

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. Check the diameter of the pipe and confirm you have the proper size end cap.

Style Alpha End Cap™

Wide Range End Cap for 4" & 6" Pipe Sizes

ALPHA IS APPROVED FOR USE ON:

- ✓ Ductile Iron
 - ✓ Cast Iron (Classes A, B, C and D)
Provided it conforms to diameter and roundness spec.
 - ✓ PVC, IPS size (Sch 40, Sch 80 and SDR 21)
 - ✓ PVC, C900
 - ✓ PVC, C909 (MWCO)
 - ✓ HDPE: SDR 9, 11, 13.5 and 17. No stiffeners required.
See HDPE pipe precautions on reverse.
 - ✓ HDPE: For SDRs greater than 17, pipe stiffeners are required. See HDPE pipe precautions on reverse.
- For other SDR's and pipe materials contact Romac.

ALPHA RANGES

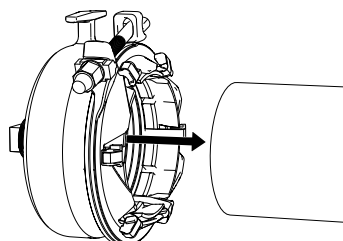
STANDARD ALPHA: For IPS through DI pipe diameters.

ALPHA XL: For DI through Oversize Cast pipe diameters.

SIZE	STANDARD ALPHA	ALPHA XL
4"	4.50 - 4.90	4.80 - 5.10
6"	6.60 - 7.00	6.90 - 7.20

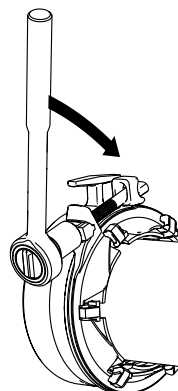
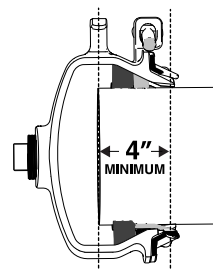
Step 1 • Remove any scale or debris that could interfere with gripper engagement of the pipe. Clean the pipe surface wherever the gaskets will come in contact with the pipe, and check to see that the pipe surface is smooth (no dents, projections, gouges, etc.) where the gaskets seal against the pipe.

Step 2 • Lubricate the gasket and pipe surface with a suitable gasket lubricant.



Step 3 • With the bolt in the extended position, place the end cap onto the pipe end until the pipe makes contact with the inside of the end cap.

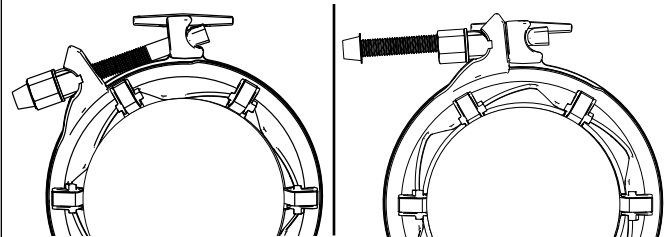
Note: If it's impossible to bottom-out the pipe, ensure there is a minimum of 4" of pipe insertion.



Step 4 • Tighten the nut until the gasket contacts the pipe and the end cap is snugly held in place. With the end cap properly located, tighten the nut to 20 ft-lbs. Do not overtighten.

20 ft-lbs.
DO NOT OVERTIGHTEN

For installations on pipe at the bottom of the range, it is common for the bolt receivers to meet.



Step 6 • Confirm proper installation by pressurizing the line and checking for leaks.



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PRECAUTIONS

1. Check diameter of pipe to make sure the correct sized coupling has been selected.
2. Confirm the pipe is round. The coupling may not fit or function on pipe that is too far out of round.
3. Clean pipe to remove dirt and corrosion from pipe surface. Use appropriate scale removal tools where appropriate to assure all scale and debris is properly removed.
4. 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.
5. Make sure no foreign materials lodge between gasket and pipe, between the grippers or in the end ring mechanism.
6. Avoid loose fitting wrenches, or wrenches too short to achieve proper torque.
7. Keep threads free of foreign material to allow proper tightening.
8. Take care to follow proper bolt tightening procedures and torque recommendations. Bolts are often not tightened properly when a torque wrench is not used. Do not over torque.
9. For cold weather conditions (below 40° F), performance can be improved by warming up the coupling and gasket.
10. Verify that the grippers are in contact with the pipe surface.
11. Pressure test for leaks before backfilling.
12. Backfill and compact carefully around pipe and fittings.
13. Do not strike or pry on the coupling with hammers, shovels or other equipment.
14. When reinstalling, be sure to inspect all parts for damage and apply additional lubricant to the fasteners.
15. If it's necessary to remove Alpha, gently tap on end-ring strike flat while loosening bolt.

REUSE

1. When reinstalling, be sure to inspect all parts for damage. The gasket should be free of rips, tears, or permanent deformation. Draw hooks should not be deformed, and gripper teeth should be sharp and undamaged. Romac recommends no more than five installs.

PRECAUTIONS FOR HDPE PIPE

1. Alpha working pressure not to exceed pressure rating of pipe.
2. Operating temperatures are limited to 85° F maximum and 32° F minimum.
3. Recommended for buried applications only. For above ground use, contact Romac Engineering.

COMMON INSTALLATION PROBLEMS

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| 1. Pipe not inserted into the end cap far enough. | 3. Damage to the outer pipe surface (dents, projections, gouges, etc.) |
| 2. Too much pipe deflection. | 4. Bolt not tightened to proper torque. |