



Certificate

for Radiation Device

Certificate Number R-094-0104-5-2030	Date of Issue November 22, 2017	Date of Expiry February 28, 2030
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The radiation device identified below is certified by the Canadian Nuclear Safety Commission pursuant to paragraph 21(1)(h) of the *Nuclear Safety and Control Act* and section 12 of the *Nuclear Substances and Radiation Devices Regulations*.

Manufacturer: Endress+Hauser GmbH+Co. KG

Make and Model: Endress+Hauser FQG61 and QG020 Source Containers

Prev. Mfr. Name:

Device Type: FIXED GAUGE

Description: The FQG61 series source containers have a spherical steel encased lead shield with a mounting flange on one side and a means of actuating the source holder at the opposite side. Provision is made for handling via a lifting ring attached either directly to the spherical shield or to the expansion chamber found on the "fireproof" version. The device is turned "on" or "off" by rotating the source holder 180 degrees either manually or pneumatically depending on the configuration. All device configurations can be locked in the indicated "off" position using either the keyed cylinder lock in the standard version or a padlock in the other versions. Radiation for measurements is emitted from a narrow slot in the lead shield at the flanged side. The angle of the slot can vary from 5 to 40 degrees depending on the emission angle ordered.


The FQG61 series source containers are basically identical to corresponding QG020 series source containers, except for the addition of a "fireproof" option. All new construction is identified as "FQG61 - order code". The name plate on older QG020 series units remains unchanged. The "order code" identifies details such as the method of actuation, source type and activity, emission angle, fire resistance feature etc., and is explained in the "Technical Information/Operating Instructions" manual.

The overall dimensions of the FQG61 are 251mm to 305mm x 220mm x 279mm to 427mm and it weighs between 40kgs and 50kgs depending on the configuration.

Refer to Summary Evaluation for additional information. (CNSC Document Number 5371118)

The radiation device may contain any of the following nuclear substances in a quantity not exceeding the corresponding quantity indicated:

Nuclear Substance	Maximum Quantity
Cobalt 60	740 MBq
Cesium 137	22200 MBq



Designated Officer pursuant to paragraph 37(2)(a) of the
Nuclear Safety and Control Act
Canadian Nuclear Safety Commission / Commission canadienne de sûreté nucléaire

