

# 20 VA R

## V-ring seal, VA design, global standard, interchangeable with VR1 design

V-ring seals (V-rings) are all-rubber, axial shaft seals. They offer an easy-to-install solution for rotating shaft applications, including use as a secondary seal in highly contaminated environments. The VA design includes a standard cross section with a straight back side face. Being the most common type of V-rings, VA seals are typically used to protect bearing arrangements in gearboxes, electric motors and drives.

- Easy to install
- Cost-effective
- Reliable contamination exclusion
- If not in stock alternatives can be produced by SKF SEAL JET systems

## Overview

### Dimensions

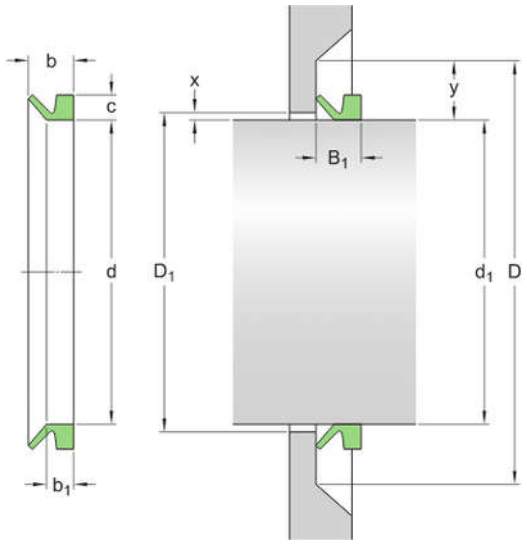
| | |
|---|---|
| Seal width | 7.5 mm |
| Shaft diameter, maximum | 21 mm |
| Shaft diameter, minimum | 19 mm |

### Properties

| | |
|---|---|
| Design | VA |
| Sealing lip material | Nitrile rubber (NBR) |

# Technical Specification

| | |
|---|---|
| Design | VA |
| Lip material | Nitrile rubber (NBR) |




## Dimensions

### Shaft diameter range

| | | |
|---|---|---|
| $d_1$ | over 19 mm | Shaft diameter range (over) |
| $d_1$ | incl. 21 mm | Shaft diameter range (incl.) |

### Seal and abutment

| | | |
|---|---|---|
| d | 18 mm | Seal inside diameter, free state |
| b | 7.5 mm | Nominal seal width |
| $b_1$ | 4.7 mm | Seal seat width |
| c | 4 mm | Nominal seal height |
| 2 x | 2 mm | Radial gap (twice) |
| $D_{11}$ | | |
| 2 y | 12 mm | Radial distance (twice) |
| D min. = $d_1$ | | |
| $B_1$ | 6 mm | Seal fitted width |
| | ± 0.8 mm | Tolerance seal fitted width |

## Application and operating conditions

| | |
|---|---|
| Operating temperature | min. -40 °C |
| Operating temperature | max. 100 °C |

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