## 1.0 General Data

<table>
<thead>
<tr>
<th>1.1 Manufacturer</th>
<th>Dräger Safety AG &amp; Co. KGaA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2 Designation</td>
<td>Dräger X-plore® 3300 Half Mask Respirator</td>
</tr>
<tr>
<td>1.3 Dräger Part Number</td>
<td>S: R 55 331</td>
</tr>
<tr>
<td>EAN Code</td>
<td>4026056001095</td>
</tr>
</tbody>
</table>

**1.4 Intended Use**

Respirator for protection against particulates, gases and vapors in conjunction with suitable respiratory filters. The scope is limited by the product documentation, technical standards, installed application rules and choice of respiratory filters.

**1.5 Relevant Standards**

- EN 140:1998
- Federal register 42 CFR part 84(1)
- AS/NZS 1716:2003
- GOST R 12.4.190-99
- DEKRA EXAM GmbH
- National Institute for Occupational Safety and Health (NIOSH)
- SAI Global Assurance Services Ltd
- Winterhill House
- Milton Keynes MK6 1AX
- United Kingdom
- VNIIS, JSC
- 3/10, Electrichesky Ln.
- Bld. 1
- Moscow 123557
- Russia

**1.6 Certification Body**

- DEKRA EXAM GmbH
  - Dinnendahlstr. 9
  - 44809 Bochum
  - Germany
  - Reference number: CE 0158

- National Institute for Occupational Safety and Health (NIOSH)
  - 626 Cochrans Mill Road
  - Pittsburgh, PA 15236
  - USA

- SAI Global Assurance Services Ltd
  - Winterhill House
  - Snowdon Drive
  - Milton Keynes MK6 1AX
  - United Kingdom

- VNIIS, JSC
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## 2.0 Design & Construction

<table>
<thead>
<tr>
<th>2.1 Filter Connection</th>
<th>Dräger-specific bayonet connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.2 Material</td>
<td><strong>Mask Body:</strong> Thermoplastic Elastomer (TPE) and Polypropylene</td>
</tr>
<tr>
<td></td>
<td><strong>Mask Yoke:</strong> Polypropylene</td>
</tr>
<tr>
<td></td>
<td><strong>Head Cradle:</strong> Thermoplastic Elastomer (TPE) and Polypropylene</td>
</tr>
<tr>
<td></td>
<td><strong>Head Strap:</strong> Polyester / Elastodien / Cotton</td>
</tr>
<tr>
<td></td>
<td><strong>Inhalation Valves:</strong> Natural Rubber</td>
</tr>
<tr>
<td></td>
<td><strong>Exhalation Valve:</strong> Nitrile Rubber (NBR)</td>
</tr>
</tbody>
</table>

**2.3 Construction**

The X-plore® 3300 half mask consists of six main components: mask body, mask yoke, head cradle, head strap, exhalation valve and (2) inhalation valves. The mask body is constructed of a soft component and a hard component that is specially bonded to maintain its form. The mask yoke covers the front of the mask body and is a guide for the routing of the head strap. The head cradle utilizes a hard component for the head strap adjustment that specially bonded to a soft component that fits on crown of head. The inhalation valves are flat discs that only allows air into the mask and the exhalation valve is of a stepped design to apply even sealing pressure that only allows air to exit the mask.

**2.4 Working Principle**

The half face mask, in combination with two breathing filters, offers respiratory protection against potentially hazardous gases, vapors and/or particles. Scope and effectiveness of respiratory protection results from the combination of half mask with suitable and certified respiratory protective filters, along with following local regulations on use limitations.

The sealing line on the inside of the mask body conforms to the face of the wearer along the cheeks, over the nose and under the chin. A head harness with adjustable straps firmly holds the mask onto the face.

During inhalation, ambient air passes through the filters where it is "cleaned," and then into the mask. During exhalation, air passes through the exhalation valve only since the inhalation valves close. This prevents exhaled humidity from affecting the filters and reduces "dead space."

**2.5 Sizes**

Small, Medium and Large

**2.6 Service-Life**

Only certain components (e.g. exhalation valve) must be periodically replaced. See Instructions For Use for details. There are no time limitations on mask materials assuming proper storage, maintenance and cleaning as stated in IFU. Damage and wear are outside of this statement.

**2.7 Dimensions (approx.)**

- **Size:** Small
  - Height: 115mm
  - Width: 104mm
  - Depth: 72mm

- **Size:** Medium
  - Height: 128mm
  - Width: 103mm
  - Depth: 73mm

- **Size:** Large
  - Height: 139mm
  - Width: 109mm
  - Depth: 74mm

**2.8 Weight (approx.)**

S/M/L: 94g

## 3.0 Performance

<table>
<thead>
<tr>
<th>3.1 Inhalation Resistance</th>
<th>&lt; or = 0.5 mbar @ 30 l/min constant flow</th>
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</thead>
<tbody>
<tr>
<td>3.2 Exhalation Resistance</td>
<td>&lt; or = 3.0 mbar @ 160 l/min constant flow</td>
</tr>
<tr>
<td>3.3 Temperature Resistance</td>
<td>to EN 140 (pre-conditioned at +70°C and -30°C and then tested)</td>
</tr>
<tr>
<td>3.4 Flammability</td>
<td>to EN 140 (exposed to 800°C flame and must not burn for &gt; 5s after removed)</td>
</tr>
<tr>
<td>3.5 Speech Diaphragm</td>
<td>n/a</td>
</tr>
<tr>
<td>3.6 Inward Leakage</td>
<td>&lt; or = 2.0% average (to EN 140)</td>
</tr>
</tbody>
</table>
### 4.0 Documentation

| 4.1 Identification | - "S" or "M" or "L" on the mask body  
|                    | - "TPE" on inside of mask body  
|                    | - "Dräger X-plore 3300" on inside of mask body  
|                    | - CE marking on inside of mask body ("EN140:1998 CE 0158")  
|                    | - "Dräger" on mask yoke |

| 4.2 Instructions | Each unit contains an instruction booklet in the following languages:  
|                  | English, German, French, Spanish, Portuguese, Italian, Dutch, Norwegian, Swedish, Danish, Finnish, Greek, Turkish  
|                  | Additionally, a NIOSH version in English, French, Spanish |

### 5.0 Packaging

| 5.1 Packaging | Durable, color printed carton, marked with: features, application uses, manufacturer location, use warning and relevant approvals. The closing label includes the product number, name, EAN code, control number and manufacturing location.  

| 5.2 Packing Unit | 1 Half mask per box  
|                 | Kits are also available that include a mask with cartridges for certain applications |

### 6.0 User Notes

| 6.1 System Usability | Suitable with certified respiratory filters with Dräger-specific bayonet connection (series Dräger X-plore® bayonet) |

| 6.2 Limitations | This mask meets the minimum requirements according to specified standards (see label). It should be noted that laboratory test values may significantly differ from those that are achieved in practice. The user must read and understand all instructions for use. In addition, the knowledge of all relevant application rules is absolutely necessary (in particular the limits of use for masks and filter units). More information will be made available upon request. |

(1) In connection with approved respiratory filters (see Approval Label).