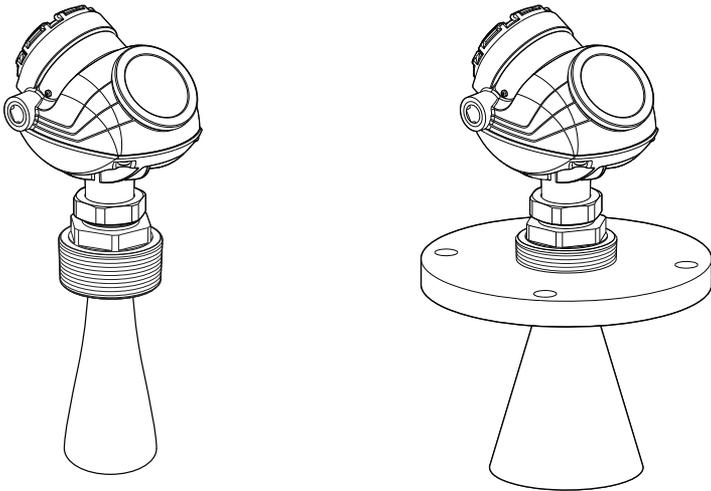


Rosemount® 5400 Series

Cone Antenna with Threaded Connection



WARNING

Failure to follow safe installation and service guidelines could result in death or serious injury.

- Make sure the transmitter is installed by qualified personnel and in accordance with applicable code of practice.
- Use the equipment only as specified in the relevant Quick Start Guide (document number 00825-0100-4026) and Reference Manual (document number 00809-0100-4026). Failure to do so may impair the protection provided by the equipment.

Explosions could result in death or serious injury.

- Verify that the operating environment of the transmitter is consistent with the appropriate hazardous locations specifications.
- To prevent ignition of flammable or combustible atmospheres, disconnect power before servicing.
- Before connecting a Field Communicator in an explosive atmosphere, make sure the instruments in the loop are installed in accordance with intrinsically safe or non-incendive field wiring practices.

Electrical shock can result in death or serious injury.

- Avoid contact with the leads and terminals. High voltage that may be present on leads can cause electrical shock.
- Make sure the main power to the Rosemount 5400 Series Transmitter is off and the lines to any other external power source are disconnected or not powered while wiring the transmitter.

Process leaks could result in death or serious injury.

- Make sure that the transmitter is handled carefully. If the process seal is damaged, gas might escape from the tank if the transmitter head is removed from the antenna.
- To avoid process leaks, only use O-rings designed to seal with the corresponding flange adapter.

Note

Be careful of sharp edges. Wear protective gloves!

Required equipment



Standard tools, e.g. screwdriver, wrench, pliers



Gasket (for flanged connection)



Allen key (supplied)



Customer supplied flange (for flanged connection)

2" - 11.5 NPT
3" - 8 NPT
4" - 8 NPT



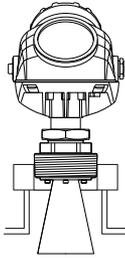
Anti-seize paste or PTFE tape

Contents

Required equipment	2	Mounting on threaded tank connection	4
Installation procedure	3	Mounting on customer supplied flange	6

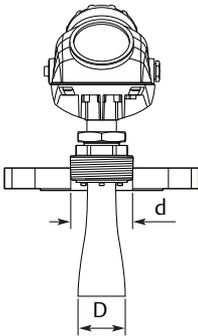
Installation procedure

Threaded tank connection



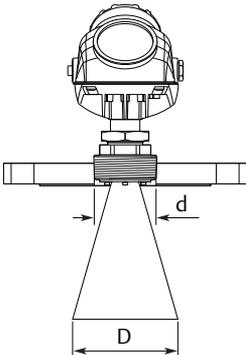
Tank connection with customer supplied flange

Antenna diameter (D) ≤ Flange hole diameter (d)



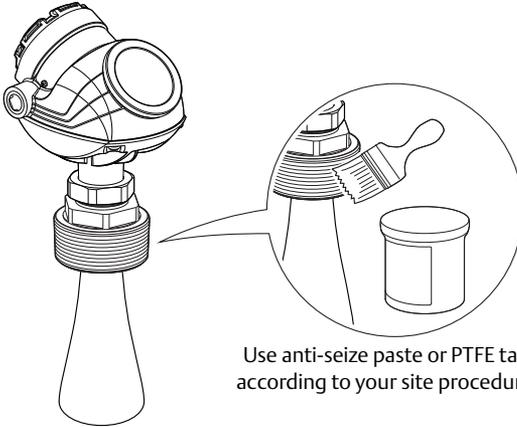
Antenna diameter (D) > Flange hole diameter (d)

Antenna is shipped unmounted for field installation.

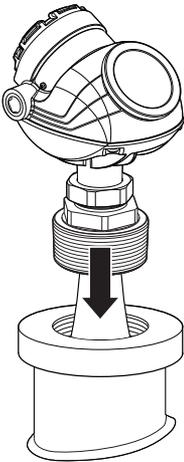


Mounting on threaded tank connection

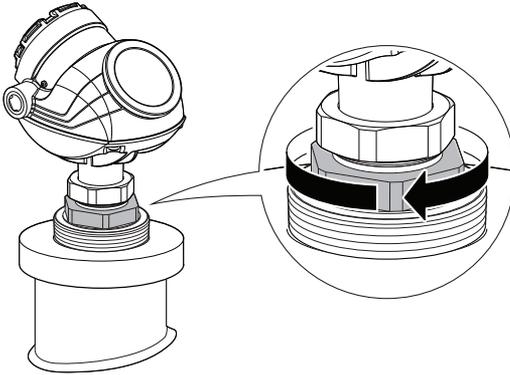
1. Seal and protect threads.



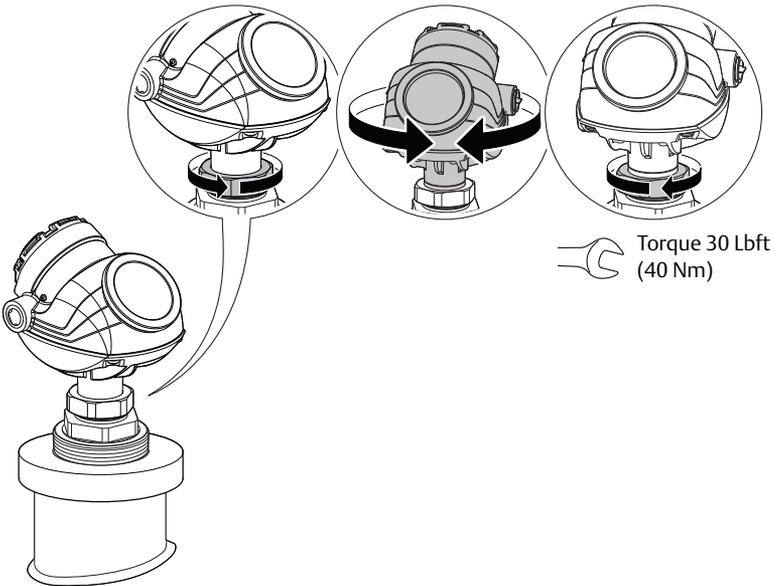
2. Lower the device into the tank.



3. Screw the adapter into the process connection.



4. Rotate the transmitter head so the cable entries/display face the desired direction.

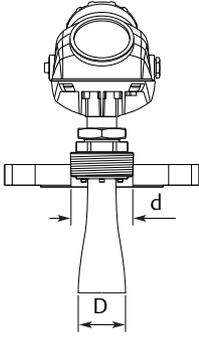


5. Proceed with electrical installation.

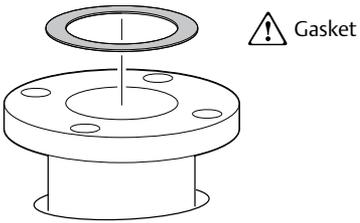
For further instructions, see the Rosemount 5400 Series Quick Start Guide (document number 00825-0100-4026).

Mounting on customer supplied flange

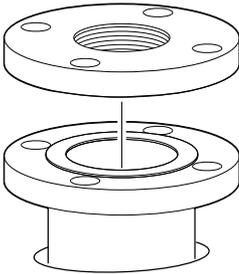
Antenna diameter (D) \leq Flange hole diameter (d)



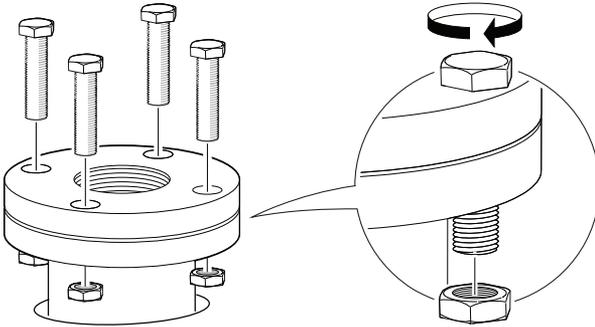
1. Place a gasket on the tank flange.



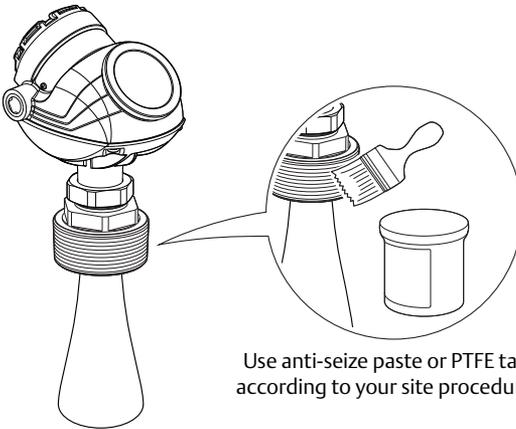
2. Place the customer supplied flange over the gasket.



3. Tighten the bolts and nuts with sufficient torque for the flange and gasket choice.

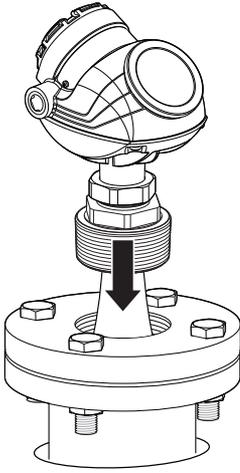


4. Seal and protect threads.

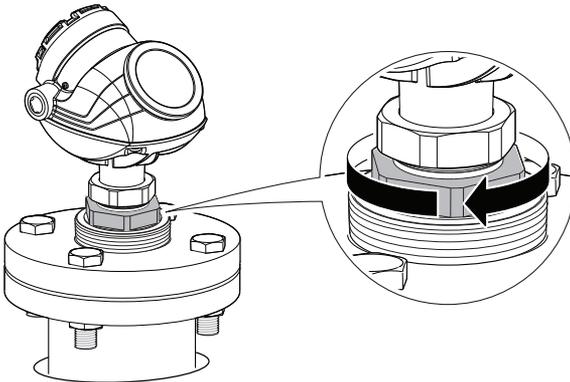


Use anti-seize paste or PTFE tape according to your site procedures.

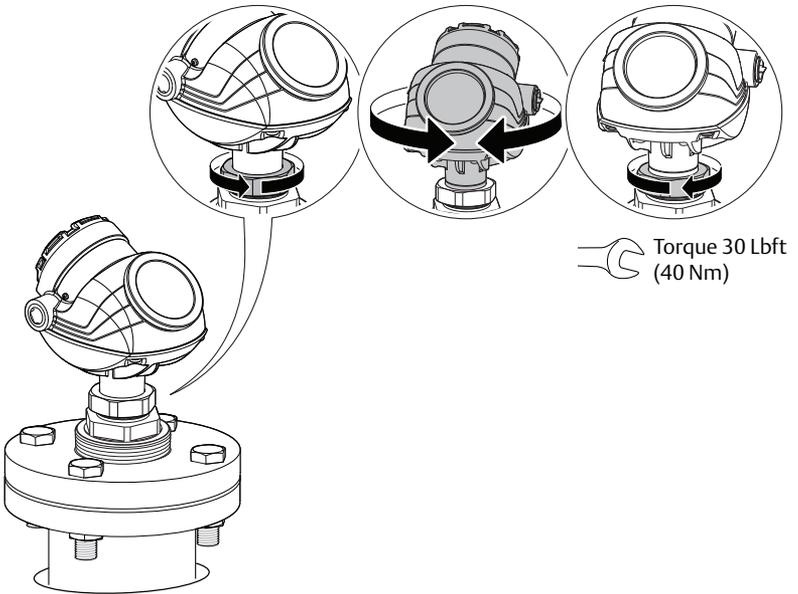
5. Lower the device into the tank.



6. Screw the adapter into the process connection.



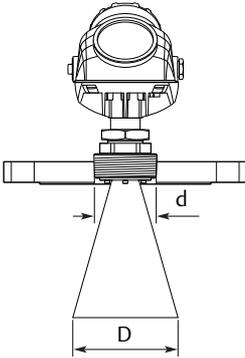
7. Rotate the transmitter head so the cable entries/display face the desired direction.



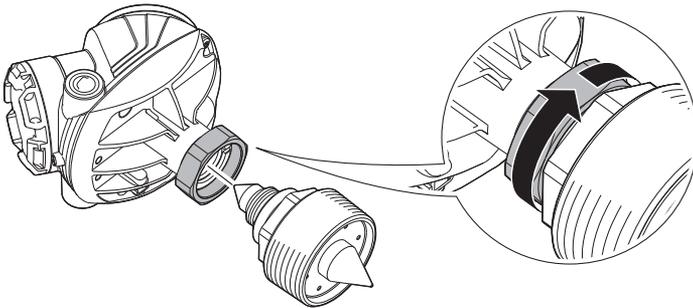
8. Proceed with electrical installation.

For further instructions, see the Rosemount 5400 Series Quick Start Guide (document number 00825-0100-4026).

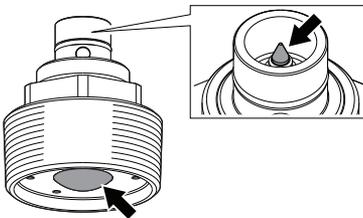
Antenna diameter (D) > Flange hole diameter (d)



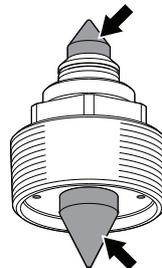
1. Place the device on a workbench.
2. Carefully remove the transmitter head.

**Note**

Handle the adapter carefully to prevent damage to the PTFE seal.



High frequency version

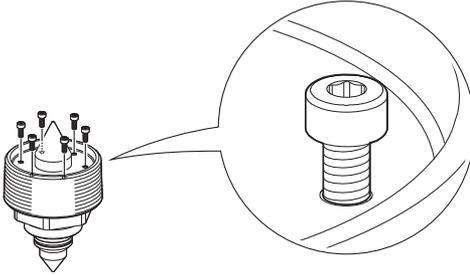


Low frequency version

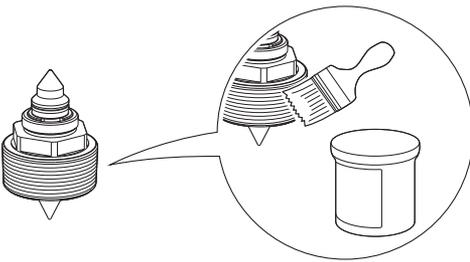
3. Insert the six M4 screws and tighten them two to three turns.

Note

After pre-mounting the screws, make sure to finish the installation procedure immediately. The screws come with pre-applied threadlocker, designed for permanent locking.

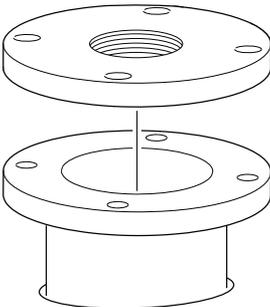


4. Seal and protect threads.

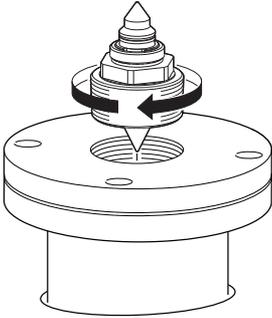


Use anti-seize paste or PTFE tape according to your site procedures.

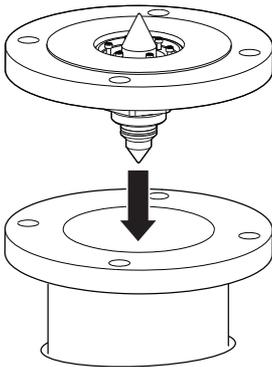
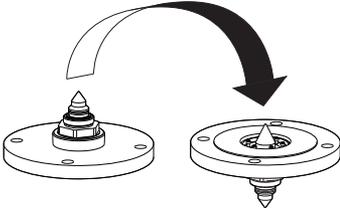
5. Place the customer supplied flange on the tank flange.



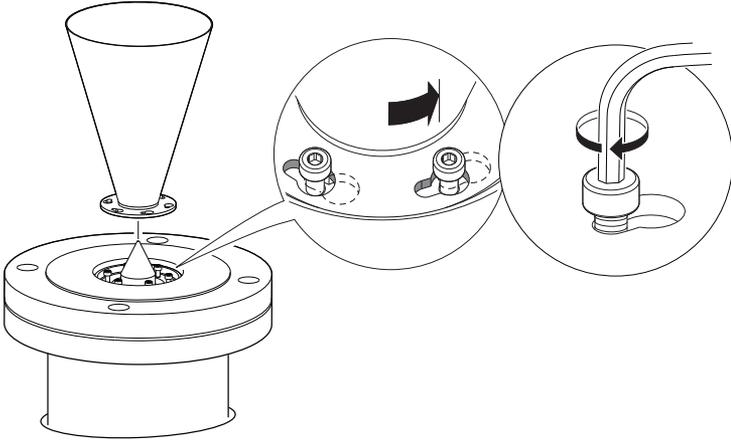
6. Tighten the adapter by hand.



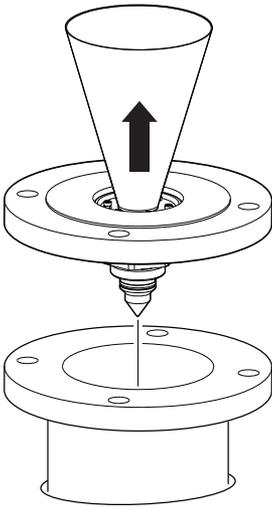
7. Flip the flange over.



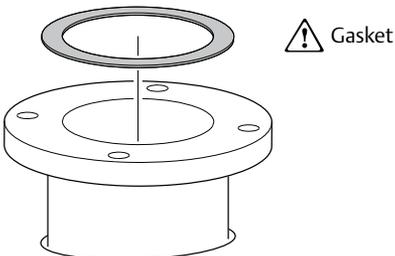
8. Fit the antenna onto the adapter and tighten the six M4 screws.



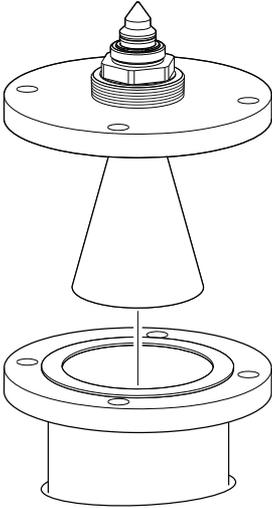
9. Carefully lift the antenna and flange assembly.



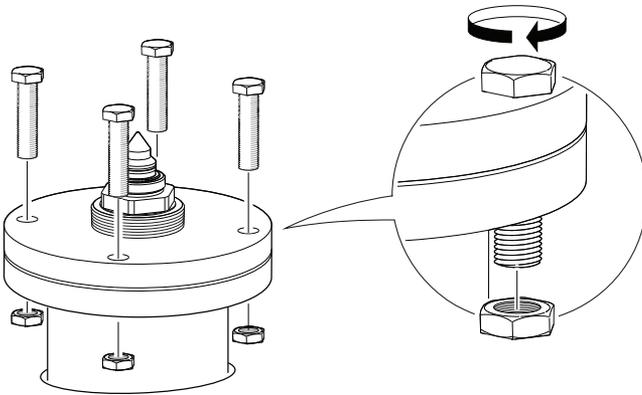
10. Place a gasket on the tank flange.



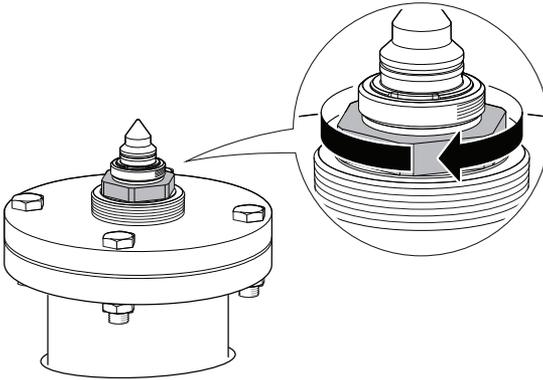
11. Lower the antenna and flange assembly into the tank.



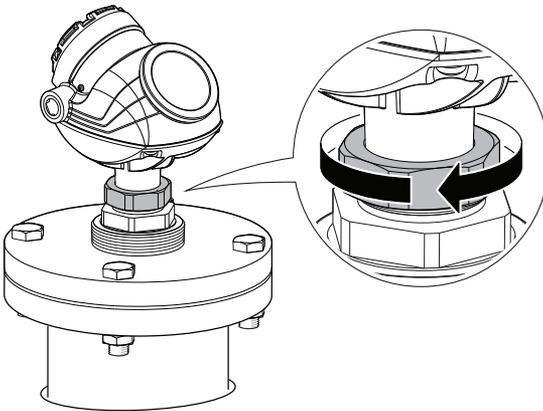
12. Tighten the bolts and nuts with sufficient torque for the flange and gasket choice.



13. Screw the adapter until it is properly tightened.



14. Mount the transmitter head and tighten the nut (torque 30 Lbft, 40 Nm).



15. Proceed with electrical installation.

For further instructions, see the Rosemount 5400 Series Quick Start Guide (document number 00825-0100-4026).



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