27	990.09
		11.55 - 11.75B ¹	A/CME																										
8"	YELLOW	11.76 - 12.12B ¹	A/CR.B.	X	YELLOW	9.39 - 9.79	A/CR.B. CL. 200																						
		11.76 - 12.12B ¹	A/CR.B.																			9.39 - 9.79	A/CR.B. CL. 200	552.46	644.16	798.97	743.57	835.27	990.09
		11.76 - 12.12B ¹	A/CR.B.																										

¹ See Footnote 1 on next page.

² Requires special 5" end ring.



NOM. PIPE SIZE	ONE END			X	OTHER END			LIST PRICE					
	COLOR CODE	GASKET RANGE	APPROX. USE		COLOR CODE	GASKET RANGE	APPROX. USE	SHOPCOAT			FUSION EPOXY		
								w/STD B&N	w/304 SS B&N	w/316 SS B&N	w/STD B&N	w/304 SS B&N	w/316 SS B&N
12" x 10"	RED	11.81 - 12.10A ¹ 11.95 - 12.25 12.24 - 12.50A 12.65 - 12.95A ¹	O.D. Stl O.D. Stl. & PIP Cl Soil, PVC Sewer Std. Stl. & PVC	RED	9.80 - 10.10A ¹ 10.20 - 10.55A ¹ 10.70 - 11.00A ¹	O.D. Stl. C.I. - Soil, PVC Sewer Std. Stl. & PVC	752.04	856.85	1,033.80	979.11	1,083.92	1,260.85	
	BLACK	12.70 - 12.80B ¹ 13.15 - 13.55B ¹	Std. Stl. & PVC Cast Iron & PVC	BLACK	10.70 - 10.80B ¹ 10.89 - 11.40B ¹	Cast Iron & PVC C.I. & A/CME							
	YELLOW	13.85 - 14.10B ¹ 14.03 - 14.40B ¹	A/CME A/CMEt	YELLOW	11.55 - 11.75B ¹ 11.76 - 12.12B ¹	A/CME A/C R.B.							
14" x 12"	BLACK	14.00 (please refer to 12") 14.60 - 15.00 15.30 - 15.70	- Cast Iron & PVC	RED	11.81 - 12.10A ¹ 11.95 - 12.25 12.24 - 12.50A ¹ 12.65 - 12.95A ¹	OD Stl O.D. Stl. & PIP Cl Soil PVC Sewer Std. Stl. & PVC	1,065.92	1,195.67	1,411.64	1,327.38	1,450.92	1,673.10	
	RED	16.00 - 16.40	A/CME & O.D. Stl.	BLACK	12.70 - 12.80B ¹ 13.15 - 13.55B ¹	Std. Stl. & PVC Cast Iron & PVC							
	YELLOW	16.40 - 16.88	A/C R.B.	YELLOW	13.85 - 14.10B ¹ 14.03 - 14.40B ¹	A/CME A/CME							
16" x 14"	BLACK	16.00 (please refer to 14") 17.05 - 17.40 17.40 - 17.80	D.I. & PVC D.I., A/C R.B. & PVC	BLACK	14.60 - 15.00 15.30 - 15.70	- Cast Iron & PVC	1,935.50	2,072.74	2,319.63	2,291.21	2,428.44	2,675.35	
	RED	17.80 - 18.10 18.10 - 18.40	Cast Iron, O.D. Stl. & PVC Cast Iron & A/C	RED	16.00 - 16.40	A/CME & O.D. Stl.							
	YELLOW	18.45 - 18.97	A/CME & R.B.	YELLOW	16.40 - 16.88	A/C R.B.							
18" x 16"	RED	18.70 - 19.10		BLACK	17.05 - 17.40 17.40 - 17.80		1,994.66	2,159.37	2,455.63	2,350.38	2,400.98	2,811.32	
	BLACK	19.10 - 19.70		RED	17.80 - 18.10 18.10 - 18.40								
	YELLOW	19.70 - 20.25		YELLOW	18.45 - 18.97								
20" x 18"	RED	20.80 - 21.35		RED	18.70 - 19.10		2,060.10	2,224.79	2,521.06	2,440.17	2,604.87	2,901.13	
	BLACK	21.35 - 21.75		BLACK	19.10 - 19.70								
	YELLOW	21.75 - 22.25		YELLOW	19.70 - 20.25								
22" x 20"	RED	22.95 - 23.35		RED	20.80 - 21.35		2,120.45	2,298.87	2,619.82	2,500.53	2,678.96	2,999.90	
	BLACK	23.45 - 23.85		BLACK	21.35 - 21.75								
	YELLOW	23.75 - 24.25		YELLOW	21.75 - 22.25								
24" x 22"	RED	24.75 - 25.30		RED	22.95 - 23.35		3,316.17	3,541.68	3,898.33	3,822.37	4,047.89	4,404.53	
	BLACK	25.30 - 25.80		BLACK	23.45 - 23.85								
	YELLOW	26.10 - 26.32		YELLOW	23.75 - 24.25								

For "RC501" parts list, see page 2-12.

To Order: Determine O.D. of pipes to be coupled. Select proper gasket range for each pipe from above table. Insert top range of each gasket, as indicated in gray column, into catalog number as follows: RC501 (one end x other end)

Example: To couple 6" O.D. steel and 4" A/C rough barrel, order **RC501-6.10 x 5.30**



WARNING: Flexible couplings do not provide protection against possible pullout of pipe ends in unrestrained conditions.

CAUTION: Couplings with a step in the center ring have the potential for migrating along the pipe, therefore some sort of restraint should be used.

¹ To accommodate the wider range of pipe sizes within the 10" and 12" categories, it is necessary that the center rings be made in different sizes: A x A, A x B, B x A and B x B. For example, 12" riveted steel x 10" ductile iron requires a 12A x 10B center ring.



Style "RC501" Parts List

NOMINAL PIPE SIZE	APPROX. WEIGHT (lbs.)	CENTER RING LENGTH	REDUCING CTR. RINGS RING ONLY	END RINGS		GASKETS		BOLTS & NUTS			BOLTS
				(STD.) LG. END	(RC) SM. END	LG. END	SM. END	CORTEN	304 S.S.	316 S.S.	NO: SIZE
4" ¹ x 3"	17#	5"	\$47.61	\$17.40	\$53.85	\$7.18	\$15.76	\$9.20	\$20.71	\$40.99	4: 5/8" x 8"
6" x 4"	24#	5"	162.06	30.07	51.30	10.21	7.18	9.20	20.71	40.99	5: 5/8" x 8"
8" x 6"	35#	5"	205.07	36.92	69.15	15.26	10.21	9.20	20.71	40.99	6: 5/8" x 8"
10" x 8"	58#	6"	309.39	42.52	78.36	31.68	15.26	10.75	24.13	47.71	7: 5/8" x 10 1/2"
12" x 10"	84#	7"	432.40	51.09	110.37	40.50	31.68	10.75	24.13	47.71	8: 5/8" x 10 1/2"
14" x 12"	95#	7"	663.43	81.94	125.67	53.76	40.50	11.18	25.20	51.47	9: 5/8" x 11 1/2"
16" x 14"	111#	7"	1,105.53	109.60	498.87	55.94	53.76	11.18	25.20	51.47	10: 5/8" x 11 1/2"
18" x 16"	128#	7"	1,049.75	229.83	459.43	65.55	55.94	11.18	25.20	51.47	12: 5/8" x 11 1/2"
20" x 18"	164#	7"	995.37	308.88	488.50	67.64	65.55	11.18	25.20	51.47	12: 5/8" x 11 1/2"
22" x 20"	166#	7"	1,007.34	326.69	504.15	69.29	67.64	11.18	25.20	51.47	13: 5/8" x 11 1/2"
24" x 22"	212#	8 1/2"	1,687.04	496.27	785.43	91.52	69.29	13.33	29.76	56.99	14: 5/8" x 15"

¹ Uses 4" 501 Center Ring.



WARNING: Flexible couplings do not provide protection against possible pullout of pipe ends in unrestrained conditions.

To accommodate the wider range of pipe sizes within the 10" and 12" categories, it is necessary that the center rings be made in different sizes: A x A, A x B, B x A and B x B. For example, 12" riveted steel x 10" ductile iron requires a 12A x 10B center ring.



Fusion Epoxy Style "RC501" Parts List

NOMINAL PIPE SIZE	APPROX. WEIGHT (lbs.)	CENTER RING LENGTH	REDUCING CTR. RINGS RING ONLY	END RINGS		GASKETS ²		BOLT & NUT			BOLTS
				(STD.) LRG. END	(RC) SM. END	LRG. END	SM. END	CORTEN	304 S.S.	316 S.S.	NO: SIZE
4" x 3"	17#	5"	\$62.85	\$25.52	\$85.42	N \$25.23	N \$17.31	\$9.20	\$20.71	\$40.99	4: 5/8" x 8"
						E 25.90	E 18.11				
6" x 4"	24#	5"	231.21	41.08	90.94	N 29.74	N 25.23	9.20	20.71	40.99	5: 5/8" x 8"
						E 31.11	E 25.90				
8" x 6"	35#	5"	292.22	50.89	122.36	N 35.82	N 29.74	9.20	20.71	40.99	6: 5/8" x 8"
						E 40.26	E 31.11				
10" x 8"	58#	6"	415.17	61.84	144.37	N 50.01	N 35.82	10.75	24.13	47.71	7: 5/8" x 10 1/2"
						E 58.24	E 40.26				
12" x 10"	84#	7"	560.82	71.19	188.92	N 62.49	N 50.01	10.75	24.13	47.71	8: 5/8" x 10 1/2"
						E 72.52	E 58.24				
14" x 12"	95#	7"	812.36	103.12	217.02	N 89.37	N 62.49	11.18	25.20	51.47	9: 5/8" x 11 1/2"
						E 106.40	E 72.52				
16" x 14"	111#	7"	1,308.84	139.47	621.40	N 98.89	N 89.37	11.18	25.20	51.47	10: 5/8" x 11 1/2"
						E 119.07	E 106.40				
18" x 16"	128#	7"	1,231.83	282.22	580.68	N 129.70	N 98.89	11.18	25.20	51.47	12: 5/8" x 11 1/2"
						E 160.16	E 119.07				
20" x 18"	164#	7"	1,223.19	358.13	591.50	N 144.04	N 129.70	11.18	25.20	51.47	12: 5/8" x 11 1/2"
						E 180.58	E 160.16				
22" x 20"	166#	7"	1,230.14	386.84	601.28	N 152.00	N 144.04	11.18	25.20	51.47	13: 5/8" x 11 1/2"
						E 191.67	E 180.58				
24" x 22"	212#	8 1/2"	1,919.74	640.18	915.02	N 220.31	N 152.00	13.33	29.76	56.99	14: 5/8" x 15"
						E 282.46	E 191.67				

¹ Uses 4" 501 Center Ring

² "N" denotes NBR gasket. "E" denotes EPDM gasket.

To accommodate the wider range of pipe sizes within the 10" and 12" categories, it is necessary that the center rings be made in different sizes: A x A, A x B, B x A and B x B. For example, 12" riveted steel x 10" ductile iron requires a 12A x 10B center ring.



WARNING: Flexible couplings do not provide protection against possible pullout of pipe ends in unrestrained conditions.