The function of the Aston Seals SMI wiper ring is to prevent introduction of dust, dirt and foreign matter into the system. This is achieved by a special wiper lip which produces a very effective cleaning action, prevents the development of scores, protects the guiding parts and extends the service life of the axial moving rod seals.

A flush fitting with the outside diameter of the metal cage prevents moisture from entering the groove.

The material used to produce the wiper element is a nitril rubber with hardness 90 °ShA that ensures a good wear-resistance in case of dry run and an extended service life.

- Easy construction housing
- Tight fit in the groove
- High speed allowed
- Good wear-resistance
- Extended service life
- Low cost solution
- Space-saving construction

**MATERIAL**

<table>
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<tr>
<th>Type</th>
<th>Nitril Rubber NBR</th>
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<tr>
<td>Designation</td>
<td>RUBSEAL 90</td>
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<tr>
<td>Hardness</td>
<td>90 °ShA</td>
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| Type | Not alloyed steel |

**FIELD OF APPLICATION**

<table>
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<tr>
<th>Speed</th>
<th>≤ 2 m/s</th>
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<tbody>
<tr>
<td>Temperature</td>
<td>-30°C ÷ +100°C</td>
</tr>
<tr>
<td>Fluids</td>
<td>Hydraulic oils (mineral oil based)</td>
</tr>
<tr>
<td>For other fluids contact our technical department</td>
<td></td>
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</table>

**SURFACE ROUGHNESS**

| Dynamic surface | Suitable for rod seal system |
| Static surface | Ra ≤ 1.6 μm |
|                 | Rt ≤ 6.3 μm |

**LEAD-IN CHAMFERS**

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<thead>
<tr>
<th>d</th>
<th>Smin</th>
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<tr>
<td>less 100</td>
<td>5 mm</td>
</tr>
<tr>
<td>100÷200</td>
<td>7 mm</td>
</tr>
<tr>
<td>over 200</td>
<td>10 mm</td>
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Pay attention to the groove “D” diameter because, if larger, the wiper could be ejected during work.

Any pressure loads on the back of the rings should be avoided.

Sharp edges and burrs within the installation area must be removed.

The above data are maximum values, they may be maintained for short periods and can not be used at the same time simultaneously.
<table>
<thead>
<tr>
<th>Part.</th>
<th>d₁D</th>
<th>Dₘₘ</th>
<th>Lₜₜ²</th>
<th>F</th>
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**Part.**

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**Part.**

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