



**KUGELLAGER24**

SCHWEIZER ONLINESHOP



V-Ringe  
Bauformen VA und VS

V-Rings  
VA and VS models

## Kurzbeschreibung

Der V-Ring ist eine vollgummielastische Wellendichtung, die auf eine Welle montiert gegen eine feststehende Gegenlauf- fläche abdichtet. Die Dichtung rotiert mit der Welle.

## Wirkungsweise

Der V-Ring wird mit Untermaß auf die Welle aufgezogen und dreht mit der Welle mit. Die flexible Dichtlippe liegt an der Dichtfläche an und gleicht Toleranzen oder Winkelabweichungen aus. Die Dichtlippe verhindert das Eindringen von Flüssigkeiten und schützt gegen Staub von außen.

## Short description

The V-Ring is a solid rubber elastic shaft seal that, when mounted onto a shaft, seals against a fixed running counter surface. The seal rotates with the shaft.

## Principle of operation

The V-Ring is fitted onto the shaft with undersize and rotates with the shaft. The flexible sealing lip is flush against the sealing surface compensating any tolerances or angular deviations. The flexible sealing lip prevents liquid ingress and protects against dust from outside.

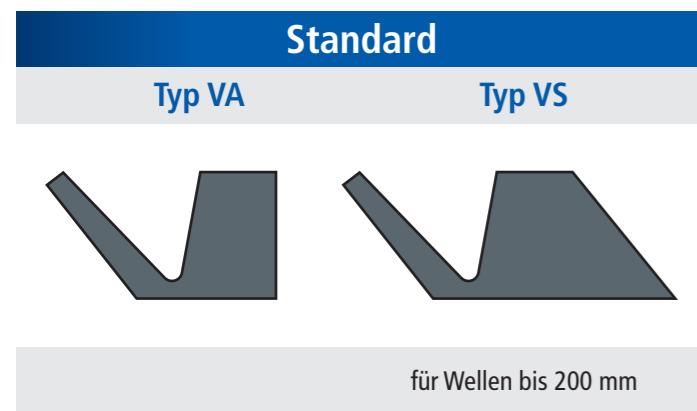
## Einsatzgrenzen

**Druck:** für drucklosen Betrieb ausgelegt  
**Temperatur:** NBR: -40 bis +100° C  
 FKM: -20 bis +200 ° C  
**Umfangsgeschwindigkeit (m/s):** NBR: ≤ 8; axial gesichert ab ≥ 8; radial gesichert ab ≥ 12  
 FKM: ≤ 6,5; axial gesichert ab ≥ 6,5; radial gesichert ab ≥ 10

## Limits of use

**Pressure:** designed for pressureless operation  
**Temperature:** NBR: -40 up to +100 °C  
 FPM: -20 up to +200 °C  
**Peripheral speed (m/s):** NBR: ≤ 8; axially secured from ≥ 8; radially secured from ≥ 12  
 FKM: ≤ 6.5; axially secured from ≥ 6.5; radially secured from ≥ 10

## Bauformen

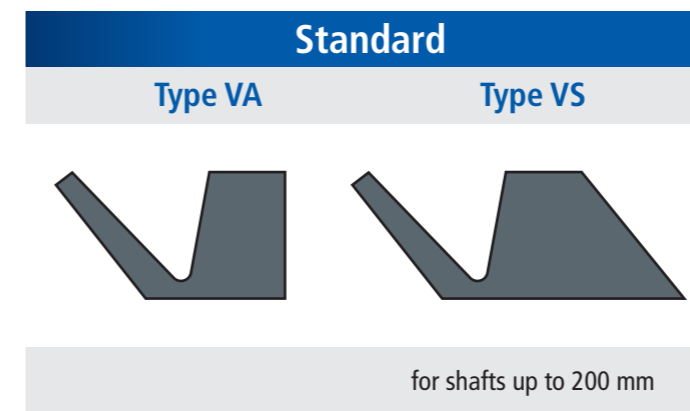


## Bestelldaten

Die Bestelldaten setzen sich bei einem V-Ring wie folgt zusammen:  
 1. Bauform (VA oder VS)  
 2. Ringdurchmesser - d  
 z. B. Bauform VA, Ringdurchmesser 50 mm = **VA 050**

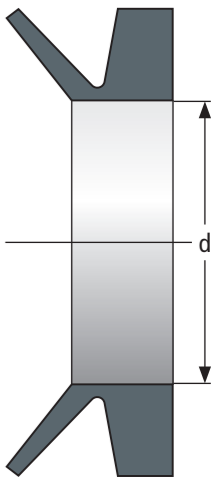


## Type ranges



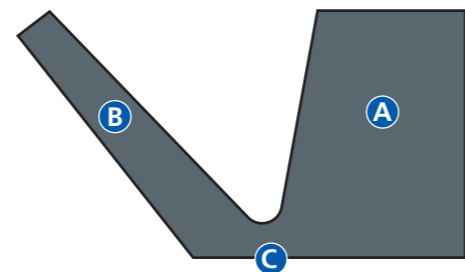
## Order data

The V-rings order data result from these dimensions:  
 1. Type range (VA oder VS)  
 2. ring diameter - d  
**Example:**  
 Type range VA, ring diameter 50 mm = **VA 050**



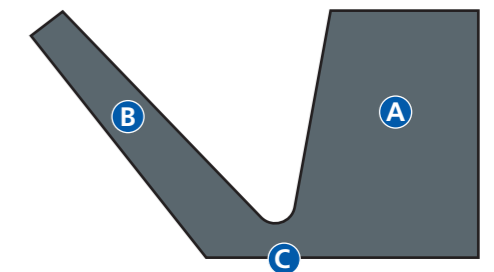
## Aufbau

- A** Dichtkörper, der sich um die Welle klemmt
- B** Dichtlippe, konisch profiliert, dichtet gegen die Gegenlauf- fläche ab
- C** Gelenk



## Structure

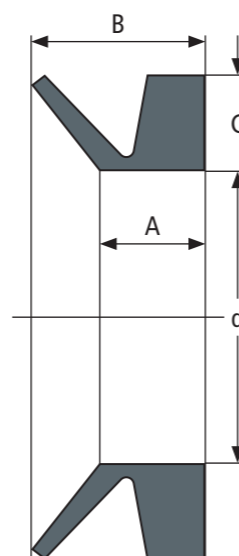
- A** Sealing body that clamps around the shaft
- B** Sealing lip, conically shaped, seals against the counter-running surface
- C** Joint



Abmessungen Bauform VA (in mm)

VA type dimensions (in mm)

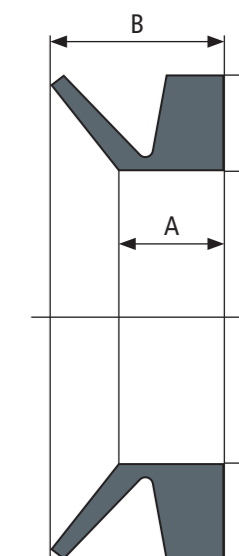
| V-Ring | Ring-<br>durchmesser<br>Ring<br>diameter | Profilhöhe<br>Profile<br>height | Abmessung<br>Dimension | Profilbreite<br>Profile<br>width | Durchmesser-<br>bereich Welle<br>Diameter<br>range of shaft |
|--------|--|---------------------------------|------------------------|----------------------------------|---|
|        | d  | c                               | A                      | B                                |   |
| VA 3   | 2,5                                      | 1,5                             | 2,1                    | 3,0                              | 2,7 - 3,5   |
| VA 4   | 3,2                                      | 2,0                             | 2,4                    | 3,7                              | 3,5 - 4,5   |
| VA 5   | 4,0                                      | 2,0                             | 2,4                    | 3,7                              | 4,5 - 5,5   |
| VA 6   | 5,0                                      | 2,0                             | 2,4                    | 3,7                              | 5,5 - 6,5   |
| VA 7   | 6,0                                      | 2,0                             | 2,4                    | 3,7                              | 6,5 - 8,0   |
| VA 8   | 7,0                                      | 2,0                             | 2,4                    | 3,7                              | 8,0 - 9,5   |
| VA 10  | 9,0                                      | 3,0                             | 3,4                    | 5,5                              | 9,5 - 11,5  |
| VA 12  | 10,5                                     | 3,0                             | 3,4                    | 5,5                              | 11,5 - 12,5   |
| VA 13  | 11,7                                     | 3,0                             | 3,4                    | 5,5                              | 12,5 - 13,5   |
| VA 14  | 12,5                                     | 3,0                             | 3,4                    | 5,5                              | 13,5 - 15,5   |
| VA 16  | 14,0                                     | 3,0                             | 3,4                    | 5,5                              | 15,5 - 17,5   |
| VA 18  | 16,0                                     | 3,0                             | 3,4                    | 5,5                              | 17,5 - 19,0   |
| VA 20  | 18,0                                     | 4,0                             | 4,7                    | 7,5                              | 19,0 - 21,0   |
| VA 22  | 20,0                                     | 4,0                             | 4,7                    | 7,5                              | 21,0 - 24,0   |
| VA 25  | 22,0                                     | 4,0                             | 4,7                    | 7,5                              | 24,0 - 27,0   |
| VA 28  | 25,0                                     | 4,0                             | 4,7                    | 7,5                              | 27,0 - 29,0   |
| VA 30  | 27,0                                     | 4,0                             | 4,7                    | 7,5                              | 29,0 - 31,0   |
| VA 32  | 29,0                                     | 4,0                             | 4,7                    | 7,5                              | 31,0 - 33,0   |
| VA 35  | 31,0                                     | 4,0                             | 4,7                    | 7,5                              | 33,0 - 36,0   |
| VA 38  | 34,0                                     | 4,0                             | 4,7                    | 7,5                              | 36,0 - 38,0   |
| VA 40  | 36,0                                     | 5,0                             | 5,5                    | 9,0                              | 38,0 - 43,0   |
| VA 45  | 40,0                                     | 5,0                             | 5,5                    | 9,0                              | 43,0 - 48,0   |
| VA 50  | 45,0                                     | 5,0                             | 5,5                    | 9,0                              | 48,0 - 53,0   |
| VA 55  | 49,0                                     | 5,0                             | 5,5                    | 9,0                              | 53,0 - 58,0   |



Abmessungen Bauform VA (in mm)

VA type dimensions (in mm)

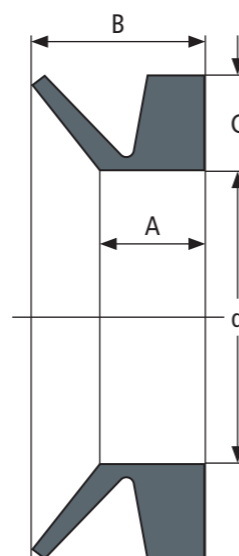
| V-Ring | Ring-<br>durchmesser<br>Ring<br>diameter | Profilhöhe<br>Profile<br>height | Abmessung<br>Dimension | Profilbreite<br>Profile<br>width | Durchmesser-<br>bereich Welle<br>Diameter<br>range of shaft |
|--------|--|---------------------------------|------------------------|----------------------------------|---|
|        | d  | c                               | A                      | B                                |   |
| VA 60  | 54,0                                     | 5,0                             | 5,5                    | 9,0                              | 58,0 - 63,0   |
| VA 65  | 58,0                                     | 5,0                             | 5,5                    | 9,0                              | 63,0 - 68,0   |
| VA 70  | 63,0                                     | 6,0                             | 6,8                    | 11,0                             | 68,0 - 73,0   |
| VA 75  | 67,0                                     | 6,0                             | 6,8                    | 11,0                             | 73,0 - 78,0   |
| VA 80  | 72,0                                     | 6,0                             | 6,8                    | 11,0                             | 78,0 - 83,0   |
| VA 85  | 76,0                                     | 6,0                             | 6,8                    | 11,0                             | 83,0 - 88,0   |
| VA 90  | 81,0                                     | 6,0                             | 6,8                    | 11,0                             | 88,0 - 93,0   |
| VA 95  | 85,0                                     | 6,0                             | 6,8                    | 11,0                             | 93,0 - 98,0   |
| VA 100 | 90,0                                     | 6,0                             | 6,8                    | 11,0                             | 98,0 - 105,0  |
| VA 110 | 99,0                                     | 7,0                             | 7,9                    | 12,8                             | 105,0 - 115,0   |
| VA 120 | 108,0                                    | 7,0                             | 7,9                    | 12,8                             | 115,0 - 125,0   |
| VA 130 | 117,0                                    | 7,0                             | 7,9                    | 12,8                             | 125,0 - 135,0   |
| VA 140 | 126,0                                    | 7,0                             | 7,9                    | 12,8                             | 135,0 - 145,0   |
| VA 150 | 135,0                                    | 7,0                             | 7,9                    | 12,8                             | 145,0 - 155,0   |
| VA 160 | 144,0                                    | 8,0                             | 9,0                    | 14,5                             | 155,0 - 165,0   |
| VA 170 | 153,0                                    | 8,0                             | 9,0                    | 14,5                             | 165,0 - 175,0   |
| VA 180 | 162,0                                    | 8,0                             | 9,0                    | 14,5                             | 175,0 - 185,0   |
| VA 190 | 171,0                                    | 8,0                             | 9,0                    | 14,5                             | 185,0 - 195,0   |
| VA 199 | 180,0                                    | 8,0                             | 9,0                    | 14,5                             | 195,0 - 210,0   |
| VA 200 | 180,0                                    | 15,0                            | 14,3                   | 25,0                             | 190,0 - 210,0   |
| VA 220 | 198,0                                    | 15,0                            | 14,3                   | 25,0                             | 210,0 - 235,0   |
| VA 250 | 225,0                                    | 15,0                            | 14,3                   | 25,0                             | 235,0 - 265,0   |
| VA 275 | 247,0                                    | 15,0                            | 14,3                   | 25,0                             | 265,0 - 290,0   |
| VA 300 | 270,0                                    | 15,0                            | 14,3                   | 25,0                             | 290,0 - 310,0   |



Abmessungen Bauform VA (in mm)

VA type dimensions (in mm)

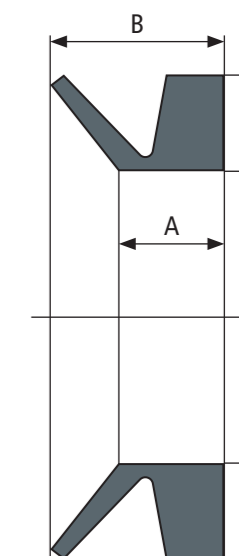
| V-Ring  | Ring-<br>durchmesser<br>Ring<br>diameter | Profilhöhe<br>Profile<br>height | Abmessung<br>Dimension | Profilbreite<br>Profile<br>width | Durchmesser-<br>bereich Welle<br>Diameter<br>range of shaft |
|---------|--|---------------------------------|------------------------|----------------------------------|---|
|         | d  | c                               | A                      | B                                |   |
| VA 325  | 292,0                                    | 15,0                            | 14,3                   | 25,0                             | 310,0 - 335,0   |
| VA 350  | 315,0                                    | 15,0                            | 14,3                   | 25,0                             | 335,0 - 365,0   |
| VA 375  | 337,0                                    | 15,0                            | 14,3                   | 25,0                             | 365,0 - 390,0   |
| VA 400  | 360,0                                    | 15,0                            | 14,3                   | 25,0                             | 390,0 - 430,0   |
| VA 450  | 405,0                                    | 15,0                            | 14,3                   | 25,0                             | 430,0 - 480,0   |
| VA 500  | 450,0                                    | 15,0                            | 14,3                   | 25,0                             | 480,0 - 530,0   |
| VA 550  | 495,0                                    | 15,0                            | 14,3                   | 25,0                             | 530,0 - 580,0   |
| VA 600  | 540,0                                    | 15,0                            | 14,3                   | 25,0                             | 580,0 - 630,0   |
| VA 650  | 600,0                                    | 15,0                            | 14,3                   | 25,0                             | 630,0 - 665,0   |
| VA 700  | 630,0                                    | 15,0                            | 14,3                   | 25,0                             | 665,0 - 705,0   |
| VA 725  | 670,0                                    | 15,0                            | 14,3                   | 25,0                             | 705,0 - 745,0   |
| VA 750  | 705,0                                    | 15,0                            | 14,3                   | 25,0                             | 745,0 - 785,0   |
| VA 800  | 745,0                                    | 15,0                            | 14,3                   | 25,0                             | 785,0 - 830,0   |
| VA 850  | 785,0                                    | 15,0                            | 14,3                   | 25,0                             | 830,0 - 875,0   |
| VA 900  | 825,0                                    | 15,0                            | 14,3                   | 25,0                             | 875,0 - 920,0   |
| VA 950  | 865,0                                    | 15,0                            | 14,3                   | 25,0                             | 920,0 - 965,0   |
| VA 1000 | 910,0                                    | 15,0                            | 14,3                   | 25,0                             | 965,0 - 1015,0  |
| VA 1050 | 955,0                                    | 15,0                            | 14,3                   | 25,0                             | 1015,0 - 1065,0   |
| VA 1100 | 1000,0                                   | 15,0                            | 14,3                   | 25,0                             | 1065,0 - 1115,0   |
| VA 1150 | 1045,0                                   | 15,0                            | 14,3                   | 25,0                             | 1115,0 - 1165,0   |
| VA 1200 | 1090,0                                   | 15,0                            | 14,3                   | 25,0                             | 1165,0 - 1215,0   |
| VA 1250 | 1135,0                                   | 15,0                            | 14,3                   | 25,0                             | 1215,0 - 1270,0   |
| VA 1300 | 1180,0                                   | 15,0                            | 14,3                   | 25,0                             | 1270,0 - 1320,0   |
| VA 1350 | 1225,0                                   | 15,0                            | 14,3                   | 25,0                             | 1320,0 - 1370,0   |



Abmessungen Bauform VA (in mm)

VA type dimensions (in mm)

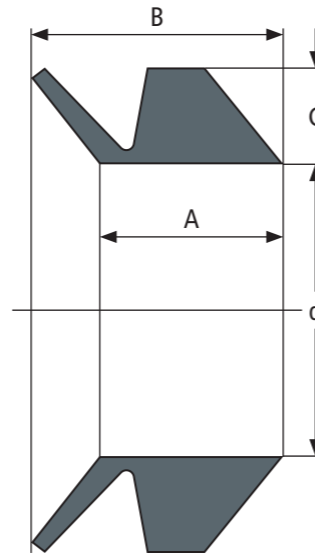
| V-Ring  | Ring-<br>durchmesser<br>Ring<br>diameter | Profilhöhe<br>Profile<br>height | Abmessung<br>Dimension | Profilbreite<br>Profile<br>width | Durchmesser-<br>bereich Welle<br>Diameter<br>range of shaft |
|---------|--|---------------------------------|------------------------|----------------------------------|---|
|         | d  | c                               | A                      | B                                |   |
| VA 1400 | 1270,0                                   | 15,0                            | 14,3                   | 25,0                             | 1370,0 - 1420,0   |
| VA 1450 | 1315,0                                   | 15,0                            | 14,3                   | 25,0                             | 1420,0 - 1470,0   |
| VA 1500 | 1360,0                                   | 15,0                            | 14,3                   | 25,0                             | 1470,0 - 1520,0   |
| VA 1550 | 1405,0                                   | 15,0                            | 14,3                   | 25,0                             | 1520,0 - 1570,0   |
| VA 1600 | 1450,0                                   | 15,0                            | 14,3                   | 25,0                             | 1570,0 - 1620,0   |
| VA 1650 | 1495,0                                   | 15,0                            | 14,3                   | 25,0                             | 1620,0 - 1670,0   |
| VA 1700 | 1540,0                                   | 15,0                            | 14,3                   | 25,0                             | 1670,0 - 1720,0   |
| VA 1750 | 1585,0                                   | 15,0                            | 14,3                   | 25,0                             | 1720,0 - 1770,0   |
| VA 1800 | 1630,0                                   | 15,0                            | 14,3                   | 25,0                             | 1770,0 - 1820,0   |
| VA 1850 | 1675,0                                   | 15,0                            | 14,3                   | 25,0                             | 1820,0 - 1870,0   |
| VA 1900 | 1720,0                                   | 15,0                            | 14,3                   | 25,0                             | 1870,0 - 1920,0   |
| VA 1950 | 1765,0                                   | 15,0                            | 14,3                   | 25,0                             | 1920,0 - 1970,0   |
| VA 2000 | 1810,0                                   | 15,0                            | 14,3                   | 25,0                             | 1970,0 - 2020,0   |



Abmessungen Bauform VS (in mm)

VS type dimensions (in mm)

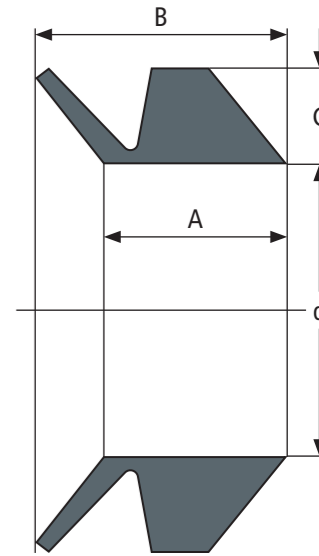
| V-Ring | Ring-<br>durchmesser<br>Ring<br>diameter | Profilhöhe<br>Profile<br>height | Abmessung<br>Dimension | Profilbreite<br>Profile<br>width | Durchmesser-<br>bereich Welle<br>Diameter<br>range of shaft |
|--------|--|---------------------------------|------------------------|----------------------------------|---|
|        | d  | c                               | A                      | B                                |   |
| VS     | 4,0                                      | 2,0                             | 3,9                    | 5,2                              | 4,5 - 5,5   |
| VS     | 5,0                                      | 2,0                             | 3,9                    | 5,2                              | 5,5 - 6,5   |
| VS     | 6,0                                      | 2,0                             | 3,9                    | 5,2                              | 6,5 - 8,0   |
| VS     | 7,0                                      | 2,0                             | 3,9                    | 5,2                              | 7,0 - 9,5   |
| VS     | 9,0                                      | 3,0                             | 5,6                    | 7,7                              | 9,5 - 11,5  |
| VS     | 10,5                                     | 3,0                             | 5,6                    | 7,7                              | 11,5 - 13,5   |
| VS     | 12,5                                     | 3,0                             | 5,6                    | 7,7                              | 13,5 - 15,5   |
| VS     | 14,0                                     | 3,0                             | 5,6                    | 7,7                              | 15,5 - 17,5   |
| VS     | 16,0                                     | 3,0                             | 5,6                    | 7,7                              | 17,5 - 19,0   |
| VS     | 18,0                                     | 4,0                             | 7,9                    | 10,5                             | 19,0 - 21,0   |
| VS     | 20,0                                     | 4,0                             | 7,9                    | 10,5                             | 21,0 - 24,0   |
| VS     | 22,0                                     | 4,0                             | 7,9                    | 10,5                             | 24,0 - 27,0   |
| VS     | 25,0                                     | 4,0                             | 7,9                    | 10,5                             | 27,0 - 29,0   |
| VS     | 27,0                                     | 4,0                             | 7,9                    | 10,5                             | 29,0 - 31,0   |
| VS     | 29,0                                     | 4,0                             | 7,9                    | 10,5                             | 31,0 - 33,0   |
| VS     | 31,0                                     | 4,0                             | 7,9                    | 10,5                             | 33,0 - 36,0   |
| VS     | 34,0                                     | 4,0                             | 7,9                    | 10,5                             | 36,0 - 38,0   |
| VS     | 36,0                                     | 5,0                             | 9,5                    | 13,0                             | 38,0 - 43,0   |
| VS     | 40,0                                     | 5,0                             | 9,5                    | 13,0                             | 43,0 - 48,0   |
| VS     | 45,0                                     | 5,0                             | 9,5                    | 13,0                             | 48,0 - 53,0   |
| VS     | 49,0                                     | 5,0                             | 9,5                    | 13,0                             | 53,0 - 58,0   |



Abmessungen Bauform VS (in mm)

VS type dimensions (in mm)

| V-Ring | Ring-<br>durchmesser<br>Ring<br>diameter | Profilhöhe<br>Profile<br>height | Abmessung<br>Dimension | Profilbreite<br>Profile<br>width | Durchmesser-<br>bereich Welle<br>Diameter<br>range of shaft |
|--------|--|---------------------------------|------------------------|----------------------------------|---|
|        | d  | c                               | A                      | B                                |   |
| VS     | 54,0                                     | 5,0                             | 9,5                    | 13,0                             | 58,0 - 63,0   |
| VS     | 58,0                                     | 5,0                             | 9,5                    | 13,0                             | 63,0 - 68,0   |
| VS     | 63,0                                     | 6,0                             | 11,3                   | 15,5                             | 68,0 - 73,0   |
| VS     | 67,0                                     | 6,0                             | 11,3                   | 15,5                             | 73,0 - 78,0   |
| VS     | 72,0                                     | 6,0                             | 11,3                   | 15,5                             | 78,0 - 83,0   |
| VS     | 76,0                                     | 6,0                             | 11,3                   | 15,5                             | 83,0 - 88,0   |
| VS     | 81,0                                     | 6,0                             | 11,3                   | 15,5                             | 88,0 - 93,0   |
| VS     | 85,0                                     | 6,0                             | 11,3                   | 15,5                             | 93,0 - 98,0   |
| VS     | 90,0                                     | 6,0                             | 11,3                   | 15,5                             | 98,0 - 105,0  |
| VS     | 99,0                                     | 7,0                             | 13,1                   | 18,0                             | 105,0 - 115,0   |
| VS     | 108,0                                    | 7,0                             | 13,1                   | 18,0                             | 115,0 - 125,0   |
| VS     | 117,0                                    | 7,0                             | 13,1                   | 18,0                             | 125,0 - 135,0   |
| VS     | 126,0                                    | 7,0                             | 13,1                   | 18,0                             | 135,0 - 145,0   |
| VS     | 135,0                                    | 7,0                             | 13,1                   | 18,0                             | 145,0 - 155,0   |
| VS     | 144,0                                    | 8,0                             | 15,0                   | 20,5                             | 155,0 - 165,0   |
| VS     | 153,0                                    | 8,0                             | 15,0                   | 20,5                             | 165,0 - 175,0   |
| VS     | 162,0                                    | 8,0                             | 15,0                   | 20,5                             | 175,0 - 185,0   |
| VS     | 171,0                                    | 8,0                             | 15,0                   | 20,5                             | 185,0 - 195,0   |
| VS     | 180,0                                    | 8,0                             | 15,0                   | 20,5                             | 195,0 - 210,0   |





**Kugellager24**  
Ottersbachstrasse 1  
CH-9430 St. Margrethen  
Schweiz

Phone +41 76 378 55 52  
E-Mail [info@kugellager24.ch](mailto:info@kugellager24.ch)

[www.Kugellager24.ch](http://www.Kugellager24.ch)