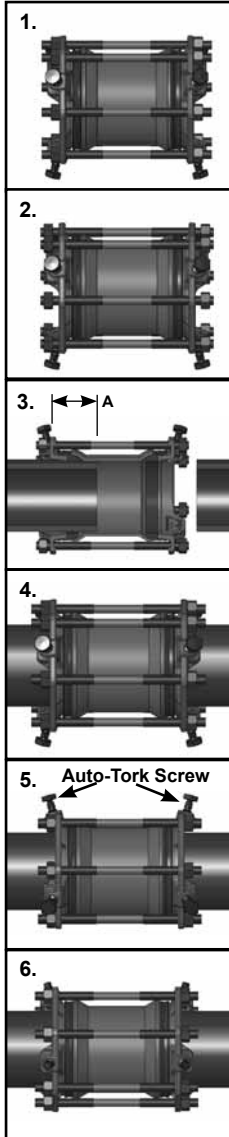
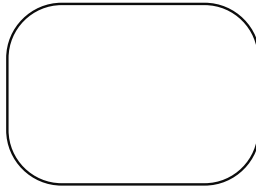


**Series RCDD**  
**3"-12" Restrained**  
**Coupling (RCDD)**  
**for Ductile Iron Pipe\*\***

**Installation**  
**Instructions**



Refer to the FMB website (<http://www.fordmeterbox.com>) for additional and most recent instructions and product information.

1. Measure the pipe diameter carefully, making sure the pipe O.D. falls within the range of the RCDD. Check to ensure the RCDD is not damaged. Thoroughly clean each pipe end to a smooth, bare surface sufficiently longer than the coupling length. Check the pipe surface to ensure the gasket-bearing surface is free from dents, flat spots, or pitted areas that might impair gasket seating. Lubricate both pipe ends with an approved pipe lubricant meeting AWWA C111.

SIZE	PIPE OD RANGE
3"	3.90 - 4.02
4"	4.74 - 4.86
6"	6.84 - 6.96
8"	8.99 - 9.11
10"	11.04 - 11.16
12"	13.14 - 13.26

2. For ease of installation on larger OD pipe, it may be helpful to loosen the nuts on each side of the RCDD. Disassembly of the coupling is **not** required.

3. Insert each pipe end into the RCDD coupling. Pipe must be inserted into the RCDD a minimum distance (see chart and illustration) from the restraint gland face. Measure and mark this distance from pipe end as a reference point for proper insertion. Center the coupling between the two pipe ends. The optimum gap between pipe ends for the RCDD coupling is less than 1". Set deflection before tightening rods. (Maximum allowable deflection is 5°.)

*MINIMUM PIPE INSERTION	
SIZE	"A"
3"	4"
4"	4-5/8"
6"	4-3/4"
8"	4-13/16"
10"	4-7/8"
12"	4-7/8"

\* Not accounting for beveled, unsquare or deflected pipe ends

4. Tighten the nuts on the tie rods to the torque recommended in AWWA C111 (45-60 ft-lb for 3" and 75-90 ft-lb for 4"-12" sizes). Tighten in an alternating manner, (6 o'clock, 12 o'clock, 9 o'clock, 3 o'clock) maintaining the same gap between the restraint glands at all points around the RCDD sleeve. Repeat the process until all tie rods are within the recommended torque range. Use of a torque wrench is strongly recommended and required to ensure proper torque. It is important to ensure that equal torque has been applied to each tie rod.

5. After correct assembly of the restraint glands, bring all restraint wedges in contact with the pipe surface by turning the Auto-Tork actuating screws in a clockwise direction until initial contact is made with the pipe surface.

6. Tighten each Auto-Tork screw approximately 180° (1/2 turn), alternating among screws until the heads twist off. Never turn a single screw more than 180° without alternating to another screw. Note: To re-use or re-install the restraint after the Auto-Tork break-off heads have been removed; tighten the 5/8" hex head of the actuating screw to 75 ft-lbs. Also, while it is not a requirement, it is always a good practice to recheck the tie rod torque prior to backfilling and/or after testing or applying water pressure. Be advised that extreme torque can overstress the coupling components.

\*\*Intended for use on any pressure or thickness of ductile iron pipe meeting AWWA C151 Standard without limitation. Not recommended for use on plain end fittings.



**The Ford Meter Box Company, Inc.**  
 P.O. Box 443, Wabash, IN 46992-0443  
 260-563-3171 / FAX: 800-826-3487  
 Internet: <http://www.fordmeterbox.com>