



# 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

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

## Properties

Design	VA
Sealing lip material	Nitrile rubber (NBR)

# Technical Specification

Design	VA
Lip material	Nitrile rubber (NBR)

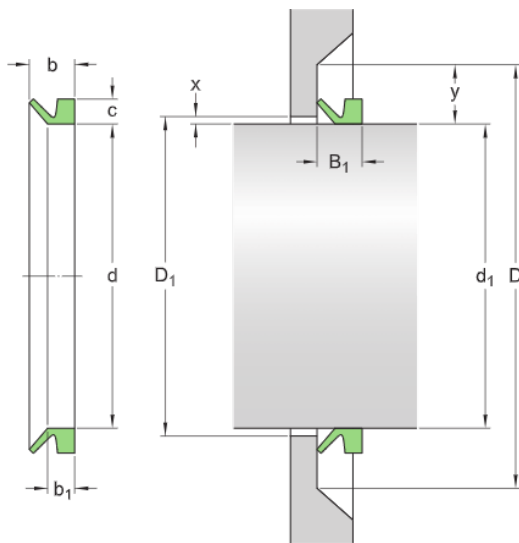
## Dimensions

### 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
	$\pm 0.8$ mm	Tolerance seal fitted width



## Application and operating conditions

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

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