**Application Area**

The SHLD 2 sourceholder is designed for radiation-based measurement of applications including density, weight, and continuous and point level. The most common industries for the SHLD 2 include:

- Offshore
- Petrochemical
- Waste and Wastewater
- Pulp and Paper
- Plastics
- Power
- Cement
- Asphalt
- Chemical
- Mining

**Advantages**

Recognizable benefits include:

- Rotary shutter mechanism
- Wide range of collimation angles
- Carbon steel with polyester powder coated housing
- Wide range of accessories
- Stainless steel housing (optional)

**Technical Data**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Cs-137 Activity</td>
<td>185 GBq (5000 mCi) for 50 μSv@305 mm (5 mR/hr@12”)</td>
</tr>
<tr>
<td>Fire Resistance</td>
<td>+538 °C for 5 minutes (+1000 °F for 5 minutes)</td>
</tr>
<tr>
<td>Shielding Material</td>
<td>Lead</td>
</tr>
<tr>
<td>Handle/Shutter</td>
<td>Rotary</td>
</tr>
<tr>
<td>Colimation Angle</td>
<td>0°, 15°, 30°, 45°, 60°</td>
</tr>
<tr>
<td>Housing Material</td>
<td>Carbon Steel with Polyester Powder Coating 316 Stainless Steel (optional)</td>
</tr>
<tr>
<td>Temperature</td>
<td>-50 ... +105 °C (-58 ... +221 °F)</td>
</tr>
<tr>
<td>Weight</td>
<td>98 kg (216 lbs.)</td>
</tr>
<tr>
<td>Accessories</td>
<td>Interlock</td>
</tr>
<tr>
<td></td>
<td>Shutter Actuator</td>
</tr>
<tr>
<td></td>
<td>Captive Lock and Lanyard</td>
</tr>
<tr>
<td></td>
<td>Shutter Micro Limit Switch</td>
</tr>
</tbody>
</table>

**Materials**

The shielding material is lead.

**Housing Versions**

The housing is available in low carbon steel with polyester powder coating or an optional 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 SHLD 2 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 such as level and density.
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.

Information

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.