Application Area

The SHGL source holder is designed for radiation-based measurement of density, continuous and point level, and weight applications. The most common industries for the SHLG include:

- Mining
- Pulp and Paper
- Refining

Advantages

Recognizable benefits include:

- Low activity source holder
- Wide range of collimation angles
- Solid stainless steel housing
- Light weight and low profile
- No shutter checks or factory start-ups.

Function

The SHGL source holder is a component of a density, level, or weight measurement system. The source holders are gamma radiation devices secured in a fixed position near a vessel or pipe and are responsible for directing radiation through the process material.

Technical Data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Cs-137 Activity</td>
<td>74 MBq (2 mCi) for 50 uSv@305 mm (5 mR/hr@12&quot;)</td>
</tr>
<tr>
<td>Maximum Cobalt-60 Activity</td>
<td>18.5 MBq (0.5 mCi) for 50 uSv@305 mm (5 mR/hr@12&quot;)</td>
</tr>
<tr>
<td>Fire Resistance</td>
<td>800 °C for 20 minutes (1472 °F for 20 minutes)</td>
</tr>
<tr>
<td>Collimation Angle</td>
<td>5°, 10°, 30°</td>
</tr>
<tr>
<td>Temperature</td>
<td>-40 ... +60 °C (-40 … +140 °F)</td>
</tr>
<tr>
<td>Weight</td>
<td>2.7 kg (6 lbs.)</td>
</tr>
</tbody>
</table>

Materials

The shielding material is stainless steel.

Housing Versions

The housing is 316 stainless steel.

Approvals

The source holders are regulated by the U.S. Nuclear Regulatory Commission (NRC). Compliance certificates are issued by the State of Ohio under an agreement with the NRC.

Operation

The SHGL source holders is used to position and protect a radioactive source near a process vessel or pipe. Radiation from the source is directed through the process by an integral collimator. A radiation detector placed opposite the source holder measures radiation fluctuations caused by process condition changes. The detector correlates radiation levels to process conditions.
You can find additional information about VEGA product offerings from our home page, www.vega-americas.com. Brochures, operating instructions, quick reference guides, specification sheets, and drawings are also available from the Downloads section of our homepage.

**Device Selection**

The Downloads section of our home page, www.vega-americas.com provides application data sheets so you can select the measuring principle or product for your particular application.

**Contact**

Please call 1-513-272-0131, Monday through Friday, 8:00 A.M.-5:00 P.M., EST (Eastern Standard Time) if you have any questions. For emergencies after hours, call the number above and follow the voice mail instructions.

*All information is subject to change without notice.*