**1801.1**

**InertoSafe® PL d**

- PL d- verified according to EN ISO 13849-1
- Validation according to EN ISO 13849-2
- ATEX-certified components
- Suitable for flow or displacement method for centrifuge, container filling points, leach vessel and BigBag
- DCS independent inertisation system with integrated logic
- Low maintenance

**Key functions**

The InertoSafe® PL d inertisation system provides a safe and inert environment inside all homogeneous vessels. The control system runs a self-test with every start-up to ensure the functionality of the inertisation system. After the purge process (displacement of the oxygenated atmosphere) the inertisation changes to the pressure conservation mode. To guarantee the highest possible safety, the pressure controller maintains a slight overpressure in the vessel. Leakage losses are compensated automatically. The components used are failsafe and virtually maintenance free.

To eliminate risk of explosions within inert vessels applications often demand increased safety measures for the entire system. InertoSafe® PL d is verified according to EN ISO 13849-1 and validated according to EN ISO 13849-2. It provides a highly integrated and failsafe system which is integrated in the centrifuge control system.

**Options:**

- Inertisation of several vessels
- Purge process with an integrated O₂ measurement to reduce purge time and N₂ requirement
- Purge process with a 2nd valve (higher pressure and flow) to reduce purge time
- Integrated overpressure protection with vent valve
- Control and evaluation by the DCS via Field Bus (PROFINET, Profinbus DP, EtherNet/IP with TCP/IP or Modbus)
- InertoSafe® PL d as standalone application (independent of the centrifuge control system)
- Vacuum or pressure relief method
Technical data

**InertoSafe® PL d system**

<table>
<thead>
<tr>
<th>Approvals</th>
<th>Purge panel</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL d verified acc. to EN ISO 13849-1</td>
<td>Material</td>
</tr>
<tr>
<td>Validated acc. to EN ISO 13849-2</td>
<td>Stainless steel</td>
</tr>
<tr>
<td>ATEX certificates for components</td>
<td>Dimensions (W x H x D)</td>
</tr>
<tr>
<td>UL certificates for components</td>
<td>500 x 500 x 300 mm</td>
</tr>
<tr>
<td></td>
<td>ATEX approvals</td>
</tr>
<tr>
<td></td>
<td>Zone 1</td>
</tr>
<tr>
<td></td>
<td>Weight</td>
</tr>
<tr>
<td></td>
<td>approx. 18 kg</td>
</tr>
</tbody>
</table>

**Control system**
independent part of the centrifuge control system

Configuration

The InertoSafe® PL d system includes:

- **A** Purge panel in stainless steel for installation in a hazardous area
- **B** Control system, part of the centrifuge control system
- **C** Flow meter
- **D** Pressure transmitter
- **E** Operator manual and certificates

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