180 VL R



V-ring seal, VL design, global standard, interchangeable with VR3 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 VL design includes a very compact axial cross section. VL seals are commonly used in confined spaces to enhance the efficiency of labyrinth seals.

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

Overview

Dimensions

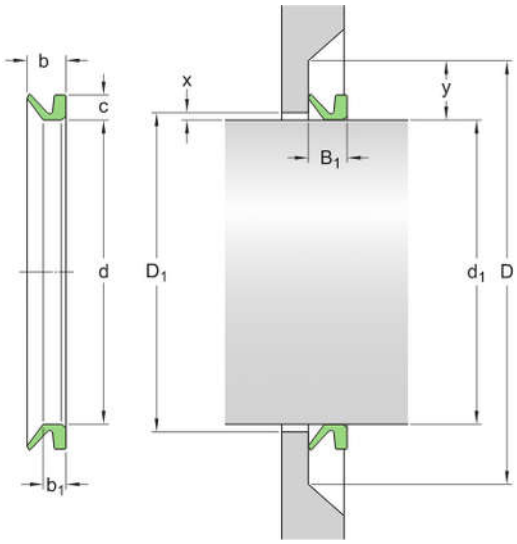
Seal width	10.5 mm
Shaft diameter, maximum	185 mm
Shaft diameter, minimum	175 mm

Properties

Design	VL
Sealing lip material	Nitrile rubber (NBR)

Technical Specification

Design	VL
Lip material	Nitrile rubber (NBR)



Dimensions

Shaft diameter range

d_1	over 175 mm	Shaft diameter range (over)
d_1	incl. 185 mm	Shaft diameter range (incl.)

Seal and abutment

d	162 mm	Seal inside diameter, free state
b	10.5 mm	Nominal seal width
b_1	6 mm	Seal seat width
c	6.5 mm	Nominal seal height
2 x	5 mm	Radial gap (twice)
D_{11}		
2 y	20 mm	Radial distance (twice)
D min. = d_1		
B_1	8 mm	Seal fitted width
	± 1.5 mm	Tolerance seal fitted width

Application and operating conditions

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

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