

# STYLE 501 STRAIGHT, TRANSITION AND LONG BARREL COUPLINGS



## MATERIAL SPECIFICATIONS

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

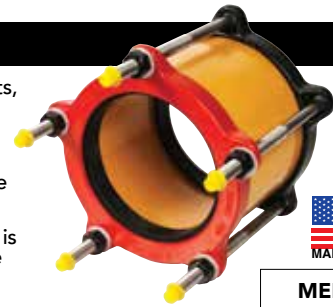
**END RINGS:** Ductile iron per ASTM A 536, Grade 65-45-12. Color coded RED for O.D. and Std. Stl., BLACK for cast iron and YELLOW for A/C.

**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 3-25.

**PRESSURE:** When properly installed on a pipe that is within the correct OD range, the Romac 501 can be used at working pressures up to 260 psi.



**MEETS AWWA C219**



NSF61 certified upon request.



**WARNING:** Flexible couplings do not provide protection against possible pullout of pipe ends in unrestrained conditions. See Page 8-4 for appropriate restraint system.

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

NOM. PIPE SIZE	ONE END			BY	OTHER END			BY	CR LGTH	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
2"	RED	2.00 - 2.14	O.D. Stl., Copper Std. Stl., Copper, PVC Std. Stl., Copper, PVC C.I., Copper, PVC	X	RED	2.00 - 2.14	O.D. Stl., Copper Std. Stl., Copper, PVC Std. Stl., Copper, PVC C.I., Copper, PVC	X	5"1	\$74.28	\$96.87	\$137.90	\$91.43	\$114.02	\$155.06
		2.12 - 2.38				2.12 - 2.38				118.30	170.75	245.55	146.19	198.64	273.45
		2.35 - 2.65				2.35 - 2.65				143.14	207.59	317.78	176.85	241.32	351.51
		2.50 - 3.00				2.50 - 3.00									
3"	RED	3.00 - 3.29	Copper, OD Steel Std. Stl. & PVC Std. Stl., CI/DI & PVC	X	RED	3.00 - 3.29	Copper, OD Steel Std. Steel & PVC Std. Stl., CI/DI & PVC	X	5"1	118.30	170.75	245.55	146.19	198.64	273.45
		3.30 - 3.51				3.30 - 3.51				143.14	207.59	317.78	176.85	241.32	351.51
		3.50 - 4.00				3.50 - 4.00									
4"	RED	3.80 - 4.05	O.D. Stl., 3" D.I. Riv. Stl. A/C Std. Stl., PVC Std. Stl., D.I. & PVC	X	RED	3.80 - 4.05	O.D. Stl. Riv. Stl. A/C Std. Stl., PVC Std. Stl., D.I. & PVC	X	5"1	140.25	185.46	267.51	173.30	218.51	300.56
		4.06 - 4.31				4.06 - 4.31				178.89	231.35	326.81	221.05	273.50	368.96
		4.21 - 4.49				4.21 - 4.49				201.46	265.90	376.10	248.92	313.36	423.57
		4.50 - 4.70				4.50 - 4.70									
	BLACK	4.80 - 5.00	Cast Iron & PVC C.I. & A/CME A/C R.B.	X	BLACK	4.80 - 5.00	Cast Iron & PVC C.I. & A/CME A/C R.B.	X	12"	319.47	383.90	494.11	394.74	459.19	569.38
		4.74 - 5.10				4.74 - 5.10				361.14	440.79	637.38	446.23	525.88	722.48
	YELLOW	5.11 - 5.30	A/C R.B. CL. 200	X	YELLOW	5.11 - 5.30	A/C R.B. CL. 200	X	14"	361.14	440.79	637.38	446.23	525.88	722.48
		5.11 - 5.40				5.11 - 5.40									
6"	RED	5.40 - 5.60 <sup>2</sup>	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	5.40 - 5.60 <sup>2</sup>	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	5"1	190.89	247.40	323.76	235.88	292.38	394.96
		5.60 - 5.79 <sup>2</sup>				5.60 - 5.79 <sup>2</sup>				226.78	292.35	411.68	280.23	345.78	465.14
		5.80 - 5.98 <sup>2</sup>				5.80 - 5.98 <sup>2</sup>				301.73	382.29	520.03	372.87	453.40	591.17
		5.80 - 6.10				5.80 - 6.10				393.58	474.13	611.89	486.31	566.87	704.61
	BLACK	6.05 - 6.30	Cast Iron & PVC C.I. & A/CME A/C R.B.	X	BLACK	6.05 - 6.30	Cast Iron & PVC C.I. & A/CME A/C R.B.	X	10"	301.73	382.29	520.03	372.87	453.40	591.17
		6.18 - 6.46				6.18 - 6.46				393.58	474.13	611.89	486.31	566.87	704.61
	YELLOW	6.55 - 6.76	A/C R.B. CL. 200	X	YELLOW	6.55 - 6.76	A/C R.B. CL. 200	X	12"	393.58	474.13	611.89	486.31	566.87	704.61
		6.60 - 6.91				6.60 - 6.91				428.55	525.23	773.84	529.53	626.23	741.70
8"	RED	7.80 - 8.10	O.D. Stl. Riv. Stl. C.I.-Soil, PVC Sewer Std. Stl., PVC Std. Stl., D.I. & PVC	X	RED	7.80 - 8.10	O.D. Stl. Riv. Stl. C.I.-Soil, PVC Sewer Std. Stl. & PVC Std. Stl., D.I. & PVC	X	5"1	241.84	309.66	432.72	298.83	366.65	489.71
		8.05 - 8.30				8.05 - 8.30				284.66	363.31	506.52	351.72	430.41	573.59
		8.30 - 8.55				8.30 - 8.55				370.01	466.66	631.98	457.21	553.85	719.19
		8.55 - 8.75				8.55 - 8.75				503.17	599.82	765.14	621.72	718.38	883.70
	BLACK	8.60 - 9.06	Cast Iron & PVC C.I. & A/CME A/C R.B.	X	BLACK	8.60 - 9.06	Cast Iron & PVC C.I. & A/CME A/C R.B.	X	10"	370.01	466.66	631.98	457.21	553.85	719.19
		9.05 - 9.30				9.05 - 9.30				503.17	599.82	765.14	621.72	718.38	883.70
	YELLOW	8.99 - 9.40	A/C R.B. CL. 200	X	YELLOW	8.99 - 9.40	A/C R.B. CL. 200	X	12"	503.17	599.82	765.14	621.72	718.38	883.70
		9.31 - 9.50				9.31 - 9.50				538.00	654.05	952.36	664.78	780.82	1,079.15
YELLOW	9.39 - 9.79	A/C R.B. CL. 200	X	YELLOW	9.39 - 9.79	A/C R.B. CL. 200	X	14"	538.00	654.05	952.36	664.78	780.82	1,079.15	

**TO ORDER:** Determine O.D. of pipes to be coupled. Select proper gasket range for each pipe from above table. Insert high range of each gasket into catalog number as follows: 501 - one end x other end.

**EXAMPLE:** To couple 4" A/C rough barrel and 4" O.D. steel with 5" Center Ring, order **501-5.30 x 4.05 X 5**

<sup>1</sup> Standard Center Ring length.  
<sup>2</sup> Requires special 5" end ring.

COUPLINGS



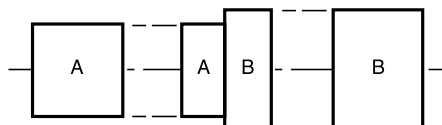
# STYLE 501 STRAIGHT, TRANSITION AND LONG BARREL COUPLINGS

NOM. PIPE SIZE	ONE END			BY	OTHER END			BY	LIST PRICE						
	COLOR CODE	GASKET RANGE	APPROX. USE		COLOR CODE	GASKET RANGE	APPROX. USE		CR LGTH	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	
10"	RED	9.80-10.10A 10.20-10.55A 10.70-11.00A	O.D. Stl. CI Soil, PVC Sewer Std. Stl. & PVC	×	RED	9.80-10.10A 10.20-10.55A 10.70-11.00A	O.D. Stl. CI Soil, PVC Sewer Riv. Stl.	×	6" <sup>1,2</sup> A & B, AB	\$333.68	\$425.45	\$592.54	\$412.30	\$504.08	\$671.16
	BLACK	10.70-10.80B 10.89-11.40B	Std. Stl. & PVC Cast Iron & PVC		BLACK	10.70-10.80B 10.89-11.40B	Std. Stl. & PVC Cast Iron & PVC		7" <sup>2</sup> B ONLY	444.79	536.58	703.65	549.62	641.39	808.47
	YELLOW	11.55-11.75B 11.76-12.12B	A/CME A/C R.B.		YELLOW	11.55-11.75B 11.76-12.12B	A/CME A/C R.B.		12" <sup>2</sup> A & B, AB	694.44	829.80	1,177.86	858.08	993.46	1,340.81
										14" <sup>2</sup> B ONLY	798.32	941.58	1,318.45	986.44	1,129.71
12"	RED	11.81 - 12.10A 11.95 - 12.25A 12.24 - 12.50A 12.65 - 12.95A	O.D. Stl. PVC SDR 41 CI Soil, PVC Sewer Std. Stl. & PVC	×	RED	11.81 - 12.10A 11.95 - 12.25A 12.24 - 12.50A 12.65 - 12.95A	O.D. Stl. PVC SDR 41 CI Soil, PVC Sewer Std. Stl. & PVC	×	6" <sup>1,2</sup> A & B, AB	401.31	506.21	697.15	495.87	600.77	791.72
	BLACK	12.70 - 12.80B 13.15 - 13.55B	Std. Stl. & PVC Cast Iron & PVC		BLACK	12.70 - 12.80B 13.15 - 13.55B	Std. Stl. & PVC Cast Iron & PVC		7" <sup>2</sup> B ONLY	498.24	603.11	794.06	615.65	720.53	911.47
	YELLOW	13.85 - 14.10B 14.03 - 14.40B	A/CME A/C R.B.		YELLOW	13.85 - 14.10B 14.03 - 14.40B	A/CME A/C R.B.		12" <sup>2</sup> A & B, AB	815.70	970.42	1,368.18	1,007.92	1,162.63	1,560.39
										14" <sup>2</sup> B ONLY	884.59	1,048.30	1,479.03	1,093.04	1,256.76
14"	14.00 O.D. (please refer to 12" nominal pipe size)			×	14.00 O.D. (please refer to 12" nominal pipe size)			×	7" <sup>1,3</sup>						
	BLACK	14.60 - 15.00 15.30 - 15.70	DI, CI & Simplex AC D.I, A/C R.B. & PVC		BLACK	14.60 - 15.00 15.30 - 15.70	DI, CI & Simplex AC D.I, A/C R.B. & PVC		14"	1,155.02	1,339.21	1,823.76	1,422.02	1,606.21	2,090.76
	RED	16.00 - 16.40	O.D. Stl.		RED	16.00 - 16.40	O.D. Stl.								
	YELLOW	16.40 - 16.88	A/CME & R.B.		YELLOW	16.40 - 16.88	A/CME & R.B.								
16"	16.00 O.D. (please refer to 14" nominal pipe size)			×	16.00 O.D. (please refer to 14" nominal pipe size)			×	7" <sup>1,3</sup>						
	BLACK	17.05 - 17.40 17.40 - 17.80	D.I., Cast Iron & PVC D.I. and A/C R.B, PVC		BLACK	17.05 - 17.40 17.40 - 17.80	D.I., Cast Iron & PVC D.I. and A/C R.B, PVC		14"	1,390.14	1,594.78	2,133.18	1,711.46	1,916.12	2,454.51
	RED	17.80 - 18.10 18.10 - 18.40	Cast Iron, O.D. Stl & PVC Cast Iron & A/C		RED	17.80 - 18.10 18.10 - 18.40	Cast Iron, O.D. Stl & PVC Cast Iron & A/C								
	YELLOW	18.45 - 18.97	A/CME & R.B.		YELLOW	18.45 - 18.97	A/CME & R.B.								
18"	18.00 O.D. (please refer to 16" nominal pipe size)			×	18.00 O.D. (please refer to 16" nominal pipe size)			×	7" <sup>1,3</sup>						
	RED	18.70 - 19.10			RED	18.70 - 19.10			14"	1,864.47	2,110.06	2,756.13	2,303.84	2,549.41	3,195.50
	BLACK	19.10 - 19.70			BLACK	19.10 - 19.70									
	YELLOW	19.70 - 20.25			YELLOW	19.70 - 20.25									
20"	20.00 O.D. (please refer to 18" nominal pipe size)			×	20.00 O.D. (please refer to 18" nominal pipe size)			×	7" <sup>1,3</sup>						
	RED	20.80 - 21.35			RED	20.80 - 21.35			14"	2,117.22	2,362.78	3,008.87	2,616.14	2,861.70	3,507.79
	BLACK	21.35 - 21.75			BLACK	21.35 - 21.75									
22"	22.00 O.D. (please refer to 18" nominal pipe size)			×	22.00 O.D. (please refer to 18" nominal pipe size)			×	7" <sup>1,3</sup>						
	RED	22.95 - 23.35			RED	22.95 - 23.35			14"	2,402.34	2,668.37	3,368.30	2,968.43	3,234.48	3,934.40
	BLACK	23.45 - 23.85			BLACK	23.45 - 23.85									
24"	24.00 O.D. (please refer to 22" nominal pipe size)			×	24.00 O.D. (please refer to 22" nominal pipe size)			×	10" <sup>1</sup>						
	RED	24.75 - 25.30			RED	24.75 - 25.30			20"	3,849.59	4,224.21	5,197.90	4,756.73	5,131.37	6,113.04
	BLACK	25.30 - 25.80			BLACK	25.30 - 25.80									
	YELLOW	26.10 - 26.32		YELLOW	26.10 - 26.32										

<sup>1</sup> Standard Center Ring length

<sup>2</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 three sizes: A, AB, and B (see drawing below).

<sup>3</sup> For longer center ring length, see the Style "400" on Page 3-18.



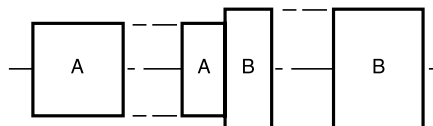
- For "501" parts list, see Page 3-4.
- For Steel Couplings 12" - 96", see Page 3-18.
- For Sewer O.D.s, see Page 7-6.

# 501 PARTS LIST



NOM. PIPE SIZE	APPROX. COMPLETE COUPLING WEIGHT (lbs.)	CENTER RING LENGTH	CENTER RING	END RING	GASKET	5/8" BOLTS		TRACKHEAD BOLT w/ NUT		
						NUMBER	LENGTH	CORTEN	304 S.S.	316 S.S.
2"	9 #	5"	\$25.87	\$10.14	\$4.40	2:	5/8" x 8"	\$9.66	\$21.75	\$43.04
3"	13 #	5"	35.73	12.98	5.73	4:	5/8" X 10 1/2"	11.29	25.34	50.10
	17 #	10"	49.73			4:	5/8" X 13"	14.00	31.25	59.84
4"	16 #	5"	49.99	18.27	7.54	4:	5/8" x 8"	9.66	21.75	43.04
	22 #	7"	82.12			4:	5/8" x 10 1/2"	11.29	25.34	50.10
	27 #	10"	93.86			4:	5/8" x 13"	14.00	31.25	59.84
	28 #	12"	211.87			4:	5/8" x 15"	14.00	31.25	59.84
	36 #	14"	251.27			4:	5/8" x 17"	14.56	35.19	86.78
6"	26 #	5"	58.00	31.57	10.72	5:	5/8" x 8"	9.66	21.75	43.04
	34 #	7"	85.75			5:	5/8" x 10 1/2"	11.29	25.34	50.10
	39 #	10"	147.16			5:	5/8" x 13"	14.00	31.25	59.84
	47 #	12"	239.01			5:	5/8" x 15"	14.00	31.25	59.84
	55 #	14"	271.14			5:	5/8" x 17"	14.56	35.19	86.78
8"	32 #	5"	74.30	38.77	16.02	6:	5/8" x 8"	9.66	21.75	43.04
	41 #	7"	107.35			6:	5/8" x 10 1/2"	11.29	25.34	50.10
	55 #	10"	176.45			6:	5/8" x 13"	14.00	31.25	59.84
	58 #	12"	309.61			6:	5/8" x 15"	14.00	31.25	59.84
	68 #	14"	341.04			6:	5/8" x 17"	14.56	35.19	86.78
10"	49 # (A)	6"	98.85	44.65	33.26	7:	5/8" x 10 1/2"	11.29	25.34	50.10
	55 # (B)	6"	98.85			7:	5/8" x 10 1/2"	11.29	25.34	50.10
	57 # (AB)	6"	98.85			7:	5/8" x 10 1/2"	11.29	25.34	50.10
	64 # (B only)	7"	209.96			7:	5/8" x 10 1/2"	11.29	25.34	50.10
	78 # (A)	12"	436.67			7:	5/8" x 17"	14.56	35.19	86.78
	83 # (B)	12"	436.67			7:	5/8" x 17"	14.56	35.19	86.78
	100 # (B only)	14"	534.38			7:	5/8" x 18"	15.45	37.26	93.15
12"	65 # (A)	6"	118.67	53.64	42.53	8:	5/8" x 10 1/2"	11.29	25.34	50.10
	68 # (B)	6"	118.67			8:	5/8" x 10 1/2"	11.29	25.34	50.10
	73 # (AB)	6"	118.67			8:	5/8" x 10 1/2"	11.29	25.34	50.10
	72 # (B only)	7"	215.60			8:	5/8" x 10 1/2"	11.29	25.34	50.10
	102 # (A)	12"	506.86			8:	5/8" x 17"	14.56	35.19	86.78
	108 # (B)	12"	506.86			8:	5/8" x 17"	14.56	35.19	86.78
14"	92 #	7"	304.72	86.04	56.45	9:	5/8" x 11 1/2"	11.74	26.46	54.04
	136 #	14"	731.04			9:	5/8" x 18"	15.45	37.26	93.15
16"	102 #	7"	372.69	115.08	58.74	10:	5/8" x 11 1/2"	11.74	26.46	54.04
	153 #	14"	888.05			10:	5/8" x 18"	15.45	37.26	93.15
18"	123 #	7"	459.54	241.32	68.83	12:	5/8" x 11 1/2"	11.74	26.46	54.04
	194 #	14"	1,058.83			12:	5/8" x 18"	15.45	37.26	93.15
20"	125 #	7"	532.44	324.32	71.02	12:	5/8" x 11 1/2"	11.74	26.46	54.04
	200 #	14"	1,141.18			12:	5/8" x 18"	15.45	37.26	93.15
22"	154 #	7"	605.03	343.02	72.75	13:	5/8" x 11 1/2"	11.74	26.46	54.04
	222 #	14"	1,369.34			13:	5/8" x 18"	15.45	37.26	93.15
24"	214 #	10"	1,059.94	521.08	96.10	14:	5/8" x 15"	14.00	31.25	59.84
	363 #	20"	2,313.15			14:	5/8" x 24"	21.58	50.17	122.35

To accommodate the wider range of pipe sizes within the 10" and 12" categories, it is necessary that the center rings be made in three sizes: A, AB, and B (see drawing right).



**WARNING:** Flexible couplings do not provide protection against possible pullout of pipe ends in unrestrained conditions. See Page 8-4 for appropriate restraint system.

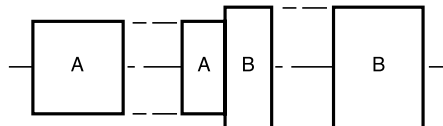
COUPLINGS




# FUSION EPOXY 501 PARTS LIST

NOM. PIPE SIZE	APPROX. CENTER RING WEIGHT (lbs.)	CENTER RING LENGTH	CENTER RING	END RING	GASKET N: NBR E: EPDM	5/8" BOLTS		TRACKHEAD BOLT w/ NUT		
						NUMBER	LENGTH	CORTEN	304 S.S.	316 S.S.
2"	4 #	5"	\$34.19	\$14.56	N \$25.02 E 25.89	2:	5/8" x 8"	\$9.66	\$21.75	\$43.04
3"	6 #	5"	49.28	20.15	N 26.09 E 26.51	4:	5/8" x 10 1/2"	11.29	25.34	50.10
	13.5 #	10"	69.10			4:	5/8" x 13"	14.00	31.25	59.84
4"	8 #	5"	65.99	26.80	N 26.49 E 27.20	4:	5/8" x 8"	9.66	21.75	43.04
	13 #	7"	107.23			4:	5/8" x 10 1/2"	11.29	25.34	50.10
	17 #	10"	124.27			4:	5/8" x 13"	14.00	31.25	59.84
	19 #	12"	270.08			4:	5/8" x 15"	14.00	31.25	59.84
	25 #	14"	319.31			4:	5/8" x 17"	14.56	35.19	86.78
6"	12 #	5"	79.87	43.13	N 31.23 E 32.67	5:	5/8" x 8"	9.66	21.75	43.04
	19 #	7"	116.09			5:	5/8" x 10 1/2"	11.29	25.34	50.10
	23 #	10"	195.17			5:	5/8" x 13"	14.00	31.25	59.84
	30 #	12"	308.62			5:	5/8" x 15"	14.00	31.25	59.84
	31 #	14"	349.00			5:	5/8" x 17"	14.56	35.19	86.78
8"	15 #	5"	101.96	53.43	N 37.61 E 42.27	6:	5/8" x 8"	9.66	21.75	43.04
	24 #	7"	145.08			6:	5/8" x 10 1/2"	11.29	25.34	50.10
	36 #	10"	234.32			6:	5/8" x 13"	14.00	31.25	59.84
	39 #	12"	398.82			6:	5/8" x 15"	14.00	31.25	59.84
	48 #	14"	438.48			6:	5/8" x 17"	14.56	35.19	86.78
10"	25 # (A)	6"	136.90	64.93	N 52.51 E 61.15	7:	5/8" x 10 1/2"	11.29	25.34	50.10
	28 # (B)	6"	136.90			7:	5/8" x 10 1/2"	11.29	25.34	50.10
	31 # (AB)	6"	136.90			7:	5/8" x 10 1/2"	11.29	25.34	50.10
	37 # (B only)	7"	274.22			7:	5/8" x 10 1/2"	11.29	25.34	50.10
	51 # (A)	12"	559.74			7:	5/8" x 17"	14.56	35.19	86.78
	56 # (B)	12"	559.74			7:	5/8" x 17"	14.56	35.19	86.78
	74 # (B only)	14"	681.93			7:	5/8" x 18"	15.45	37.26	93.15
12"	34 # (A)	6"	171.02	74.75	N 65.61 E 76.15	8:	5/8" x 10 1/2"	11.29	25.34	50.10
	36 # (B)	6"	171.02			8:	5/8" x 10 1/2"	11.29	25.34	50.10
	42 # (AB)	6"	171.02			8:	5/8" x 10 1/2"	11.29	25.34	50.10
	40 # (B only)	7"	290.80			8:	5/8" x 10 1/2"	11.29	25.34	50.10
	68 # (A)	12"	656.86			8:	5/8" x 17"	14.56	35.19	86.78
	72 # (B)	12"	656.86			8:	5/8" x 17"	14.56	35.19	86.78
	80 # (B only)	14"	734.93			8:	5/8" x 18"	15.45	37.26	93.15
14"	49 #	7"	420.99	108.28	N 93.84 E 111.72	9:	5/8" x 11 1/2"	11.74	26.46	54.04
	98 #	14"	953.56			9:	5/8" x 18"	15.45	37.26	93.15
16"	55 #	7"	503.61	146.44	N 103.83 E 125.02	10:	5/8" x 11 1/2"	11.74	26.46	54.04
	110 #	14"	1,146.64			10:	5/8" x 18"	15.45	37.26	93.15
18"	71 #	7"	637.20	296.33	N 136.19 E 168.17	12:	5/8" x 11 1/2"	11.74	26.46	54.04
	142 #	14"	1,388.17			12:	5/8" x 18"	15.45	37.26	93.15
20"	67 #	7"	774.01	376.04	N 151.24 E 189.61	12:	5/8" x 11 1/2"	11.74	26.46	54.04
	134 #	14"	1,536.68			12:	5/8" x 18"	15.45	37.26	93.15
22"	76 #	7"	853.19	406.18	N 159.60 E 201.25	13:	5/8" x 11 1/2"	11.74	26.46	54.04
	152 #	14"	1,809.77			13:	5/8" x 18"	15.45	37.26	93.15
24"	133 #	10"	1,344.56	672.19	N 231.33 E 296.58	14:	5/8" x 15"	14.00	31.25	59.84
	266 #	20"	2,918.08			14:	5/8" x 24"	21.58	50.17	122.35

To accommodate the wider range of pipe sizes within the 10" and 12" categories, it is necessary that the center rings be made in three sizes: A, AB, and B (see drawing right).



 **WARNING:** Flexible couplings do not provide protection against possible pullout of pipe ends in unrestrained conditions. See Page 8-4 for appropriate restraint system.