Quick Start Guide
00825-0100-4104, Rev 02
August 2020

Rosemount™ Hygienic Process Connection Adapter

Weld-in Adapter



ROSEMOUNT™

EMERSON.

1 About this guide

This guide provides instructions for installing the Rosemount 326, 327, and 1408 transmitters with G1 process connectors using a weld-in adapter (part number FB-1041).

1.1 Safety instructions

Follow these guidelines to ensure safe use and extend the life of the product.

⚠ CAUTION

- Read this document before using the product and keep it during the entire service life.
- The product must be suitable for the corresponding applications and environmental conditions without any restrictions.
- Only use the product for its intended purpose.
- If the operating instructions or the technical data are not adhered to, personal injury and/or damage to property might occur.
- The manufacturer assumes no liability or warranty for any consequences caused by tampering with the product or incorrect use by the operator.
- Installation, electrical connection, set-up, operation and maintenance of the product must be carried out by qualified personnel.

1.2 Hygienic adapter O-ring

The adapter comes with an EPDM O-ring. More O-rings are available as accessories. See each product's Product Data Sheet for more information.

2 Install the weld-in adapter

Use the weld-in adapter to install transmitters with G1 process connections to containers or pipes.

Prerequisites

After welding, allow the adapter to cool before installing. Do not weld the adapter to the container or pipe with the transmitter connected.

Procedure

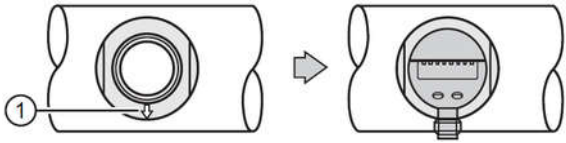
1. Bore a hole that has the outside diameter of the adapter in the pipe or container wall.

   Maximum oversize: 0.008 in (0.2 mm)

2. Weld the adapter.

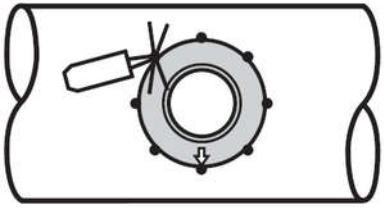
   Note
   While welding, prevent the adapter from warping.

   a) Turn the marking (1) (marking may vary) to the position shown below for the display of the screwed transmitter.



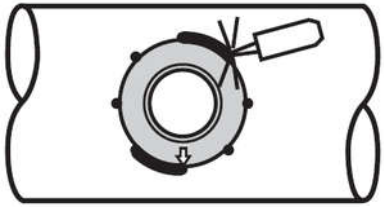
b) Fix the adapter in several spots with a sufficient adhesive force.

Apply the fixing points at equal distances opposite each other.



c) Apply the welding seams between the fixing points opposite each other.

Ensure sufficient and even distance between the individual sections to avoid glowing through or warping of the adapter caused by overheating.



3. Allow the adapter to cool.
4. If used, remove the welding mandrel.
5. Remove deposits from the thread.

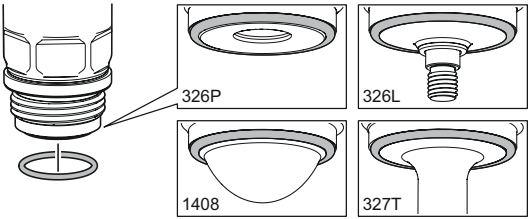
3 Mount the transmitter

Follow these steps to mount the transmitter to a container or pipe using the weld-in adapter.

Procedure

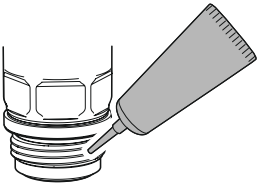
1. Remove the transmitter from the protective packaging.
2. If needed, clean the sealing areas.
3. Place the O-ring in the groove of the transmitter.

Note
Be careful not to scratch or damage the surfaces of the transmitter.



4. Grease the transmitter thread with lubricating paste.

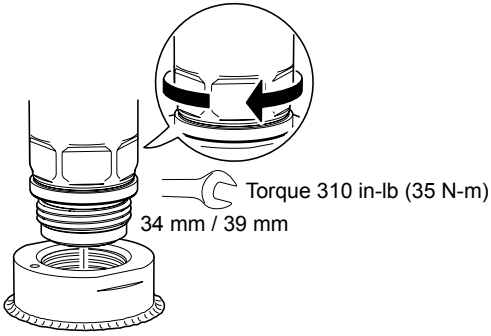
Note
The paste must be approved for the application and compatible with the elastomers used.



5. Tighten the transmitter to the recommended torque.

Note

Over tightening the transmitter can impair the seal. If the sealing areas are damaged, replace the O-ring or the entire process connector.



4 Product certifications

4.1 3-A® certification

This product is authorized to display the 3-A symbol. Ensure gaskets and process connection accessories selected for installation meet both the application and 3-A requirements. A certificate of compliance is available at Emerson.com/Rosemount.

4.2 Other industry certifications

All connector surfaces and materials which come into contact with process medium comply with the following regulations:

- (EC) No. 1935/2004
- (EC) No. 2023/2006
- CFR Title 21 (FDA) § 177.2600
- CFR Title 21 (FDA) § 177. 2415

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