



# STYLE RC501 REDUCING COUPLINGS

## MATERIAL SPECIFICATIONS

**CENTER RINGS:** Ductile iron per ASTM A536, Grade 65-45-12. Yellow shopcoat. Romacoat – FB and special coatings available on request.

**END RINGS:** Ductile iron per ASTM A536, 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 D2000 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 3-25 and 3-26.



**MEETS  
AWWA C219**

NSF61 certified upon request.

NOM. PIPE SIZE							LIST PRICE						
	ONE END			BY	OTHER END			SHOPCOAT			FUSION EPOXY		
	COLOR CODE	GASKET RANGE	APPROX. USE		COLOR CODE	GASKET RANGE	APPROX. USE	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 4.06 - 4.31 4.21 - 4.49 4.50 - 4.70 4.50 - 4.81	O.D. Stl Riv. Stl. A/C Std. Stl. & PVC Std. Stl., D.I. & PVC	X	RED	3.00 - 3.13 3.50	O.D. Stl., Copper Std. Stl.	\$312.24	\$391.21	\$524.14	\$408.27	\$483.55	\$620.16
	BLACK	4.80 - 5.00 4.74 - 5.10 5.11 - 5.30	Cast Iron & PVC C.I. & A/CME A/C R.B.		BLACK	4.80 - 5.00 4.74 - 5.10 5.11 - 5.30	Cast Iron & PVC C.I. & A/CME A/C R.B.						
	YELLOW	5.11 - 5.40	A/C R.B. CL. 200		YELLOW	5.11 - 5.40	A/C R.B. CL. 200						
6" x 4"	RED	5.40 - 5.60 <sup>2</sup> 5.60 - 5.79 <sup>2</sup> 5.80 - 5.98 <sup>2</sup> 5.80 - 6.10 6.05 - 6.30 6.18 - 6.46 6.55 - 6.76 6.60 - 6.91	Std. Stl. & PVC Std. Stl. & PVC Std. Stl. & PVC O.D. Stl Riv. Stl. PVC Sewer & Clay Std. Stl. & PVC Std. Stl., D.I. & PVC	X	RED	3.80 - 4.05 4.06 - 4.31 4.21 - 4.49 4.50 - 4.70 4.50 - 4.81	O.D. Stl. Riv. Stl. A/C Std. Stl. & PVC Std. Stl., D.I. & PVC	536.40	635.11	801.26	745.84	844.54	1,010.69
	BLACK	6.90 - 7.10 6.86 - 7.20 7.15 - 7.35	Cast Iron & PVC C.I. & A/CME A/C R.B.		BLACK	4.80 - 5.00 4.74 - 5.10 5.11 - 5.30	Cast Iron & PVC C.I. & A/CME A/C R.B.						
	YELLOW	7.26 - 7.60	A/C R.B. CL. 200		YELLOW	5.11 - 5.40	A/C R.B. CL. 200						
8" x 6"	RED	7.80 - 8.10 8.05 - 8.30 8.30 - 8.55 8.55 - 8.75 8.60 - 9.06	O.D. Stl. Riv. Stl. C.I. Soil, PVC Sewer Std. Stl. & PVC Std. Stl., D.I. & PVC	X	RED	5.80 - 6.10 6.05 - 6.30 6.18 - 6.46 6.55 - 6.76 6.60 - 6.91	O.D. Stl Riv. Stl. PVC Sewer & Clay Std. Stl. & PVC Std. Stl., D.I. & PVC	684.98	803.43	1,004.03	954.79	1,073.21	1,272.61
	BLACK	9.05 - 9.30 8.99 - 9.40 9.31 - 9.50	Cast Iron & PVC C.I. & A/CME A/C R.B.		BLACK	6.90 - 7.10 6.86 - 7.20 7.15 - 7.35	Cast Iron & PVC C.I. & A/CME A/C R.B.						
	YELLOW	9.39 - 9.79	A/C R.B. CL. 200		YELLOW	7.26 - 7.60	A/C R.B. CL. 200						
10" x 8"	RED	9.80 - 10.10A <sup>1</sup> 10.20 - 10.55A <sup>1</sup> 10.70 - 11.00A <sup>1</sup>	O.D. Stl. C.I. Soil, PVC Sewer Std. Stl. & PVC	X	RED	7.80 - 8.10 8.05 - 8.30 8.30 - 8.55 8.55 - 8.75 8.60 - 9.06	O.D. Stl. Riv. Stl. CI Soil, PVC Sewer Std. Stl. & PVC Std. Stl., D.I. & PVC	965.83	1,126.16	1,396.80	1,299.95	1,460.25	1,730.92
	BLACK	10.70 - 10.80B <sup>1</sup> 10.89 - 11.40B <sup>1</sup>	Cast Iron C.I. & A/CME		BLACK	9.05 - 9.30 8.99 - 9.40 9.31 - 9.50	Cast Iron & PVC C.I. & A/CME A/C R.B.						
	YELLOW	11.55 - 11.75B <sup>1</sup> 11.76 - 12.12B <sup>1</sup>	A/CME A/C R.B.		YELLOW	9.39 - 9.79	A/C R.B. CL. 200						

<sup>1</sup> See Footnote 1 on next page. <sup>2</sup> Requires special 5" end ring.

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NOM. PIPE SIZE	COLOR CODE	ONE END		BY	OTHER END		LIST PRICE						
		GASKET RANGE	APPROX. USE		COLOR CODE	GASKET RANGE	APPROX. USE	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 <sup>1</sup> 11.95 - 12.25A <sup>1</sup> 12.24 - 12.50A <sup>1</sup> 12.65 - 12.95A <sup>1</sup>	O.D. Stl O.D. Stl. & PIP CI Soil, PVC Sewer- Std. Stl. & PVC	×	RED	9.80 - 10.10A <sup>1</sup> 10.20 - 10.55A <sup>1</sup> 10.70 - 11.00A <sup>1</sup>	O.D. Stl. C.I. - Soil, PVC Sewer Std. Stl. & PVC	1,314.75	1,497.98	1,807.34	1,711.74	1,894.97	2,204.28
	BLACK	12.70 - 12.80B <sup>1</sup> 13.15 - 13.55B <sup>1</sup>	Std. Stl. & PVC Cast Iron & PVC	×	BLACK	10.70 - 10.80B <sup>1</sup> 10.89 - 11.40B <sup>1</sup>	Cast Iron & PVC C.I. & A/CME						
	YELLOW	13.85 - 14.10B <sup>1</sup> 14.03 - 14.40B <sup>1</sup>	A/CME A/CME	×	YELLOW	11.55 - 11.75B <sup>1</sup> 11.76 - 12.12B <sup>1</sup>	A/CME A/C R.B.						
14" x 12"		14.00 (please refer to 12")			RED	11.81 - 12.10A <sup>1</sup> 11.95 - 12.25A <sup>1</sup> 12.24 - 12.50A <sup>1</sup> 12.65 - 12.95A <sup>1</sup>	O.D. Stl O.D. Stl. & PIP CI Soil PVC Sewer Std. Stl. & PVC	1,863.50	2,090.32	2,467.90	2,320.59	2,536.58	2,925.01
	BLACK	14.60 - 15.00 15.30 - 15.70	- Cast Iron & PVC	×	BLACK	12.70 - 12.80B <sup>1</sup> 13.15 - 13.55B <sup>1</sup>	Std. Stl. & PVC Cast Iron & PVC						
	RED	16.00 - 16.40	A/CME & O.D. Stl.	×	YELLOW	13.85 - 14.10B <sup>1</sup> 14.03 - 14.40B <sup>1</sup>	A/CME A/CME						
	YELLOW	16.40 - 16.88	A/C R.B.	×	BLACK	14.60 - 15.00 15.30 - 15.70	- Cast Iron & PVC						
16" x 14"		16.00 (please refer to 14")			RED	16.00 - 16.40	A/CME & O.D. Stl.	3,383.75	3,623.67	4,055.29	4,005.61	4,245.52	4,677.18
	BLACK	17.05 - 17.40 17.40 - 17.80	D.I. & PVC D.I., A/C R.B. & PVC	×	YELLOW	16.40 - 16.88	A/C R.B.						
	RED	17.80 - 18.10 18.10 - 18.40	Cast Iron, O.D. Stl. & PV Cast Iron & A/C	×	BLACK	17.05 - 17.40 17.40 - 17.80							
18" x 16"	YELLOW	18.45 - 18.97	A/CME & R.B.	×	RED	17.80 - 18.10 18.10 - 18.40		3,487.16	3,775.12	4,293.05	4,109.05	4,197.51	4,914.90
	RED	18.70 - 19.10		×	YELLOW	18.45 - 18.97							
	BLACK	19.10 - 19.70		×	RED	20.80 - 21.35							
20" x 18"	RED	20.80 - 21.35		×	BLACK	19.10 - 19.70		3,601.58	3,889.49	4,407.44	4,266.03	4,553.96	5,071.91
	BLACK	21.35 - 21.75		×	YELLOW	19.70 - 20.25							
22" x 20"	YELLOW	21.75 - 22.25		×	RED	20.80 - 21.35		3,707.07	4,018.99	4,580.10	4,371.56	4,683.50	5,244.58
	RED	22.95 - 23.35		×	BLACK	21.35 - 21.75							
	BLACK	23.45 - 23.85		×	YELLOW	21.75 - 22.25							
24" x 22"	YELLOW	23.75 - 24.25		×	RED	22.95 - 23.35		5,797.50	6,191.74	6,815.26	6,682.46	7,076.72	7,700.23
	RED	24.75 - 25.30		×	BLACK	23.45 - 23.85							
	BLACK	25.30 - 25.80		×	YELLOW	23.75 - 24.25							

<sup>1</sup> 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.

For "RC501" parts list, see page 3-13 & 3-14.

**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.

**TO ORDER:** Determine O.D. of pipes to be coupled. Select proper gasket range for each pipe from above table. Insert top range from each gasket, into the 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**

COUPLINGS



# RC501 PARTS LIST

NOM. PIPE SIZE	APPROX. WEIGHT (lbs.)	CENTER RING LENGTH	REDUCING CTR. RINGS RING ONLY	END RINGS		GASKETS		BOLTS & NUTS			BOLTS NO : SIZE
				(STD) LG. END	(RC) SM. END	LARGE END	SMALL END	CORTEN	304.S.S.	316 S.S.	
4" <sup>1</sup> x 3"	17 #	5"	\$83.23	\$30.42	\$94.11	12.55	\$27.57	\$16.08	\$36.21	\$71.66	4: 5/8" x 8"
6" x 4"	24 #	5	283.32	52.56	89.69	17.85	12.55	16.08	36.21	71.66	5: 5/8" x 8"
8" x 6"	35 #	5"	358.51	64.55	120.90	26.67	17.85	16.08	36.21	71.66	6: 5/8" x 8"
10" x 8"	58 #	6"	540.86	74.34	137.00	55.38	26.67	18.80	42.19	83.42	7: 5/8" x 10 1/2"
12" x 10"	84 #	7"	755.91	89.31	192.96	70.81	55.38	18.80	42.19	83.42	8: 5/8" x 10 1/2"
14" x 12"	95 #	7"	1,159.82	143.26	219.70	93.99	70.81	19.55	44.06	89.98	9: 5/8" x 11 1/2"
16" x 14"	111 #	7"	1,932.73	191.61	872.14	97.80	93.99	19.55	44.06	89.98	10: 5/8" x 11 1/2"
18" x 16"	128 #	7"	1,835.20	401.80	803.20	114.60	97.80	19.55	44.06	89.98	12: 5/8" x 11 1/2"
20" x 18"	164 #	7"	1,740.14	539.99	854.03	118.25	114.60	19.55	44.06	89.98	12: 5/8" x 11 1/2"
22" x 20"	166 #	7"	1,761.22	571.13	881.38	121.13	118.25	19.55	44.06	89.98	13: 5/8" x 11 1/2"
24" x 22"	212 #	8 1/2"	2,949.36	867.60	1,373.13	160.01	121.13	23.31	52.03	99.63	14: 5/8" x 15"

<sup>1</sup> Uses 4" 501 Center Ring.

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.

COUPLINGS

# FUSION EPOXY RC501 PARTS LIST



NOM. PIPE SIZE	AP-PROX. WEIGHT (lbs.)	CENTER RING LENGTH	REDUCING CTR. RINGS RING ONLY	END RINGS		GASKETS <sup>2</sup>		BOLTS & NUTS			BOLTS NO : SIZE
				(STD) LG. END	(RC) SM. END	LARGE END	SMALL END	CORTEN	304.S.S.	316 S.S.	
4" x 3"	17 #	5"	\$109.87	\$ 44.62	\$149.33	N \$44.11 E 45.29	N \$43.44 E 44.14	\$16.08	\$36.21	\$71.66	4: 5/8" x 8"
6" x 4"	24 #	5"	404.21	71.81	158.99	N 52.00 E 54.40	N 44.11 E 45.29	16.08	36.21	71.66	5: 5/8" x 8"
8" x 6"	35 #	5"	510.89	88.96	213.92	N 62.62 E 70.38	N 52.00 E 54.40	16.08	36.21	71.66	6: 5/8" x 8"
10" x 8"	58 #	6"	725.81	108.11	252.40	N 87.43 E 101.81	N 62.62 E 70.38	18.80	42.19	83.42	7: 5/8" x 10 1/2"
12" x 10"	84 #	7"	980.42	124.46	330.29	N 109.24 E 126.79	N 87.43 E 101.81	18.80	42.19	83.42	8: 5/8" x 10 1/2"
14" x 12"	95 #	7"	1,420.18	180.29	379.40	N 156.24 E 186.01	N 109.24 E 126.79	19.55	44.06	89.98	9: 5/8" x 11 1/2"
16" x 14"	111 #	7"	2,288.16	243.82	1,086.36	N 172.88 E 208.16	N 156.24 E 186.01	19.55	44.06	89.98	10: 5/8" x 11 1/2"
18" x 16"	128 #	7"	2,153.54	493.39	1,015.17	N 226.76 E 280.00	N 172.88 E 208.16	19.55	44.06	89.98	12: 5/8" x 11 1/2"
20" x 18"	164 #	7"	2,138.41	626.11	1,034.10	N 251.81 E 315.70	N 226.76 E 280.00	19.55	44.06	89.98	12: 5/8" x 11 1/2"
22" x 20"	166 #	7"	2,150.60	676.29	1,051.18	N 265.73 E 335.08	N 251.81 E 315.70	19.55	44.06	89.98	13: 5/8" x 11 1/2"
24" x 22"	212 #	8 1/2"	3,356.11	1,119.20	1,599.68	N 385.16 E 493.81	N 265.73 E 335.08	23.31	52.03	99.63	14: 5/8" x 15"

<sup>1</sup> Uses 4" 501 Center Ring.

<sup>2</sup> "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.

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