



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

## 190X220X15 HMS5 V

**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. HMS5 seals are designed with a rubber outside diameter. They have a conventional sealing lip made of elastomer with a garter spring to maintain the right radial load.

- High pumping rate
- With garter spring
- Accommodate misalignment

Overview

Dimensions

|                       |        |
|-----------------------|--------|
| Shaft diameter        | 190 mm |
| Housing bore diameter | 220 mm |
| Seal width            | 15 mm  |

Performance

|                                   |             |
|-----------------------------------|-------------|
| Limiting speed                    | 3 840 r/min |
| Maximum operating temperature     | 200 °C      |
| Minimum operating temperature     | -25 °C      |
| Permissible circumferential speed | 37.98 m/s   |
| Rotational speed                  | 3 840 r/min |

Properties

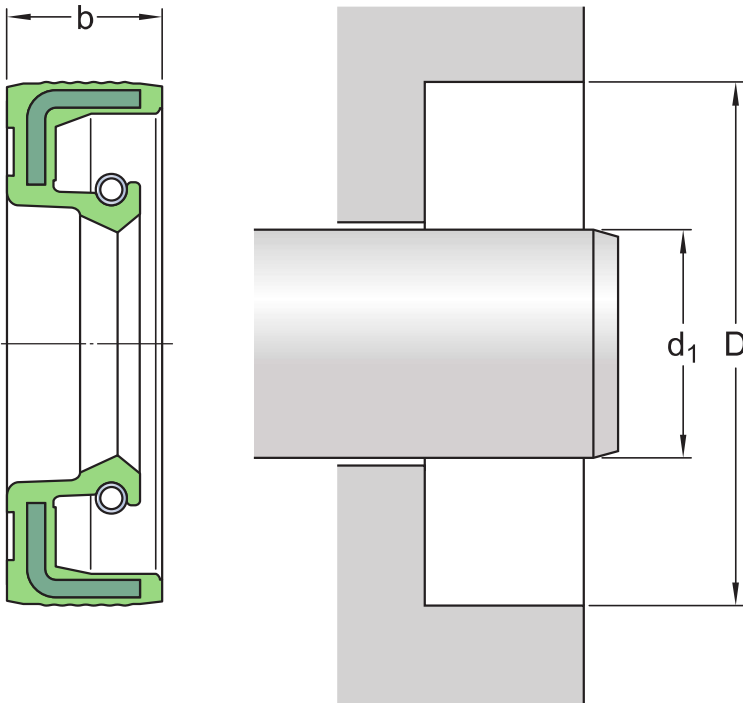
|                          |                         |
|--------------------------|-------------------------|
| Design                   | HMS5                    |
| Auxiliary lip            | No                      |
| Sealing lip material     | Fluoro rubber (FKM)     |
| Type of outside diameter | Rubber metal reinforced |
| Unit system              | Metric                  |

Logistics

|                    |             |
|--------------------|-------------|
| Product net weight | 0.264 kg    |
| eClass code        | 23-07-08-01 |
| UNSPSC code        | 31181602    |

Technical specification

|                          |                         |
|--------------------------|-------------------------|
| Type of outside diameter | Rubber metal reinforced |
| Lip material             | Fluoro rubber (FKM)     |
| Seal design              | HMS5                    |
| Compliance with standard | ISO 6194; DIN 3760      |



Dimensions

|       |        |                       |
|-------|--------|-----------------------|
| $d_1$ | 190 mm | Shaft diameter        |
| D     | 220 mm | Housing bore diameter |
| b     | 15 mm  | Seal width            |

Application and operating conditions

|                                      |                |
|--------------------------------------|----------------|
| Operating temperature                | min. -25 °C    |
| Operating temperature                | max. 200 °C    |
| Operating temperature, short periods | max. 200 °C    |
| Circumferential speed                | max. 37.98 m/s |

|                       |                        |
|-----------------------|------------------------|
| Rotational speed      | max. 3 840 r/min       |
| Pressure differential | 0.05 N/mm <sup>2</sup> |

Associated products



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