

## INSTALLATION INSTRUCTIONS

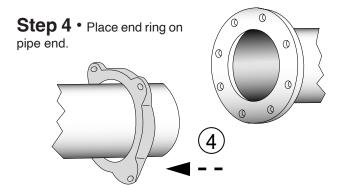
Read installation instructions first before installing. Check parts to ensure that no damage has occurred during transit and that no parts are missing. Also check the diameter of the pipe and the range marked on the coupling to ensure you have the proper size.

## Style FCA501 Flanged Coupling Adapter

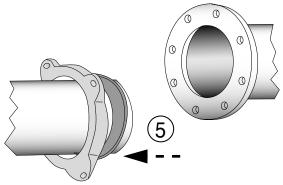
**Step 1** • Check the flanged coupling parts and confirm that no damage has occurred during transit and that no parts are missing.

**Step 2** • Clean pipe end for a distance of 2" greater than length of the coupling.

**Step 3** • Check area where gaskets will seat to make sure there are no dents, projections, gouges, etc., that will interfere with the gasket seal. Welds must be ground flush.

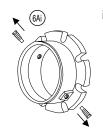


**Step 5** • Lubricate gaskets with a suitable gasket lubricant. Place gasket next to end ring with beveled edge toward the pipe end.

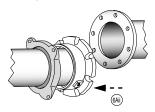


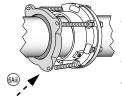
Note: Flanged Couplings without anchor pins do not provide protection against axial force. Suitable anchorage should be provided.

#### Step 6A · Flanged Couplings with Anchor Pins:



i. Remove anchor pins from the body of the coupling.





ii. Slide the flanged coupling body onto the pipe end.

iii. Position the flanged coupling against the mating flange. Assemble the flanged joint using flange and through bolts. Insert the pipe the minimum amount as shown in Table 1 (below).

Table 1

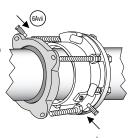
	MIN. PIPE INSERTION	
Pipe	Without	With
Size	Anchor Pins	Anchor Pins
3" to 8"	2"	3"
10" to 12"	3"	4"
16"	3"	NA

- iv. Thread a short pipe nipple into the threaded anchor pin hole. Using the largest drill bit that will fit into the pipe nipple, drill a center mark on the pipe. Do not drill through.
- v. Drill a 5/16" hole through the center mark made in step iv.
- vi. Remove the pipe nipple, and complete the hole through the pipe (see Table 2 for the hole size). Use care so as not to damage the threads.

Table 2

Pin Size	Thread	Hole Size
	Size	for Pipe
1/2"	3/8" NPT	17/32"
<sup>5</sup> /8"	1/2" NPT	<sup>21</sup> / <sub>32</sub> "
<sup>7</sup> /8"	3/4" NPT	<sup>29</sup> / <sub>32</sub> "

vii. Install the anchor pins. Apply a suitable thread sealant and tighten to prevent leakage.



Installation Instructions continued on back



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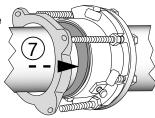
# Style FCA501

(continued from front)

#### **Step 6B** • Flanged Couplings without Anchor Pins:

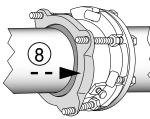
Slide the flanged coupling assembly onto the pipe. Position the the pipe and flanged coupling against the mating flange. Assemble the flange joint using flange bolts.

Step 7 • The pipe should be centered such that the space between the OD of the pipe and the ID of the FCA body is even all around the pipe. Slide flanged coupling gasket into position with the beveled edge



engaging the beveled end of the flanged coupling body.

**Step 8** • Slide end ring into position (engaging the through bolts) against the gasket.



**Step 9** • Bolt tightening should be done evenly, alternating to diametrically opposite positions at approximately 20 ft-lbs. increments to bring bolts to recommended tightness.



60 - 70 FT-LBS



16"

Wait 10 minutes and retighten to account for settling of the gasket.

235 - 245 FT-LBS

**Step 10** • Confirm proper installation by pressurizing the line and checking for leaks.

### **PRECAUTIONS**

- Check diameter of pipe to make sure you are using the correct size coupling; also check gasket to make sure it is the size you think it is.
- Clean pipe to remove dirt and corrosion from pipe surface. Lubrication and additional cleaning should be provided by brushing both the gasket and plain pipe end with soapy water or approved pipe lubricant per ANSI/AWWA C111/A21.11.
- 3. Make sure no foreign materials lodge between gasket and pipe.
- 4. Avoid loose fitting wrenches, or wrenches too short to achieve proper torque.
- 5. Keep threads free of foreign material to allow proper tightening.
- 6. Take extra care to follow proper bolt tightening procedures and torque recommendations. Bolts are often not tightened enough when a torque wrench is not used.
- 7. Pressure test for leaks before backfilling.
- 8. Backfill and compact carefully around pipe and fittings.
- 9. When reinstalling parts with stainless steel hardware, there may be a loss in pressure holding ability due to worn or damaged threads during the original installation.

### COMMON INSTALLATION PROBLEMS

- 1. Bolts are not tightened to the proper torque.
- 2. Rocks or debris between pipe and gasket.
- 3. Dirt on threads of bolts or nuts.
- 4. Not enough pipe insertion when installing anchor pins.