

IGT - Intelligent Gasket Tagging

- Available for ISOTEK Products using smart phone QR Reader or handheld RFID Reader
- Know what's in your flange, prior to opening.
- Onsite inspectors can verify correct specified product.
- Screen shot information and email to Lamons engineering to assist with purchasing or trouble shooting.



What is in your flange? A question that occurs on a regular basis in the field among installers, engineers and onsite inspectors. Lamons is now offering IGT (Intelligent Gasket Tagging) using RFID technology. Radio-frequency identification (RFID) is wireless technology using electromagnetic fields to transfer data, for the purposes of automatically identifying and tracking tags attached to objects. The tags contain electronically stored information and can be read by using a handheld RFID reader or smart phones using a printed QR code.



The Lamons IGT will be using UHF (Ultra High Frequency) technology, to enable users to read tags from a distance of 25 feet (860-960 MHz) using a handheld RFID reader, which is an advantage in a refinery environment. Tags will also be able to be read using QR readers from smart phones. Lamons will be writing useful information to assist with product trouble shooting, product re-ordering, and product verification installed in your flanged application.

Written IGT product information will vary depending on the Lamons product being purchased. Review the product offering below and the standard information that will be written/programmed to the tags.

IGT Benefits:

- No more measuring flanges in the field, on special applications.
- Know what's in your flange, prior to opening for maintenance.
- Installers can verify torque for routine maintenance.
- Onsite inspectors can verify correct specified product was used, after installation.
- Screen shot information and email to Lamons engineering to assist with purchasing or trouble shooting.
- Use as a training device for new installers.
- Intrinsically safe for refinery applications.

Lamons IGT Product Offering:

Lamons IGT must be requested by the customer upon order placement. Tags will only be sent with Lamons product unless they are ordered.

- ISOTEK Product – IsoGuard™ DEFENDER™ and DEFENDER™ FS sealing/isolation gaskets and flange isolation kits.

Note: This is the current product offering. Offering will continue to grow, where demand is deemed needed.

ISOTEK standard programmed information.

- Lamons Company Name
- Order Number
- Part Number
- Date of Manufacturing
- Suggested Torque Value



Material Property Information:

<u>ISOTEK Item</u>	<u>Atmospheric Temperature Rating</u>
IGT	-40°F (-40°C) to +158°F (+70°C)
GRE Tag Washer - .032" (0.812mm)	-100°F (-73°C) to +392°F (+200°C)
Tie Wraps	-40°F (-40°C) to +180°F (+82°C)

Note: All items are U.V. Resistant.

ISOTEK IGT Components

The following will be kitted in a bag when IGT tagging is requested.

<u>Item</u>	<u>Quantity</u>
IGT	1
Tie Wraps – 12"	2
IGT Washer	1

IGT Customization

End users, operators and distributors have the ability to have Lamons IGT customized, written with specific information they see fit for applications. The Lamons name and the part number will still be required on the tag. The field to write customized information is limited to 48 characters. Consult with Lamons engineering for additional information.

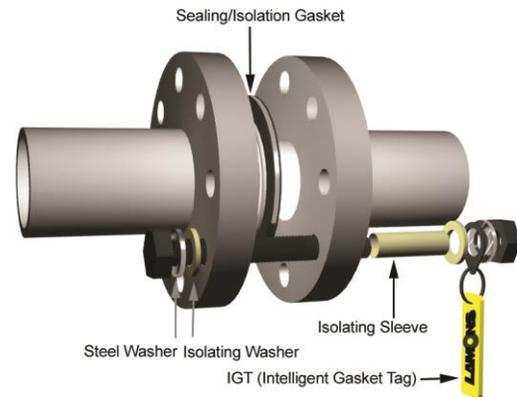
Specification: Update current sealing/isolation gasket and flange isolation kits specifications to include IGT tags.

Intelligent Tagging

Each Gasket or Flange Isolation Kit is to be packaged with Intelligent Gasket Tags (IGT). Tags are to include part number, order number, manufacturing date and torque value. IGT tags to be written (coded) for smart phones QR Readers.

Basic Installation – Isolation Kits:

1. Insert UV resistant tie wrap through IGT Tag and Retainer Washer. Engage tie wrap to desired length.
2. Select the most convenient flange side and bolt location to install tag for easy access in future.
3. Place IGT Washer between 1/8" thick retainer washers and 1/8" steel back-up washer. If Gasket only Installation, tighten against steel back up washer. Proceed with the provided installation instructions.



Note: Lamons does not provide handheld RFID readers or smart phones. When sourcing handheld readers, make sure readers are certified to be intrinsically safe. Smart phone intrinsically safe cases are available and are suggested for use when required by end user operation guidelines.



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