



## SKF 135X170X12 HMSA10 RG

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.

### Technical specifications

| General                              |                         |
|--------------------------------------|-------------------------|
| Type of outside diameter             | Rubber metal reinforced |
| Lip material                         | Nitrile rubber (NBR)    |
| Seal design                          | HMSA10                  |
| Compliance with standard             | ISO 6194; DIN 3760      |
| Dimensions                           |                         |
| Shaft diameter                       | 135 mm                  |
| Housing bore diameter                | 170 mm                  |
| Seal width                           | 12 mm                   |
| Application and operating conditions |                         |
| Operating temperature                | -40 °C                  |
| Operating temperature                | 100 °C                  |
| Operating temperature, short periods | 120 °C                  |
| Circumferential speed                | 11.9 m/s                |
| Rotational speed                     | 1680 r/min              |
| Pressure differential                | 0.05 N/mm <sup>2</sup>  |
| Associated products                  |                         |
| SKF Speedi-Sleeve                    | 99533                   |
| Performance                          |                         |
| Limiting speed                       | 1680 r/min              |
| Maximum operating temperature        | 100 °C                  |
| Minimum operating temperature        | -40 °C                  |
| Permissible circumferential speed    | 11.9 m/s                |
| Rotational speed                     | 1680 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                   | 0.143 kg                |
| eClass code                          | 23-07-08-01             |
| UNSPSC code                          | 31181602                |

**SKF drawings**