



Image may differ from product. See technical specification for details.

## 70X90X7 HMSA10 RG1

**Radial shaft seal with rubber outside diameter and single sealing lip, for oil or grease**

Radial shaft seals are used between rotating and stationary machine components, or between components in relative motion. HMSA10 seals are designed with a rubber outside diameter. They have a conventional sealing lip made of elastomer. A garter spring in the seal and a non-contacting auxiliary lip optimize the sealing against the shaft also in polluted environment.

- High pumping rate
- Higher contamination exclusion with dust lip
- With garter spring
- Accommodate misalignment

Overview

Dimensions

|                       |       |
|-----------------------|-------|
| Shaft diameter        | 70 mm |
| Housing bore diameter | 90 mm |
| Seal width            | 7 mm  |

Performance

|                                   |             |
|-----------------------------------|-------------|
| Limiting speed                    | 2 520 r/min |
| Maximum operating temperature     | 100 °C      |
| Minimum operating temperature     | -40 °C      |
| Permissible circumferential speed | 9.2 m/s     |
| Rotational speed                  | 2 520 r/min |

Properties

|                          |                         |
|--------------------------|-------------------------|
| Design                   | HMSA10                  |
| Auxiliary lip            | Yes                     |
| Sealing lip material     | Nitrile rubber (NBR)    |
| Type of outside diameter | Rubber metal reinforced |
| Unit system              | Metric                  |

Logistics

|                    |             |
|--------------------|-------------|
| Product net weight | 0.0325 kg   |
| eClass code        | 23-07-08-01 |
| UNSPSC code        | 31181602    |

Technical specification

|                          |                         |
|--------------------------|-------------------------|
| Type of outside diameter | Rubber metal reinforced |
| Lip material             | Nitrile rubber (NBR)    |
| Seal design              | HMSA10                  |
| Compliance with standard | ISO 6194; DIN 3760      |



Dimensions

|       |       |                       |
|-------|-------|-----------------------|
| $d_1$ | 70 mm | Shaft diameter        |
| $D$   | 90 mm | Housing bore diameter |
| $b$   | 7 mm  | Seal width            |

Application and operating conditions

|                                      |              |
|--------------------------------------|--------------|
| Operating temperature                | min. -40 °C  |
| Operating temperature                | max. 100 °C  |
| Operating temperature, short periods | max. 120 °C  |
| Circumferential speed                | max. 9.2 m/s |

|                       |                        |
|-----------------------|------------------------|
| Rotational speed      | max. 2 520 r/min       |
| Pressure differential | 0.05 N/mm <sup>2</sup> |

Associated products

|                   |       |
|-------------------|-------|
| SKF Speedi-Sleeve | 99272 |
|-------------------|-------|

Compatible products

Recommended product

|                   |                       |
|-------------------|-----------------------|
| SKF Speedi-Sleeve | <a href="#">99272</a> |
|-------------------|-----------------------|



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