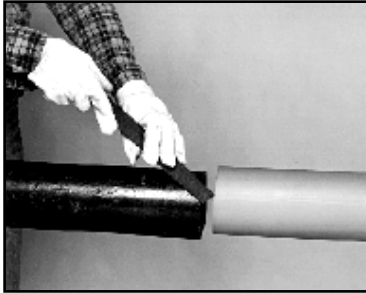




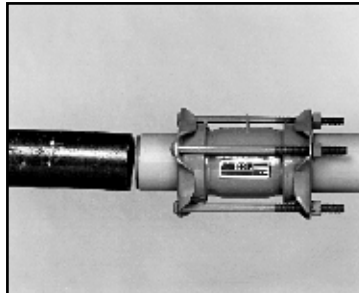
Class I-EZ IPS Straight Conductive Class II-EZ IPS Reducing Conductive

INSTALLATION INSTRUCTIONS

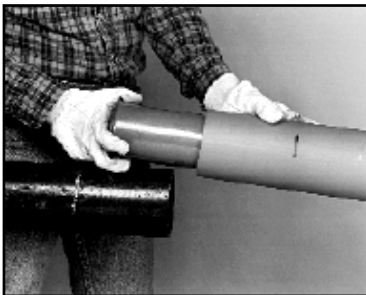
FOR JOINING IPS STEEL AND PLASTIC PIPE IN ANY COMBINATION



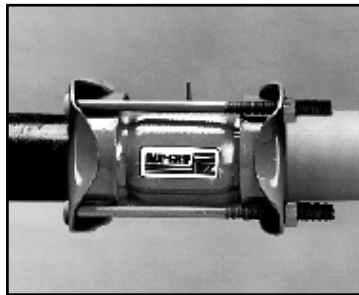
1. Clean pipe ends at least 6" back from end, removing dirt, rust, oil and scale. Pipe ends must be cut square (straight) and be free of longitudinal grooves. NOTE: Leave a 1" minimum gap between pipe ends. Gap should not exceed 2".



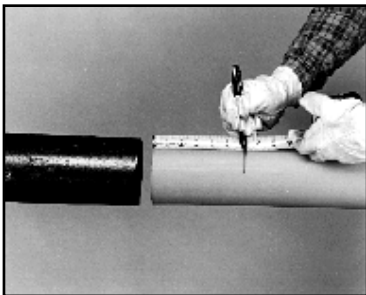
5. Pull coupling entirely onto one pipe (if reducing, pull onto smaller pipe). If coupling does not stab easily onto pipe, see other side of these instructions. NOTE: Max pipe deflection should not exceed 2° at each pipe end.



2. When joining non-metallic pipe, insert a properly sized metallic stiffener into non-metallic pipe end(s). The stiffener must be at least 7" long and be marked with the same SDR as the pipe.



6. Back coupling over second pipe and center between marks on pipes.



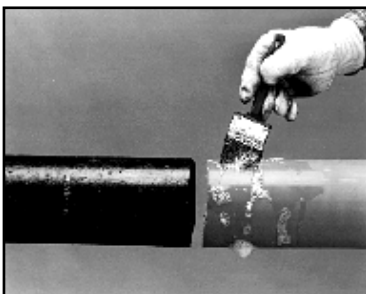
3. Mark each pipe 6" back from end.



7. Torque nuts fully and evenly, in uniform increments, in a criss-cross pattern to:

1 1/4" IPS:
35 ft-lbs. +/- 5 ft-lbs.

All other sizes:
90 ft-lbs +/- 10 ft-lbs.



4. Lubricate pipes and coupling gaskets.

Tensile Rating Per DOT 192.283 (b)

Class I-IPS Straight-Conductive

PIPE DIAMETER		CATALOG NUMBER	CERTIFIED PER CFR 49 PART 192.283 (B)*	
NOMINAL	ACTUAL	CONDUCTIVE	PE 2306/2406	PE 3406/3408
1-1/4	1.660	EZ18A7UMG	SDR 10	SDR 9.33
2	2.375	EZ28A7UMG	SDR 11	SDR 9.33
3	3.500	EZ38A7UMG	SDR 11	SDR 9.33
4	4.500	EZ48A7UMG	SDR 11	SDR 9.33
6	6.625	EZ68A7UMG	SDR 11	SDR 11
8	8.625	EZ88A7UMG	SDR 11	SDR 11

Class II-IPS Reducing-Conductive

PIPE DIAMETER		CATALOG NUMBER	CERTIFIED PER CFR 49 PART 192.283 (B)*	
NOMINAL	ACTUAL	CONDUCTIVE	PE 2306/2406	PE 3406/3408
2 to 1-1/4	2.375/1.66	EZ218A7UMG	SDR 11/10*	SDR 9.33
3 to 2	3.50/2.375	EZ328A7UMG	SDR 11	SDR 9.33
4 to 2	4.50/2.375	EZ428A7UMG	SDR 11	SDR 9.33
4 to 3	4.50/3.50	EZ438A7UMG	SDR 11	SDR 9.33
6 to 4	6.625/4.50	EZ648A7UMG	SDR 11	SDR 11
8 to 6	8.625/6.625	EZ868A7UMG	SDR 11	SDR 11

PRESSURE RATING
200 WOG (PE to PE)
200 WOG (PE to STEEL)
300 WOG (STEEL to STEEL)

CONDUCTIVE MAXI-GRIP EZ™

Disassembly Instructions

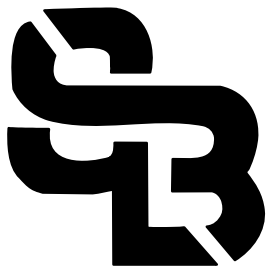
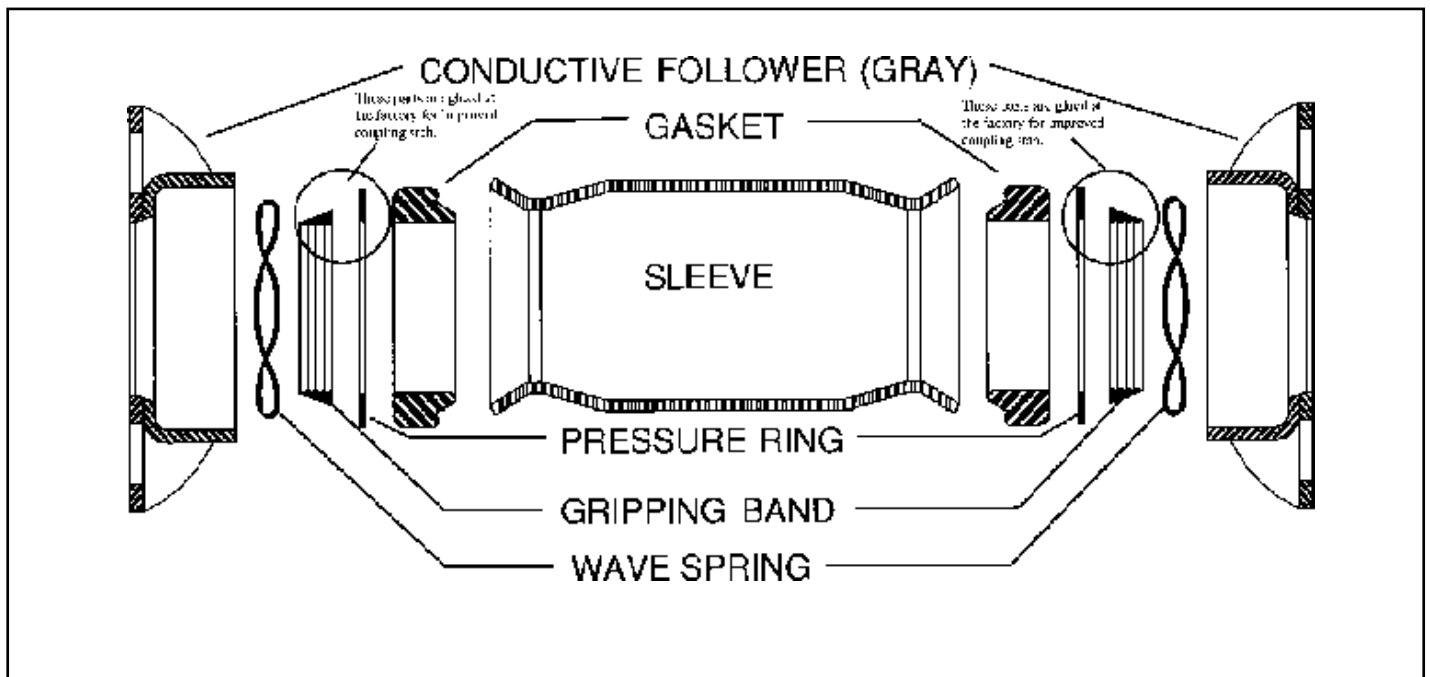
Most installations should not require disassembly of the Maxi-Grip EZ™ coupling. If a coupling does not stab, loosen the nuts and then gently attempt to pull the coupling onto the pipe.

If the coupling must be disassembled for installation (such as in tight spaces or on out-of-round pipe), observe the following guidelines.

- 1) **Prepare pipes** as per instructions 1 thru 4 on other side.
- 2) **Remove nuts** (and bolts) from coupling, but keep all component parts within each follower.
- 3) **Slide each follower** (with internal components) onto its respective pipe.
- 4) **Center Barrel** (Sleeve) between marks on pipes.
- 5) **Bring each follower back against sleeve.** Be sure to keep components evenly aligned with pipe.
- 6) **Replace bolts** and nuts and tighten fully to a minimum torque of :

1-1/4" IPS	30 Ft.-Lbs. Minimum-40 Ft.-Lbs Maximum
All Other sizes	80 Ft.-Lbs. Minimum-100 Ft.-Lbs Maximum

Note: In extreme cases it may be necessary to slide component parts individually onto each pipe. In this case, slide the parts onto each pipe as indicated below.



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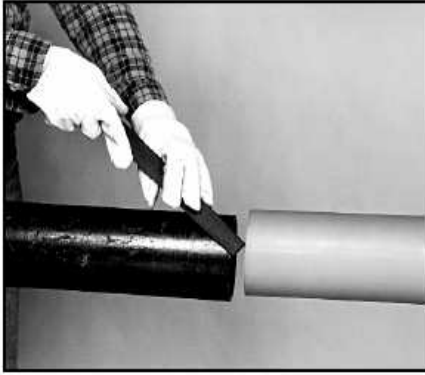


Installation Instructions

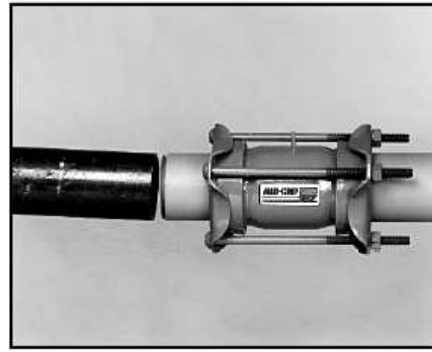
Form F75 (0104)

(Page 1 of 2)

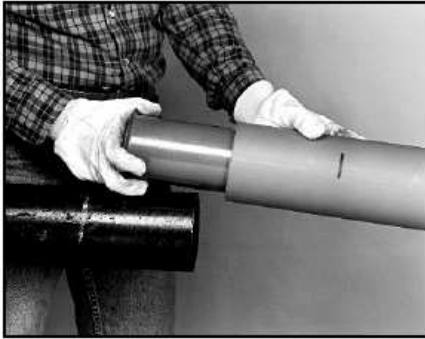
Class I – EZ-IPS Straight Conductive(10”&12”)



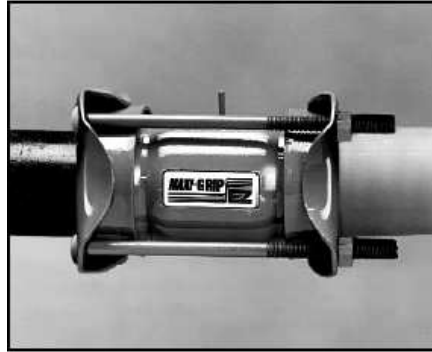
1. Clean pipe ends at least 8” back from end, removing dirt, rust, oil and scale. Pipe ends must be cut square (straight) and be free of longitudinal grooves. **NOTE:** Pipes may be abutted, but a gap of 1/2” is recommended to allow for pipe expansion into coupling. Gap should not exceed 3”.



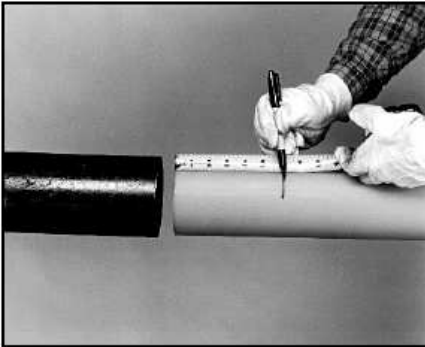
5. Pull coupling entirely onto one pipe. If coupling does not stab easily onto pipe, see other side of these instructions.



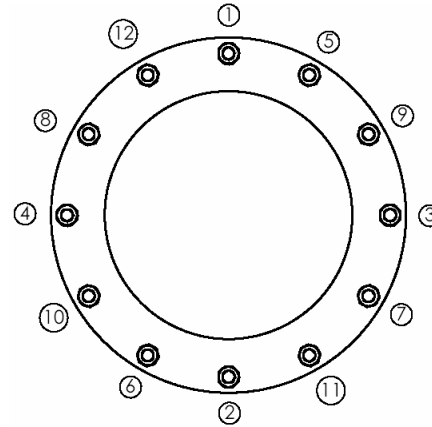
2. When joining plastic pipe, insert a properly sized metallic stiffener into plastic pipe end(s). The stiffener must be at least 9” long and be marked with the same SDR as the pipe.



6. Back coupling over second pipe and center between marks on pipes.

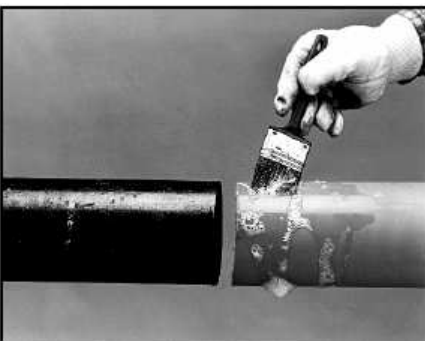


3. Mark each pipe 9” back from end.



7. Tighten nuts 1 to 4, alternating tightening of opposing nuts to 90 Ft.-Lbs. Torque remaining nuts to min. 70 Ft.-Lbs. following the order shown. Nuts must be torqued evenly until the final torque is reached. Nuts 1 to 4 must be torqued during final torquing sequence. **Each nut will be torqued several times before all nuts have reached final torque value.**

Maximum torque
100 Ft.-Lbs.



4. Lubricate pipes and coupling gaskets.

Tensile Rating
Per DOT 192.283(b)

PRESSURE RATING
150 WOG (PE TO PE)
150 WOG (PE TO STEEL)
300 WOG (STEEL TO STEEL)

Pipe Diameter		Catalogue Number	Certified per CFR 49 Part 192.283 (b)	
Nominal	Actual	Conductive	PE 2406	PE 3408
10" IPS	10.75"	EZ1008A10 UMG	SDR 13.5	SDR 11
12" IPS	12.75"	EZ1208A10UMG	SDR 13.5	SDR 11

Installation Instructions

Form F75 (0104)

(Page 2 of 2)

Class I – EZ-IPS Straight Conductive(10”&12”)

Conductive Maxi-Grip EZ™

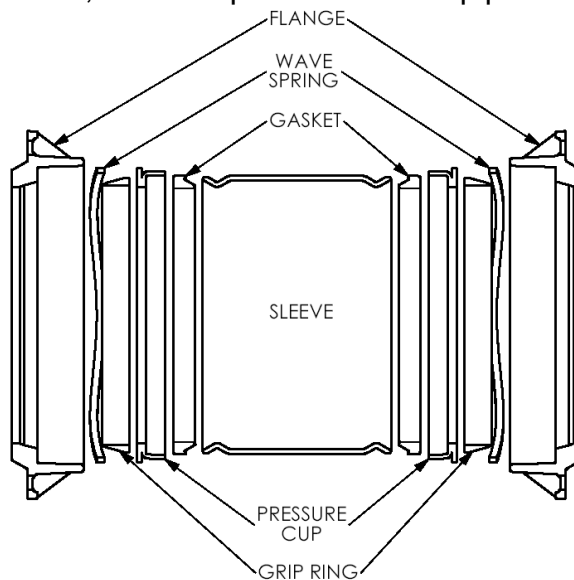
Disassembly Instructions

Most installations should not require disassembly of the Maxi-Grip EZ™ coupling. If a coupling does not stab, loosen the nuts and then gently attempt to pull the coupling onto the pipe.

If the coupling must be disassembled for installation (such as in tight spaces or an out-of-round pipe), observe the following guidelines.

- 1) Prepare pipes as per instructions 1 through 4 on other side.
- 2) Remove nuts (and bolts) from coupling, but keep all component parts within each follower.
- 3) Slide each follower (with internal components) onto its respective pipe.
- 4) Center Barrel (Sleeve) between marks on pipes.
- 5) Bring each follower back against sleeve. Be sure to keep components evenly aligned with pipe.
- 6) Replace bolts and nuts and tighten to 5 – 10 Ft. Lbs.
- 7) Continue with **Step 7** on opposite side of instructions sheet.

Note: In extreme cases it may be necessary to slide component parts individually onto each pipe. In this case, slide the parts onto each pipe as indicated below.



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